



**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					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
3/10/17	16:35	Fine	Middle	3.5	30.00	30.00	30.10	7.90	7.90	7.91	29.91	29.91	29.91	97.1	97.0	97.2	6.22	6.20	6.22	7.04	6.99	6.93	7	7.00
	16:37		Middle	3.5	30.20	30.20		7.92	7.92		29.90	29.90		97.3	97.4		6.23	6.24		6.87	6.81		7	
5/10/17	18:35	Cloudy	Middle	3.0	30.30	30.30	30.30	8.12	8.12	8.12	30.63	30.63	30.63	85.4	86.0	86.0	5.61	5.64	5.65	6.27	6.23	6.17	5	5.50
	18:36		Middle	3.0	30.30	30.30		8.12	8.12		30.63	30.63		87.2	85.5		5.73	5.61		6.08	6.11		6	
7/10/17	19:40	Fine	Middle	3.0	28.70	28.70	28.70	8.02	8.02	8.02	30.86	30.86	30.86	86.0	87.7	86.7	5.60	5.71	5.65	10.93	11.00	11.06	9	9.00
	19:41		Middle	3.0	28.70	28.70		8.02	8.02		30.86	30.86		86.1	87.1		5.61	5.67		11.08	11.24		9	
9/10/17	8:34	Fine	Middle	3.5	29.20	29.20	29.20	8.17	8.17	8.18	30.58	30.28	30.51	65.9	65.1	63.7	4.27	4.25	<u>4.13</u>	10.69	10.41	10.44	8	8.50
	8:36		Middle	3.5	29.20	29.20		8.19	8.19		30.58	30.58		62.7	60.9		4.06	3.94		10.41	10.26		9	
11/10/17	10:55	Fine	Middle	3.5	29.70	29.70	29.75	8.16	8.16	8.18	30.51	30.51	30.51	88.5	89.9	89.1	5.68	5.77	5.72	9.62	9.65	9.56	11	10.00
	10:57		Middle	3.5	29.80	29.80		8.19	8.19		30.51	30.51		88.7	89.1		5.70	5.72		9.56	9.39		9	
14/10/17	14:50	Cloudy	Middle	3.5	27.40	27.40	27.35	8.23	8.23	8.26	31.47	31.47	31.47	87.0	87.3	87.5	5.78	5.80	5.81	8.56	8.54	8.59	6	7.00
	14:52		Middle	3.5	27.30	27.30		8.28	8.28		31.47	31.47		87.8	87.7		5.83	5.83		8.62	8.65		8	
16/10/17	16:30	Cloudy	Middle	3.5	27.90	27.90	27.90	8.06	8.06	8.06	32.35	32.25	32.34	85.2	85.6	84.4	5.58	5.60	5.54	9.34	9.38	9.27	11	10.00
	16:32		Middle	3.5	27.90	27.90		8.06	8.06		32.38	32.38		84.3	82.6		5.52	5.47		9.21	9.16		9	
18/10/17	17:30	Fine	Middle	4.0	28.10	28.10	28.10	8.29	8.29	8.29	31.78	31.78	31.78	89.7	90.1	90.1	5.88	5.92	5.92	6.34	6.34	6.32	6	5.00
	17:32		Middle	4.0	28.10	28.10		8.29	8.29		31.78	31.78		90.4	90.2		5.94	5.92		6.27	6.31		4	
20/10/17	20:23	Cloudy	Middle	3.5	26.90	26.90	26.90	8.20	8.20	8.20	32.66	32.66	32.66	84.9	87.5	86.1	6.05	6.24	6.14	10.14	10.12	10.09	7	6.50
	20:24		Middle	3.5	26.90	26.90		8.20	8.20		32.66	32.66		87.3	84.5		6.22	6.03		10.02	10.08		6	
23/10/17	9:25	Fine	Middle	4.0	26.50	26.50	26.45	8.26	8.26	8.27	32.06	32.06	32.06	90.9	91.4	91.4	6.11	6.14	6.14	9.69	9.69	9.66	9	8.50
	9:27		Middle	4.0	26.40	26.40		8.27	8.27		32.06	32.06		91.6	91.5		6.16	6.15		9.69	9.57		8	
25/10/17	11:55	Fine	Middle	4.0	26.70	26.70	26.70	8.23	8.23	8.23	31.96	31.96	31.96	88.4	89.4	89.1	5.92	5.92	5.86	5.84	5.79	5.74	5	4.50
	11:57		Middle	4.0	26.70	26.70		8.23	8.23		31.96	31.97		88.8	89.7		5.95	5.66		5.66	5.67		4	
27/10/17	17:29	Fine	Middle	3.5	27.20	27.20	27.20	7.72	7.72	7.74	31.62	31.62	31.62	101.6	100.0	96.1	6.70	6.60	6.43	6.73	6.73	6.74	5	5.50
	17:31		Middle	3.5	27.20	27.20		7.75	7.75		31.61	31.61		90.5	92.2		6.07	6.35		6.74	6.76		6	
30/10/17	16:10	Fine	Middle	3.5	25.90	25.90	25.90	8.27	8.27	8.27	32.21	32.21	32.22	92.2	92.2	91.7	6.25	6.25	6.22	4.50	4.40	4.38	5	4.50
	16:12		Middle	3.5	25.90	25.90		8.27	8.27		32.22	32.22		91.5	90.8		6.21	6.16		4.37	4.25		4	

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	Value	Average				
3/10/17	16:30	Fine	Middle	3.5	30.40	30.40	30.50	7.86	7.86	7.88	29.61	29.61	29.61	90.6	91.2	90.9	5.77	5.81	5.79	11.33	11.38	11.34	9	9.50
	16:32		Middle	3.5	30.60	30.60		7.89	7.89		29.61	29.61		91.2	90.7		5.81	5.78		11.34	11.31		10	
5/10/17	18:45	Cloudy	Middle	2.5	30.30	30.30	30.30	8.02	8.02	8.02	28.89	28.89	28.89	71.7	71.9	72.5	4.76	4.77	4.83	5.98	5.96	5.93	7	7.50
	18:46		Middle	2.5	30.30	30.30		8.02	8.02		28.89	28.89		72.5	73.7		4.88	4.89		5.93	5.86		8	
7/10/17	19:47	Fine	Middle	3.0	28.80	28.80	28.80	8.11	8.11	8.11	29.48	29.48	29.48	82.2	82.3	82.2	5.39	5.40	5.39	12.11	12.09	12.03	7	7.50
	19:48		Middle	3.0	28.80	28.80		8.11	8.11		29.48	29.48		82.4	81.7		5.40	5.36		12.00	11.93		8	
9/10/17	8:30	Fine	Middle	3.5	29.20	29.20	29.25	8.14	8.14	8.14	28.90	28.90	28.64	55.1	55.2	55.1	5.61	5.61	4.61	13.45	13.26	13.32	8	7.50
	8:32		Middle	3.5	29.30	29.30		8.13	8.13		28.38	28.38		55.2	54.7		3.62	3.58		13.27	13.28		7	
11/10/17	10:50	Fine	Middle	3.0	30.00	30.00	30.10	8.09	8.09	8.08	27.47	27.47	27.47	63.7	64.5	63.9	4.13	4.19	4.14	11.90	11.98	11.95	7	8.00
	10:52		Middle	3.0	30.20	30.20		8.07	8.07		27.47	27.47		63.7	63.6		4.13	4.12		11.90	12.00		9	
14/10/17	14:45	Cloudy	Middle	3.5	27.20	27.20	27.15	8.08	8.08	8.07	26.55	26.55	26.55	62.6	63.1	62.5	4.29	4.32	4.28	14.18	14.13	14.16	6	5.50
	14:47		Middle	3.5	27.10	27.10		8.05	8.05		26.55	26.55		62.0	62.4		4.24	4.28		14.16	14.17		5	
16/10/17	16:06	Cloudy	Middle	3.5	27.90	27.90	27.90	8.05	8.05	8.06	32.21	32.21	32.23	80.5	79.8	67.2	5.28	5.23	5.22	9.47	9.42	9.47	8	8.00
	16:28		Middle	3.5	27.90	27.90		8.06	8.06		32.25	32.25		79.1	29.2		5.19	5.19		9.43	9.54		8	
18/10/17	17:25	Fine	Middle	4.0	26.60	26.60	26.65	8.28	8.28	8.28	31.73	31.73	31.73	89.2	89.8	89.3	5.78	5.82	5.79	5.67	5.73	5.77	5	4.00
	17:27		Middle	4.0	26.70	26.70		8.28	8.28		31.73	31.73		89.3	89.0		5.79	5.77		5.83	5.86		3	
20/10/17	20:30	Cloudy	Middle	3.0	26.10	26.10	26.10	8.08	8.10	8.09	31.13	31.13	31.13	77.0	76.7	76.7	5.53	5.50	5.50	3.58	3.57	3.67	9	8.00
	20:31		Middle	3.0	26.10	26.10		8.07	8.11		31.13	31.13		76.7	76.3		5.50	5.48		3.74	3.77		7	
23/10/17	9:20	Fine	Middle	4.0	26.20	26.20	26.15	8.21	8.21	8.21	30.66	30.66	30.66	77.3	77.3	77.0	5.26	5.26	5.24	9.92	9.86	9.86	8	8.50
	9:22		Middle	4.0	26.10	26.10		8.21	8.21		30.66	30.66		76.9	76.3		5.23	5.19		9.83	9.83		9	
25/10/17	11:50	Fine	Middle	4.0	26.80	26.80	26.85	8.22	8.22	8.23	31.87	31.87	31.87	88.6	88.6	88.1	5.92	5.92	5.88	9.19	9.08	9.09	6	5.00
	11:52		Middle	4.0	26.90	26.90		8.23	8.23		31.86	31.86		87.1	87.9		5.81	5.87		9.02	9.07		4	
27/10/17	17:34	Fine	Middle	3.5	27.00	27.00	27.00	7.78	7.78	7.79	32.39	32.39	32.39	104.1	103.9	103.3	6.91	6.90	6.87	5.16	5.21	5.21	3	3.50
	17:36		Middle	3.5	27.00	27.00		7.80	7.80		32.39	32.39		103.3	102.0		6.85	6.81		5.22	5.25		4	
30/10/17	16:05	Fine	Middle	3.5	26.20	26.20	26.10	8.26	8.26	8.26	32.18	32.18	32.18	91.7	91.1	91.9	6.21	6.17	6.23	5.12	5.09	5.09	4	4.50
	16:07		Middle	3.5	26.00	26.00		8.26	8.26		32.18	32.18		92.3	92.6		6.25	6.27		5.08	5.08		5	



**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				
3/10/17	11:35	Fine	Middle	3.5	29.90	29.90	29.95	7.83	7.83	7.85	30.07	30.07	30.06	89.0	88.8	89.1	5.71	5.70	5.71	7.00	6.90	6.94	11	10.50
	11:37		Middle	3.5	30.00	30.00		7.86	7.86		30.05	30.05		89.4	89.1		5.72	5.71		6.90	6.95		10	
5/10/17	14:25	Cloudy	Middle	3.0	29.70	29.70	29.70	8.15	8.15	8.16	30.68	30.68	30.68	86.0	89.2	87.3	5.52	5.73	5.61	9.03	9.13	9.09	5	5.00
	14:26		Middle	3.0	29.70	29.70		8.17	8.17		30.68	30.67		87.5	86.5		5.62	5.56		9.01	9.17		5	
7/10/17	13:55	Fine	Middle	4.0	29.30	29.30	29.35	7.83	7.83	7.87	31.05	31.05	31.06	105.1	106.2	105.4	6.77	6.87	6.79	10.63	10.60	10.62	9	9.00
	13:57		Middle	4.0	29.40	29.40		7.90	7.90		31.06	31.06		105.0	105.1		6.76	6.77		10.61	10.65		9	
9/10/17	15:07	Fine	Middle	3.5	29.70	29.70	29.70	8.24	8.24	8.24	30.92	30.92	30.94	70.3	64.6	67.6	4.51	4.14	4.33	11.39	11.09	11.11	7	7.00
	15:09		Middle	3.5	29.70	29.70		8.24	8.24		30.93	30.97		67.2	68.3		4.30	4.37		11.06	10.90		7	
11/10/17	22:30	Cloudy	Middle	3.5	29.90	29.90	29.90	8.18	8.18	8.18	31.86	31.86	31.86	86.6	87.4	87.9	5.42	5.47	5.50	7.16	7.17	7.14	5	6.00
	22:31		Middle	3.5	29.90	29.90		8.19	8.18		31.86	31.86		88.4	89.1		5.53	5.57		7.12	7.10		7	
14/10/17	9:50	Cloudy	Middle	3.5	28.20	28.20	28.15	8.21	8.21	8.24	31.37	31.37	31.37	89.8	89.9	90.1	5.88	5.89	5.91	5.83	5.89	5.81	4	4.50
	9:52		Middle	3.5	28.10	28.10		8.26	8.26		31.37	31.37		90.5	90.1		5.94	5.92		5.75	5.76		5	
16/10/17	9:15	Cloudy	Middle	3.0	27.60	27.60	27.65	8.12	8.12	8.12	32.25	32.25	32.25	106.9	107.5	107.0	7.03	7.07	7.04	7.42	7.42	7.42	6	5.50
	9:17		Middle	3.0	27.70	27.70		8.12	8.12		32.24	32.24		107.1	106.3		7.05	6.99		7.42	7.42		5	
18/10/17	11:50	Fine	Middle	4.0	28.20	28.20	28.25	8.31	8.31	8.32	31.81	31.81	31.81	91.0	91.6	90.9	5.94	5.98	5.93	9.38	9.30	9.38	7	7.00
	11:52		Middle	4.0	28.30	28.30		8.32	8.32		31.80	31.80		90.7	90.2		5.92	5.88		9.42	9.43		7	
20/10/17	14:00	Fine	Middle	3.5	27.80	27.80	27.85	8.24	8.24	8.25	31.79	31.79	31.79	87.7	88.9	87.9	5.76	5.84	5.77	10.92	10.82	10.83	6	6.00
	14:02		Middle	3.5	27.90	27.90		8.26	8.26		31.78	31.78		87.9	87.1		5.77	5.72		10.78	10.78		6	
23/10/17	13:55	Fine	Middle	4.0	27.80	27.80	27.80	8.24	8.24	8.25	32.13	32.13	32.14	91.1	91.5	90.9	5.98	6.01	5.97	6.75	6.84	6.82	9	8.50
	13:57		Middle	4.0	27.80	27.80		8.25	8.25		32.14	32.14		90.9	90.2		5.97	5.92		6.85	6.82		8	
25/10/17	5:10	Fine	Middle	3.0	24.90	24.90	24.85	8.06	8.06	8.07	32.53	32.53	32.56	87.2	86.6	87.1	6.01	5.97	6.00	6.29	6.00	6.05	4	4.00
	5:11		Middle	3.0	24.80	24.80		8.08	8.08		32.58	32.58		86.4	88.1		5.96	6.07		5.98	5.93		4	
27/10/17	5:10	Fine	Middle	3.5	24.70	24.70	24.70	8.06	8.06	8.06	30.38	30.38	30.39	83.0	82.5	82.7	5.43	5.40	5.42	3.16	3.31	3.23	3	5.00
	5:11		Middle	3.5	24.70	24.70		8.05	8.05		30.39	30.39		83.1	82.2		5.44	5.39		3.23	3.20		7	
30/10/17	9:45	Fine	Middle	4.0	25.30	25.30	25.25	8.26	8.26	8.27	31.60	31.60	31.61	87.1	87.1	87.2	5.99	5.99	6.00	4.24	4.23	4.23	4	4.50
	9:47		Middle	4.0	25.20	25.20		8.27	8.27		31.61	31.61		87.5	87.2		6.02	6.00		4.23	4.23		5	

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

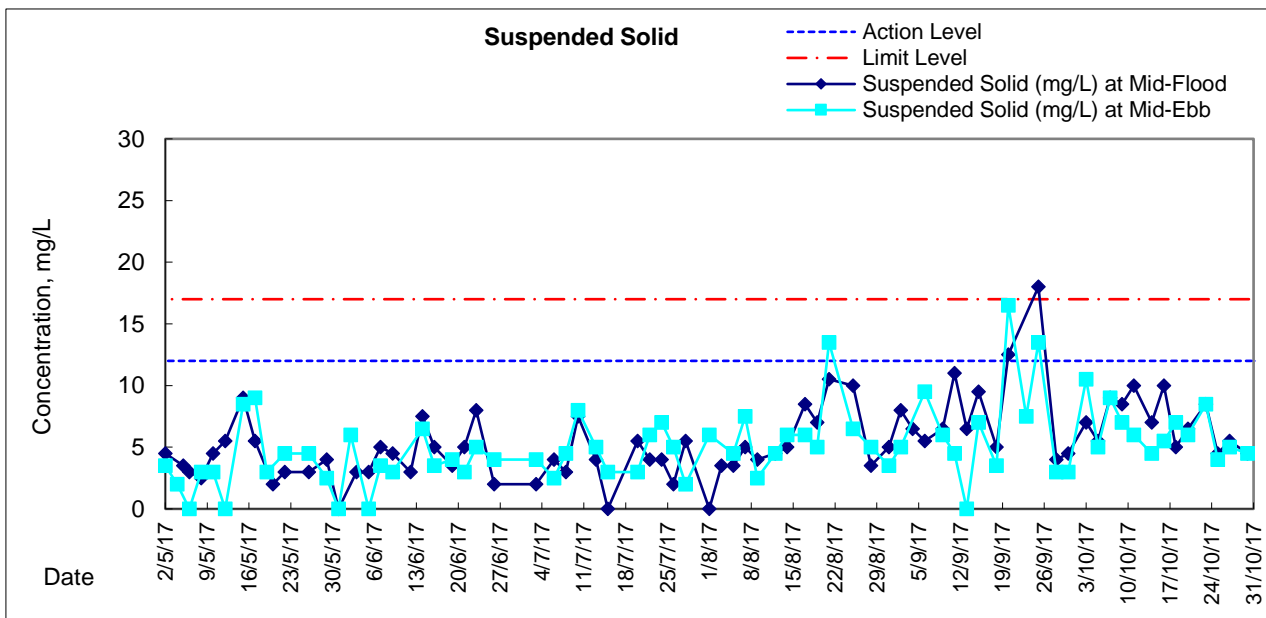
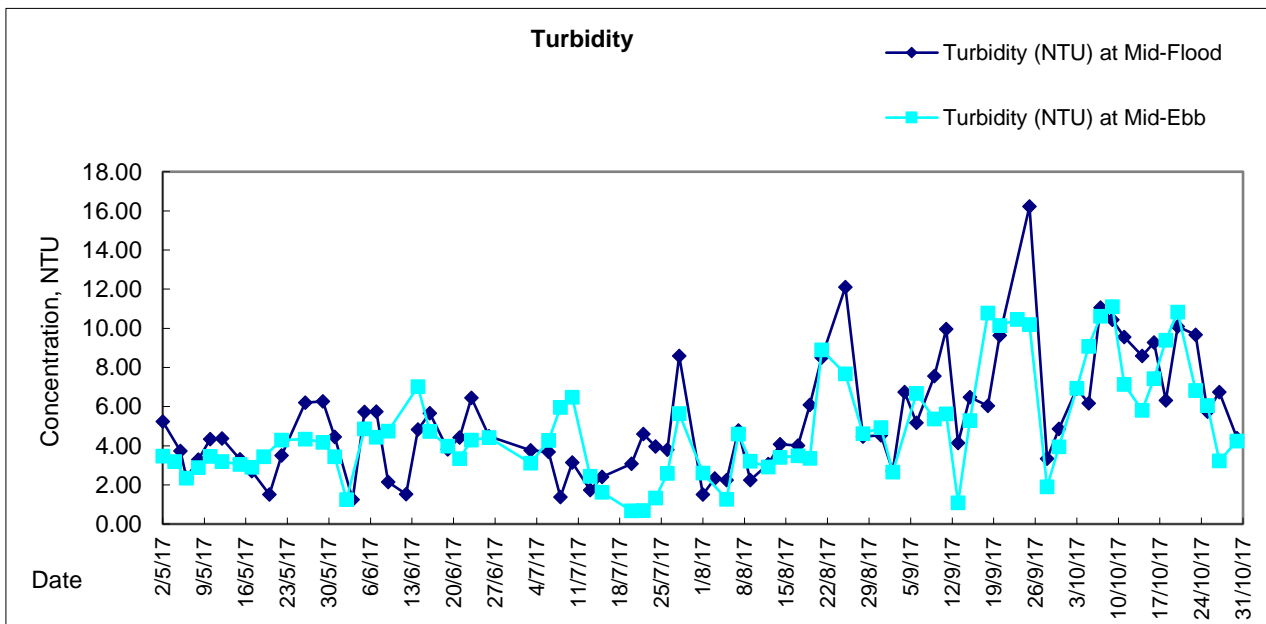
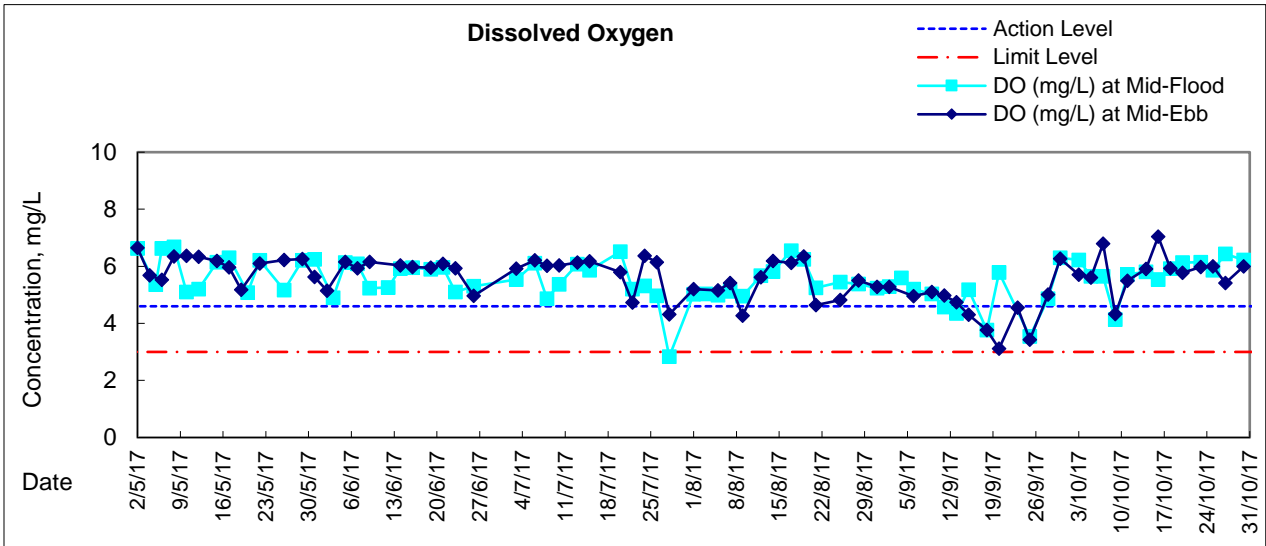


**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
3/10/17	11:30	Fine	Middle	4	30.40	30.40	30.40	7.81	7.81	7.82	29.28	29.28	29.28	80.1	80.6	80.5	5.12	5.15	5.14	5.79	5.57	5.68	7	7.50
	11:32		Middle	4	30.40	30.40		7.83	7.83		29.28	29.28		80.8	80.5		5.16	5.14		5.68	5.67		8	
5/10/17	14:30	Cloudy	Middle	3	29.90	29.90	29.90	8.15	8.15	8.14	28.47	28.47	28.47	65.1	69.5	67.0	4.22	4.51	4.34	9.53	9.49	9.44	7	7.00
	14:31		Middle	3	29.90	29.90		8.12	8.12		28.47	28.47		65.9	67.3		4.27	4.36		9.38	9.35		7	
7/10/17	13:50	Fine	Middle	4	29.60	29.60	29.65	7.72	7.72	7.77	30.38	30.38	30.38	93.5	93.6	93.2	6.01	6.02	5.99	10.12	10.11	10.22	9	9.00
	13:52		Middle	4	29.70	29.70		7.81	7.81		30.38	30.38		92.9	92.6		5.97	5.95		10.27	10.39		9	
9/10/17	15:03	Fine	Middle	4	30.00	30.00	30.05	8.23	8.23	8.23	31.04	31.04	31.05	76.9	76.3	76.2	4.87	4.86	4.85	10.07	10.07	10.06	7	6.00
	15:05		Middle	4	30.10	30.10		8.23	8.23		31.06	31.06		75.6	76.0		4.82	4.84		10.08	10.01		5	
11/10/17	22:39	Cloudy	Middle	3	29.90	29.90	30.00	8.17	8.17	8.17	31.39	31.39	31.39	79.6	79.8	79.8	4.98	4.99	4.99	7.28	7.16	7.22	8	8.50
	22:40		Middle	3	30.10	30.10		8.17	8.17		31.39	31.39		79.9	79.9		5.00	5.00		7.20	7.23		9	
14/10/17	9:45	Cloudy	Middle	4	27.70	27.70	27.75	8.11	8.11	8.10	27.00	27.00	27.02	58.2	58.6	58.2	3.93	3.95	3.93	10.45	10.47	10.43	3	3.00
	9:47		Middle	4	27.80	27.80		8.09	8.09		27.03	27.03		58.0	57.8		3.92	3.90		10.40	10.39		3	
16/10/17	9:23	Cloudy	Middle	3	27.30	27.30	27.30	8.14	8.14	8.13	27.35	27.35	27.34	92.8	92.7	92.4	6.31	6.30	6.28	8.92	8.92	8.95	4	3.50
	9:25		Middle	3	27.30	27.30		8.11	8.11		27.33	27.33		92.0	92.0		6.25	6.25		8.94	9.00		3	
18/10/17	11:45	Fine	Middle	4	28.40	28.40	28.45	8.28	8.28	8.28	31.00	31.00	31.00	87.1	88.0	87.5	5.70	5.78	5.73	6.70	6.53	6.61	7	6.00
	11:47		Middle	4	28.50	28.50		8.28	8.28		31.00	31.00		87.1	87.7		5.70	5.73		6.58	6.62		5	
20/10/17	13:55	Fine	Middle	4	28.30	28.30	28.35	8.13	8.13	8.13	28.35	28.50	28.39	71.6	72.6	72.0	4.76	4.81	4.78	10.94	10.95	10.99	8	7.50
	13:57		Middle	4	28.40	28.40		8.13	8.13		28.36	28.36		71.8	72.0		4.77	4.78		11.02	11.03		7	
23/10/17	13:50	Fine	Middle	4	27.80	27.80	27.85	8.22	8.22	8.22	31.49	31.49	31.49	83.9	82.3	83.0	5.53	5.42	5.47	6.61	6.58	6.60	6	6.50
	13:52		Middle	4	27.90	27.90		8.22	8.22		31.49	31.49		83.0	82.9		5.45	5.46		6.59	6.60		7	
25/10/17	5:15	Fine	Middle	3	24.90	24.90	24.90	8.08	8.08	8.08	30.41	30.41	30.41	63.3	66.9	65.3	4.42	4.67	4.56	6.46	6.45	6.67	6	5.50
	5:16		Middle	3	24.90	24.90		8.07	8.07		30.41	30.41		66.4	64.7		4.64	4.52		6.95	6.83		5	
27/10/17	5:20	Fine	Middle	3	23.90	23.90	23.90	7.87	7.87	7.87	27.60	27.60	27.60	72.6	72.9	72.4	4.88	4.90	4.87	4.28	4.11	4.12	8	8.00
	5:21		Middle	3	23.90	23.90		7.87	7.87		27.60	27.60		72.1	72.1		4.85	4.85		4.08	4.02		8	
30/10/17	9:40	Fine	Middle	4	25.20	25.20	25.15	8.24	8.24	8.24	31.27	31.27	31.28	84.0	84.5	84.3	5.80	5.83	5.82	4.99	4.99	5.04	4	4.50
	9:42		Middle	4	25.10	25.10		8.24	8.24		31.28	31.28		84.6	84.0		5.84	5.80		5.07	5.11		5	



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





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

