



**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					
02/10/2018	14:30	Fine	Middle	4.0	27.40	27.40	27.50	7.96	7.96	7.97	31.69	31.69	31.70	84.6	84.6	84.6	5.60	5.60	5.60	12.48	12.45	12.47	20	<b>20.50</b>
	14:32		Middle	4.0	27.60	27.60		7.97	7.97		31.70	31.70		84.7	84.4		5.60	5.58		12.49	12.47		21	
04/10/2018	15:55	Fine	Middle	4.0	27.60	27.60	27.60	7.94	7.94	7.94	31.40	31.40	31.41	82.8	82.1	82.6	5.46	5.43	5.46	5.56	5.53	5.54	6	6.00
	15:57		Middle	4.0	27.60	27.60		7.94	7.94		31.41	31.41		82.8	82.8		5.48	5.48		5.56	5.52		6	
06/10/2018	15:14	Fine	Middle	3.5	27.60	27.60	27.70	7.99	7.99	8.00	31.95	31.95	31.95	69.3	67.9	67.6	4.56	4.46	<b>4.44</b>	7.64	7.74	7.59	13	<b>13.00</b>
	15:16		Middle	3.5	27.80	27.80		8.00	8.00		31.95	31.95		67.0	66.0		4.40	4.34		7.53	7.43		13	
08/10/2018	15:30	Fine	Middle	4.0	28.10	28.10	28.15	7.89	7.89	7.89	31.99	31.99	32.02	81.2	81.6	81.2	5.30	5.33	5.30	6.73	6.70	6.73	12	<b>12.00</b>
	15:32		Middle	4.0	28.20	28.20		7.89	7.89		32.04	32.04		80.9	80.9		5.28	5.28		6.72	6.77		12	
10/10/2018	19:17	Cloudy	Middle	3.5	25.60	25.60	25.60	8.16	8.16	8.16	31.36	31.36	31.36	74.8	76.4	75.8	5.12	5.23	5.19	17.86	17.27	17.44	11	11.50
	19:18		Middle	3.5	25.60	25.60		8.16	8.16		31.36	31.36		76.2	75.8		5.22	5.19		17.41	17.20		12	
12/10/2018	11:20	Fine	Middle	4.0	26.30	26.30	26.35	7.92	7.92	7.93	31.87	31.87	32.11	83.8	84.3	84.0	5.63	5.66	5.64	6.86	6.80	6.79	10	10.00
	11:22		Middle	4.0	26.40	26.40		7.94	7.94		32.35	32.35		84.0	83.7		5.64	5.62		6.76	6.74		10	
15/10/2018	11:55	Cloudy	Middle	4.0	26.80	26.80	26.85	7.80	7.80	7.86	32.54	32.54	32.53	86.3	86.1	86.4	5.74	5.71	5.74	8.44	8.41	8.39	9	8.50
	11:57		Middle	4.0	26.90	26.90		7.91	7.91		32.54	32.50		86.7	86.4		5.76	5.74		8.35	8.37		8	
18/10/2018	13:14	Cloudy	Middle	3.5	25.40	25.40	25.40	7.87	7.87	7.88	32.47	32.47	32.48	58.4	58.0	58.0	3.98	3.96	<b>3.95</b>	5.65	5.66	5.67	7	6.50
	13:16		Middle	3.5	25.40	25.40		7.88	7.88		32.48	32.48		57.8	57.6		3.94	3.93		5.68	5.70		6	
20/10/2018	17:00	Cloudy	Middle	4.0	25.00	25.00	25.00	7.96	7.96	7.97	32.97	32.97	32.98	87.2	87.4	86.8	5.97	5.99	5.95	5.04	5.06	5.06	4	4.00
	17:02		Middle	4.0	25.00	25.00		7.97	7.97		32.98	32.98		86.4	86.3		5.92	5.91		5.07	5.06		4	
22/10/2018	17:55	Cloudy	Middle	4.0	25.70	25.70	25.70	7.83	7.83	7.83	32.85	32.85	32.85	79.1	80.0	80.5	5.38	5.43	5.46	5.16	5.17	5.17	3	3.50
	17:57		Middle	4.0	25.70	25.70		7.83	7.83		32.85	32.85		81.2	81.8		5.50	5.53		5.18	5.18		4	
24/10/2018	16:05	Fine	Middle	4.0	26.00	26.00	26.05	7.88	7.88	7.89	32.80	32.80	32.80	80.5	80.8	81.1	5.43	5.45	5.47	5.22	5.21	5.21	9	9.00
	16:07		Middle	4.0	26.10	26.10		7.89	7.89		32.80	32.80		81.5	81.6		5.49	5.49		5.20	5.20		9	
26/10/2018	20:52	Cloudy	Middle	3.5	26.00	26.00	26.00	8.21	8.21	8.21	32.29	32.29	32.29	74.2	75.6	76.0	5.01	5.11	5.13	6.20	5.98	6.09	7	6.50
	20:53		Middle	3.5	26.00	26.00		8.21	8.21		32.29	32.29		77.5	76.7		5.23	5.18		6.11	6.06		6	
30/10/2018	09:36	Fine	Middle	3.5	25.40	25.40	25.40	7.82	7.82	7.83	31.50	31.50	31.51	58.3	59.7	60.0	4.00	4.10	<b>4.12</b>	4.04	3.99	3.97	6	6.50
	09:38		Middle	3.5	25.40	25.40		7.83	7.83		31.51	31.51		61.2	60.6		4.20	4.16		3.94	3.91		7	



**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				
					Value	Average		Value	Average		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average
02/10/2018	14:25	Fine	Middle	4.0	28.10	28.10	28.15	7.91	7.91	7.92	31.42	31.42	31.41	82.0	82.0	81.9	5.39	5.37	5.36	12.31	12.24	12.26	20	20.50
	14:27		Middle	4.0	28.20	28.20		7.93	7.93		31.40	31.40		81.8	81.8		5.34	5.34		12.24	12.26		21	
04/10/2018	15:50	Fine	Middle	4.0	27.90	27.90	27.95	7.92	7.92	7.93	31.34	31.34	31.35	85.9	86.0	85.3	5.65	5.65	5.59	5.10	5.09	5.09	8	8.50
	15:52		Middle	4.0	28.00	28.00		7.93	7.93		31.35	31.35		84.5	84.8		5.50	5.57		5.09	5.07		9	
06/10/2018	15:10	Fine	Middle	3.5	28.60	28.60	28.70	7.96	7.96	7.95	32.10	32.10	32.00	70.3	71.1	70.6	4.55	4.60	4.57	6.65	6.47	6.48	10	10.00
	15:12		Middle	3.5	28.80	28.80		7.93	7.93		31.90	31.90		70.9	70.1		4.59	4.53		6.37	6.41		10	
08/10/2018	15:25	Fine	Middle	3.5	28.30	28.30	28.45	7.87	7.87	7.88	32.05	32.05	32.10	80.7	80.2	80.5	5.23	5.20	5.22	7.08	7.07	7.07	10	10.00
	15:27		Middle	3.5	28.60	28.60		7.89	7.89		32.15	32.15		80.5	80.6		5.22	5.22		7.07	7.07		10	
10/10/2018	19:23	Cloudy	Middle	3.0	25.70	25.70	25.70	8.17	8.17	8.17	30.09	30.09	30.09	72.2	73.8	73.8	4.97	5.08	5.08	16.45	16.32	16.34	11	11.00
	19:24		Middle	3.0	25.70	25.70		8.17	8.17		30.09	30.09		75.2	74.0		5.18	5.10		16.39	16.19		11	
12/10/2018	11:25	Fine	Middle	4.0	26.40	26.40	26.40	7.90	7.90	7.91	31.93	31.93	31.93	81.8	81.7	81.9	5.51	5.50	5.52	14.29	14.18	14.25	19	18.50
	11:27		Middle	4.0	26.40	26.40		7.91	7.91		31.93	31.93		82.1	82.1		5.53	5.52		14.28	14.26		18	
15/10/2018	12:00	Cloudy	Middle	4.0	26.70	26.70	26.70	7.93	7.93	7.93	32.50	32.50	32.50	80.6	81.4	81.2	5.38	5.43	5.42	6.63	6.62	6.61	12	11.50
	12:02		Middle	4.0	26.70	26.70		7.93	7.93		32.50	32.50		81.1	81.7		5.43	5.45		6.60	6.57		11	
18/10/2018	13:18	Cloudy	Middle	3.5	25.10	25.10	25.10	7.84	7.84	7.85	31.62	31.62	31.62	50.5	49.5	49.3	3.48	3.41	3.40	5.79	5.75	5.73	8	8.00
	13:20		Middle	3.5	25.10	25.10		7.86	7.86		31.62	31.62		48.8	48.3		3.36	3.33		5.70	5.66		8	
20/10/2018	16:55	Cloudy	Middle	4.0	25.20	25.20	25.20	7.93	7.93	7.94	32.55	32.55	32.56	86.1	86.2	85.9	5.89	5.90	5.88	4.85	4.87	4.88	5	5.50
	16:57		Middle	4.0	25.20	25.20		7.95	7.95		32.56	32.56		85.8	85.6		5.87	5.85		4.90	4.91		6	
22/10/2018	17:50	Cloudy	Middle	3.5	26.00	26.00	26.05	7.80	7.80	7.81	32.85	32.85	32.85	82.2	83.3	82.8	5.53	5.61	5.58	4.98	4.97	4.97	4	4.00
	17:52		Middle	3.5	26.10	26.10		7.81	7.81		32.85	32.85		82.2	83.4		5.55	5.62		4.96	4.96		4	
24/10/2018	16:00	Fine	Middle	3.5	26.30	26.30	26.40	7.86	7.86	7.87	32.27	32.27	32.27	76.9	77.3	76.7	5.16	5.19	5.14	5.42	5.37	5.38	8	7.50
	16:02		Middle	3.5	26.50	26.50		7.87	7.87		32.27	32.27		75.9	76.5		5.09	5.13		5.37	5.34		7	
26/10/2018	20:59	Cloudy	Middle	3.0	26.00	26.00	26.00	8.23	8.23	8.23	30.97	30.97	30.97	74.6	76.8	75.4	5.08	5.23	5.14	9.10	8.87	8.80	7	7.00
	21:00		Middle	3.0	26.00	26.00		8.23	8.23		30.97	30.97		74.9	75.3		5.10	5.13		8.76	8.48		7	
30/10/2018	09:32	Fine	Middle	3.5	25.20	25.20	25.25	7.86	7.86	7.87	32.40	32.40	32.40	55.3	55.0	55.0	3.78	3.76	3.76	4.77	4.77	4.77	6	6.00
	09:34		Middle	3.5	25.30	25.30		7.87	7.87		32.39	32.39		54.8	54.7		3.75	3.76		4.77	4.77		6	



**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				
02/10/2018	05:45	Fine	Middle	3.0	29.20	29.20	29.20	8.08	8.08	8.08	31.43	31.43	31.43	79.8	80.8	80.8	4.85	4.92	4.89	5.41	5.49	5.35	4	4.50
	05:46		Middle	3.0	29.20	29.20		8.08	8.08		31.42	31.42		81.7	80.9		4.87	4.93		5.32	5.17		5	
04/10/2018	08:50	Fine	Middle	3.5	26.40	26.40	26.35	7.89	7.89	7.90	31.36	31.36	31.36	84.3	85.0	84.2	5.70	5.75	5.70	6.70	6.68	6.68	8	8.50
	08:52		Middle	3.5	26.30	26.30		7.91	7.91		31.36	31.36		83.7	83.8		5.66	5.67		6.67	6.67		9	
06/10/2018	10:09	Fine	Middle	3.5	27.40	27.40	27.40	8.04	8.04	8.04	31.96	31.97	31.98	55.1	54.0	52.9	3.65	3.58	3.51	7.84	7.85	7.85	6	6.50
	10:11		Middle	3.5	27.40	27.40		8.04	8.04		31.99	31.99		52.0	50.6		3.44	3.35		7.85	7.85		7	
08/10/2018	09:35	Fine	Middle	4.0	27.00	27.00	27.00	7.98	7.98	7.99	32.34	32.34	32.35	85.1	84.9	84.9	5.66	5.64	5.64	7.32	7.33	7.34	9	8.50
	09:37		Middle	4.0	27.00	27.00		7.99	7.99		32.35	32.35		84.7	84.7		5.63	5.63		7.37	7.35		8	
10/10/2018	13:35	Cloudy	Middle	4.0	26.40	26.40	26.30	8.11	8.11	8.12	29.54	29.54	29.54	78.8	79.2	79.1	5.35	5.42	5.41	7.07	7.08	7.08	8	8.50
	13:37		Middle	4.0	26.20	26.20		8.12	8.12		29.53	29.53		79.2	79.3		5.42	5.43		7.09	7.08		9	
12/10/2018	13:20	Fine	Middle	4.0	26.40	26.40	26.40	7.94	7.94	7.95	32.28	32.28	32.31	82.0	81.6	81.7	5.51	5.48	5.48	7.65	7.60	7.60	11	11.50
	13:22		Middle	4.0	26.40	26.40		7.95	7.95		32.33	32.33		81.5	81.5		5.47	5.47		7.59	7.57		12	
15/10/2018	04:11	Cloudy	Middle	3.5	25.70	25.70	25.70	8.15	8.15	8.15	31.94	31.94	31.94	81.1	80.3	80.9	5.54	5.50	5.53	2.90	2.68	2.56	4	4.50
	04:12		Middle	3.5	25.70	25.70		8.15	8.15		31.94	31.94		81.4	80.9		5.55	5.53		2.44	2.23		5	
18/10/2018	04:49	Cloudy	Middle	3.5	24.10	24.10	24.10	8.24	8.24	8.24	32.06	32.06	32.06	77.8	78.5	77.6	5.44	5.50	5.43	1.08	1.13	1.12	<2	<2
	04:50		Middle	3.5	24.10	24.10		8.24	8.24		32.06	32.06		77.4	76.7		5.41	5.37		1.15	1.10		<2	
20/10/2018	09:35	Fine	Middle	3.5	25.30	25.30	25.30	7.93	7.93	7.94	33.04	33.04	33.05	84.4	84.6	84.2	5.75	5.76	5.73	4.32	4.32	4.32	8	8.00
	09:37		Middle	3.5	25.30	25.30		7.95	7.95		33.05	33.05		83.8	83.8		5.71	5.71		4.32	4.31		8	
22/10/2018	10:35	Fine	Middle	2.5	26.20	26.20	26.25	7.92	7.92	7.88	33.02	33.02	33.02	82.1	82.7	82.7	5.51	5.55	5.54	3.72	3.73	3.74	2	2.00
	10:37		Middle	2.5	26.30	26.30		7.84	7.84		33.02	33.02		82.9	82.9		5.55	5.55		3.75	3.76		2	
24/10/2018	10:20	Fine	Middle	4.0	26.10	26.10	26.15	7.79	7.79	7.81	32.98	32.98	32.99	75.7	77.1	76.7	5.09	5.18	5.15	4.40	4.39	4.38	10	9.00
	10:22		Middle	4.0	26.20	26.20		7.82	7.82		32.99	32.99		76.8	77.1		5.16	5.17		4.36	4.36		8	
26/10/2018	12:50	Fine	Middle	4.0	26.90	26.90	26.90	7.74	7.74	7.75	32.76	32.76	32.76	84.4	85.0	84.8	5.61	5.64	5.63	4.57	4.56	4.55	6	6.00
	12:52		Middle	4.0	26.90	26.90		7.75	7.75		32.76	32.76		84.7	85.1		5.62	5.64		4.56	4.50		6	
30/10/2018	02:45	Fine	Middle	3.5	23.10	23.10	23.10	8.19	8.19	8.19	30.60	30.60	30.60	77.2	77.3	76.9	5.55	5.55	5.53	1.71	1.98	1.71	3	3.00
	02:46		Middle	3.5	23.10	23.10		8.19	8.19		30.60	30.60		76.7	76.4		5.51	5.49		1.52	1.64		3	

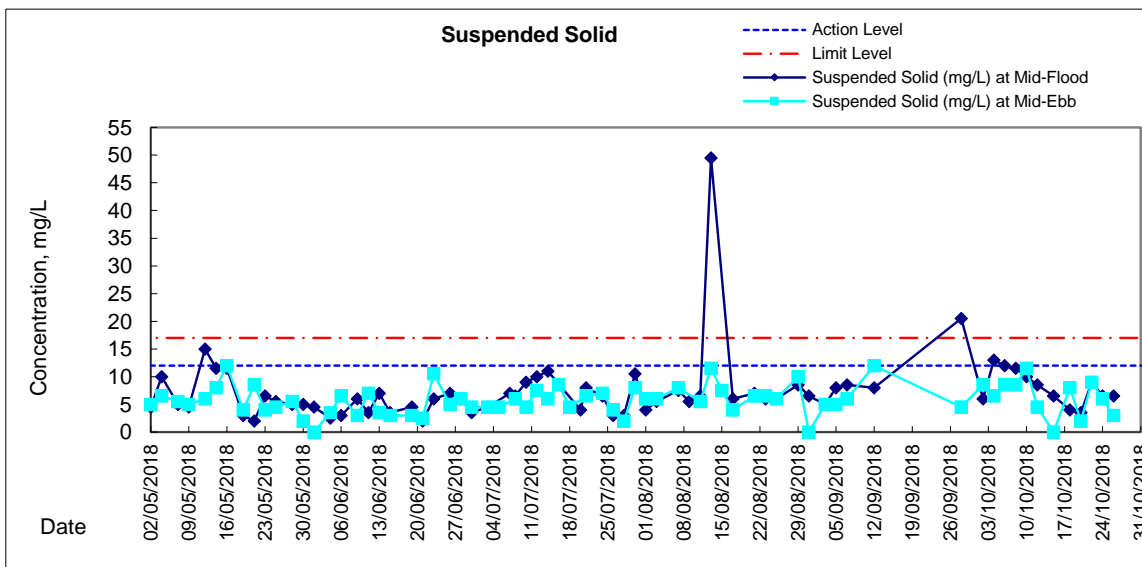
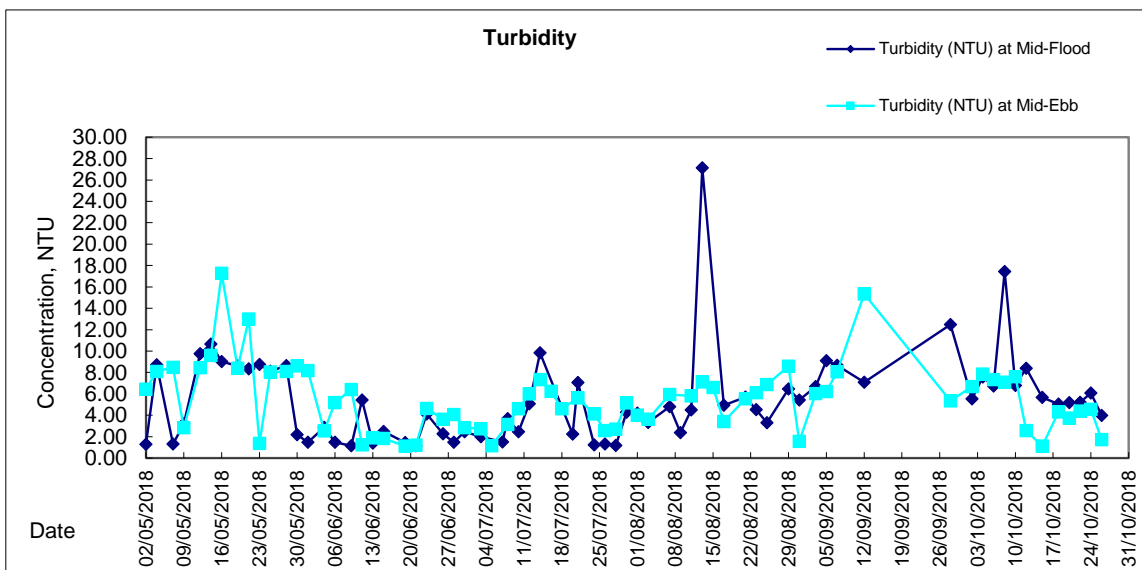
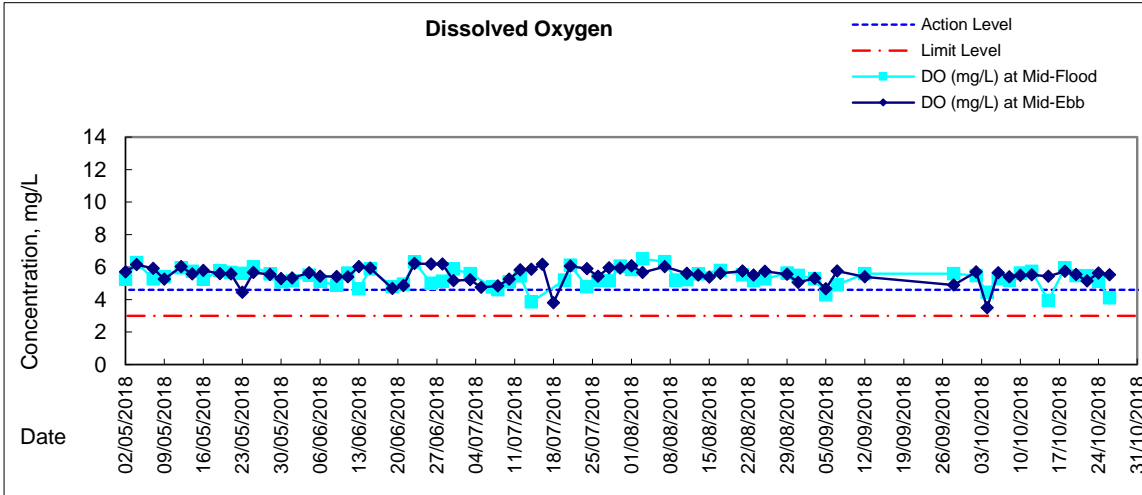


**Water Monitoring Result at Culvert J - Reference Station  
Mid-Ebb Tide**

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				
02/10/2018	06:00	Fine	Middle	3	28.90	28.90	28.90	8.10	8.10	8.10	28.06	28.06	28.06	72.2	74.2	73.3	4.55	4.68	4.62	4.44	4.28	4.32	6	5.50
	06:01		Middle	3	28.90	28.90		8.10	8.10		28.06	28.06		74.1	72.6		4.67	4.57		4.40	4.14		5	
04/10/2018	08:45	Fine	Middle	4	26.60	26.60	26.55	7.86	7.86	7.86	29.22	29.22	29.22	69.4	69.6	70.1	4.73	4.76	4.78	7.10	7.10	7.11	7	6.50
	08:47		Middle	4	26.50	26.50		7.85	7.85		29.22	29.22		71.1	70.2		4.84	4.79		7.11	7.11		6	
06/10/2018	10:05	Fine	Middle	4	27.20	27.20	27.20	7.99	7.99	7.97	28.06	28.06	28.06	50.7	50.3	49.9	3.44	3.42	3.39	6.99	7.00	7.00	13	12.50
	10:07		Middle	4	27.20	27.20		7.95	7.95		28.06	28.06		49.2	49.5		3.34	3.36		7.00	7.01		12	
08/10/2018	09:30	Fine	Middle	4	27.00	27.00	27.00	7.95	7.95	7.96	31.95	31.95	31.95	83.3	83.8	83.9	5.55	5.58	5.59	7.55	7.65	7.61	9	9.50
	09:32		Middle	4	27.00	27.00		7.96	7.96		31.95	31.95		84.3	84.2		5.62	5.61		7.64	7.60		10	
10/10/2018	13:30	Cloudy	Middle	4	26.10	26.10	26.05	8.10	8.10	8.11	29.33	29.33	29.33	78.9	79.5	79.2	5.42	5.45	5.44	7.31	7.28	7.27	13	12.50
	13:32		Middle	4	26.00	26.00		8.11	8.11		29.33	29.33		79.3	79.1		5.45	5.45		7.24	7.26		12	
12/10/2018	13:15	Fine	Middle	4	26.40	26.40	26.40	7.94	7.94	7.94	31.25	31.25	31.25	77.9	78.0	78.1	5.26	5.27	5.28	18.09	18.06	18.07	22	22.50
	13:17		Middle	4	26.40	26.40		7.93	7.93		31.25	31.25		78.1	78.4		5.28	5.30		18.06	18.08		23	
15/10/2018	04:18	Cloudy	Middle	3	25.60	25.60	25.60	8.19	8.19	8.19	31.19	31.19	31.19	73.9	77.4	76.5	5.07	5.30	5.25	1.68	1.31	1.53	5	5.00
	04:19		Middle	3	25.60	25.60		8.19	8.19		31.19	31.19		78.4	76.2		5.38	5.24		1.28	1.83		5	
18/10/2018	04:55	Cloudy	Middle	3	24.20	24.20	24.20	8.26	8.26	8.26	27.13	27.13	27.13	64.4	65.8	64.9	4.63	4.73	4.67	2.36	2.23	2.22	4	4.00
	04:56		Middle	3	24.20	24.20		8.26	8.26		27.13	27.13		65.3	64.1		4.69	4.61		2.10	2.17		4	
20/10/2018	09:30	Fine	Middle	4	25.30	25.30	25.30	7.90	7.90	7.91	30.96	30.96	30.96	78.2	77.9	78.4	5.38	5.36	5.40	5.13	5.10	5.10	4	4.00
	09:32		Middle	4	25.30	25.30		7.92	7.92		30.96	30.96		78.7	78.7		5.43	5.43		5.09	5.09		4	
22/10/2018	10:30	Fine	Middle	3	26.30	26.30	26.40	7.79	7.79	7.80	32.55	32.55	32.55	77.9	78.4	79.1	5.22	5.25	5.30	4.87	4.92	4.87	4	4.00
	10:32		Middle	3	26.50	26.50		7.80	7.80		32.55	32.55		79.9	80.1		5.35	5.36		4.86	4.83		4	
24/10/2018	10:25	Fine	Middle	4	25.80	25.80	25.85	7.84	7.84	7.85	32.82	32.82	33.32	77.7	77.7	77.8	5.25	5.25	5.26	4.24	4.23	4.26	7	7.00
	10:27		Middle	4	25.90	25.90		7.85	7.85		33.82	33.82		77.5	78.1		5.24	5.28		4.27	4.28		7	
26/10/2018	12:45	Fine	Middle	4	27.50	27.50	27.60	7.71	7.71	7.72	32.86	32.86	32.86	83.5	85.0	85.3	5.48	5.58	5.59	4.76	4.70	4.70	5	5.00
	12:47		Middle	4	27.70	27.70		7.72	7.72		32.86	32.86		86.7	86.0		5.68	5.63		4.68	4.67		5	
30/10/2018	02:51	Fine	Middle	3	23.30	23.30	23.30	8.17	8.17	8.17	28.23	28.23	28.23	69.5	71.2	70.1	5.04	5.17	5.09	4.82	4.76	4.76	4	4.00
	02:52		Middle	3	23.30	23.30		8.17	8.17		28.23	28.23		70.0	69.5		5.12	5.04		4.87	4.58		4	



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





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

