



**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	Value	Average		
01/11/2018	-	Typhoon Signal No. 3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
03/11/2018	14:05	Cloudy	Middle	3.5	24.50	24.50	24.50	7.94	7.94	7.95	33.22	33.22	33.22	80.8	82.2	81.3	5.51	5.67	5.59	5.09	5.09	5.10	7	6.50
	14:07		Middle	3.5	24.50	24.50	24.50	7.96	7.96	7.95	33.22	33.22	33.22	81.0	81.0	81.3	5.58	5.58	5.59	5.11	5.12	5.10	6	6.50
05/11/2018	15:05	Fine	Middle	4.0	25.50	25.50	25.55	7.89	7.89	7.90	33.35	33.35	33.35	83.4	83.4	82.8	5.64	5.64	5.61	5.84	5.81	5.82	14	<u>14.00</u>
	15:07		Middle	4.0	25.60	25.60	25.55	7.90	7.90	7.90	33.34	33.34	33.35	82.0	82.5	82.8	5.55	5.60	5.61	5.83	5.79	5.82	14	<u>14.00</u>
07/11/2018	16:15	Fine	Middle	4.0	25.10	25.10	25.15	7.84	7.84	7.85	33.27	33.27	33.27	82.4	81.3	81.7	5.62	5.54	5.57	7.93	7.99	7.97	11	10.50
	16:17		Middle	4.0	25.20	25.20	25.15	7.85	7.85	7.85	33.26	33.27	33.27	81.6	81.5	81.7	5.56	5.55	5.57	7.98	7.97	7.97	10	10.50
09/11/2018	20:21	Cloudy	Middle	3.0	25.00	25.00	25.00	8.22	8.22	8.22	32.68	32.68	32.68	74.9	78.0	76.9	5.15	5.36	5.28	6.41	6.82	6.45	6	6.00
	20:22		Middle	3.0	25.00	25.00	25.00	8.22	8.22	8.22	32.68	32.68	32.68	76.8	77.7	76.9	5.27	5.34	5.28	6.28	6.27	6.45	6	6.00
12/11/2018	11:45	Cloudy	Middle	4.0	25.00	25.00	25.05	7.80	7.80	7.80	33.01	33.01	33.01	80.3	80.8	80.6	5.49	5.53	5.51	6.52	6.49	6.49	9	8.50
	11:47		Middle	4.0	25.10	25.10	25.05	7.80	7.80	7.80	33.01	33.01	33.01	80.6	80.5	80.6	5.51	5.50	5.51	6.47	6.47	6.49	8	8.50
14/11/2018	16:50	Cloudy	Middle	4.0	24.10	24.10	24.15	7.74	7.74	7.75	32.83	32.83	32.83	80.8	80.6	81.3	5.62	5.60	5.65	3.77	3.69	3.71	10	10.00
	16:52		Middle	4.0	24.20	24.20	24.15	7.76	7.76	7.75	32.83	32.83	32.83	81.7	82.0	81.3	5.69	5.70	5.65	3.62	3.76	3.71	10	10.00
16/11/2018	13:35	Cloudy	Middle	4.0	24.40	24.40	24.45	7.63	7.60	7.63	33.13	33.13	33.13	78.7	79.0	79.0	5.49	5.46	5.47	3.37	3.37	3.38	5	5.50
	13:37		Middle	4.0	24.50	24.50	24.45	7.65	7.65	7.63	33.13	33.13	33.13	78.9	79.2	79.0	5.45	5.47	5.47	3.38	3.38	3.38	6	5.50
19/11/2018	12:55	Fine	Middle	4.0	24.70	24.70	24.70	7.74	7.74	7.74	33.18	33.18	33.18	77.1	77.8	78.0	5.30	5.36	5.37	5.43	5.56	5.41	5	5.00
	12:57		Middle	4.0	24.70	24.70	24.70	7.74	7.74	7.74	33.18	33.18	33.18	78.5	78.6	78.0	5.40	5.41	5.37	5.22	5.44	5.41	5	5.00
21/11/2018	16:55	Fine	Middle	4.0	24.60	24.60	24.65	7.74	7.74	7.75	33.30	33.30	33.30	72.9	73.4	73.5	5.01	5.05	5.06	3.37	4.91	4.56	6	6.50
	16:57		Middle	4.0	24.70	24.70	24.65	7.76	7.76	7.75	33.29	33.29	33.30	74.2	73.5	73.5	5.10	5.07	5.06	5.10	4.87	4.56	7	6.50
23/11/2018	18:25	Fine	Middle	4.0	23.10	23.10	23.10	7.66	7.66	7.66	33.32	33.32	33.32	76.8	76.4	77.7	5.42	5.54	5.55	4.52	4.47	4.47	4	4.00
	18:27		Middle	4.0	23.10	23.10	23.10	7.66	7.66	7.66	33.32	33.32	33.32	78.7	78.8	77.7	5.56	5.67	5.55	4.46	4.44	4.47	4	4.00
26/11/2018	07:55	Cloudy	Middle	4.0	22.10	22.10	22.05	7.48	7.48	7.48	32.69	32.69	32.70	71.5	71.7	71.6	5.17	5.19	5.18	4.32	4.32	4.33	6	6.50
	07:57		Middle	4.0	22.00	22.00	22.05	7.48	7.48	7.48	32.70	32.70	32.70	71.8	71.4	71.6	5.20	5.17	5.18	4.33	4.35	4.33	7	6.50
28/11/2018	13:55	Cloudy	Middle	4.0	22.80	22.80	22.80	7.53	7.53	7.53	32.95	32.95	32.95	78.8	79.0	78.5	5.61	5.62	5.59	5.82	5.78	5.77	6	6.00
	13:57		Middle	4.0	22.80	22.80	22.80	7.53	7.53	7.53	32.95	32.95	32.95	78.2	77.8	78.5	5.57	5.54	5.59	5.74	5.73	5.77	6	6.00
30/11/2018	13:20	Fine	Middle	4.0	23.40	23.40	23.45	7.23	7.23	7.24	32.93	32.93	32.93	72.3	72.4	72.7	5.09	5.09	5.11	6.21	6.21	6.22	8	8.00
	13:22		Middle	4.0	23.50	23.50	23.45	7.25	7.25	7.24	32.93	32.93	32.93	73.0	73.0	72.7	5.13	5.13	5.11	6.23	6.24	6.22	8	8.00

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						
					Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
01/11/2018	-	Typhoon Signal No. 3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
03/11/2018	14:10	Cloudy	Middle	3.5	24.40	24.40	24.40	7.98	7.98	7.99	33.21	33.21	33.21	81.4	80.4	81.3	5.60	5.55	5.63	5.22	5.24	5.24	11	10.50
	14:12		Middle	3.5	24.40	24.40	24.40	7.99	7.99	7.99	33.21	33.21	33.21	81.0	82.2	81.3	5.67	5.68	5.63	5.24	5.25	5.24	10	10.50
05/11/2018	15:10	Fine	Middle	4.0	25.30	25.30	25.35	7.94	7.94	7.95	33.15	33.15	33.15	78.7	79.3	79.1	5.35	5.38	5.38	5.70	5.71	5.71	16	15.50
	15:12		Middle	4.0	25.40	25.40	25.35	7.95	7.95	7.95	33.15	33.15	33.15	79.2	79.2	79.1	5.39	5.39	5.38	5.71	5.71	5.71	15	15.50
07/11/2018	16:10	Fine	Middle	4.0	25.20	25.20	25.25	7.79	7.79	7.80	33.01	33.01	33.01	77.2	77.2	77.4	5.26	5.26	5.27	9.28	9.18	9.22	14	14.50
	16:10		Middle	4.0	25.30	25.30	25.25	7.81	7.81	7.80	33.01	33.01	33.01	77.4	77.6	77.4	5.28	5.29	5.27	9.19	9.24	9.22	15	14.50
09/11/2018	20:28	Cloudy	Middle	2.5	24.90	24.90	24.90	8.23	8.23	8.23	31.43	31.43	31.43	68.8	71.3	71.4	4.76	4.94	4.94	12.31	11.82	12.07	9	9.00
	20:29		Middle	2.5	24.90	24.90	24.90	8.23	8.23	8.23	31.43	31.43	31.43	72.8	72.5	71.4	5.04	5.02	4.94	12.21	11.92	12.07	9	9.00
12/11/2018	11:40	Cloudy	Middle	3.5	25.20	25.20	25.25	7.77	7.77	7.78	32.61	32.61	32.62	75.7	75.5	75.1	5.16	5.16	5.13	6.90	6.90	6.87	9	9.00
	11:42		Middle	3.5	25.30	25.30	25.25	7.78	7.78	7.78	32.62	32.62	32.62	74.6	74.6	75.1	5.09	5.10	5.13	6.86	6.82	6.87	9	9.00
14/11/2018	16:45	Cloudy	Middle	4.0	24.40	24.40	24.40	7.73	7.73	7.72	28.59	28.59	28.59	64.3	64.4	64.7	4.56	4.57	4.59	9.51	9.48	9.48	13	13.00
	16:47		Middle	4.0	24.40	24.40	24.40	7.71	7.71	7.72	28.59	28.59	28.59	65.2	65.0	64.7	4.61	4.61	4.59	9.46	9.45	9.48	13	13.00
16/11/2018	13:30	Cloudy	Middle	3.5	24.60	24.60	24.65	7.56	7.56	7.58	31.74	31.74	31.75	69.8	70.3	69.6	4.84	4.88	4.83	7.72	7.74	7.75	8	7.50
	13:32		Middle	3.5	24.70	24.70	24.65	7.59	7.59	7.58	31.75	31.75	31.75	69.1	69.3	69.6	4.79	4.81	4.83	7.76	7.76	7.75	7	7.50
19/11/2018	12:50	Fine	Middle	3.5	25.00	25.00	25.00	7.72	7.72	7.73	33.24	33.24	33.25	71.7	71.8	71.8	4.91	4.91	4.91	3.85	3.57	3.40	4	4.00
	12:52		Middle	3.5	25.00	25.00	25.00	7.73	7.73	7.73	33.25	33.25	33.25	71.9	71.8	71.8	4.92	4.91	4.91	3.19	2.98	3.40	4	4.00
21/11/2018	16:50	Fine	Middle	3.5	24.90	24.90	24.95	7.69	7.69	7.70	33.26	33.26	33.27	69.8	69.9	70.4	4.79	4.80	4.83	5.13	4.67	4.77	6	6.00
	16:52		Middle	3.5	25.00	25.00	24.95	7.70	7.70	7.70	33.27	33.27	33.27	70.8	70.9	70.4	4.85	4.86	4.83	4.73	4.53	4.77	6	6.00
23/11/2018	18:20	Fine	Middle	3.5	23.40	23.40	23.40	7.63	7.63	7.64	33.37	33.37	33.38	74.5	74.5	74.5	5.23	5.23	5.24	4.75	4.80	4.75	4	4.00
	18:22		Middle	3.5	23.40	23.40	23.40	7.64	7.64	7.64	33.38	33.38	33.38	74.4	74.6	74.5	5.23	5.25	5.24	4.70	4.76	4.75	4	4.00
26/11/2018	07:50	Cloudy	Middle	3.5	21.80	21.80	21.75	7.46	7.46	7.47	32.57	32.57	32.57	65.7	66.4	66.1	4.78	4.84	4.81	4.49	4.45	4.44	5	4.50
	07:52		Middle	3.5	21.70	21.70	21.75	7.47	7.47	7.47	32.57	32.57	32.57	66.1	66.0	66.1	4.82	4.81	4.81	4.42	4.39	4.44	4	4.50
28/11/2018	13:50	Cloudy	Middle	3.5	22.80	22.80	22.80	7.52	7.52	7.53	32.93	32.93	32.93	73.8	74.0	74.1	5.26	5.27	5.28	7.31	7.26	7.28	7	7.00
	13:52		Middle	3.5	22.80	22.80	22.80	7.53	7.53	7.53	32.93	32.93	32.93	74.3	74.1	74.1	5.29	5.28	5.28	7.27	7.29	7.28	7	7.00
30/11/2018	13:15	Fine	Middle	3.5	23.70	23.70	23.75	7.15	7.15	7.17	32.55	32.55	32.55	66.9	67.6	67.8	4.69	4.74	4.75	7.17	7.14	7.14	8	7.50
	13:17		Middle	3.5	23.80	23.80	23.75	7.18	7.18	7.17	32.55	32.55	32.55	68.2	68.3	67.8	4.78	4.78	4.75	7.13	7.13	7.14	7	7.50

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				
01/11/2018	03:30	Cloudy	Middle	3.5	23.60	23.60	23.60	8.41	8.41	8.41	29.47	29.47	29.47	71.5	72.1	71.5	5.13	5.17	5.13	11.72	12.61	11.80	4	4.50
	03:31		Middle	3.5	23.60	23.60		8.41	8.40		8.41	29.47		29.47	71.7		70.5	71.5		5.14	5.06		5.13	
03/11/2018	08:00	Cloudy	Middle	3.5	23.80	23.80	23.80	8.02	8.02	8.04	33.35	33.35	33.35	85.2	85.5	85.3	5.95	5.97	5.96	6.48	6.47	6.47	9	9.50
	08:02		Middle	3.5	23.80	23.80		8.05	8.05		8.04	33.35		33.35	85.2		85.1	85.3		5.96	5.95		5.96	
05/11/2018	12:05	Fine	Middle	3.5	25.20	25.20	25.20	7.92	7.92	7.93	33.23	33.23	33.23	86.6	87.1	86.3	5.91	5.94	5.88	8.94	8.99	8.98	19	<u>19.50</u>
	12:07		Middle	3.5	25.20	25.20		7.94	7.94		7.93	33.23		33.23	85.9		85.6	86.3		5.85	5.83		5.88	
07/11/2018	14:00	Fine	Middle	3.5	25.20	25.20	25.30	7.74	7.74	7.74	33.28	33.28	33.28	78.1	78.9	79.0	5.31	5.38	5.37	6.32	6.37	6.35	13	<u>12.50</u>
	14:02		Middle	3.5	25.40	25.40		7.73	7.73		7.74	33.27		33.27	79.6		79.5	79.0		5.40	5.40		5.37	
09/11/2018	12:25	Fine	Middle	4.0	25.00	25.00	25.05	7.84	7.84	7.85	33.12	33.12	33.12	77.5	78.4	78.5	5.30	5.36	5.36	4.10	4.09	4.08	7	7.00
	12:27		Middle	4.0	25.10	25.10		7.85	7.85		7.85	33.12		33.12	78.9		79.0	78.5		5.39	5.40		5.36	
12/11/2018	02:37	Cloudy	Middle	3.5	23.50	23.50	23.50	8.12	8.12	8.12	31.83	31.83	31.83	74.7	72.9	73.6	5.28	5.16	5.20	3.59	3.52	3.42	5	5.50
	02:38		Middle	3.5	23.50	23.50		8.12	8.12		8.12	31.83		31.83	72.5		74.1	73.6		5.12	5.24		5.20	
14/11/2018	03:18	Cloudy	Middle	3.5	23.40	23.40	23.40	8.23	8.23	8.23	32.64	32.64	32.64	76.0	77.7	77.0	5.36	5.48	5.43	2.37	2.07	2.20	7	7.50
	03:19		Middle	3.5	23.40	23.40		8.23	8.23		8.23	32.64		32.64	78.0		76.2	77.0		5.50	5.38		5.43	
16/11/2018	05:02	Cloudy	Middle	3.5	23.70	23.70	23.70	8.16	8.16	8.16	32.93	32.93	32.93	77.2	77.9	77.8	5.41	5.47	5.46	4.86	4.49	4.58	3	3.00
	05:03		Middle	3.5	23.70	23.70		8.16	8.16		8.16	32.93		32.93	78.0		78.0	77.8		5.47	5.47		5.46	
19/11/2018	09:25	Fine	Middle	4.0	24.20	24.20	24.20	7.68	7.68	7.69	33.24	33.24	33.25	73.5	73.8	73.8	5.10	5.12	5.12	3.69	3.56	3.57	4	4.50
	09:27		Middle	4.0	24.20	24.20		7.70	7.70		7.69	33.25		33.25	73.9		73.9	73.8		5.12	5.13		5.12	
21/11/2018	12:10	Fine	Middle	3.5	24.60	24.60	24.65	7.72	7.72	7.73	33.32	33.32	33.32	80.0	80.9	80.8	5.50	5.57	5.56	4.29	4.05	3.96	7	6.50
	12:12		Middle	3.5	24.70	24.70		7.74	7.74		7.73	33.32		33.32	81.1		81.0	80.8		5.58	5.57		5.56	
23/11/2018	14:13	Fine	Middle	3.5	24.00	24.00	24.05	7.57	7.57	7.58	33.17	33.17	33.16	64.7	63.0	62.5	4.50	4.38	<u>4.35</u>	7.01	6.93	6.73	6	6.00
	14:15		Middle	3.5	24.10	24.10		7.59	7.59		7.58	33.14		33.14	61.8		60.6	62.5		4.29	4.22		<u>4.35</u>	
26/11/2018	03:43	Cloudy	Middle	3.5	20.90	20.90	20.90	8.21	8.21	8.21	31.70	31.70	31.70	73.5	73.7	73.3	5.47	5.48	5.45	2.06	1.75	1.93	4	4.50
	03:44		Middle	3.5	20.90	20.90		8.21	8.21		8.21	31.70		31.70	73.1		72.8	73.3		5.44	5.42		5.45	
28/11/2018	03:20	Cloudy	Middle	3.5	21.20	21.20	21.20	8.24	8.24	8.24	31.33	31.33	31.33	74.0	75.7	75.0	5.47	5.59	5.54	1.21	1.30	1.26	3	6.00
	03:21		Middle	3.5	21.20	21.20		8.24	8.24		8.24	31.33		31.33	75.1		75.0	75.0		5.55	5.54		5.54	
30/11/2018	03:25	Cloudy	Middle	3.5	20.80	20.80	20.80	8.16	8.16	8.16	32.53	32.53	32.53	77.7	78.2	77.5	5.75	5.78	5.73	1.44	1.52	1.47	3	3.00
	03:26		Middle	3.5	20.80	20.80		8.16	8.16		8.16	32.53		32.53	75.4		78.6	77.5		5.57	5.81		5.73	

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				
01/11/2018	03:38	Cloudy	Middle	3	24.10	24.10	24.10	8.37	8.37	8.37	29.63	29.63	29.63	65.5	66.2	65.7	4.65	4.71	4.67	7.10	6.83	6.77	4	4.00
	03:39		Middle	3	24.10	24.10		8.37	8.37		29.63	29.63		65.1	65.9		4.63	4.69		6.44	6.72		4	
03/11/2018	08:05	Cloudy	Middle	4	23.60	23.60	23.60	8.04	8.04	8.04	30.51	30.51	30.51	81.2	81.2	81.1	5.79	5.79	5.78	5.36	5.37	5.33	7	6.50
	08:07		Middle	4	23.60	23.60		8.04	8.04		30.50	30.50		81.1	80.7		5.78	5.75		5.30	5.29		6	
05/11/2018	12:10	Fine	Middle	4	25.30	25.30	25.35	7.88	7.88	7.89	31.72	31.72	31.72	77.7	77.5	77.4	5.33	5.32	5.31	9.27	9.26	9.30	13	13.50
	12:12		Middle	4	25.40	25.40		7.89	7.89		31.72	31.72		77.2	77.2		5.29	5.29		9.29	9.36		14	
07/11/2018	13:55	Fine	Middle	4	26.10	26.10	26.15	7.70	7.70	7.71	33.20	33.20	33.20	78.6	78.0	78.3	5.27	5.23	5.26	9.58	9.54	9.56	18	18.50
	13:57		Middle	4	26.20	26.20		7.71	7.71		33.20	33.20		78.2	78.4		5.29	5.23		9.57	9.56		19	
09/11/2018	12:20	Fine	Middle	4	25.30	25.30	25.35	7.79	7.79	7.80	33.16	33.16	33.16	74.1	74.5	74.2	5.03	5.06	5.04	4.28	4.31	4.29	7	7.50
	12:22		Middle	4	25.40	25.40		7.81	7.81		33.16	33.16		74.3	73.8		5.04	5.01		4.28	4.29		8	
12/11/2018	02:43	Cloudy	Middle	3	23.70	23.70	23.70	8.12	8.12	8.12	29.35	29.35	29.35	69.3	61.8	65.3	4.46	4.43	4.51	4.18	4.24	4.19	6	6.50
	02:44		Middle	3	23.70	23.70		8.12	8.12		29.35	29.35		66.2	63.7		4.47	4.66		4.22	4.13		7	
14/11/2018	03:23	Cloudy	Middle	3	23.70	23.70	23.70	8.24	8.24	8.24	27.39	27.39	27.39	62.2	63.9	63.6	4.51	4.63	4.60	4.81	5.02	4.81	11	10.50
	03:24		Middle	3	23.70	23.70		8.24	8.24		27.39	27.39		63.9	64.2		4.62	4.65		4.57	4.85		10	
16/11/2018	05:10	Cloudy	Middle	3	23.70	23.70	23.70	8.20	8.20	8.20	29.69	29.69	29.69	67.3	69.9	69.2	4.81	4.98	4.94	5.68	5.30	5.37	4	4.00
	05:11		Middle	3	23.70	23.70		8.20	8.20		29.69	29.69		69.5	70.0		4.97	5.00		5.27	5.22		4	
19/11/2018	09:20	Fine	Middle	4	24.50	24.50	24.55	7.65	7.65	7.66	33.30	33.30	33.30	67.7	68.0	68.2	4.67	4.68	4.70	4.78	4.74	4.79	4	4.00
	09:22		Middle	4	24.60	24.60		7.66	7.66		33.30	33.30		68.5	68.5		4.72	4.72		4.81	4.83		4	
21/11/2018	12:05	Fine	Middle	4	24.80	24.80	24.85	7.69	7.69	7.70	32.91	32.91	32.68	70.7	70.9	70.1	4.86	4.87	4.81	4.55	4.75	4.54	5	5.50
	12:07		Middle	4	24.90	24.90		7.70	7.70		32.00	32.90		69.2	69.6		4.75	4.77		4.43	4.44		6	
23/11/2018	14:09	Fine	Middle	4	24.40	24.40	24.40	7.53	7.53	7.55	33.28	33.28	33.30	56.6	57.0	56.7	3.91	3.94	3.92	5.21	5.20	5.21	3	3.00
	14:11		Middle	4	24.40	24.40		7.56	7.56		33.31	33.31		56.6	56.7		3.92	3.92		5.21	5.21		3	
26/11/2018	03:59	Cloudy	Middle	3	21.00	21.00	21.00	8.24	8.24	8.24	29.18	29.18	29.18	70.1	74.0	73.1	5.28	5.58	5.51	3.37	3.34	3.45	10	10.00
	04:00		Middle	3	21.00	21.00		8.24	8.24		29.18	29.18		73.6	74.6		5.55	5.62		3.38	3.72		10	
28/11/2018	03:27	Cloudy	Middle	3	21.40	21.40	21.40	8.25	8.25	8.25	30.47	30.47	30.47	72.2	71.8	72.9	5.34	5.32	5.40	1.34	1.36	1.37	3	4.00
	03:28		Middle	3	21.40	21.40		8.25	8.25		30.47	30.47		73.5	73.9		5.45	5.48		1.40	1.38		5	
30/11/2018	03:31	Cloudy	Middle	3	20.90	20.90	20.90	8.19	8.19	8.19	32.15	32.15	32.15	78.1	79.5	78.6	5.79	5.89	5.83	1.63	1.70	1.69	3	3.00
	03:32		Middle	3	20.90	20.90		8.19	8.19		32.15	32.15		78.4	78.3		5.81	5.81		1.69	1.75		3	

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



**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			
3/12/18	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.





**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					
02/01/2019	12:40	Cloudy	Middle	4.0	18.20	18.20	18.20	6.83	6.83	6.83	33.42	33.42	33.42	80.4	80.7	80.9	6.20	6.23	6.24	7.66	7.66	7.67	9	9.50
	12:42		Middle	4.0	18.20	18.20		6.83	6.83		33.42	33.42		81.2	81.2		6.27	6.27		7.66	7.68		10	
04/01/2019	14:25	Fine	Middle	4.0	19.50	19.50	19.50	7.66	7.66	7.67	33.65	33.65	33.65	92.3	92.3	92.2	6.94	6.95	6.94	5.70	5.80	5.78	5	4.50
	14:27		Middle	4.0	19.50	19.50		7.68	7.68		33.64	33.64		92.1	92.0		6.93	6.92		5.82	5.81		4	
07/01/2019	09:55	Cloudy	Middle	4.0	18.80	18.80	18.80	8.11	8.11	8.11	33.49	33.49	33.49	92.4	92.6	92.1	7.04	7.06	7.02	4.41	4.42	4.42	4	4.00
	09:57		Middle	4.0	18.80	18.80		8.11	8.11		33.49	33.49		91.6	91.9		6.99	7.00		4.42	4.43		4	
09/01/2019	09:05	Cloudy	Middle	4.0	18.80	18.80	18.80	8.02	8.02	8.03	33.33	33.33	33.33	90.4	90.5	90.3	6.90	6.91	6.90	5.59	5.58	5.57	4	4.00
	09:07		Middle	4.0	18.80	18.80		8.03	8.03		33.33	33.33		90.3	90.1		6.90	6.88		5.56	5.56		4	
11/01/2019	12:30	Cloudy	Middle	4.0	20.00	20.00	20.05	8.18	8.18	8.20	32.72	32.72	32.72	101.2	101.1	100.5	7.50	7.56	7.50	8.41	8.40	8.41	3	3.00
	12:32		Middle	4.0	20.10	20.10		8.21	8.21		32.72	32.72		99.8	99.9		7.46	7.46		8.40	8.42		3	
14/01/2019	12:25	Cloudy	Middle	4.0	19.20	19.20	19.20	8.62	8.62	8.62	32.25	32.25	32.25	94.3	94.4	93.9	7.19	7.20	7.16	1.80	1.80	1.81	3	3.00
	12:27		Middle	4.0	19.20	19.20		8.63	8.60		32.25	32.25		93.3	93.4		7.12	7.13		1.81	1.82		3	
16/01/2019	14:20	Cloudy	Middle	4.0	18.60	18.60	18.60	8.69	8.68	8.69	31.96	31.96	31.96	98.7	98.7	98.5	7.63	7.61	7.61	1.65	1.58	1.61	3	3.50
	14:22		Middle	4.0	18.60	18.60		8.69	8.69		31.96	31.96		98.3	98.2		7.60	7.59		1.57	1.62		4	
18/01/2019	15:45	Cloudy	Middle	4.0	19.00	19.00	19.00	7.61	7.61	7.62	31.25	31.25	31.25	94.8	95.2	95.1	7.26	7.30	7.29	0.68	0.68	0.68	3	3.50
	15:47		Middle	4.0	19.00	19.00		7.61	7.63		31.25	31.25		95.2	95.1		7.29	7.29		0.68	0.68		4	
21/01/2019	04:31	Cloudy	Middle	3.0	17.80	17.80	17.80	7.81	7.81	7.81	31.99	31.99	31.99	87.8	83.6	84.8	6.49	6.56	6.55	3.51	3.34	3.30	10	9.50
	04:32		Middle	3.0	17.80	17.80		7.81	7.81		31.99	31.99		84.2	83.7		6.60	6.56		3.21	3.13		9	
23/01/2019	08:20	Fine	Middle	4.0	16.90	16.90	16.90	8.16	8.16	8.18	31.22	31.22	31.22	95.9	96.1	96.1	7.70	7.72	7.72	2.75	2.75	2.75	6	5.50
	08:22		Middle	4.0	16.90	16.90		8.19	8.19		31.22	31.22		96.3	96.2		7.73	7.72		2.75	2.74		5	
25/01/2019	16:05	Fine	Middle	4.0	19.70	19.70	19.75	8.14	8.14	8.15	30.98	30.98	30.98	97.8	97.9	98.1	7.44	7.45	7.46	2.44	2.43	2.43	9	9.00
	16:07		Middle	4.0	19.80	19.80		8.15	8.15		30.98	30.98		98.2	98.3		7.48	7.48		2.42	2.42		9	
28/01/2019	14:25	Fine	Middle	4.0	18.60	18.60	18.60	8.27	8.27	8.28	31.09	31.09	31.09	103.2	103.4	103.3	8.02	8.04	7.99	3.74	3.75	3.75	7	7.50
	14:27		Middle	4.0	18.60	18.60		8.28	8.28		31.09	31.09		103.0	103.7		8.00	7.89		3.76	3.76		8	
30/01/2019	14:05	Fine	Middle	4.0	18.90	18.90	18.95	8.26	8.26	8.27	31.01	31.01	31.01	107.6	107.5	107.4	8.31	8.29	8.29	2.13	2.13	2.14	4	4.00
	14:07		Middle	4.0	19.00	19.00		8.28	8.28		31.01	31.01		107.4	107.2		8.28	8.27		2.14	2.17		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				
02/01/2019	12:35	Cloudy	Middle	3.5	18.30	18.30	18.25	6.82	6.82	6.83	33.68	33.68	33.68	78.1	78.2	78.8	6.01	6.05	6.08	4.24	4.25	4.27	4	4.00
	12:37		Middle	3.5	18.20	18.20		6.83	6.83		33.68	33.68		79.4	79.6		6.12	6.13		4.29	4.30		4	
04/01/2019	14:20	Fine	Middle	3.5	19.90	19.90	19.90	7.64	7.64	7.65	31.55	31.55	31.55	88.3	88.4	87.4	6.67	6.68	6.60	7.15	7.14	7.17	4	4.50
	14:22		Middle	3.5	19.90	19.90		7.66	7.66		31.55	31.55		87.0	85.9		6.57	6.49		7.17	7.21		5	
07/01/2019	09:50	Cloudy	Middle	3.5	18.90	18.90	18.90	8.09	8.09	8.10	33.22	33.22	32.73	92.1	92.6	92.3	7.03	7.07	7.05	4.43	4.43	4.43	4	3.50
	09:52		Middle	3.5	18.90	18.90		8.10	8.10		32.23	32.23		92.2	92.2		7.04	7.04		4.43	4.41		3	
09/01/2019	09:00	Cloudy	Middle	3.5	18.70	18.70	18.70	7.89	7.89	7.91	33.23	33.23	33.24	95.8	96.1	94.7	7.33	7.36	7.25	5.75	5.72	5.73	4	4.50
	09:02		Middle	3.5	18.70	18.70		7.93	7.93		33.25	33.25		93.2	93.5		7.13	7.17		5.72	5.74		5	
11/01/2019	12:25	Cloudy	Middle	4.0	20.00	20.00	20.05	8.26	8.26	8.27	31.32	31.32	31.32	97.7	99.2	98.7	7.38	7.49	7.46	8.66	8.67	8.67	4	3.50
	12:27		Middle	4.0	20.10	20.10		8.27	8.27		31.31	31.31		99.0	99.0		7.48	7.48		8.68	8.68		3	
14/01/2019	12:20	Cloudy	Middle	3.5	19.20	19.20	19.25	8.59	8.59	8.60	31.95	31.95	31.95	95.5	94.7	94.3	7.30	7.23	7.20	1.96	1.97	1.97	4	4.00
	12:22		Middle	3.5	19.30	19.30		8.60	8.60		31.95	31.95		93.5	93.3		7.13	7.12		1.97	1.96		4	
16/01/2019	14:15	Cloudy	Middle	4.0	18.70	18.70	18.75	8.67	8.67	8.68	31.92	31.92	31.92	101.9	101.6	100.6	7.85	7.87	7.76	1.27	1.27	1.26	6	5.50
	14:17		Middle	4.0	18.80	18.80		8.68	8.68		31.92	31.92		99.5	99.2		7.68	7.64		1.24	1.24		5	
18/01/2019	15:40	Cloudy	Middle	4.0	18.20	18.20	18.30	7.89	7.89	7.89	31.69	31.69	31.69	107.4	108.0	106.9	8.35	8.38	8.32	1.49	1.49	1.49	5	4.50
	15:42		Middle	4.0	18.40	18.40		7.88	7.88		31.68	31.68		106.0	106.1		8.26	8.27		1.48	1.49		4	
21/01/2019	04:39	Cloudy	Middle	2.5	17.80	17.80	17.85	7.82	7.82	7.82	31.49	31.49	31.49	82.4	82.8	82.6	6.47	6.50	6.47	3.99	3.66	3.84	4	4.50
	04:40		Middle	2.5	17.90	17.90		7.82	7.82		31.49	31.49		83.5	81.7		6.48	6.41		3.83	3.86		5	
23/01/2019	08:15	Fine	Middle	4.0	16.90	16.90	16.90	8.05	8.05	8.07	31.04	31.04	31.04	96.4	96.0	96.2	7.73	7.70	7.72	3.08	3.11	3.11	5	4.50
	08:17		Middle	4.0	16.90	16.90		8.09	8.09		31.04	31.04		96.1	96.2		7.72	7.72		3.12	3.11		4	
25/01/2019	16:00	Fine	Middle	3.5	19.80	19.80	19.80	8.11	8.11	8.12	30.79	30.79	30.79	97.3	98.2	98.1	7.39	7.45	7.44	2.83	2.82	2.85	12	10.00
	16:02		Middle	3.5	19.80	19.80		8.13	8.13		30.78	30.78		98.4	98.5		7.46	7.46		2.88	2.88		8	
28/01/2019	14:20	Fine	Middle	4.0	19.00	19.00	19.05	8.22	8.22	8.23	30.78	30.78	30.77	103.3	103.2	102.9	7.94	7.93	7.92	2.84	2.91	2.99	6	5.50
	14:22		Middle	4.0	19.10	19.10		8.24	8.24		30.76	30.76		102.7	102.5		7.92	7.90		3.11	3.09		5	
30/01/2019	14:00	Fine	Middle	4.0	19.50	19.50	19.55	8.17	8.17	8.19	30.82	30.82	30.82	107.0	107.0	106.7	8.19	8.19	8.16	2.51	2.68	2.54	4	3.50
	14:02		Middle	4.0	19.60	19.60		8.21	8.21		30.82	30.82		106.2	106.4		8.12	8.13		2.51	2.45		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	
02/01/2019	23:45	Cloudy	Middle	3.0	17.60	17.60	17.60	8.48	8.51	8.50	29.83	29.83	29.83	85.3	86.2	85.2	6.82	6.89	6.82	5.32	5.23	5.23	5	5.00
	23:46		Middle	3.0	17.60	17.60		8.51	8.51		29.83	29.83		85.1	84.3		6.81	6.74		5.20	5.17		5	
04/01/2019	01:19	Cloudy	Middle	3.0	19.30	19.30	19.30	8.57	8.57	8.57	32.19	32.19	32.19	87.6	88.3	88.0	6.66	6.72	6.69	5.18	5.21	5.14	2	2.50
	01:20		Middle	3.0	19.30	19.30		8.57	8.57		32.19	32.19		88.1	87.9		6.70	6.68		5.01	5.16		3	
07/01/2019	01:32	Cloudy	Middle	3.0	18.20	18.20	18.20	8.63	8.63	8.63	32.86	32.86	32.86	84.0	86.4	86.1	6.51	6.70	6.67	4.83	4.81	4.92	4	3.50
	01:33		Middle	3.0	18.20	18.20		8.63	8.63		32.86	32.86		87.5	86.3		6.78	6.69		5.07	4.98		3	
09/01/2019	02:51	Cloudy	Middle	3.5	18.40	18.40	18.40	8.50	8.50	8.50	32.55	32.55	32.55	88.0	89.5	89.2	6.68	6.80	6.78	4.35	4.27	4.21	2	3.00
	02:52		Middle	3.5	18.40	18.40		8.50	8.50		32.55	32.55		89.9	89.5		6.83	6.80		4.07	4.14		4	
11/01/2019	03:40	Cloudy	Middle	3.5	18.70	18.70	18.70	8.68	8.68	8.68	32.42	32.42	32.42	93.1	93.2	93.4	7.17	7.18	7.19	5.25	5.22	5.17	4	3.00
	03:41		Middle	3.5	18.70	18.70		8.68	8.68		32.42	32.42		93.8	93.4		7.22	7.19		5.14	5.08		2	
14/01/2019	02:32	Cloudy	Middle	3.5	18.70	18.70	18.70	8.55	8.55	8.55	32.29	32.29	32.29	92.2	93.3	92.2	7.09	7.18	7.09	1.23	1.14	1.14	3	3.00
	02:33		Middle	3.5	18.70	18.70		8.55	8.55		32.29	32.29		91.7	91.4		7.06	7.04		1.11	1.07		3	
16/01/2019	21:24	Cloudy	Middle	3.5	17.80	17.80	17.80	8.64	8.64	8.64	31.11	31.11	31.11	90.1	89.4	89.6	7.10	7.04	7.06	2.24	2.11	2.12	4	4.00
	21:25		Middle	3.5	17.80	17.80		8.64	8.64		31.11	31.11		89.6	89.3		7.06	7.04		2.04	2.08		4	
18/01/2019	21:18	Cloudy	Middle	3.5	18.80	18.80	18.80	7.79	7.79	7.79	32.17	32.17	32.17	85.5	87.2	86.9	6.45	6.56	6.55	1.77	1.60	1.61	5	4.50
	21:19		Middle	3.5	18.80	18.80		7.79	7.79		32.17	32.17		87.3	87.6		6.59	6.61		1.56	1.50		4	
21/01/2019	00:27	Cloudy	Middle	3.5	17.80	17.80	17.80	7.79	7.79	7.79	31.95	31.95	31.95	82.5	84.4	83.6	6.47	6.62	6.56	1.87	1.91	1.81	4	3.50
	00:28		Middle	3.5	17.80	17.80		7.79	7.79		31.95	31.95		83.8	83.5		6.58	6.55		1.83	1.63		3	
23/01/2019	02:23	Cloudy	Middle	3.5	16.00	16.00	16.00	8.13	8.13	8.13	30.05	30.05	30.05	86.8	88.8	88.3	7.13	7.30	7.26	2.48	2.51	2.52	2	2.00
	02:24		Middle	3.5	16.00	16.00		8.13	8.13		30.05	30.05		89.0	88.5		7.32	7.28		2.53	2.56		2	
25/01/2019	11:45	Fine	Middle	4.0	19.10	19.10	19.15	8.19	0.18	6.19	31.12	31.12	31.13	99.7	99.8	99.6	7.66	7.67	7.65	3.50	3.44	3.45	7	7.50
	11:47		Middle	4.0	19.20	19.20		8.19	8.19		31.13	31.13		99.4	99.3		7.64	7.63		3.41	3.46		8	
28/01/2019	20:18	Cloudy	Middle	3.5	17.30	17.30	17.30	8.41	8.41	8.41	31.09	31.09	31.09	85.5	84.7	88.0	6.82	6.75	7.01	3.54	3.19	3.27	6	6.00
	20:19		Middle	3.5	17.30	17.30		8.41	8.41		31.09	31.09		89.7	91.9		7.14	7.32		3.14	3.21		6	
30/01/2019	22:37	Cloudy	Middle	3.0	18.90	18.90	18.90	8.28	8.28	8.28	31.05	31.05	31.05	87.9	91.6	90.4	6.43	6.69	6.61	1.65	1.62	1.67	4	3.00
	22:38		Middle	3.0	18.90	18.90		8.28	8.28		31.05	31.05		93.4	88.6		6.83	6.47		1.75	1.67		2	

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



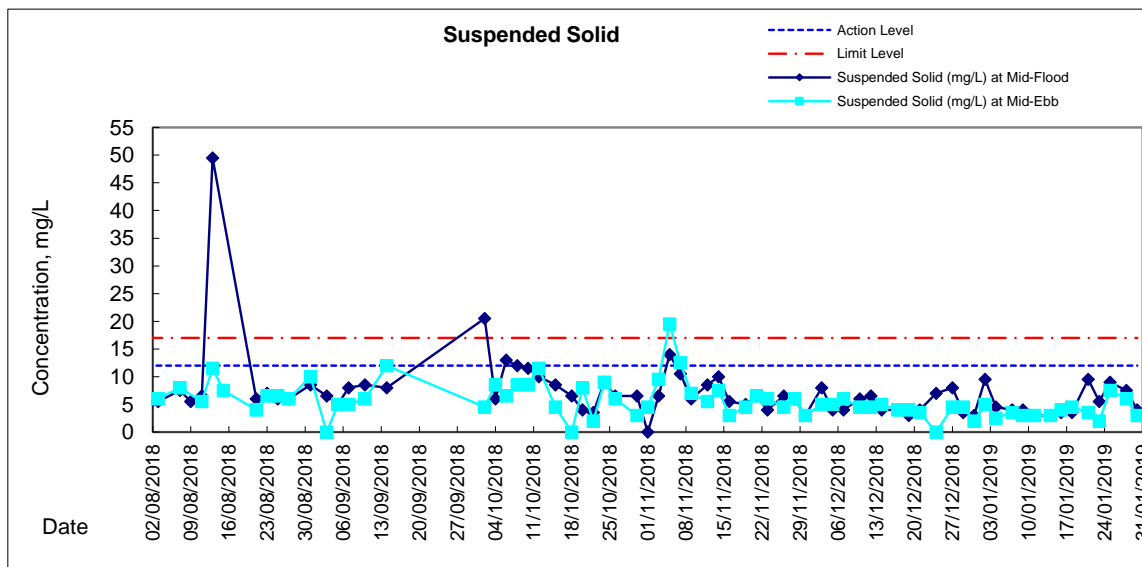
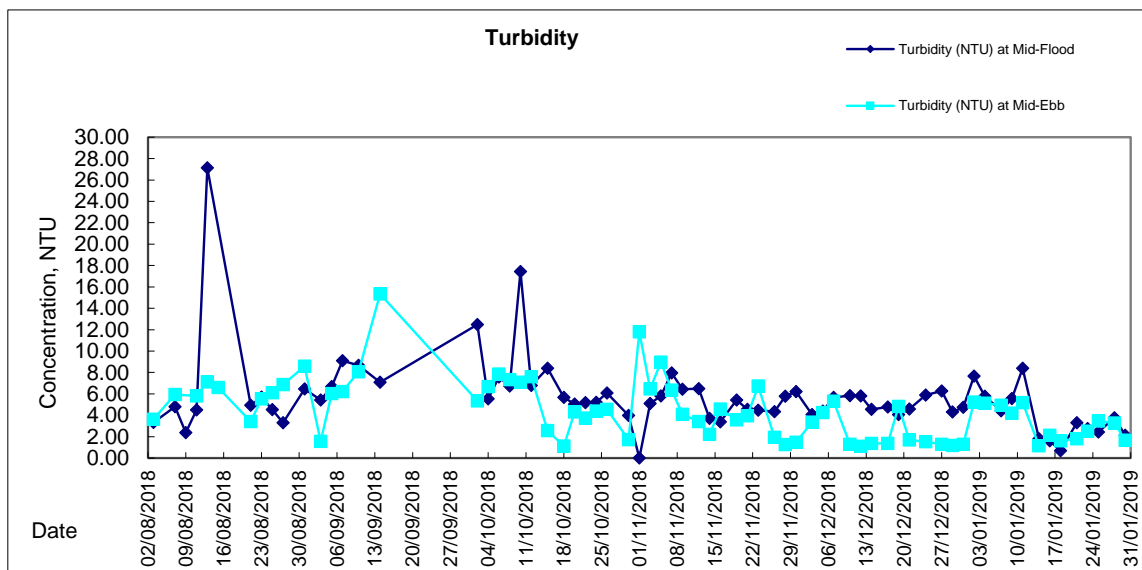
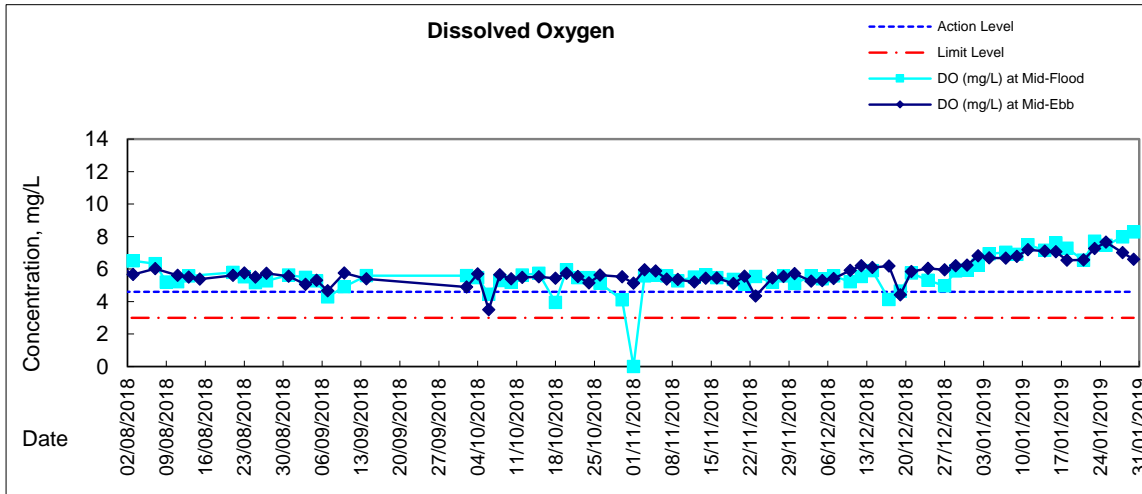
**Water Monitoring Result at Culvert J - Reference Station  
Mid-Ebb Tide**

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				
02/01/2019	23:54	Cloudy	Middle	3	17.50	17.50	17.50	8.57	8.57	8.57	32.82	32.82	32.82	85.9	86.5	86.4	6.75	6.78	6.78	4.38	4.30	4.28	4	4.00
	23:55		Middle	3	17.50	17.50		8.57	8.57		32.82	32.82		86.7	86.5		6.80	6.79		4.19	4.23		4	
04/01/2019	01:30	Cloudy	Middle	3	19.30	19.30	19.30	8.58	8.58	8.58	30.24	30.24	30.24	81.0	81.6	81.4	6.24	6.29	6.28	7.28	7.24	7.20	3	3.50
	01:31		Middle	3	19.30	19.30		8.58	8.58		30.24	30.24		82.0	81.1		6.32	6.25		7.16	7.12		4	
07/01/2019	01:38	Cloudy	Middle	3	18.10	18.10	18.10	8.65	8.65	8.65	32.58	32.58	32.58	84.4	86.4	86.1	6.57	6.72	6.70	4.83	4.96	4.95	4	4.00
	01:39		Middle	3	18.10	18.10		8.65	8.65		32.58	32.58		87.0	86.7		6.77	6.75		4.99	5.02		4	
09/01/2019	03:00	Cloudy	Middle	3	18.20	18.20	18.20	8.54	8.54	8.54	31.23	31.23	31.23	87.8	88.9	88.4	6.79	6.88	6.83	4.13	4.23	4.17	3	3.00
	03:01		Middle	3	18.20	18.20		8.54	8.54		31.23	31.23		88.2	88.5		6.82	6.84		4.10	4.20		3	
11/01/2019	03:47	Cloudy	Middle	3	18.70	18.70	18.70	8.66	8.66	8.66	31.39	31.39	31.39	88.6	89.9	89.1	6.85	6.96	6.90	6.40	6.34	6.27	4	4.00
	03:48		Middle	3	18.70	18.70		8.66	8.66		31.38	31.38		89.7	88.3		6.94	6.83		6.15	6.19		4	
14/01/2019	02:41	Cloudy	Middle	3	18.70	18.70	18.70	8.58	8.58	8.58	32.00	32.00	32.00	90.6	91.8	91.3	6.98	7.08	7.04	2.27	2.15	2.17	3	3.00
	02:42		Middle	3	18.70	18.70		8.58	8.58		32.00	32.00		91.6	91.2		7.06	7.03		2.17	2.08		3	
16/01/2019	21:32	Cloudy	Middle	3	17.70	17.70	17.70	8.65	8.65	8.65	28.33	28.33	28.32	78.4	81.8	80.6	6.30	6.58	6.48	4.72	4.47	4.47	3	3.00
	21:33		Middle	3	17.70	17.70		8.65	8.65		28.33	28.30		81.4	80.7		6.54	6.49		4.34	4.36		3	
18/01/2019	21:27	Cloudy	Middle	3	18.90	18.90	18.90	7.77	7.77	7.77	31.33	31.33	31.33	89.0	88.5	88.4	6.74	6.71	6.70	1.88	1.91	1.92	2	2.50
	21:28		Middle	3	18.90	18.90		7.77	7.77		31.33	31.33		88.9	87.3		6.73	6.61		1.94	1.96		3	
21/01/2019	00:34	Cloudy	Middle	3	17.80	17.80	17.80	7.81	7.81	7.81	31.50	31.50	31.50	82.3	82.4	82.1	6.47	6.48	6.45	1.96	2.02	2.04	6	5.50
	00:35		Middle	3	17.80	17.80		7.81	7.81		31.50	31.50		82.3	81.3		6.47	6.39		2.06	2.11		5	
23/01/2019	02:31	Cloudy	Middle	3	16.20	16.20	16.20	8.15	8.15	8.15	29.80	29.80	29.80	82.6	83.8	83.8	6.77	6.87	6.87	3.53	3.57	3.59	3	3.00
	02:32		Middle	3	16.20	16.20		8.15	8.15		29.80	29.80		84.8	83.8		6.95	6.87		3.61	3.63		3	
25/01/2019	11:40	Fine	Middle	4	19.40	19.40	19.45	8.13	8.13	8.15	31.07	31.07	31.07	99.7	99.4	99.2	7.62	7.60	7.59	3.58	3.59	3.57	8	7.50
	11:42		Middle	4	19.50	19.50		8.16	8.16		31.07	31.07		99.0	98.6		7.58	7.54		3.56	3.56		7	
28/01/2019	20:23	Cloudy	Middle	3	17.40	17.40	17.40	8.38	8.38	8.38	30.23	30.23	30.23	87.1	86.2	87.0	6.96	6.89	6.95	2.62	2.40	2.50	6	6.50
	20:24		Middle	3	17.40	17.40		8.38	8.38		30.23	30.23		87.0	87.7		6.95	6.99		2.44	2.54		7	
30/01/2019	22:46	Cloudy	Middle	3	18.50	18.50	18.50	8.29	8.29	8.29	30.68	30.68	30.68	92.8	94.3	94.1	6.84	6.95	6.93	1.89	1.86	1.82	3	3.00
	22:47		Middle	3	18.50	18.50		8.29	8.29		30.68	30.68		95.3	93.9		7.02	6.92		1.78	1.73		3	

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

