



**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					
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
1/11/17	17:05	Fine	Middle	3.5	25.30	25.30	25.30	8.32	8.32	8.32	32.27	32.27	32.27	92.3	92.4	92.5	6.31	6.32	6.32	6.89	6.80	6.82	13	12.00
	17:07		Middle	3.5	25.30	25.30		8.32	8.32		32.27	32.26		93.0	92.3		6.35	6.31		6.76	6.84		11	
3/11/17	17:55	Fine	Middle	4.0	25.50	25.50	25.50	8.26	8.26	8.27	32.18	32.18	32.19	93.6	93.8	93.7	6.39	6.46	6.40	7.42	7.44	7.44	4	4.50
	17:57		Middle	4.0	25.50	25.50		8.28	8.28		32.19	32.19		93.7	93.7		6.39	6.37		7.43	7.45		5	
6/11/17	9:35	Fine	Middle	4.0	24.60	24.60	24.55	8.31	8.31	8.31	32.33	32.33	32.34	91.6	91.8	91.3	6.35	6.37	6.33	7.95	7.95	7.95	9	9.00
	9:37		Middle	4.0	24.50	24.50		8.31	8.31		32.34	32.34		91.0	90.9		6.31	6.30		7.94	7.94		9	
8/11/17	9:25	Fine	Middle	3.5	25.40	25.40	25.40	8.22	8.22	8.22	32.13	32.13	32.13	78.0	78.5	77.8	5.33	5.37	5.32	10.76	10.65	10.59	10	10.00
	9:27		Middle	3.5	25.40	25.40		8.22	8.22		32.13	32.13		77.8	77.0		5.32	5.27		10.58	10.36		10	
10/11/17	10:40	Fine	Middle	3.5	25.70	25.70	25.70	8.18	8.18	8.19	32.21	32.21	32.21	91.3	91.7	91.2	6.21	6.23	6.20	6.75	6.77	6.72	7	7.50
	10:42		Middle	3.5	25.70	25.70		8.19	8.19		32.21	32.21		91.3	90.3		6.21	6.14		6.70	6.66		8	
13/11/17	17:35	Cloudy	Middle	3.5	24.20	24.20	24.25	8.22	8.22	8.23	32.04	32.04	32.15	75.8	76.2	74.4	5.27	5.30	5.18	13.58	13.43	13.36	26	<u>25.00</u>
	17:37		Middle	3.5	24.30	24.30		8.24	8.24		32.25	32.26		73.3	72.2		5.10	5.03		13.31	13.12		24	
15/11/17	16:25	Cloudy	Middle	4.0	24.30	24.30	24.30	8.20	8.20	8.20	32.18	32.18	32.18	89.1	89.4	89.3	6.20	6.22	6.21	7.35	7.37	7.31	8	7.00
	16:27		Middle	4.0	24.30	24.30		8.20	8.20		32.18	32.18		89.3	89.2		6.22	6.21		7.27	7.26		6	
17/11/17	15:35	Fine	Middle	3.5	25.50	25.50	25.55	8.18	8.18	8.18	32.18	32.18	32.18	85.5	85.8	85.9	5.83	5.85	5.86	7.17	7.25	7.27	9	8.50
	15:37		Middle	3.5	25.60	25.60		8.17	8.17		32.17	32.17		86.1	86.1		5.87	5.87		7.34	7.30		8	
20/11/17	7:54	Fine	Middle	3.5	23.60	23.60	23.55	7.45	7.45	7.50	32.31	32.31	32.32	144.8	144.4	144.4	10.21	10.18	10.18	10.23	10.47	10.39	6	6.00
	7:56		Middle	3.5	23.50	23.50		7.55	7.55		32.33	32.33		144.4	144.0		10.19	10.15		10.54	10.31		6	
22/11/17	9:55	Fine	Middle	3.5	22.90	22.90	22.85	8.23	8.23	8.24	32.22	32.22	32.22	88.2	88.7	88.6	6.30	6.33	6.33	8.63	8.44	8.58	10	9.50
	9:57		Middle	3.5	22.80	22.80		8.24	8.24		32.22	32.22		89.1	88.5		6.36	6.32		8.62	8.64		9	
24/11/17	14:35	Fine	Middle	3.5	22.20	22.20	22.25	8.28	8.28	8.29	32.39	32.39	32.39	94.5	94.6	94.5	6.81	6.82	6.81	6.42	6.40	6.38	5	5.00
	14:37		Middle	3.5	22.30	22.30		8.29	8.29		32.39	32.39		94.4	94.4		6.81	6.81		6.38	6.33		5	
27/11/17	11:35	Cloudy	Middle	4.0	22.20	22.20	22.20	8.29	8.29	8.29	32.42	32.42	32.42	92.8	92.7	92.6	6.69	6.68	6.68	6.21	6.21	6.21	5	5.50
	11:37		Middle	4.0	22.20	22.20		8.29	8.29		32.42	32.42		92.4	92.6		6.66	6.68		6.20	6.23		6	
29/11/17	13:35	Fine	Middle	4.0	23.60	23.60	23.65	8.26	8.26	8.26	32.43	32.43	32.43	91.5	91.7	92.3	6.44	6.45	6.49	4.84	4.84	4.79	5	4.50
	13:37		Middle	4.0	23.70	23.70		8.26	8.26		32.43	32.43		92.8	93.3		6.52	6.56		4.75	4.74		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				
					°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			
1/11/17	17:00	Fine	Middle	3.5	25.70	25.70	25.70	8.30	8.30	8.30	32.23	32.23	32.23	91.8	92.9	92.2	6.25	6.31	6.27	6.69	6.59	6.65	8	9.00
	17:02		Middle	3.5	25.70	25.70		8.30	8.30		32.22	32.22		92.3	91.6		6.28	6.23		6.67	6.65		10	
3/11/17	17:50	Fine	Middle	3.5	25.70	25.70	25.75	8.24	8.24	8.24	30.76	30.76	30.76	85.9	86.4	86.4	5.88	5.91	5.91	9.77	9.77	9.79	8	8.50
	17:52		Middle	3.5	25.80	25.80		8.23	8.23		30.76	30.76		86.7	86.6		5.93	5.93		9.77	9.86		9	
6/11/17	9:30	Fine	Middle	4.0	24.50	24.50	24.45	8.29	8.29	8.30	32.32	32.32	32.32	86.6	87.2	86.3	6.01	6.06	6.00	7.42	7.54	7.51	8	7.00
	9:32		Middle	4.0	24.40	24.40		8.30	8.30		32.32	32.32		86.0	85.5		5.97	5.94		7.54	7.53		6	
8/11/17	9:15	Fine	Middle	3.5	25.40	25.40	25.40	8.20	8.20	8.20	31.20	31.20	31.20	65.7	66.8	66.2	4.52	4.59	4.55	10.62	10.56	10.58	9	9.50
	9:17		Middle	3.5	25.40	25.40		8.19	8.19		31.19	31.19		66.4	65.7		4.56	4.52		10.56	10.57		10	
10/11/17	10:35	Fine	Middle	3.5	25.80	25.80	25.85	8.17	8.17	8.16	30.83	30.83	30.83	82.0	82.5	82.0	5.61	5.64	5.60	9.51	9.65	9.65	10	10.00
	10:37		Middle	3.5	25.90	25.90		8.15	8.15		30.83	30.83		81.5	81.8		5.57	5.59		9.82	9.63		10	
13/11/17	17:31	Cloudy	Middle	3.5	24.20	24.20	24.20	8.21	8.21	8.22	30.37	30.37	30.38	65.3	64.0	63.3	4.60	4.50	4.46	10.22	10.21	10.21	12	12.50
	17:33		Middle	3.5	24.20	24.20		8.23	8.23		30.38	30.38		62.0	61.8		4.37	4.36		10.21	10.21		13	
15/11/17	16:20	Cloudy	Middle	3.5	24.60	24.60	24.60	8.19	8.19	8.19	32.05	32.05	32.05	84.1	85.5	85.1	5.83	5.93	5.90	6.67	6.65	6.65	7	6.50
	16:22		Middle	3.5	24.60	24.60		8.19	8.19		32.05	32.05		85.2	85.6		5.91	5.93		6.64	6.63		6	
17/11/17	15:30	Fine	Middle	3.5	25.10	25.10	25.15	8.17	8.17	8.17	32.18	32.18	32.18	90.3	89.5	89.9	6.20	6.16	6.17	7.09	7.12	7.11	8	9.00
	15:32		Middle	3.5	25.20	25.20		8.17	8.17		32.17	32.17		89.7	89.9		6.15	6.17		7.13	7.11		10	
20/11/17	7:50	Fine	Middle	3.5	23.50	23.50	23.45	7.25	7.25	7.31	30.17	30.17	31.18	143.5	142.6	142.0	10.26	10.20	10.16	13.09	13.00	12.63	8	8.00
	7:52		Middle	3.5	23.40	23.40		7.37	7.37		32.18	32.18		141.3	140.5		10.11	10.05		12.33	12.11		8	
22/11/17	9:50	Fine	Middle	3.5	23.10	23.10	22.55	8.23	8.23	8.23	31.74	31.74	31.75	82.3	82.2	82.5	5.88	5.88	5.90	8.05	8.06	8.02	11	10.00
	9:52		Middle	3.5	22.00	22.00		8.22	8.22		31.76	31.76		82.6	82.8		5.91	5.92		7.99	7.98		9	
24/11/17	14:30	Fine	Middle	3.5	22.30	22.30	22.40	8.27	8.27	8.27	32.24	32.24	32.24	90.8	90.7	90.5	6.53	6.53	6.52	6.35	6.38	6.24	6	6.50
	14:32		Middle	3.5	22.50	22.50		8.27	8.27		32.24	32.24		90.4	90.2		6.51	6.49		6.12	6.11		7	
27/11/17	11:30	Cloudy	Middle	4.0	22.30	22.30	22.35	8.27	8.27	8.28	32.35	32.35	32.36	93.0	93.3	93.1	6.70	6.72	6.71	4.74	4.74	4.80	5	5.50
	11:32		Middle	4.0	22.40	22.40		8.28	8.28		32.36	32.36		93.1	93.1		6.70	6.70		4.84	4.86		6	
29/11/17	13:30	Fine	Middle	3.5	24.20	24.20	24.35	8.26	8.26	8.26	32.43	32.43	32.43	89.1	91.5	90.7	6.19	6.35	6.29	5.52	5.52	5.50	4	4.00
	13:32		Middle	3.5	24.50	24.50		8.26	8.26		32.43	32.43		91.3	90.7		6.33	6.30		5.45	5.50		4	



**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
1/11/17	10:35	Fine	Middle	3.5	25.40	25.40	25.45	8.30	8.30	8.30	32.27	32.27	32.27	91.5	92.1	91.5	6.26	6.25	6.25	7.14	7.14	7.13	8	8.50
	10:37		Middle	3.5	25.50	25.50		8.30	8.30		32.27	32.27		91.5	91.0		6.26	6.21		7.13	7.12		9	
3/11/17	11:55	Fine	Middle	3.5	26.10	26.10	26.10	8.22	8.22	8.23	31.81	31.81	31.81	88.8	89.6	89.4	6.01	6.07	6.05	5.13	5.12	5.16	8	9.00
	11:57		Middle	3.5	26.10	26.10		8.23	8.23		31.81	31.81		89.8	89.3		6.08	6.04		5.14	5.23		10	
6/11/17	13:45	Cloudy	Middle	3.5	25.20	25.20	25.20	8.30	8.30	8.30	32.36	32.36	32.36	90.6	92.1	91.6	6.21	6.30	6.27	6.41	6.41	6.47	7	7.00
	13:47		Middle	3.5	25.20	25.20		8.30	8.30		32.36	32.36		91.7	91.9		6.28	6.30		6.52	6.53		7	
8/11/17	5:15	Fine	Middle	3.0	24.20	24.20	24.15	8.06	8.06	8.06	31.88	31.88	31.88	86.0	84.9	86.1	5.72	5.65	5.73	4.06	4.27	4.23	7	6.50
	5:16		Middle	3.0	24.10	24.10		8.06	8.06		31.88	31.88		85.5	87.8		5.69	5.84		4.29	4.30		6	
10/11/17	5:15	Fine	Middle	3.5	24.10	24.10	24.10	8.04	8.04	8.04	32.82	32.82	32.82	88.5	88.6	88.3	6.16	6.17	6.15	8.32	8.35	8.39	4	4.50
	5:16		Middle	3.5	24.10	24.10		8.04	8.04		32.82	32.82		88.2	88.0		6.14	6.13		8.48	8.40		5	
13/11/17	8:32	Fine	Middle	3.5	24.10	24.10	24.10	8.23	8.23	8.23	32.21	32.21	32.25	70.2	74.0	72.0	4.91	5.19	5.03	5.11	5.11	5.11	6	5.50
	8:34		Middle	3.5	24.10	24.10		8.23	8.23		32.34	32.24		72.5	71.1		5.06	4.97		5.11	5.11		5	
15/11/17	10:10	Cloudy	Middle	4.0	24.40	24.40	24.40	8.23	8.23	8.23	32.29	32.29	32.29	92.7	92.2	92.1	6.44	6.40	6.40	5.18	5.22	5.20	4	4.00
	10:12		Middle	4.0	24.40	24.40		8.23	8.23		32.29	32.29		91.4	91.9		6.36	6.39		5.20	5.18		4	
17/11/17	10:45	Fine	Middle	4.0	25.00	25.00	25.05	8.16	8.16	8.18	32.00	32.00	32.00	90.2	91.1	90.6	6.20	6.26	6.23	5.25	5.32	5.31	6	5.00
	10:47		Middle	4.0	25.10	25.10		8.19	8.19		32.00	32.00		90.3	90.9		6.22	6.25		5.33	5.34		4	
20/11/17	3:55	Cloudy	Middle	3.0	22.60	22.60	22.60	8.00	8.00	8.00	32.70	32.70	32.70	91.4	89.9	91.3	6.54	6.44	6.53	8.79	8.68	8.69	8	9.00
	3:56		Middle	3.0	22.60	22.60		8.00	8.00		32.70	32.70		91.6	92.2		6.55	6.60		8.65	8.62		10	
22/11/17	4:45	Cloudy	Middle	3.0	21.80	21.80	21.75	7.93	7.93	7.93	29.43	29.43	29.43	86.5	86.1	86.2	6.41	6.38	6.39	7.05	7.02	7.00	7	6.50
	4:46		Middle	3.0	21.70	21.70		7.93	7.93		29.43	29.43		85.6	86.6		6.34	6.42		6.98	6.95		6	
24/11/17	4:52	Cloudy	Middle	3.0	19.20	19.20	19.20	8.01	8.01	8.04	32.32	32.32	32.32	92.1	90.4	90.8	7.03	6.90	6.93	10.98	11.10	11.11	6	6.00
	4:53		Middle	3.0	19.20	19.20		8.06	8.06		32.32	32.32		90.6	90.2		6.91	6.88		11.34	11.00		6	
27/11/17	5:51	Cloudy	Middle	3.5	21.10	21.10	21.10	8.15	8.15	8.15	32.03	32.03	32.03	88.0	89.9	89.7	6.49	6.63	6.62	6.63	6.72	6.67	6	6.00
	5:52		Middle	3.5	21.10	21.10		8.15	8.15		32.03	32.03		90.5	90.4		6.67	6.67		6.64	6.67		6	
29/11/17	10:55	Fine	Middle	3.5	23.30	23.30	23.40	8.22	8.22	8.24	32.43	32.43	32.42	94.5	95.1	94.3	6.67	6.71	6.65	6.76	6.92	6.79	7	7.00
	10:57		Middle	3.5	23.50	23.50		8.25	8.25		32.41	32.41		94.2	93.2		6.65	6.58		6.76	6.72		7	

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

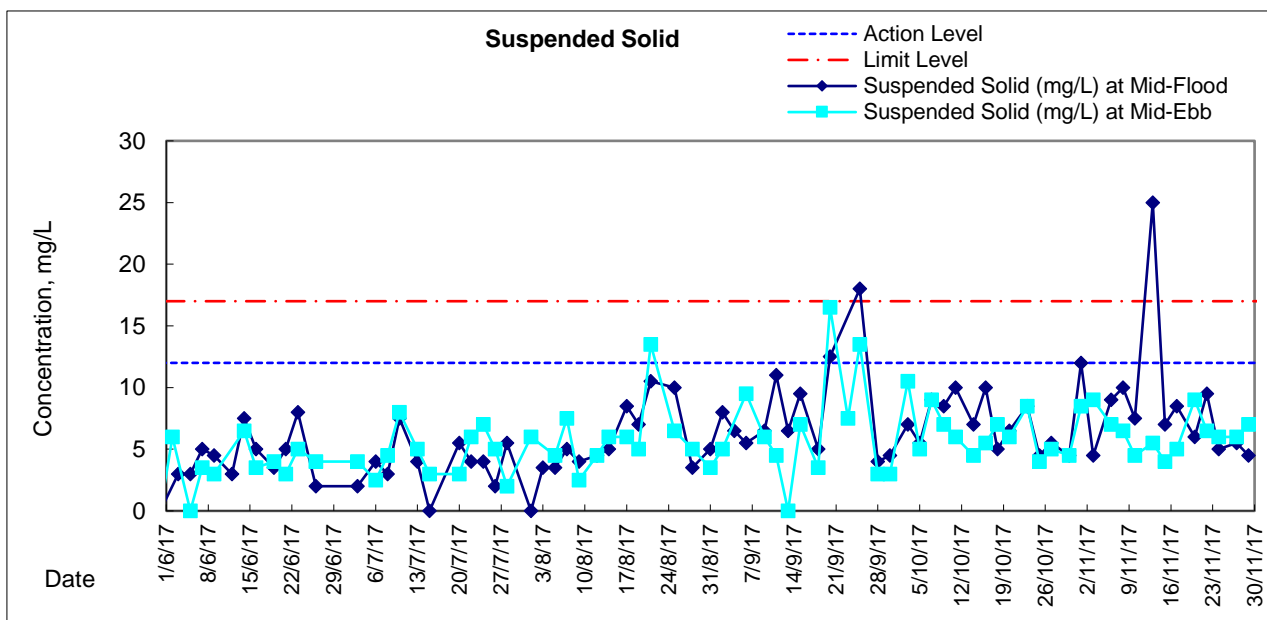
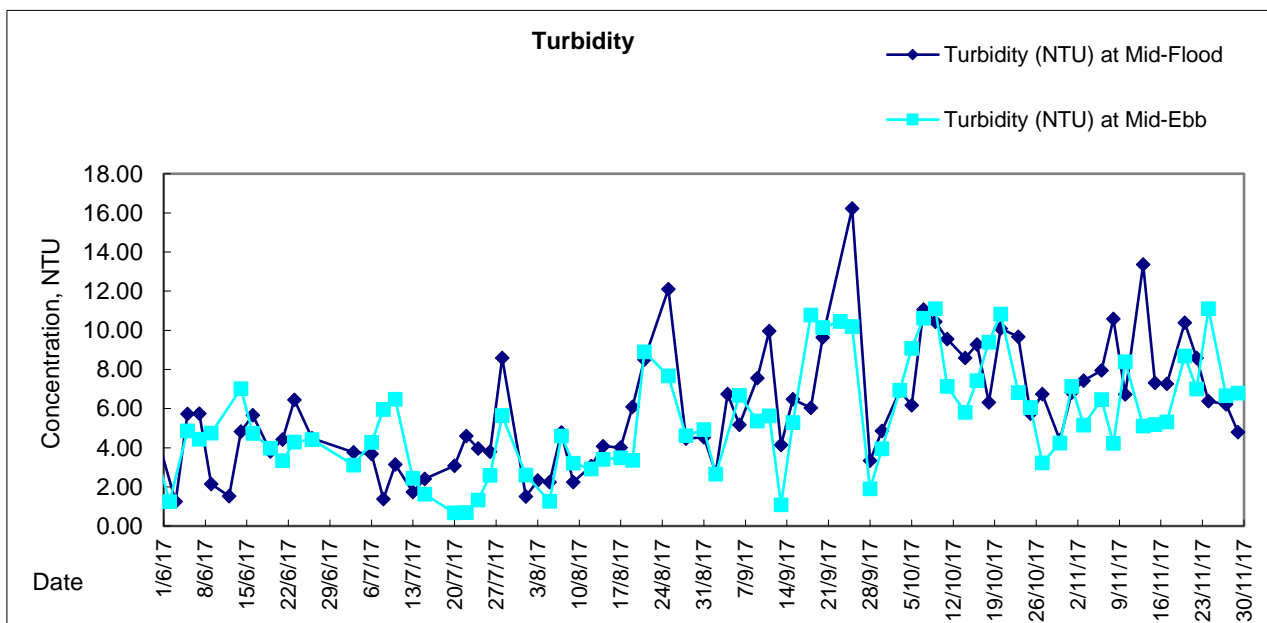
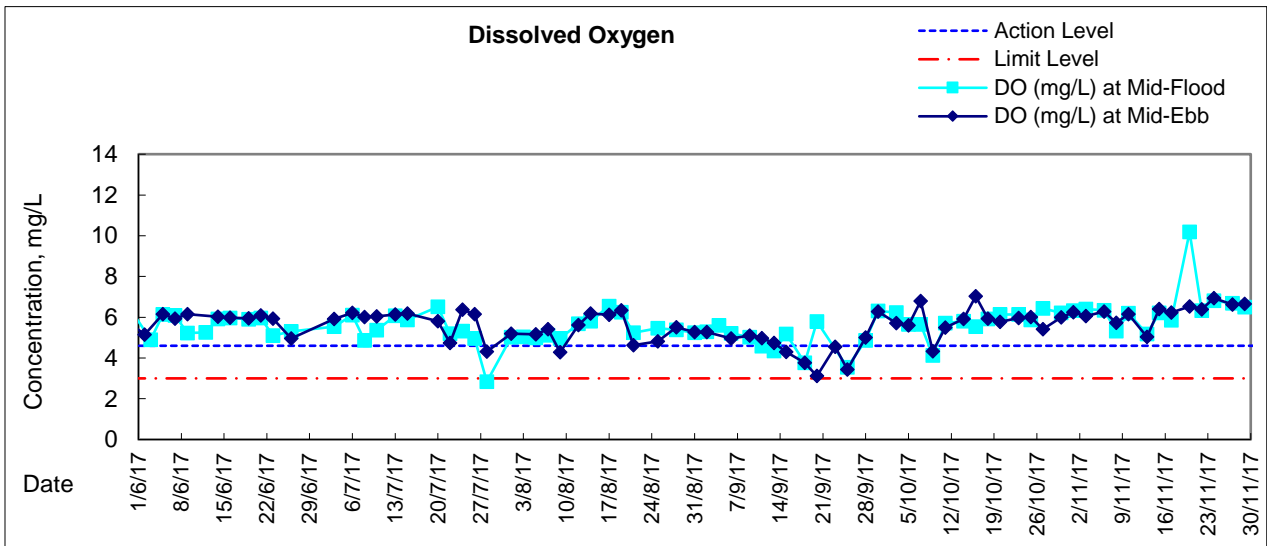


**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
1/11/17	10:30	Fine	Middle	4	25.50	25.50	25.55	8.24	8.24	8.25	31.74	31.74	31.74	86.8	87.1	86.7	5.94	5.95	5.93	8.24	8.27	8.30	9	10.00
	10:32		Middle	4	25.60	25.60		8.26	8.26		31.74	31.74		86.4	86.5		5.90	5.91		8.39	8.31		11	
3/11/17	11:50	Fine	Middle	4	26.80	26.80	26.55	8.19	8.19	8.19	30.64	30.64	30.66	80.4	81.9	81.1	5.45	5.54	5.51	6.40	6.59	6.63	8	7.00
	11:52		Middle	4	26.30	26.30		8.18	8.18		30.68	30.68		80.7	81.3		5.46	5.60		6.87	6.67		6	
6/11/17	13:40	Cloudy	Middle	4	25.40	25.40	25.40	8.30	8.30	8.30	32.21	32.21	32.21	90.1	90.6	90.1	6.16	6.19	6.16	6.45	6.43	6.35	6	6.00
	13:42		Middle	4	25.40	25.40		8.30	8.30		32.21	32.21		90.0	89.8		6.15	6.14		6.26	6.26		6	
8/11/17	5:24	Fine	Middle	3	24.60	24.60	24.60	8.01	8.01	8.01	28.52	28.52	28.52	66.9	67.2	66.4	4.50	4.53	4.47	4.10	4.17	4.09	12	11.50
	5:25		Middle	3	24.60	24.60		8.01	8.01		28.52	28.52		65.8	65.5		4.44	4.41		4.04	4.05		11	
10/11/17	5:23	Fine	Middle	3	24.10	24.10	24.10	7.94	7.94	7.94	31.45	31.45	31.45	57.2	57.9	58.0	4.01	4.06	4.07	4.60	4.58	4.47	5	5.00
	5:24		Middle	3	24.10	24.10		7.94	7.94		31.45	31.45		58.4	58.3		4.10	4.09		4.33	4.36		5	
13/11/17	8:26	Fine	Middle	4	24.00	24.00	24.00	8.19	8.19	8.19	30.51	30.51	30.52	61.5	62.3	62.1	4.35	4.41	4.39	7.42	7.45	7.49	7	6.50
	8:28		Middle	4	24.00	24.00		8.18	8.18		30.52	30.52		62.3	62.1		4.41	4.40		7.51	7.57		6	
15/11/17	10:05	Cloudy	Middle	4	24.50	24.50	24.55	8.22	8.22	8.22	32.28	32.28	32.27	87.0	87.5	87.2	6.03	6.03	6.03	5.65	5.66	5.69	5	5.50
	10:07		Middle	4	24.60	24.60		8.22	8.22		32.26	32.26		87.4	87.0		6.05	6.02		5.72	5.73		6	
17/11/17	10:40	Fine	Middle	4	25.10	25.10	25.15	8.12	8.12	8.08	28.73	28.73	28.66	70.4	70.1	69.8	4.92	4.91	4.88	12.12	12.10	12.13	6	7.00
	10:42		Middle	4	25.20	25.20		8.03	8.03		28.59	28.59		68.7	70.0		4.80	4.90		12.12	12.17		8	
20/11/17	3:59	Cloudy	Middle	3	22.90	22.90	22.85	8.02	8.02	8.01	26.66	26.66	26.66	71.1	70.1	70.9	5.25	5.18	5.23	14.37	14.77	14.73	12	11.50
	4:00		Middle	3	22.80	22.80		8.00	8.00		26.66	26.66		71.2	71.0		5.26	5.24		14.85	14.91		11	
22/11/17	4:52	Cloudy	Middle	3	22.10	22.10	22.10	7.90	7.90	7.89	28.51	28.51	28.51	77.0	75.6	76.2	5.69	5.60	5.64	11.00	10.80	10.85	8	9.50
	4:53		Middle	3	22.10	22.10		7.88	7.88		28.51	28.51		76.0	76.2		5.63	5.64		10.86	10.74		11	
24/11/17	5:05	Cloudy	Middle	3	19.20	19.20	19.20	7.98	7.98	7.98	29.62	29.62	29.62	72.7	72.8	72.9	5.62	5.64	5.65	52.19	50.77	52.56	116	102.00
	5:06		Middle	3	19.20	19.20		7.96	7.98		29.62	29.62		73.3	72.8		5.68	5.64		55.21	52.05		88	
27/11/17	5:58	Cloudy	Middle	3	21.40	21.40	22.90	8.11	8.11	8.11	30.09	30.09	30.09	83.9	84.2	83.3	6.22	6.25	6.18	7.59	7.56	7.51	7	7.50
	5:59		Middle	3	24.40	24.40		8.11	8.11		30.09	30.09		83.7	81.3		6.21	6.04		7.42	7.49		8	
29/11/17	10:50	Fine	Middle	4	23.70	23.70	23.70	8.14	8.14	8.14	30.30	30.30	30.30	85.3	84.1	84.7	6.02	5.96	5.98	9.56	9.55	9.50	10	10.00
	10:52		Middle	4	23.70	23.70		8.13	8.13		30.29	30.29		84.5	84.8		5.95	6.00		9.46	9.44		10	



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





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

