



**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					
02/07/2019	19:04	Cloudy	Middle	3.0	27.70	27.70	27.70	7.77	7.77	7.77	28.76	28.76	28.76	89.6	91.7	91.1	5.94	6.15	6.09	5.08	4.97	4.99	10	10.50
	19:05		Middle	3.0	27.70	27.70		7.77	7.77		28.76	28.76		92.3	90.6		6.19	6.07		4.87	5.05		11	
04/07/2019	20:44	Cloudy	Middle	3.0	27.30	27.30	27.23	8.41	8.41	8.41	27.36	27.36	27.36	82.7	84.4	84.6	5.63	5.75	5.76	3.46	3.27	3.33	8	7.50
	20:45		Middle	3.0	27.30	27.00		8.41	8.41		27.36	27.36		84.7	86.4		5.76	5.88		3.19	3.38		7	
06/07/2019	07:50	Fine	Middle	4.0	27.70	27.70	27.75	7.52	7.52	7.53	26.85	26.85	26.85	93.0	93.3	93.1	6.29	6.31	6.30	3.75	3.76	3.76	<2	2.00
	07:52		Middle	4.0	27.80	27.80		7.53	7.53		26.85	26.85		92.9	93.1		6.28	6.30		3.76	3.78		2	
08/07/2019	09:35	Cloudy	Middle	4.0	28.50	28.50	28.50	7.49	7.49	7.49	26.21	26.21	26.21	90.2	90.0	90.1	6.05	6.04	6.04	2.34	2.38	2.37	8	7.50
	09:37		Middle	4.0	28.50	28.50		7.49	7.49		26.21	26.21		89.9	90.3		6.02	6.05		2.35	2.39		7	
10/07/2019	12:32	Fine	Middle	4.0	29.10	29.10	29.15	7.92	7.92	7.92	25.31	25.31	25.31	75.8	70.6	73.9	5.05	4.47	4.86	4.67	4.67	4.67	3	3.00
	12:34		Middle	4.0	29.20	29.20		7.92	7.92		25.31	25.31		73.4	75.6		4.89	5.04		4.67	4.67		3	
12/07/2019	16:20	Cloudy	Middle	3.5	27.80	27.80	27.85	7.53	7.53	7.53	28.95	28.95	28.95	95.1	94.2	94.2	6.39	6.36	6.33	2.29	2.28	2.28	4	4.50
	16:22		Middle	3.5	27.90	27.90		7.53	7.53		28.95	28.95		94.3	93.0		6.33	6.24		2.27	2.27		5	
15/07/2019	18:45	Cloudy	Middle	3.0	27.80	27.80	27.80	7.76	7.76	7.76	27.98	27.98	27.98	81.1	80.5	82.6	5.43	5.39	5.53	2.55	2.79	2.74	6	5.50
	18:46		Middle	3.0	27.80	27.80		7.76	7.76		27.98	27.98		84.3	84.4		5.65	5.65		2.81	2.81		5	
17/07/2019	19:30	Cloudy	Middle	3.5	27.60	27.60	27.60	7.79	7.79	7.79	30.00	30.00	30.00	93.1	93.8	92.7	6.21	6.26	6.18	3.21	3.15	3.29	6	6.00
	19:31		Middle	3.5	27.60	27.60		7.79	7.79		30.00	30.00		91.3	92.4		6.08	6.16		3.26	3.54		6	
19/07/2019	21:32	Cloudy	Middle	3.0	26.30	26.30	26.30	7.68	7.68	7.68	30.57	30.57	30.57	91.8	92.5	92.2	6.23	6.28	6.25	2.78	2.44	2.58	5	5.00
	21:33		Middle	3.0	26.30	26.30		7.68	7.68		30.57	30.57		92.4	91.9		6.27	6.23		2.57	2.51		5	
22/07/2019	08:15	Fine	Middle	3.5	27.00	27.00	27.05	6.44	6.44	6.45	30.41	30.41	30.42	92.6	92.6	93.0	6.21	6.21	6.24	8.98	8.99	8.93	2	2.00
	08:17		Middle	3.5	27.10	27.10		6.45	6.45		30.43	30.43		93.4	93.5		6.26	6.26		8.85	8.89		2	
24/07/2019	23:30	Fine	Middle	3.0	27.30	27.30	27.30	7.82	7.82	7.82	30.17	30.18	30.18	84.8	88.0	86.4	5.68	5.89	5.78	2.54	2.92	2.59	5	5.50
	23:31		Middle	3.0	27.30	27.30		7.82	7.82		30.18	30.18		86.2	86.4		5.77	5.78		2.36	2.52		6	
27/07/2019	00:45	Cloudy	Middle	3.5	28.30	28.30	28.30	7.98	7.98	7.98	28.21	28.21	28.21	89.6	90.0	89.7	5.97	5.99	5.97	1.47	1.56	1.51	2	2.50
	00:46		Middle	3.5	28.30	28.30		7.98	7.98		28.21	28.21		89.0	90.2		5.92	6.00		1.32	1.69		3	
29/07/2019	17:23	Fine	Middle	3.5	29.50	29.50	29.50	7.80	7.80	7.80	29.49	29.49	29.49	87.1	86.8	86.3	5.65	5.62	5.59	2.34	2.67	2.40	0	0.00
	17:24		Middle	3.5	29.50	29.50		7.80	7.80		29.49	29.49		85.7	85.6		5.55	5.55		2.38	2.21		0	
31/07/2019	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

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					
02/07/2019	19:19	Cloudy	Middle	2.5	27.70	27.70	27.70	7.63	7.63	7.63	27.29	27.29	27.29	88.2	90.4	90.2	5.97	6.11	6.10	6.66	6.53	6.39	10	10.50
	19:20		Middle	2.5	27.70	27.70		7.63	7.63		27.29	27.29		92.1	90.2		6.23	6.10		6.24	6.13		11	
04/07/2019	21:01	Cloudy	Middle	2.5	27.20	27.20	27.20	8.46	8.46	8.46	24.61	24.61	24.61	83.3	82.2	83.0	5.77	5.69	5.75	3.24	3.18	3.19	5	4.50
	21:02		Middle	2.5	27.20	27.20		8.46	8.46		24.61	24.61		83.7	82.8		5.79	5.73		3.22	3.10		4	
06/07/2019	07:45	Fine	Middle	3.5	28.10	28.10	28.15	7.45	7.45	7.46	25.25	25.25	25.25	85.7	86.4	86.2	5.81	5.85	5.84	4.34	4.35	4.36	<2	<2
	07:47		Middle	3.5	28.20	28.20		7.47	7.47		25.25	25.25		86.3	86.3		5.86	5.84		4.36	4.39		<2	
08/07/2019	09:30	Cloudy	Middle	3.5	28.70	28.70	28.70	7.26	7.26	7.26	24.83	24.83	24.84	82.4	82.3	81.8	5.54	5.54	5.51	2.75	2.76	2.74	7	7.00
	09:32		Middle	3.5	28.70	28.70		7.26	7.26		24.85	24.85		81.2	81.4		5.46	5.48		2.74	2.72		7	
10/07/2019	12:50	Fine	Middle	3.5	28.90	28.90	28.90	7.41	7.41	7.66	25.55	25.55	25.55	62.0	67.7	66.6	4.14	4.45	4.41	6.46	6.42	6.39	3	3.50
	12:52		Middle	3.5	28.90	28.90		7.91	7.91		25.55	25.55		69.5	67.3		4.57	4.49		6.36	6.33		4	
12/07/2019	16:15	Cloudy	Middle	3.5	28.30	28.30	28.40	7.52	7.52	7.54	28.36	28.36	28.37	91.9	91.7	91.0	6.10	6.08	6.03	2.41	2.39	2.39	8	8.00
	16:17		Middle	3.5	28.50	28.50		7.53	7.57		28.38	28.36		90.3	90.0		5.98	5.96		2.38	2.39		8	
15/07/2019	19:51	Cloudy	Middle	2.5	27.60	27.60	27.60	7.77	7.77	7.77	24.41	24.41	24.41	76.8	79.2	78.4	5.28	5.44	5.38	3.09	2.88	2.82	6	6.00
	19:52		Middle	2.5	27.60	27.60		7.77	7.77		24.41	24.41		79.1	78.3		5.43	5.38		2.70	2.61		6	
17/07/2019	19:39	Cloudy	Middle	3.0	27.70	27.70	27.70	7.73	7.73	7.73	26.14	26.14	26.14	91.1	91.2	90.7	6.18	6.19	6.16	4.17	4.13	4.19	8	7.50
	19:40		Middle	3.0	27.70	27.70		7.73	7.73		26.14	26.14		90.5	89.8		6.15	6.10		4.26	4.20		7	
19/07/2019	21:18	Cloudy	Middle	2.5	26.10	26.10	26.10	7.70	7.70	7.70	28.75	28.75	28.75	84.3	86.0	85.9	5.79	5.91	5.90	3.56	3.54	3.47	7	6.50
	21:19		Middle	2.5	26.10	26.10		7.70	7.70		28.75	28.75		85.0	88.2		5.85	6.06		3.37	3.42		6	
22/07/2019	08:20	Fine	Middle	3.5	26.80	26.80	26.85	6.52	6.52	6.53	28.43	28.43	28.43	80.5	80.8	81.3	5.49	5.51	5.54	9.71	9.69	9.72	2	2.00
	08:22		Middle	3.5	26.90	26.90		6.53	6.53		28.43	28.43		81.5	82.3		5.55	5.60		9.73	9.73		2	
24/07/2019	23:41	Fine	Middle	2.5	27.30	27.30	27.30	7.76	7.76	7.76	27.90	27.90	27.50	88.1	84.4	86.8	5.89	5.64	5.80	2.39	2.59	2.52	4	3.50
	23:42		Middle	2.5	27.30	27.30		7.76	7.76		27.09	27.09		87.5	87.0		5.86	5.82		2.53	2.58		3	
27/07/2019	00:53	Cloudy	Middle	3.0	28.40	28.40	28.40	8.04	8.04	8.04	24.41	24.41	24.41	91.6	89.6	90.3	6.22	6.09	6.14	1.90	1.80	1.89	3	3.50
	00:54		Middle	3.0	28.40	28.40		8.04	8.04		24.41	24.41		88.9	91.2		6.04	6.19		1.83	2.01		4	
29/07/2019	17:38	Fine	Middle	3.0	29.90	29.90	29.90	7.73	7.73	7.73	26.20	26.20	26.20	81.4	81.7	82.1	5.35	5.37	5.40	3.02	2.91	2.97	0	0.00
	17:39		Middle	3.0	29.90	29.90		7.73	7.73		26.20	26.20		82.4	82.7		5.42	5.44		2.86	3.08		0	
31/07/2019	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

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				
02/07/2019	10:10	Cloudy	Middle	3.5	28.40	28.40	28.40	7.71	7.71	7.73	27.61	27.61	27.61	101.6	101.8	101.6	6.76	6.79	6.80	3.25	3.26	3.27	8	9.00
	10:12		Middle	3.5	28.40	28.40		7.75	7.75		27.61	27.61		101.5	101.5		6.83	6.83		3.27	3.28		10	
04/07/2019	12:45	Fine	Middle	3.5	28.70	28.70	28.75	7.19	7.19	7.20	26.38	26.38	26.38	87.9	89.1	88.2	5.87	5.95	5.88	6.32	6.32	6.36	7	7.00
	12:47		Middle	3.5	28.80	28.80		7.20	7.20		26.37	26.37		87.7	87.9		5.85	5.86		6.34	6.45		7	
06/07/2019	16:30	Fine	Middle	4.0	28.70	28.70	28.75	7.51	7.51	7.51	25.94	25.94	25.94	97.4	97.4	97.4	6.51	6.51	6.51	3.44	3.40	3.43	<2	<2
	16:32		Middle	4.0	28.80	28.80		7.51	7.51		25.93	25.93		97.4	97.5		6.51	6.52		3.47	3.41		<2	
08/07/2019	15:30	Cloudy	Middle	4.0	28.90	28.90	28.95	7.56	7.56	7.56	24.90	24.90	24.90	99.1	99.6	99.5	6.65	6.67	6.66	2.12	2.12	2.12	3	3.50
	15:32		Middle	4.0	29.00	29.00		7.56	7.56		24.90	24.90		99.4	99.7		6.65	6.66		2.11	2.11		4	
10/07/2019	20:21	Cloudy	Middle	3.5	27.60	27.60	27.60	8.14	8.14	8.14	24.22	24.22	24.22	92.7	94.7	93.5	6.38	6.52	6.44	1.81	1.94	1.85	2	2.00
	20:22		Middle	3.5	27.60	27.60		8.14	8.14		24.22	24.22		93.8	92.8		6.46	6.39		1.84	1.82		2	
12/07/2019	08:50	Fine	Middle	4.0	27.90	27.90	27.90	7.50	7.50	7.50	27.01	27.01	27.01	95.9	96.1	95.5	6.47	6.48	6.44	1.10	1.10	1.11	4	4.50
	08:52		Middle	4.0	27.90	27.90		7.50	7.50		27.00	27.00		94.7	95.1		6.38	6.41		1.12	1.10		5	
15/07/2019	12:55	Fine	Middle	3.5	29.60	29.60	29.65	7.94	7.94	7.94	23.34	23.34	23.34	113.4	113.1	113.0	7.58	7.55	7.54	3.22	3.24	3.23	7	6.50
	12:57		Middle	3.5	29.70	29.70		7.94	7.94		23.34	23.34		112.5	112.8		7.51	7.52		3.23	3.23		6	
17/07/2019	11:15	Fine	Middle	4.0	28.90	28.90	28.90	6.82	6.82	6.85	27.64	27.64	27.65	104.1	104.5	103.9	6.88	6.90	6.86	4.28	4.28	4.26	4	4.00
	11:17		Middle	4.0	28.90	28.90		6.87	6.87		27.65	27.65		103.6	103.2		6.83	6.82		4.23	4.26		4	
19/07/2019	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/07/2019	14:10	Cloudy	Middle	4.0	27.00	27.00	27.05	6.66	6.66	6.66	30.88	30.88	30.88	90.1	90.1	90.2	6.03	6.03	6.03	3.92	3.92	3.92	3	3.00
	14:12		Middle	4.0	27.10	27.10		6.66	6.66		30.88	30.88		90.4	90.2		6.04	6.03		3.90	3.94		3	
24/07/2019	15:45	Fine	Middle	4.0	28.30	28.30	28.40	6.80	6.80	6.83	29.71	29.71	29.71	104.0	104.1	103.8	6.85	6.86	6.83	3.45	3.45	3.46	3	3.50
	15:47		Middle	4.0	28.50	28.50		6.85	6.85		29.71	29.71		103.7	103.2		6.82	6.79		3.45	3.47		4	
27/07/2019	08:10	Fine	Middle	4.0	28.50	28.50	28.50	8.35	8.35	8.35	26.89	26.89	26.89	131.2	131.3	127.8	8.89	8.89	8.61	3.77	3.76	3.77	5	4.50
	08:12		Middle	4.0	28.50	28.50		8.35	8.35		26.89	26.89		124.6	124.0		8.34	8.31		3.76	3.77		4	
29/07/2019	09:45	Fine	Middle	3.0	29.50	29.50	29.50	7.80	7.80	7.80	29.46	29.46	29.46	89.9	88.2	88.2	5.84	5.73	5.73	1.62	1.77	1.54	0	0.00
	09:46		Middle	3.0	29.50	29.50		7.80	7.80		29.46	29.46		87.4	87.3		5.68	5.68		1.42	1.35		0	
31/07/2019	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

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



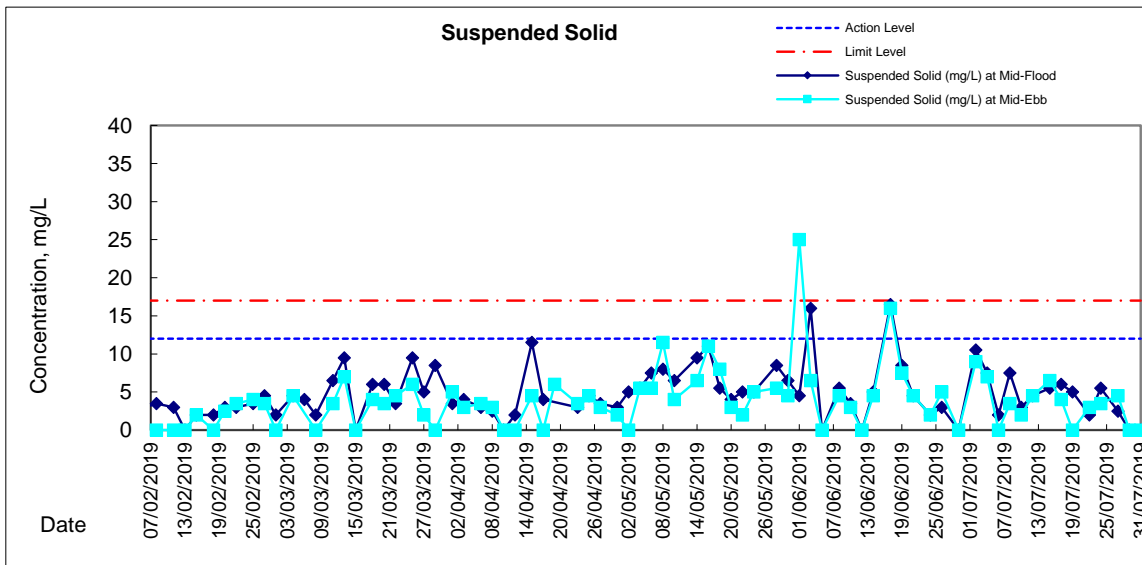
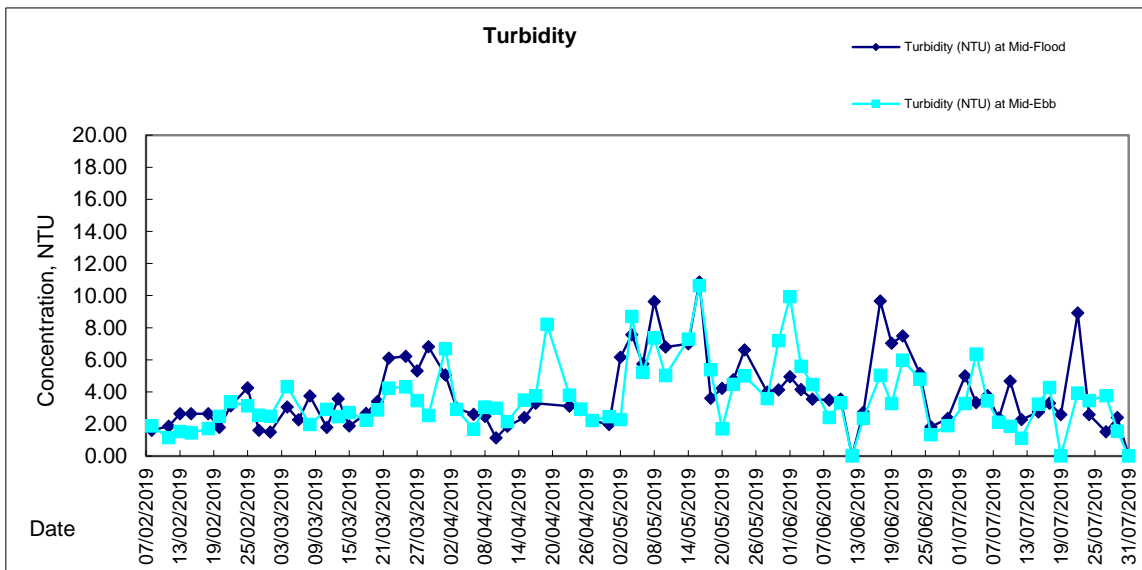
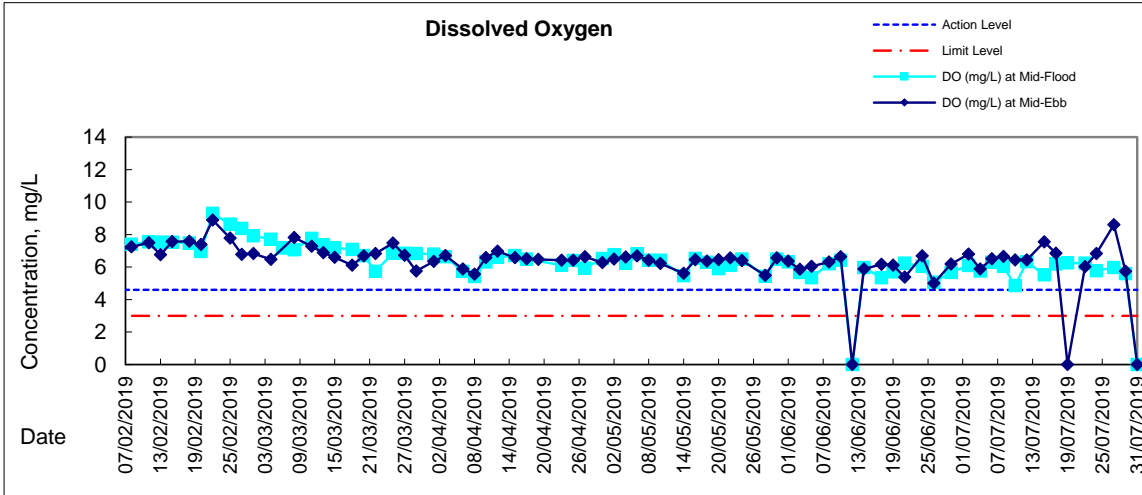
**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
02/07/2019	10:05	Cloudy	Middle	4	28.80	28.80	28.85	7.38	7.38	7.47	25.96	25.96	25.96	105.7	106.2	104.0	7.06	7.09	6.94	10.23	10.20	10.23	11	10.50
	10:07		Middle	4	28.90	28.90		7.55	7.55		25.95	25.95		102.2	101.8		6.82	6.79		10.24	10.26		10	
04/07/2019	12:50	Fine	Middle	4	28.30	28.30	28.30	7.54	7.54	7.56	20.79	20.79	20.80	86.5	87.6	87.4	6.02	6.08	6.06	4.60	4.74	4.69	5	5.50
	12:52		Middle	4	28.30	28.30		7.57	7.57		20.80	20.80		87.7	87.7		6.07	6.08		4.71	4.69		6	
06/07/2019	16:35	Fine	Middle	4	29.20	29.20	29.30	7.48	7.48	7.49	25.97	25.97	25.97	89.7	89.6	89.4	5.94	5.93	5.92	2.83	2.78	2.78	2	2.00
	16:37		Middle	4	29.40	29.40		7.49	7.49		25.97	25.97		88.4	89.7		5.85	5.94		2.76	2.75		<2	
08/07/2019	15:35	Cloudy	Middle	4	28.50	28.50	28.55	7.48	7.48	7.48	23.49	23.49	23.49	90.6	90.0	91.0	6.16	6.14	6.19	3.99	3.89	3.92	5	5.00
	15:37		Middle	4	28.60	28.60		7.48	7.48		23.49	23.49		91.6	91.9		6.23	6.24		3.89	3.92		5	
10/07/2019	20:30	Cloudy	Middle	3	27.40	27.40	27.40	8.23	8.23	8.23	20.39	20.39	20.39	83.7	88.7	84.9	5.26	5.91	5.74	3.07	3.52	3.14	3	2.50
	20:31		Middle	3	27.40	27.40		8.23	8.23		20.39	20.39		83.2	84.0		5.87	5.93		3.01	2.95		2	
12/07/2019	08:45	Fine	Middle	4	28.40	28.40	28.45	7.49	7.49	7.49	26.70	26.70	26.70	92.6	92.7	92.3	6.20	6.20	6.18	3.26	3.25	3.25	6	5.50
	08:47		Middle	4	28.50	28.50		7.49	7.49		26.70	26.70		92.2	91.8		6.17	6.14		3.25	3.25		5	
15/07/2019	12:50	Fine	Middle	4	29.90	29.90	30.05	7.84	7.84	7.84	23.33	23.33	23.33	107.2	108.9	108.8	7.11	7.22	7.21	3.10	3.19	3.18	5	5.00
	12:52		Middle	4	30.20	30.20		7.84	7.84		23.33	23.33		109.6	109.6		7.26	7.26		3.21	3.20		5	
17/07/2019	11:10	Fine	Middle	4	29.30	29.30	29.45	6.76	6.78	6.78	25.10	25.10	25.09	96.5	96.4	95.4	6.40	6.39	6.32	6.47	6.48	6.48	6	5.50
	11:12		Middle	4	29.60	29.60		6.78	6.78		25.07	25.07		93.8	94.8		6.21	6.28		6.49	6.49		5	
19/07/2019	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22/07/2019	14:05	Cloudy	Middle	4	27.50	27.50	27.65	6.68	6.68	6.69	30.75	30.75	30.75	90.4	90.2	90.3	5.99	5.97	5.97	4.47	4.48	4.47	4	3.00
	14:07		Middle	4	27.80	27.80		6.69	6.69		30.74	30.74		90.2	90.2		5.96	5.96		4.46	4.46		2	
24/07/2019	15:40	Fine	Middle	4	29.00	29.00	29.10	6.66	6.66	6.67	29.19	29.19	29.19	112.9	113.3	112.3	7.38	7.40	7.33	5.18	5.14	5.15	6	5.50
	15:42		Middle	4	29.20	29.20		6.67	6.67		29.18	29.18		111.2	111.6		7.26	7.27		5.13	5.14		5	
27/07/2019	08:05	Fine	Middle	4	28.70	27.70	28.40	8.17	8.17	8.17	27.16	27.16	27.17	123.3	124.3	124.1	8.19	8.26	8.24	2.82	2.87	2.85	4	4.00
	08:07		Middle	4	28.60	28.60		8.16	8.16		27.17	27.17		124.0	124.8		8.21	8.28		2.86	2.86		4	
29/07/2019	09:55	Fine	Middle	3	29.60	29.60	29.60	7.74	7.74	7.74	26.30	26.30	26.30	78.4	79.5	78.9	5.17	5.24	5.20	1.86	1.74	1.75	0	0.00
	09:56		Middle	3	29.60	29.60		7.74	7.74		26.30	26.30		78.1	79.4		5.16	5.24		1.69	1.72		0	
31/07/2019	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

