



**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	Value	Average	
01/06/2019	18:05	Fine	Middle	4.0	26.60	26.60	26.70	7.38	7.38	7.39	30.35	30.35	30.35	92.9	92.9	93.4	6.27	6.27	6.30	4.96	4.97	4.94	5	4.50
	18:07		Middle	4.0	26.80	26.80		7.39	7.39		30.34	30.34		93.8	94.0		6.33	6.34		4.91	4.92		4	
03/06/2019	18:35	Cloudy	Middle	3.0	28.30	28.30	28.30	7.89	7.89	7.89	29.52	29.52	29.52	88.6	89.3	87.8	5.67	5.72	5.66	4.18	4.25	4.15	16	<u>16.00</u>
	18:36		Middle	3.0	28.30	28.30		7.89	7.89		29.52	29.52		86.7	86.5		5.63	5.61		4.10	4.07		16	
05/06/2019	004:30	Cloudy	Middle	3.5	26.70	26.70	26.70	7.95	7.95	7.95	29.03	29.03	29.03	76.8	76.9	78.1	5.28	5.30	5.34	3.65	3.55	3.55	<2	<2
	04:31		Middle	3.5	26.70	26.70		7.95	7.95		29.03	29.03		79.7	79.0		5.42	5.37		3.52	3.48		<2	
08/06/2019	07:40	Fine	Middle	4.0	27.10	27.10	27.15	7.08	7.08	7.09	29.24	29.24	29.24	94.4	94.0	93.8	6.26	6.23	6.21	3.53	3.46	3.48	5	5.50
	07:42		Middle	4.0	27.20	27.20		7.09	7.09		29.23	29.23		93.1	93.5		6.17	6.19		3.48	3.46		6	
10/06/2019	10:50	Cloudy	Middle	4.0	28.50	28.50	28.55	7.33	7.33	7.35	27.14	27.14	27.14	96.9	96.7	96.3	6.46	6.44	6.41	3.53	3.54	3.54	4	3.50
	10:52		Middle	4.0	28.60	28.60		7.36	7.36		27.14	27.14		95.6	95.9		6.36	6.38		3.52	3.56		3	
12/06/2019	-	-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
14/06/2019	17:15	Fine	Middle	4.0	28.40	28.40	28.45	7.32	7.32	7.33	27.99	27.99	27.99	88.8	89.4	89.9	5.91	5.94	5.98	2.71	2.72	2.74	6	5.00
	17:17		Middle	4.0	28.50	28.50		7.33	7.33		27.99	27.99		90.7	90.7		6.03	6.03		2.71	2.80		4	
17/06/2019	20:26	Cloudy	Middle	3.5	26.80	26.80	26.80	8.11	8.11	8.11	31.15	31.15	31.15	82.8	85.1	83.5	5.29	5.44	5.35	9.84	9.27	9.66	16	<u>16.50</u>
	20:27		Middle	3.5	26.80	26.80		8.11	8.11		31.15	31.15		84.3	81.7		5.43	5.22		9.91	9.61		17	
19/06/2019	05:15	Cloudy	Middle	3.0	27.10	27.10	27.10	8.05	8.05	8.05	28.92	28.92	28.92	85.1	83.9	84.2	5.76	5.67	5.70	7.12	7.30	7.04	8	8.50
	05:16		Middle	3.0	27.10	27.10		8.05	8.05		28.92	28.92		83.4	84.5		5.65	5.72		6.83	6.91		9	
21/06/2019	16:05	Cloudy	Middle	3.0	29.10	29.10	29.10	8.13	8.13	8.13	26.63	26.63	26.63	93.3	96.4	94.1	6.19	6.39	6.24	7.23	7.54	7.48	5	4.50
	19:06		Middle	3.0	29.10	29.10		8.13	8.13		26.63	26.63		94.0	92.5		6.26	6.13		7.71	7.44		4	
24/06/2019	09:10	Cloudy	Middle	4.0	28.70	28.70	28.75	7.53	7.53	7.56	24.55	24.50	24.53	89.2	89.5	89.6	6.02	6.04	6.05	5.13	5.13	5.14	<2	2.00
	09:12		Middle	4.0	28.80	28.80		7.58	7.58		24.54	24.54		89.9	89.9		6.06	6.06		5.15	5.14		2	
27/06/2019	00:30	Cloudy	Middle	3.0	27.20	27.20	27.20	8.07	8.07	8.07	27.19	27.19	27.19	76.1	76.4	75.5	5.12	5.14	5.08	2.07	1.88	1.82	3	3.00
	00:31		Middle	3.0	27.20	27.20		8.07	8.07		27.19	27.19		75.7	73.8		5.09	4.96		1.73	1.61		3	
29/06/2019	05:07	Cloudy	Middle	3.5	28.10	28.10	28.10	7.89	7.89	7.89	27.40	27.40	27.40	84.4	85.3	84.5	5.66	5.72	5.66	2.23	2.34	2.34	<2	<2
	05:08		Middle	3.5	28.10	28.10		7.89	7.89		27.40	27.40		84.6	83.6		5.67	5.60		2.44	2.36		<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-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					
01/06/2019	18:00	Fine	Middle	3.5	27.20	27.20	27.25	7.32	7.32	7.33	30.30	30.30	30.30	86.6	86.1	85.8	5.79	5.76	5.74	3.44	3.36	3.41	4	4.00
	18:02		Middle	3.5	27.30	27.30		7.34	7.34		30.30	30.30		85.3	85.3		5.70	5.70		3.42	3.43		4	
03/06/2019	18:43	Cloudy	Middle	2.5	28.10	28.10	28.10	7.93	7.93	7.93	28.51	28.51	28.51	91.2	92.4	90.4	5.88	5.96	5.83	6.24	6.08	6.18	12	11.50
	18:44		Middle	2.5	28.10	28.10		7.93	7.93		28.51	28.51		88.8	89.1		5.73	5.75		6.21	6.17		11	
05/06/2019	04:38	Cloudy	Middle	3.0	26.60	26.60	26.60	8.04	8.04	8.04	22.96	22.96	22.96	84.1	88.6	85.9	5.91	6.22	6.04	4.91	4.88	4.91	2	2.50
	04:39		Middle	3.0	26.60	26.60		8.04	8.04		22.96	22.96		85.2	85.6		6.01	6.03		4.93	4.90		3	
08/06/2019	07:35	Fine	Middle	3.5	26.60	26.60	26.70	7.04	7.04	7.05	28.42	28.42	28.42	91.9	91.0	90.4	6.07	6.00	5.96	5.19	5.19	5.20	4	4.50
	07:37		Middle	3.5	26.80	26.80		7.06	7.06		28.41	28.41		89.3	89.3		5.89	5.88		5.20	5.22		5	
10/06/2019	10:45	Cloudy	Middle	3.5	29.30	29.30	29.40	7.33	7.33	7.34	25.01	25.01	25.01	97.0	97.0	96.7	6.45	6.44	6.42	4.02	4.06	4.06	3	3.50
	10:47		Middle	3.5	29.50	29.50		7.34	7.34		25.01	25.01		96.4	96.5		6.40	6.40		4.07	4.08		4	
12/06/2019	-	-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
14/06/2019	17:10	Fine	Middle	3.5	28.50	28.50	28.50	7.39	7.39	7.39	22.07	22.07	22.07	89.9	90.1	89.6	6.17	6.18	6.15	9.89	9.89	9.89	13	12.50
	17:12		Middle	3.5	28.50	28.50		7.39	7.39		22.07	22.07		89.0	89.4		6.10	6.13		9.89	9.89		12	
17/06/2019	20:31	Cloudy	Middle	3.0	26.90	26.90	26.90	8.15	8.15	8.15	26.08	26.08	26.08	76.9	79.5	78.0	5.05	5.22	5.12	8.88	8.78	8.60	18	19.00
	20:32		Middle	3.0	26.90	26.90		8.15	8.15		26.08	26.08		79.0	76.7		5.18	5.03		8.45	8.27		20	
19/06/2019	05:25	Cloudy	Middle	2.5	27.00	27.00	27.00	8.10	8.10	8.10	26.29	26.29	26.29	84.3	81.5	83.6	5.79	5.60	5.74	7.94	7.53	7.72	11	10.50
	05:26		Middle	2.5	27.00	27.00		8.10	8.10		26.29	26.29		82.2	86.4		5.65	5.93		7.63	7.77		10	
21/06/2019	19:11	Cloudy	Middle	2.5	29.00	29.00	29.00	8.24	8.24	8.24	25.11	25.11	25.11	87.8	88.3	88.4	5.88	5.97	5.93	7.20	7.39	7.18	13	13.00
	19:12		Middle	2.5	29.00	29.00		8.24	8.24		25.11	25.11		89.5	87.8		5.99	5.87		7.11	7.03		13	
24/06/2019	09:00	Cloudy	Middle	3.5	28.80	28.80	28.85	7.47	7.47	7.45	21.85	21.85	21.84	84.7	84.5	84.4	5.78	5.77	5.76	5.56	5.51	5.52	3	3.00
	09:02		Middle	3.5	28.90	28.90		7.40	7.46		21.83	21.83		84.2	84.2		5.75	5.75		5.50	5.50		3	
27/06/2019	00:38	Cloudy	Middle	2.5	28.00	28.00	27.95	8.12	8.12	8.12	23.83	23.83	23.83	75.1	74.3	75.1	5.15	5.10	5.15	2.62	2.31	2.32	4	3.50
	00:39		Middle	2.5	27.90	27.90		8.12	8.12		23.83	23.83		76.5	74.6		5.25	5.11		2.15	2.20		3	
29/06/2019	05:15	Cloudy	Middle	3.0	28.10	28.10	28.10	8.01	8.00	8.00	21.69	21.69	21.69	81.1	80.0	81.0	5.62	5.54	5.61	2.16	1.93	1.98	<2	<2
	05:16		Middle	3.0	28.10	28.10		8.00	8.00		21.69	21.69		80.7	82.2		5.59	5.69		1.84	1.99		<2	

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		
01/06/2019	10:20	Cloudy	Middle	4.0	26.50	26.50	26.55	7.25	7.25	7.26	30.61	30.61	30.61	94.3	94.3	94.2	6.37	6.37	6.36	9.98	9.92	9.94	25	<u>25.00</u>
	10:22		Middle	4.0	26.60	26.60		7.26	7.26		30.61	30.61		94.2	94.1		6.35	6.35		9.93	9.94		25	
03/06/2019	11:25	Cloudy	Middle	4.0	27.10	27.10	27.15	7.35	7.35	7.36	28.91	28.91	28.91	87.4	87.2	87.1	5.91	5.89	5.87	5.63	5.61	5.59	6	6.50
	11:27		Middle	4.0	27.20	27.20		7.36	7.36		28.91	28.91		87.0	86.9		5.83	5.83		5.58	5.55		7	
05/06/2019	15:20	Fine	Middle	3.5	28.00	28.00	28.05	7.15	7.15	7.16	28.73	28.73	28.73	91.1	90.6	90.7	6.08	6.04	6.04	4.47	4.47	4.46	<2	<2
	15:22		Middle	3.5	28.10	28.10		7.17	7.17		28.73	28.73		90.5	90.6		6.02	6.03		4.46	4.44		<2	
08/06/2019	17:55	Cloudy	Middle	3.5	28.40	28.40	28.55	7.36	7.36	7.37	27.95	27.95	27.96	95.7	95.9	94.6	6.35	6.36	6.31	2.39	2.40	2.40	5	4.50
	17:37		Middle	3.5	28.70	28.70		7.37	7.37		27.96	27.96		93.3	93.4		6.25	6.26		2.40	2.40		4	
10/06/2019	17:10	Cloudy	Middle	4.0	28.60	28.60	28.65	7.26	7.26	7.26	25.52	25.52	25.52	99.0	98.6	98.6	6.65	6.62	6.63	3.29	3.30	3.31	3	3.00
	17:12		Middle	4.0	28.70	28.70		7.26	7.26		25.52	25.52		98.5	98.4		6.64	6.61		3.31	3.32		3	
12/06/2019	-	-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
14/06/2019	09:55	Fine	Middle	3.5	28.20	28.20	28.25	7.22	7.22	7.23	28.20	28.20	28.20	88.6	88.5	88.4	5.90	5.89	5.88	2.39	2.38	2.35	5	4.50
	09:57		Middle	3.5	28.30	28.30		7.24	7.24		28.20	28.20		88.2	88.1		5.87	5.86		2.28	2.33		4	
17/06/2019	11:45	Cloudy	Middle	4.0	26.90	26.90	26.90	7.20	7.20	7.20	30.45	30.45	30.45	91.6	91.9	91.7	6.17	6.18	6.17	5.04	5.04	5.04	16	<u>16.00</u>
	11:47		Middle	4.0	26.90	26.90		7.20	7.20		30.45	30.45		91.7	91.7		6.17	6.17		5.05	5.04		16	
19/06/2019	14:05	Cloudy	Middle	3.5	29.40	29.40	29.45	7.29	7.29	7.30	28.68	28.68	28.68	94.1	93.5	94.0	6.13	6.05	6.11	3.28	3.29	3.28	7	7.50
	14:07		Middle	3.5	29.50	29.50		7.30	7.30		28.68	28.68		94.1	94.4		6.12	6.15		3.29	3.26		8	
21/06/2019	11:35	Fine	Middle	4.0	29.50	29.50	29.55	7.85	7.85	7.84	27.76	27.76	27.76	83.0	83.3	82.3	5.43	5.45	5.38	5.98	5.99	5.98	5	4.50
	11:37		Middle	4.0	29.60	29.60		7.82	7.82		27.76	27.76		81.3	81.4		5.31	5.32		5.96	5.97		4	
24/06/2019	15:10	Fine	Middle	3.5	28.90	28.90	28.90	7.45	7.45	7.46	31.60	31.60	31.61	95.2	95.2	95.1	6.69	6.69	6.69	4.89	4.78	4.80	2	2.00
	15:12		Middle	3.5	28.90	28.90		7.47	7.47		31.61	31.61		94.9	95.2		6.67	6.69		4.77	4.76		<2	
26/06/2019	19:00	Cloudy	Middle	3.0	28.10	28.10	28.10	8.02	8.02	8.02	27.19	27.19	27.19	73.4	76.3	74.6	4.93	5.13	5.01	1.41	1.38	1.33	5	5.00
	19:01		Middle	3.0	28.10	28.10		8.02	8.02		27.19	27.19		75.1	73.4		5.04	4.93		1.28	1.26		5	
29/06/2019	09:55	Fine	Middle	4.0	29.70	29.70	29.50	7.58	7.58	7.57	24.87	24.87	24.89	93.4	93.5	93.0	6.22	6.24	6.19	1.92	1.86	1.89	<2	<2
	09:57		Middle	4.0	29.30	29.30		7.56	7.56		24.91	24.91		92.6	92.3		6.17	6.14		1.88	1.88		<2	

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



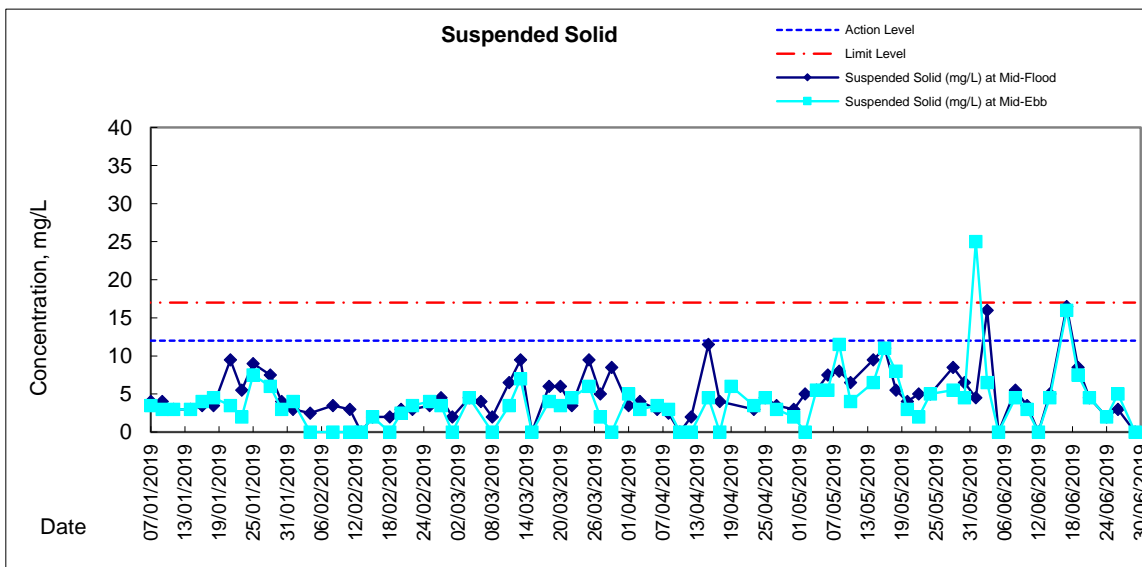
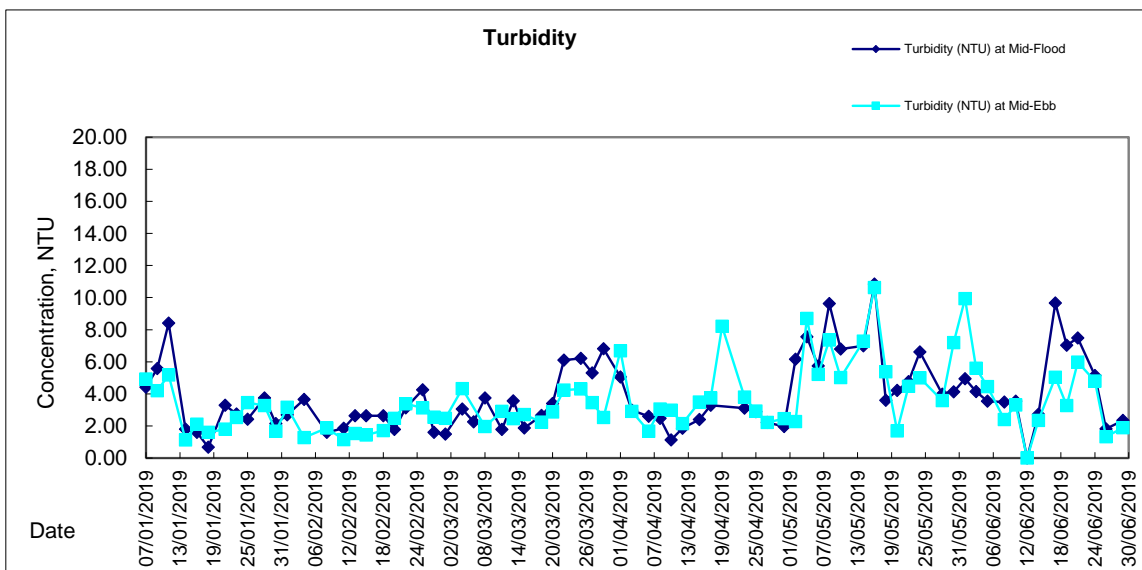
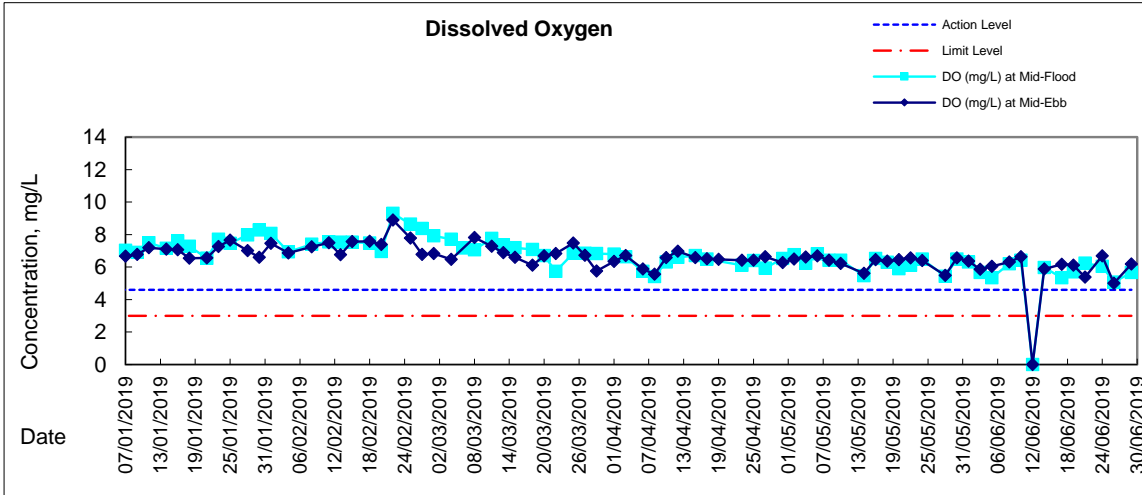
**Water Monitoring Result at Culvert J - Reference Station  
Mid-Ebb Tide**

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				
01/06/2019	10:15	Cloudy	Middle	4	26.90	26.90	27.05	7.17	7.17	7.18	30.05	30.05	30.04	89.4	89.3	88.9	6.01	6.00	5.97	5.47	5.38	5.41	8	8.00
	10:17		Middle	4	27.20	27.20		7.18	7.18		30.03	30.03		88.5	88.4		5.94	5.93		5.39	5.41		8	
03/06/2019	11:20	Cloudy	Middle	4	27.20	27.20	27.25	7.27	7.27	7.25	27.07	27.07	27.07	83.0	83.0	82.8	5.66	5.66	5.65	5.68	5.64	5.65	8	7.50
	11:22		Middle	4	27.30	27.30		7.23	7.23		27.07	27.07		83.1	82.0		5.67	5.59		5.64	5.63		7	
05/06/2019	15:15	Fine	Middle	4	28.70	28.70	28.80	7.09	7.09	7.11	26.11	26.11	26.12	87.3	87.0	86.6	5.83	5.81	5.78	4.79	4.84	4.81	3	2.50
	15:17		Middle	4	28.90	28.90		7.12	7.12		26.12	26.12		86.4	85.7		5.76	5.71		4.81	4.79		2	
08/06/2019	17:30	Cloudy	Middle	4	29.10	29.10	29.25	7.26	7.26	7.29	28.07	28.07	28.07	94.2	94.2	93.7	6.17	6.17	6.13	2.44	2.41	2.41	7	7.00
	17:32		Middle	4	29.40	29.40		7.32	7.32		28.06	28.06		93.6	92.6		6.12	6.07		2.39	2.39		7	
10/06/2019	17:05	Cloudy	Middle	4	28.80	28.80	28.85	7.07	7.07	7.08	24.09	24.09	24.09	100.0	99.6	99.4	6.76	6.72	6.71	3.71	3.66	4.41	4	4.50
	17:07		Middle	4	28.90	28.90		7.08	7.08		24.09	24.09		99.5	98.4		6.72	6.64		3.62	6.64		5	
12/06/2019	-	-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
14/06/2019	09:50	Fine	Middle	4	28.90	28.90	28.95	7.17	7.17	7.19	26.42	26.42	26.42	90.6	89.6	89.6	6.02	5.95	5.95	5.86	5.78	5.78	7	7.00
	09:52		Middle	4	29.00	29.00		7.20	7.20		26.42	26.42		88.6	89.4		5.89	5.93		5.77	5.80		7	
17/06/2019	11:40	Cloudy	Middle	4	27.10	27.10	27.10	7.12	7.12	7.10	29.34	29.34	29.34	94.4	93.7	93.6	6.37	6.32	6.31	6.98	6.99	7.01	12	13.50
	11:42		Middle	4	27.10	27.10		7.08	7.08		29.34	29.34		93.3	93.0		6.29	6.27		7.04	7.02		15	
19/06/2019	14:00	Cloudy	Middle	4	29.60	29.60	29.60	7.23	7.23	7.24	28.77	28.77	28.78	91.5	90.6	90.8	5.91	5.85	5.86	4.17	4.16	4.17	10	10.50
	14:02		Middle	4	29.60	29.60		7.25	7.25		28.78	28.78		90.5	90.6		5.84	5.84		4.17	4.17		11	
21/06/2019	11:30	Fine	Middle	4	29.50	29.50	29.40	7.79	7.79	7.78	27.56	27.56	27.57	80.0	80.1	80.2	5.26	5.27	5.27	5.08	5.12	5.11	8	7.50
	11:32		Middle	4	29.30	29.30		7.77	7.77		27.57	27.57		80.1	80.6		5.26	5.27		5.11	5.13		7	
24/06/2019	15:05	Fine	Middle	4	28.70	28.70	28.75	7.35	7.35	7.37	31.76	31.76	31.76	95.9	95.4	94.3	6.65	6.62	6.54	4.19	4.20	4.21	3	3.00
	15:07		Middle	4	28.80	28.80		7.39	7.39		31.76	31.76		92.4	93.5		6.41	6.48		4.21	4.22		3	
26/06/2019	19:15	Cloudy	Middle	3	28.00	28.00	28.00	8.10	8.10	8.10	23.60	23.60	23.60	71.8	73.7	74.1	4.93	5.05	5.08	2.17	2.36	2.23	5	4.50
	19:16		Middle	3	28.00	28.00		8.10	8.10		23.60	23.60		75.6	75.2		5.19	5.16		2.23	2.15		4	
29/06/2019	09:50	Fine	Middle	4	29.70	29.70	29.80	7.45	7.45	7.48	20.32	20.32	20.33	92.2	92.7	91.9	6.25	6.28	6.24	20.16	20.16	20.16	12	11.50
	09:52		Middle	4	29.90	29.90		7.50	7.50		20.33	20.33		91.0	91.6		6.17	6.26		20.15	20.15		11	

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

