



**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					
02/03/2018	18:17	Cloudy	Middle	3.0	18.80	18.80	18.80	8.13	8.13	8.13	32.06	32.06	32.06	83.9	85.2	85.2	6.43	6.53	6.53	1.43	1.52	1.56	3	4.00
	18:18		Middle	3.0	18.80	18.80	18.80	8.13	8.13	8.13	32.06	32.06	32.06	86.1	85.4	85.2	6.60	6.57	6.53	1.61	1.66	1.56	5	
05/03/2018	10:15	Fine	Middle	4.0	20.60	20.60	20.52	8.16	8.16	8.16	31.08	31.08	31.08	88.7	88.2	88.5	6.64	6.62	6.63	3.43	3.41	3.42	6	5.00
	10:17		Middle	4.0	20.70	20.17	20.52	8.16	8.16	8.16	31.08	31.08	31.08	88.2	88.7	88.5	6.62	6.63	6.63	3.41	3.41	3.42	4	
07/03/2018	09:25	Fine	Middle	4.0	18.10	18.10	18.15	8.13	8.13	8.14	31.40	29.65	30.53	89.6	89.6	89.8	7.01	7.01	7.02	6.69	6.77	6.71	7	6.00
	09:27		Middle	4.0	18.20	18.20	18.15	8.15	8.15	8.14	31.40	29.65	30.53	89.9	89.9	89.8	7.03	7.03	7.02	6.68	6.69	6.71	5	
09/03/2018	11:55	Fine	Middle	4.0	17.50	17.50	17.50	8.20	8.20	8.21	31.45	31.45	31.46	90.7	90.5	90.4	7.18	7.16	7.16	2.70	2.69	2.68	2	2.50
	11:57		Middle	4.0	17.50	17.50	17.50	8.21	8.21	8.21	31.47	31.47	31.46	90.5	90.0	90.4	7.17	7.13	7.16	2.67	2.66	2.68	3	
12/03/2018	13:55	Fine	Middle	4.0	19.20	19.20	19.30	8.23	8.23	8.23	31.68	31.68	31.67	91.8	91.6	91.8	7.01	6.99	7.01	4.06	4.10	4.08	6	5.50
	13:57		Middle	4.0	19.40	19.40	19.30	8.23	8.23	8.23	31.66	31.66	31.67	91.8	92.1	91.8	7.01	7.02	7.01	4.09	4.07	4.08	5	
14/03/2018	15:10	Cloudy	Middle	3.5	18.90	18.90	18.80	8.15	8.15	8.16	32.14	32.14	32.14	81.5	81.7	81.6	6.28	6.30	6.29	9.02	9.01	8.99	13	<u>13.00</u>
	15:12		Middle	3.5	18.70	18.70	18.80	8.16	8.16	8.16	32.14	32.14	32.14	81.6	81.6	81.6	6.29	6.29	6.29	8.97	8.96	8.99	13	
16/03/2018	17:55	Fine	Middle	4.0	20.00	20.00	20.10	8.16	8.16	8.17	31.27	31.27	31.27	89.4	90.1	89.6	6.75	6.79	6.76	7.74	7.72	7.73	8	8.00
	17:57		Middle	4.0	20.20	20.20	20.10	8.17	8.17	8.17	31.27	31.27	31.27	89.8	89.0	89.6	6.77	6.71	6.76	7.74	7.73	7.73	8	
19/03/2018	08:40	Cloudy	Middle	4.0	19.80	19.80	19.85	8.19	8.19	8.19	31.40	31.40	31.40	89.1	88.4	88.6	6.75	6.69	6.68	7.43	7.40	7.48	8	7.00
	08:42		Middle	4.0	19.90	19.90	19.85	8.19	8.19	8.19	31.40	31.40	31.40	88.4	88.5	88.6	6.69	6.60	6.68	7.53	7.54	7.48	6	
21/03/2018	11:10	Fine	Middle	4.0	19.40	19.40	19.45	8.19	8.19	8.19	31.57	31.57	31.58	87.9	87.9	87.5	6.70	6.70	6.67	7.63	7.64	7.66	5	5.00
	11:12		Middle	4.0	19.50	19.50	19.45	8.19	8.19	8.19	31.58	31.58	31.58	86.9	87.3	87.5	6.62	6.65	6.67	7.70	7.68	7.66	5	
23/03/2018	11:40	Fine	Middle	4.0	20.30	20.30	20.30	8.15	8.15	8.16	31.64	31.64	31.64	89.6	89.4	89.5	6.72	6.71	6.71	7.04	7.03	6.99	9	9.00
	11:42		Middle	4.0	20.30	20.30	20.30	8.17	8.17	8.16	31.64	31.64	31.64	89.0	89.9	89.5	6.67	6.73	6.71	6.91	6.99	6.99	9	
26/03/2018	10:55	Fine	Middle	4.0	21.00	21.00	21.10	8.16	8.16	8.17	31.86	31.86	31.87	89.6	89.6	89.5	6.61	6.61	6.60	11.80	11.76	11.80	20	<u>20.00</u>
	10:57		Middle	4.0	21.20	21.20	21.10	8.17	8.17	8.17	31.87	31.87	31.87	89.4	89.4	89.5	6.59	6.59	6.60	11.81	11.83	11.80	20	
28/03/2018	14:15	Fine	Middle	4.0	21.90	21.90	21.95	8.15	8.15	8.15	31.68	31.68	31.67	85.7	86.1	85.9	6.24	6.26	6.25	6.70	6.69	6.72	7	6.50
	14:17		Middle	4.0	22.00	22.00	21.95	8.14	8.14	8.15	31.66	31.66	31.67	85.9	85.9	85.9	6.24	6.24	6.25	6.72	6.75	6.72	6	
30/03/2018	17:47	Fine	Middle	3.0	22.00	22.00	22.00	8.06	8.06	8.06	32.14	32.14	32.14	76.4	77.1	76.5	5.26	5.31	5.27	2.78	2.69	2.68	7	8.00
	17:48		Middle	3.0	22.00	22.00	22.00	8.06	8.06	8.06	32.14	32.14	32.14	75.9	76.5	76.5	5.22	5.27	5.27	2.57	2.66	2.68	9	

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					
02/03/2018	18:55	Cloudy	Middle	2.5	18.90	18.90	18.90	87.98	87.98	47.98	28.19	28.19	28.19	75.3	76.0	75.1	5.91	5.96	5.89	15.22	15.03	15.03	6	6.00
	18:56		Middle	2.5	18.90	18.90		7.97	7.97		28.19	28.19		74.5	74.5		5.84	5.84		14.97	14.89		6	
05/03/2018	10:10	Fine	Middle	3.5	21.50	21.50	21.55	8.14	8.14	8.14	31.05	31.05	31.05	87.3	87.8	87.7	6.43	6.47	6.45	3.57	3.61	3.60	3	3.00
	10:12		Middle	3.5	21.60	21.60		8.14	8.14		31.05	31.05		87.7	87.8		6.45	6.46		3.62	3.61		3	
07/03/2018	09:20	Fine	Middle	3.5	18.40	18.40	18.45	8.11	8.11	8.10	29.65	29.65	29.65	81.8	81.8	81.9	6.42	6.43	6.43	5.52	5.52	5.56	7	7.00
	09:22		Middle	3.5	18.50	18.50		8.09	8.09		29.65	29.65		82.1	82.0		6.44	6.44		5.57	5.63		7	
09/03/2018	11:48	Fine	Middle	3.5	17.50	17.50	17.50	8.19	8.19	8.19	30.42	30.42	30.42	88.0	87.8	87.8	7.02	7.00	7.00	5.01	5.01	5.01	3	2.50
	11:50		Middle	3.5	17.50	17.50		8.19	8.19		30.41	30.41		87.7	87.5		6.99	6.97		5.01	5.02		2	
12/03/2018	13:50	Fine	Middle	3.5	19.80	19.80	19.95	8.23	8.23	8.23	31.62	31.62	31.62	92.6	92.7	92.3	6.99	6.99	6.96	5.50	5.55	5.53	2	3.00
	13:52		Middle	3.5	20.10	20.10		8.23	8.23		31.62	31.62		91.8	92.1		6.91	6.93		5.52	5.53		4	
14/03/2018	15:05	Cloudy	Middle	3.0	18.90	18.90	18.95	8.04	8.04	8.06	31.29	31.29	31.29	75.9	75.9	75.9	5.85	5.84	5.84	10.95	10.93	10.85	9	10.00
	15:07		Middle	3.0	19.00	19.00		8.07	8.07		31.29	31.29		75.7	75.9		5.83	5.84		10.77	10.75		11	
16/03/2018	17:50	Fine	Middle	3.5	20.40	20.40	20.55	8.14	8.14	8.15	31.23	31.23	31.22	87.7	88.0	87.9	6.56	6.58	6.57	6.47	6.48	6.49	9	9.50
	17:52		Middle	3.5	20.70	20.70		8.15	8.15		31.21	31.21		88.0	87.7		6.58	6.54		6.49	6.51		10	
19/03/2018	08:35	Cloudy	Middle	3.5	20.20	20.20	20.30	8.17	8.17	8.18	31.45	31.45	31.45	86.7	86.3	86.4	6.51	6.48	6.49	7.21	7.21	7.20	8	7.00
	08:37		Middle	3.5	20.40	20.40		8.18	8.18		31.44	31.44		86.1	86.5		6.46	6.49		7.20	7.17		6	
21/03/2018	11:05	Fine	Middle	3.5	19.70	19.70	19.80	8.15	8.15	8.16	30.93	30.93	30.93	80.5	80.0	80.6	6.11	6.08	6.12	7.84	7.89	7.87	6	5.00
	11:07		Middle	3.5	19.90	19.90		8.16	8.16		30.93	30.93		81.4	80.5		6.18	6.11		7.88	7.88		4	
23/03/2018	11:35	Fine	Middle	4.0	20.60	20.60	20.65	8.10	8.10	8.10	29.98	29.98	29.98	80.2	80.2	79.9	6.04	6.04	6.01	8.25	8.22	8.23	8	8.00
	11:37		Middle	4.0	20.70	20.70		8.09	8.09		29.98	29.98		80.0	79.1		6.01	5.95		8.21	8.23		8	
26/03/2018	10:50	Fine	Middle	3.5	21.60	21.60	21.65	8.13	8.13	8.13	30.69	30.69	30.69	80.0	80.4	80.2	5.89	5.92	5.90	8.47	8.44	8.50	5	5.50
	10:52		Middle	3.5	21.70	21.70		8.12	8.12		30.69	30.69		80.0	80.3		5.88	5.90		8.54	8.55		6	
28/03/2018	14:10	Fine	Middle	3.5	22.40	22.40	22.55	8.19	8.19	8.17	31.38	31.38	31.38	82.4	82.4	82.2	5.94	5.94	5.92	6.10	6.12	6.13	6	5.00
	14:12		Middle	3.5	22.70	22.70		8.15	8.15		31.37	31.37		81.9	81.9		5.90	5.90		6.13	6.15		4	
30/03/2018	17:53	Fine	Middle	3.0	22.10	22.10	22.10	7.50	7.50	7.50	30.39	30.39	30.45	37.0	38.1	38.0	2.57	2.68	2.62	3.98	4.29	4.12	8	6.50
	17:54		Middle	3.0	22.10	22.10		7.50	7.50		30.51	30.51		38.3	38.4		2.66	2.57		3.95	4.25		5	

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		
02/03/2018	12:35	Fine	Middle	3.5	18.90	18.90	19.00	8.11	8.11	8.12	31.71	31.71	31.71	87.0	87.3	87.2	6.69	6.71	6.70	4.13	4.14	4.14	5	4.50
	12:37		Middle	3.5	19.10	19.10		8.12	8.12		31.70	31.70		87.2	87.1		6.70	6.69		4.13	4.16		4	
05/03/2018	13:55	Fine	Middle	4.0	21.80	21.80	21.90	8.11	8.11	8.11	31.21	31.21	31.21	87.5	88.0	87.9	6.39	6.42	6.41	2.63	2.64	2.62	5	5.50
	13:57		Middle	4.0	22.00	22.00		8.11	8.11		31.21	31.21		88.3	87.9		6.43	6.40		2.64	2.58		6	
07/03/2018	14:40	Fine	Middle	4.0	18.70	18.70	18.75	8.21	8.21	8.21	31.63	31.63	31.64	91.7	91.4	91.2	7.08	7.06	7.05	3.67	3.69	3.66	8	8.50
	14:42		Middle	4.0	18.80	18.80		8.21	8.21		31.64	31.64		90.9	90.9		7.02	7.02		3.62	3.67		9	
09/03/2018	16:57	Fine	Middle	3.0	18.30	18.30	18.35	8.17	8.17	8.19	31.57	31.57	31.56	84.6	84.3	83.9	6.59	6.17	6.44	0.57	0.56	0.52	5	4.00
	16:59		Middle	3.0	18.40	18.40		8.21	8.21		31.55	31.55		83.6	83.2		6.52	6.46		0.48	0.47		3	
12/03/2018	17:50	Cloudy	Middle	3.5	18.70	18.70	18.70	8.15	8.15	8.15	31.67	31.67	31.67	82.7	83.6	82.8	6.40	6.46	6.41	1.74	2.00	1.72	3	2.50
	17:51		Middle	3.5	18.70	18.70		8.15	8.15		31.67	31.67		82.2	82.8		6.36	6.40		1.50	1.62		2	
14/03/2018	23:12	Cloudy	Middle	3.0	18.80	18.80	18.80	8.10	8.10	8.10	32.08	32.08	32.08	83.6	83.7	83.1	6.44	6.45	6.39	1.27	1.33	1.30	8	9.00
	23:13		Middle	3.0	18.80	18.80		8.10	8.10		32.08	32.08		83.5	81.4		6.42	6.26		1.28	1.30		10	
16/03/2018	11:25	Fine	Middle	4.0	20.30	20.30	20.35	7.97	7.97	7.99	31.46	31.46	31.46	89.9	90.4	90.2	6.74	7.80	7.01	4.63	4.63	4.63	4	4.50
	11:27		Middle	4.0	20.40	20.40		8.00	8.00		31.46	31.46		89.9	90.5		6.73	6.77		4.63	4.63		5	
19/03/2018	12:05	Fine	Middle	4.0	20.80	20.80	20.85	8.16	8.16	8.17	31.43	31.43	31.43	89.5	89.6	89.5	6.65	6.66	6.65	5.68	5.66	5.68	2	2.00
	12:07		Middle	4.0	20.90	20.90		8.17	8.17		31.43	31.43		89.6	89.3		6.65	6.63		5.67	5.69		2	
21/03/2018	13:10	Fine	Middle	4.0	21.10	21.10	21.15	8.17	8.17	8.17	31.61	31.61	31.61	89.9	89.2	89.7	6.65	6.58	6.62	7.99	7.91	7.94	<2	<2
	13:12		Middle	4.0	21.20	21.20		8.16	8.16		31.61	31.61		90.4	89.2		6.67	6.58		7.93	7.94			
23/03/2018	15:55	Fine	Middle	4.0	20.90	20.90	20.95	8.18	8.18	8.18	31.76	31.76	31.76	89.1	89.2	88.8	6.60	6.62	6.58	4.82	4.84	4.86	7	6.50
	15:57		Middle	4.0	21.00	21.00		8.18	8.18		31.76	31.76		88.3	88.5		6.54	6.55		4.89	4.88		6	
26/03/2018	18:05	Cloudy	Middle	3.5	20.80	20.80	20.85	8.12	8.12	8.12	32.47	32.47	32.47	81.1	82.7	83.0	5.98	6.11	6.13	3.68	3.28	3.54	7	7.00
	18:06		Middle	3.5	20.90	20.90		8.12	8.12		32.47	32.47		84.0	84.1		6.20	6.21		3.47	3.73		7	
28/03/2018	23:15	Cloudy	Middle	3.0	21.10	21.10	21.10	8.07	8.07	8.07	32.06	32.06	32.06	82.1	81.9	82.6	6.05	6.03	6.08	1.09	1.13	1.10	4	5.50
	23:16		Middle	3.0	21.10	21.10		8.07	8.07		32.06	32.06		83.4	83.0		6.14	6.11		1.16	1.03		7	
30/03/2018	11:40	Fine	Middle	3.5	22.00	22.00	22.00	8.05	8.05	8.05	32.14	32.14	32.14	71.8	73.1	73.0	4.94	5.03	5.02	1.27	1.36	1.40	5	5.50
	11:41		Middle	3.5	22.00	22.00		8.05	8.05		32.14	32.14		73.0	74.0		5.03	5.07		1.43	1.52		6	

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



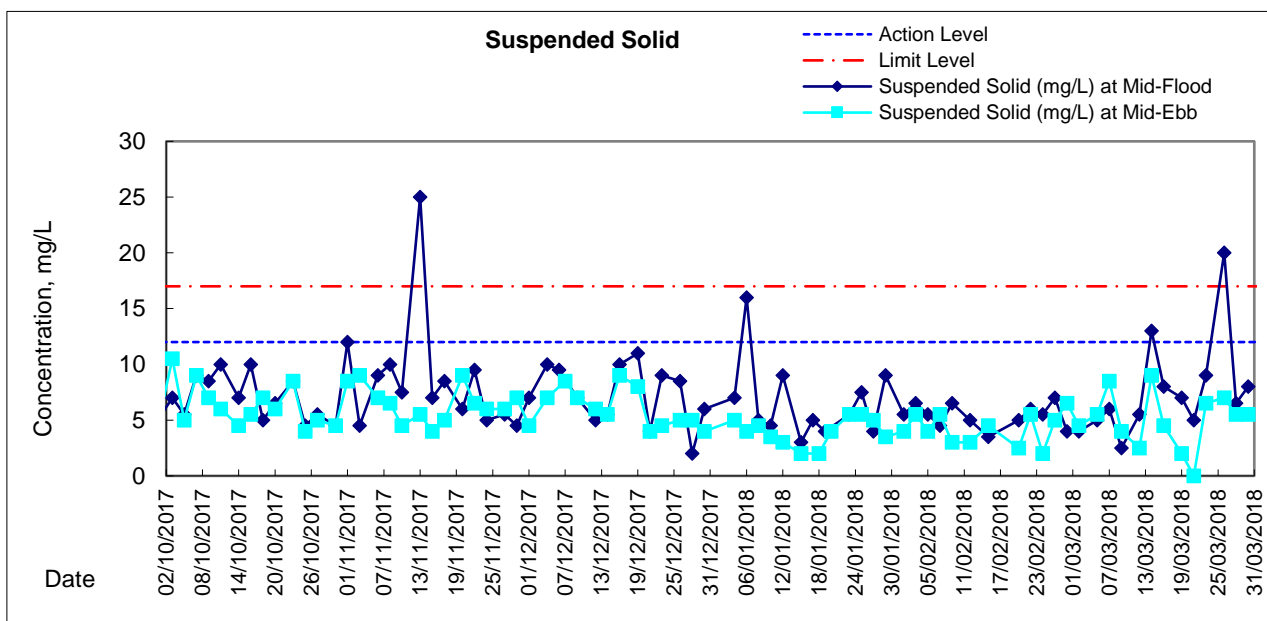
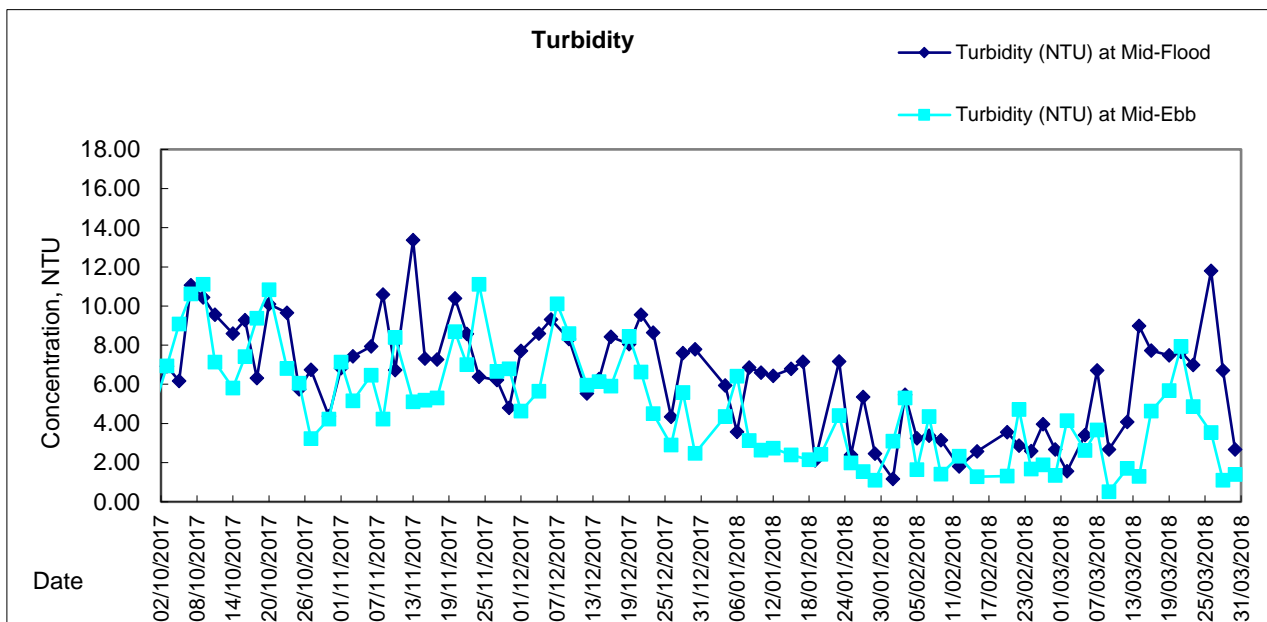
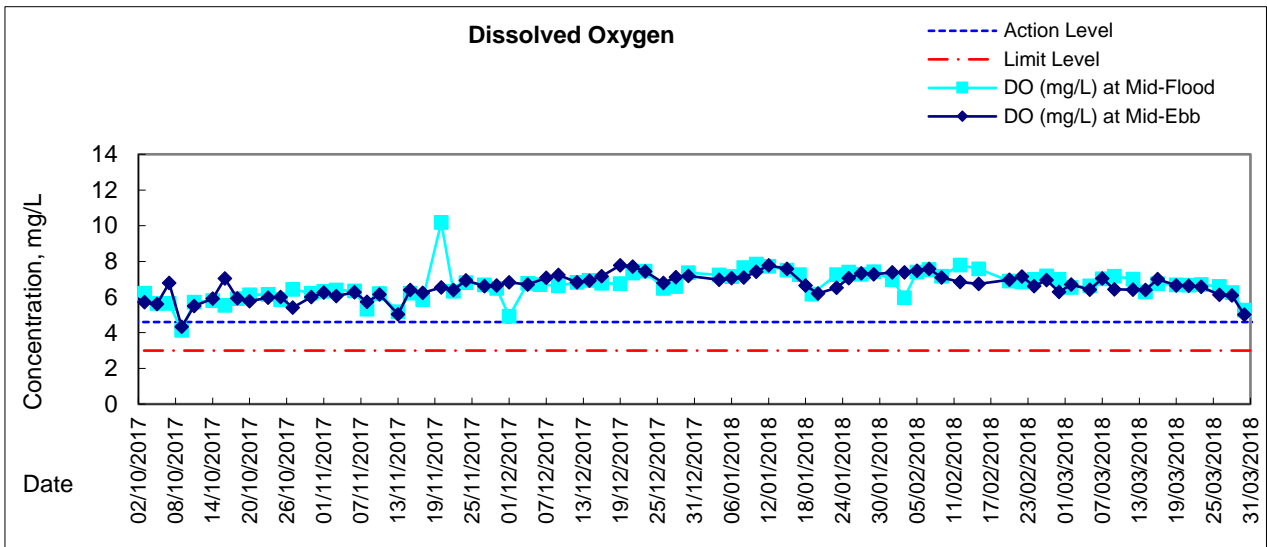
**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
02/03/2018	12:30	Fine	Middle	3	19.40	19.40	19.65	8.04	8.04	8.07	31.49	31.49	31.48	90.1	89.6	89.4	6.83	6.79	6.78	3.10	3.09	3.09	4	3.50
	12:32		Middle	3	19.90	19.90		8.09	8.09		31.47	31.47		89.3	88.7		6.77	6.72		3.09	3.09		3	
05/03/2018	13:50	Fine	Middle	4	22.40	22.40	22.55	8.07	8.07	8.07	30.29	30.29	30.29	82.9	82.8	82.9	6.02	6.01	6.01	4.33	4.36	4.36	5	5.00
	13:52		Middle	4	22.70	22.70		8.07	8.07		30.29	30.29		82.7	83.0		6.00	6.02		4.37	4.36		5	
07/03/2018	14:35	Fine	Middle	4	18.80	18.80	18.90	8.18	8.18	8.18	31.09	31.09	31.09	89.5	89.5	89.6	6.91	6.90	6.91	3.69	3.59	3.61	5	4.50
	14:37		Middle	4	19.00	19.00		8.18	8.18		31.08	31.08		89.8	89.4		6.92	6.89		3.57	3.59		4	
09/03/2018	16:53	Fine	Middle	3	18.10	18.10	18.50	8.14	8.14	8.14	29.03	29.03	29.27	81.1	78.4	79.1	6.33	6.20	6.19	5.26	5.26	5.21	4	5.00
	16:55		Middle	3	18.90	18.90		8.14	8.14		29.51	29.51		78.1	78.8		6.09	6.15		5.23	5.07		6	
12/03/2018	17:57	Cloudy	Middle	3	18.60	18.60	18.60	8.01	8.01	8.01	28.56	28.56	28.57	69.5	69.0	70.1	5.48	5.44	5.52	10.12	10.30	10.15	6	6.00
	17:58		Middle	3	18.60	18.60		8.01	8.01		28.57	28.57		71.1	70.6		5.60	5.56		10.10	10.08		6	
14/03/2018	23:20	Cloudy	Middle	3	19.00	19.00	19.00	7.91	7.91	7.90	27.30	27.30	27.30	73.6	73.8	73.5	5.80	5.82	5.80	10.46	10.37	10.40	10	26.00
	23:21		Middle	3	19.00	19.00		7.90	7.89		27.30	27.30		73.6	73.1		5.81	5.76		10.57	10.21		42	
16/03/2018	11:20	Fine	Middle	4	21.20	21.20	21.25	7.84	7.84	7.87	30.49	30.49	30.49	78.7	78.8	78.2	5.84	5.84	5.80	5.23	5.23	5.29	6	6.00
	11:22		Middle	4	21.30	21.30		7.89	7.89		30.49	30.49		77.4	77.7		5.74	5.76		5.34	5.37		6	
19/03/2018	12:00	Fine	Middle	4	21.20	21.20	21.25	8.14	8.14	8.14	31.02	31.02	31.02	85.9	86.2	85.8	6.36	6.37	6.34	5.98	5.90	5.91	2	2.50
	12:02		Middle	4	21.30	21.30		8.14	8.14		31.02	31.02		85.5	85.5		6.31	6.31		5.89	5.88		3	
21/03/2018	13:05	Fine	Middle	4	22.10	22.10	22.20	8.16	8.16	8.16	31.09	31.09	31.10	86.6	86.4	86.7	6.29	6.28	6.29	8.19	8.18	8.18	3	3.00
	13:07		Middle	4	22.30	22.30		8.15	8.15		31.10	31.10		86.8	86.8		6.30	6.30		8.18	8.17		3	
23/03/2018	15:50	Fine	Middle	4	21.50	21.50	21.55	8.16	8.16	8.16	31.27	31.27	31.27	83.5	83.6	83.1	6.13	6.14	6.10	5.64	5.64	5.64	7	7.00
	15:52		Middle	4	21.60	21.60		8.16	8.16		31.27	31.27		81.8	83.3		6.00	6.11		5.62	5.64		7	
26/03/2018	18:15	Cloudy	Middle	3	20.90	20.90	20.90	8.00	8.00	8.00	29.54	29.54	29.54	70.3	72.8	72.0	5.28	5.46	5.41	8.54	8.28	8.29	10	9.50
	18:16		Middle	3	20.90	20.90		8.00	8.00		29.53	29.53		72.4	72.6		5.43	5.45		8.23	8.11		9	
28/03/2018	23:30	Cloudy	Middle	3	21.10	21.10	21.10	74.95	7.95	24.70	29.82	29.85	29.82	58.3	59.6	59.2	4.35	4.45	4.42	6.44	6.40	6.42	6	6.50
	23:31		Middle	3	21.10	21.10		7.95	7.95		29.81	29.81		59.4	59.6		4.44	4.45		6.38	6.47		7	
30/03/2018	11:47	Fine	Middle	3	21.80	21.80	21.80	7.57	7.57	7.57	30.58	30.58	30.59	27.0	28.8	28.6	1.88	2.01	2.00	3.11	3.08	3.11	7	7.00
	11:48		Middle	3	21.80	21.80		7.57	7.57		30.59	30.59		29.5	29.1		2.06	2.03		3.06	3.17		7	

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

