



**Water Monitoring Result at M5B - Central Cooling Water Intake Group
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth m	Water Temperature °C			pH			Salinity ppt			DO Saturation %			DO mg/L		Turbidity NTU			Suspended Solids mg/L			
				Value	Average		Value	Average		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	
3/11/14	15:10	Cloudy	Middle	3.5	25.60	25.60	25.60	7.99	7.99	7.99	33.34	33.34	33.35	81.1	81.3	80.4	5.49	5.51	5.45	5.74	5.75	5.75	4	4.00
	15:12		Middle	3.5	25.60	25.60		7.99	7.99		33.35	33.35		79.9	79.4		5.41	5.38		5.76	5.76		4	
5/11/14	16:45	Fine	Middle	3.0	25.50	25.50	25.50	7.96	7.96	7.98	32.67	32.67	32.65	86.0	81.5	81.0	5.85	5.55	5.52	5.29	5.34	5.36	5	5.00
	16:47		Middle	3.0	25.50	25.50		7.99	7.99		32.62	32.63		78.1	78.3		5.32	5.35		5.37	5.45		5	
7/11/14	16:50	Cloudy	Middle	3.5	25.00	25.00	24.95	8.05	8.05	8.06	32.52	32.52	32.38	73.8	73.7	73.3	5.07	5.06	5.03	4.53	4.53	4.53	3	3.00
	16:52		Middle	3.5	24.90	24.90		8.06	8.06		32.24	32.24		73.0	72.6		5.01	4.98		4.53	4.53		3	
10/11/14	10:15	Fine	Middle	3.0	24.80	24.80	24.75	8.03	8.03	8.04	33.29	33.29	33.26	100.3	106.6	103.5	6.90	7.33	7.19	12.38	12.37	12.38	19	<u>19.50</u>
	10:17		Middle	3.0	24.70	24.70		8.05	8.05		33.22	33.22		104.1	102.8		7.15	7.37		12.37	12.38		20	
12/11/14	10:37	Fine	Middle	3.0	25.80	25.80	25.85	8.00	8.00	8.01	33.12	33.12	33.12	85.7	85.7	85.0	5.78	5.78	5.74	4.19	4.15	4.16	10	11.00
	10:39		Middle	3.0	25.90	25.90		8.02	8.02		33.12	33.12		84.2	84.4		5.68	5.70		4.14	4.14		12	
14/11/14	17:10	Fine	Middle	4.0	23.90	23.90	23.90	8.05	8.05	8.06	33.07	33.07	33.13	81.8	81.6	81.9	5.70	5.70	5.72	3.19	3.16	3.22	5	5.00
	17:12		Middle	4.0	23.90	23.90		8.06	8.06		33.18	33.18		82.1	82.2		5.73	5.73		3.25	3.27		<2	
17/11/14	13:35	Fine	Middle	3.0	25.30	25.30	25.45	8.08	8.08	8.10	32.21	32.21	32.34	89.6	89.5	89.0	6.06	6.05	6.04	3.03	3.05	3.10	4	4.00
	13:37		Middle	3.0	25.60	25.60		8.11	8.11		32.46	32.46		88.0	89.0		5.99	6.05		3.16	3.17		4	
19/11/14	15:10	Fine	Middle	3.0	24.30	24.30	24.35	8.12	8.12	8.13	31.48	31.48	31.32	95.0	94.6	93.8	6.62	6.56	6.48	2.82	2.80	2.80	4	3.50
	15:12		Middle	3.0	24.40	24.40		8.14	8.14		31.15	31.15		91.2	94.3		6.31	6.43		2.79	2.79		3	
21/11/14	16:31	Fine	Middle	3.0	24.00	24.00	24.00	8.04	8.04	8.06	33.05	33.05	33.11	98.8	97.8	98.0	6.86	6.82	6.82	3.32	3.30	3.24	5	5.50
	16:33		Middle	3.0	24.00	24.00		8.07	8.07		33.17	33.17		97.8	97.7		6.81	6.80		3.17	3.17		6	
24/11/14	8:40	Fine	Middle	2.5	23.60	23.60	23.60	8.19	8.19	8.20	33.05	33.05	33.07	90.4	91.7	91.2	6.32	6.41	6.37	3.24	3.24	3.24	3	3.00
	8:42		Middle	2.5	23.60	23.60		8.20	8.20		33.08	33.08		91.7	90.8		6.41	6.35		3.25	3.24		3	
26/11/14	10:10	Fine	Middle	3.5	23.90	23.90	23.90	8.14	8.14	8.16	31.54	31.54	31.56	89.8	89.9	89.6	6.32	6.33	6.32	2.58	2.57	2.57	5	4.50
	10:12		Middle	3.5	23.90	23.90		8.17	8.17		31.57	31.57		90.7	88.0		6.44	6.18		2.57	2.57		4	
28/11/14	10:19	Cloudy	Middle	3.0	23.70	23.70	23.70	8.15	8.15	8.16	33.55	33.55	33.06	86.5	87.3	87.0	6.01	6.06	6.07	3.94	3.92	3.92	4	4.00
	10:21		Middle	3.0	23.70	23.70		8.16	8.16		32.56	32.56		87.3	86.7		6.11	6.08		3.92	3.91		4	

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	Value	Average		
3/11/14	9:50	Fine	Middle	3.5	25.00	25.00	25.00	7.92	7.92	7.94	33.44	33.44	33.46	94.6	94.4	93.4	6.47	6.46	6.40	8.72	8.74	8.82	6	6.00
	9:52		Middle	3.5	25.00	25.00		7.95	7.95		33.47	33.47		92.8	91.9		6.36	6.30		8.89	8.92		6	
5/11/14	10:45	Fine	Middle	3.0	25.60	25.60	25.60	8.00	8.00	8.01	33.30	33.30	33.45	86.1	86.0	85.4	5.82	5.81	5.77	4.13	4.13	4.14	2	2.50
	10:47		Middle	3.0	25.60	25.60		8.01	8.01		33.59	33.59		85.3	84.1		5.76	5.68		4.14	4.14		3	
7/11/14	11:16	Cloudy	Middle	3.0	25.10	25.10	25.10	8.16	8.16	8.16	33.49	33.49	33.51	82.8	83.2	83.2	5.65	5.71	5.69	3.91	3.87	3.88	4	4.00
	11:17		Middle	3.0	25.10	25.10		8.16	8.16		33.52	33.52		83.9	83.0		5.74	5.66		3.85	3.87		4	
10/11/14	4:40	Cloudy	Middle	3.0	23.76	23.76	23.77	7.96	7.96	8.00	32.10	32.10	32.11	99.5	96.0	95.5	7.28	7.03	6.93	4.00	3.45	3.70	<2	<2
	4:41		Middle	3.0	23.77	23.77		8.02	8.04		32.11	32.11		93.4	93.2		6.72	6.70		3.51	3.85		<2	
12/11/14	5:10	Cloudy	Middle	3.0	24.05	24.05	24.05	8.13	8.13	8.14	30.82	30.84	30.86	99.7	99.8	99.6	7.29	7.30	7.28	2.88	2.91	2.80	3	3.50
	5:11		Middle	3.0	24.05	24.05		8.14	8.14		30.88	30.88		99.5	99.3		7.27	7.25		2.77	2.63		4	
14/11/14	5:05	Cloudy	Middle	3.0	22.50	22.50	22.49	8.34	8.35	8.35	32.25	32.27	32.26	99.3	99.4	99.2	7.12	7.13	7.11	1.33	1.28	1.36	<2	<2
	5:06		Middle	3.0	22.48	22.48		8.35	8.35		32.26	32.26		99.0	98.9		7.09	7.09		1.26	1.56		<2	
17/11/14	10:19	Fine	Middle	3.0	24.50	24.50	24.65	8.08	8.08	8.09	32.62	32.62	32.64	80.3	79.6	79.6	5.54	5.56	5.50	4.81	4.98	4.73	4	3.50
	10:21		Middle	3.0	24.80	24.80		8.10	8.10		32.66	32.66		79.4	79.0		5.48	5.40		4.56	4.55		3	
19/11/14	10:30	Fine	Middle	3.5	23.90	23.90	23.90	8.12	8.12	8.13	33.24	33.24	33.25	93.7	94.1	94.0	6.54	6.57	6.56	2.52	2.47	2.48	3	3.00
	10:32		Middle	3.5	23.90	23.90		8.14	8.14		33.25	33.25		94.0	94.0		6.56	6.56		2.46	2.46		3	
21/11/14	11:50	Fine	Middle	3.0	24.40	24.40	24.40	8.16	8.16	8.17	33.26	33.26	33.26	94.7	96.3	95.3	6.54	6.66	6.59	2.94	2.94	2.94	3	3.00
	11:52		Middle	3.0	24.40	24.40		8.17	8.17		33.26	33.26		95.3	94.9		6.58	6.56		2.94	2.95		3	
24/11/14	3:59	Fine	Middle	3.0	23.08	23.08	23.08	8.16	8.16	8.17	32.11	32.12	32.14	93.1	92.8	92.7	6.75	6.73	6.73	2.46	2.26	2.45	<2	<2
	4:00		Middle	3.0	23.07	23.07		8.17	8.17		32.17	32.17		92.5	92.5		6.71	6.71		2.49	2.59		<2	
26/11/14	5:16	Cloudy	Middle	3.0	22.50	22.50	22.50	7.82	7.82	7.86	31.84	31.84	31.86	85.8	83.8	83.2	6.22	6.07	6.01	4.64	4.87	4.38	4	4.00
	5:17		Middle	3.0	22.50	22.50		7.89	7.89		31.88	31.88		82.2	80.8		5.95	5.80		4.00	4.02		4	
28/11/14	4:55	Cloudy	Middle	3.0	22.82	22.82	22.87	8.06	8.07	8.07	31.74	31.74	31.81	96.0	96.0	95.5	7.19	7.19	7.16	1.89	1.93	1.85	3	3.00
	4:56		Middle	3.0	22.92	22.92		8.08	8.08		31.88	31.88		95.1	95.0		7.13	7.11		1.80	1.77		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 m	Water Temperature °C			pH			Salinity ppt			DO Saturation %		DO mg/L		Turbidity NTU		Suspended Solids mg/L					
				Value	Average		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average				
3/11/14	15:15	Cloudy	Middle	3.0	25.40	25.40	25.35	8.00	8.00	8.00	33.31	33.31	33.31	78.1	78.4	78.1	5.31	5.33	5.31	6.04	6.02	6.02	5	4.50
	15:17		Middle	3.0	25.30	25.30		8.00	8.00		33.31	33.31		77.9	78.0		5.30	5.30		6.01	6.01		4	
5/11/14	16:49	Fine	Middle	3.0	25.30	25.30	25.30	8.00	8.00	8.01	32.58	32.58	32.63	82.7	82.6	81.7	5.65	5.65	5.59	4.74	4.76	4.77	4	4.00
	16:51		Middle	3.0	25.30	25.30		8.01	8.01		32.68	32.68		81.4	80.2		5.56	5.48		4.78	4.80		4	
7/11/14	16:54	Cloudy	Middle	3.5	25.10	25.10	25.10	8.05	8.05	8.05	33.32	33.32	33.31	73.9	73.8	73.8	5.04	5.03	5.04	3.50	3.49	3.48	3	3.00
	16:56		Middle	3.5	25.10	25.10		8.05	8.05		33.30	33.30		73.5	74.1		5.02	5.06		3.47	3.47		3	
10/11/14	10:19	Fine	Middle	2.5	24.50	24.50	24.50	8.06	8.06	8.06	33.26	33.26	33.18	82.9	82.9	82.4	5.71	5.72	5.68	3.66	3.65	3.65	2	2.00
	10:21		Middle	2.5	24.50	24.50		8.06	8.06		33.10	33.10		82.3	81.3		5.68	5.61		3.65	3.65		2	
12/11/14	10:45	Fine	Middle	2.5	25.20	25.20	25.25	8.05	8.05	8.05	30.76	30.76	30.78	80.1	79.5	78.8	5.53	5.49	5.44	7.24	7.34	7.34	7	6.50
	10:47		Middle	2.5	25.30	25.30		8.04	8.04		30.79	30.79		78.0	77.4		5.39	5.34		7.36	7.40		6	
14/11/14	17:15	Fine	Middle	3.5	23.80	23.80	23.75	8.06	8.06	8.06	32.93	32.93	32.95	77.1	79.3	78.9	5.40	5.55	5.53	2.74	2.75	2.73	5	5.00
	17:17		Middle	3.5	23.70	23.70		8.06	8.06		32.96	32.96		79.3	80.0		5.56	5.60		2.72	2.70		<2	
17/11/14	13:40	Fine	Middle	3.5	25.30	25.30	25.50	8.10	8.10	8.11	32.82	32.82	32.94	94.0	92.3	92.9	6.37	6.25	6.29	2.97	2.82	2.83	4	3.50
	13:42		Middle	3.5	25.70	25.70		8.12	8.12		33.05	33.05		92.6	92.6		6.27	6.26		2.77	2.75		3	
19/11/14	15:15	Fine	Middle	3.0	23.90	23.90	23.90	8.15	8.15	8.16	32.97	32.97	32.98	89.9	89.9	89.8	6.28	6.29	6.28	2.59	2.64	2.67	3	2.50
	15:17		Middle	3.0	23.90	23.90		8.16	8.16		32.99	32.99		89.8	89.5		6.27	6.27		2.66	2.77		2	
21/11/14	16:26	Fine	Middle	3.0	24.10	24.10	24.15	7.87	7.87	7.94	32.03	32.03	32.03	94.4	93.7	93.8	6.57	6.57	6.54	3.79	3.79	3.81	3	3.50
	16:28		Middle	3.0	24.20	24.20		8.01	8.01		32.02	32.02		93.4	93.8		6.50	6.52		3.82	3.84		4	
24/11/14	8:50	Fine	Middle	3.0	23.50	23.50	23.50	8.21	8.21	8.21	32.85	32.85	32.85	88.7	89.5	89.1	6.24	6.30	6.26	2.49	2.47	2.47	4	3.50
	8:52		Middle	3.0	23.50	23.50		8.21	8.21		32.85	32.85		89.2	88.8		6.27	6.24		2.46	2.46		3	
26/11/14	10:15	Fine	Middle	3.0	23.70	23.70	23.75	8.19	8.19	8.20	32.70	32.70	32.70	87.0	89.1	87.5	6.10	6.24	6.13	4.86	4.84	4.81	4	4.50
	10:17		Middle	3.0	23.80	23.80		8.20	8.20		32.70	32.70		86.8	86.9		6.09	6.09		4.83	4.72		5	
28/11/14	10:14	Cloudy	Middle	3.0	23.70	23.70	23.70	8.12	8.12	8.13	32.75	32.75	32.75	83.5	85.1	85.0	5.86	5.97	5.97	3.67	3.58	3.51	4	4.50
	10:16		Middle	3.0	23.70	23.70		8.14	8.14		32.74	32.74		85.7	85.8		6.01	6.02		3.43	3.36		5	

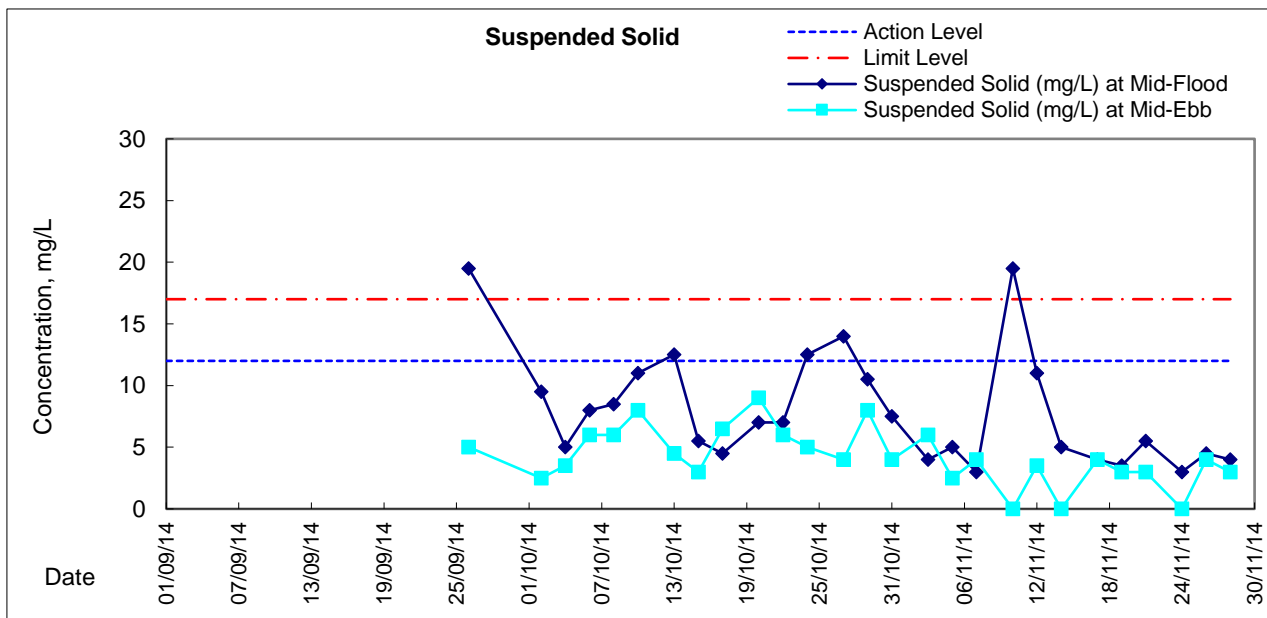
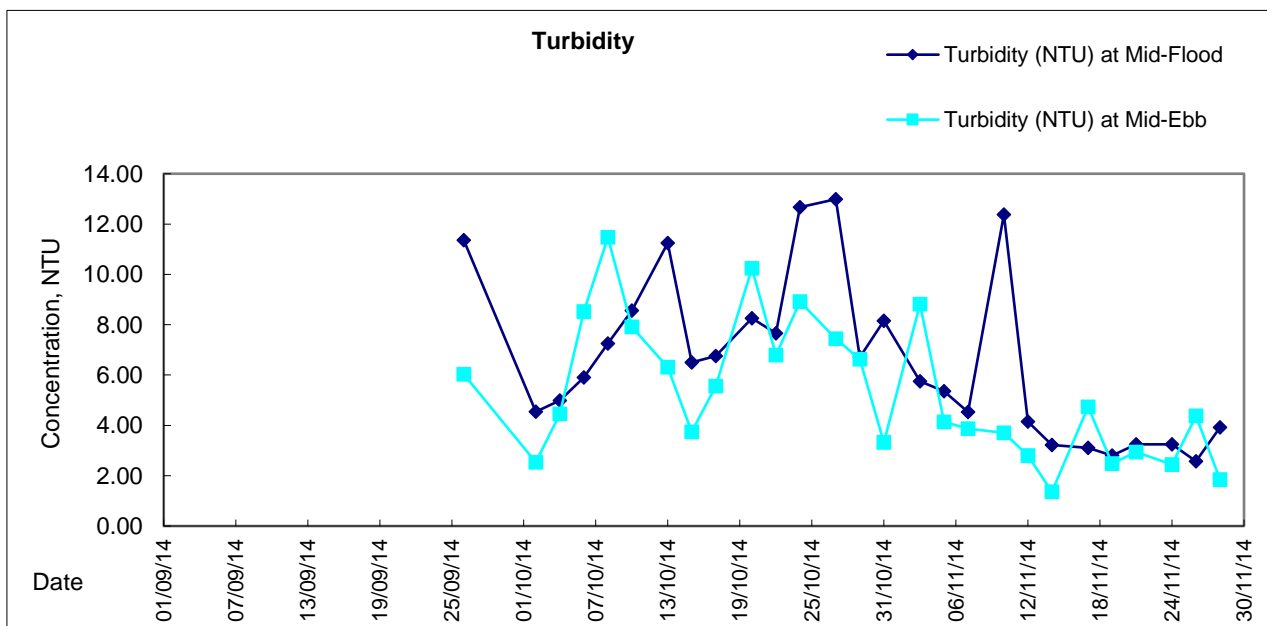
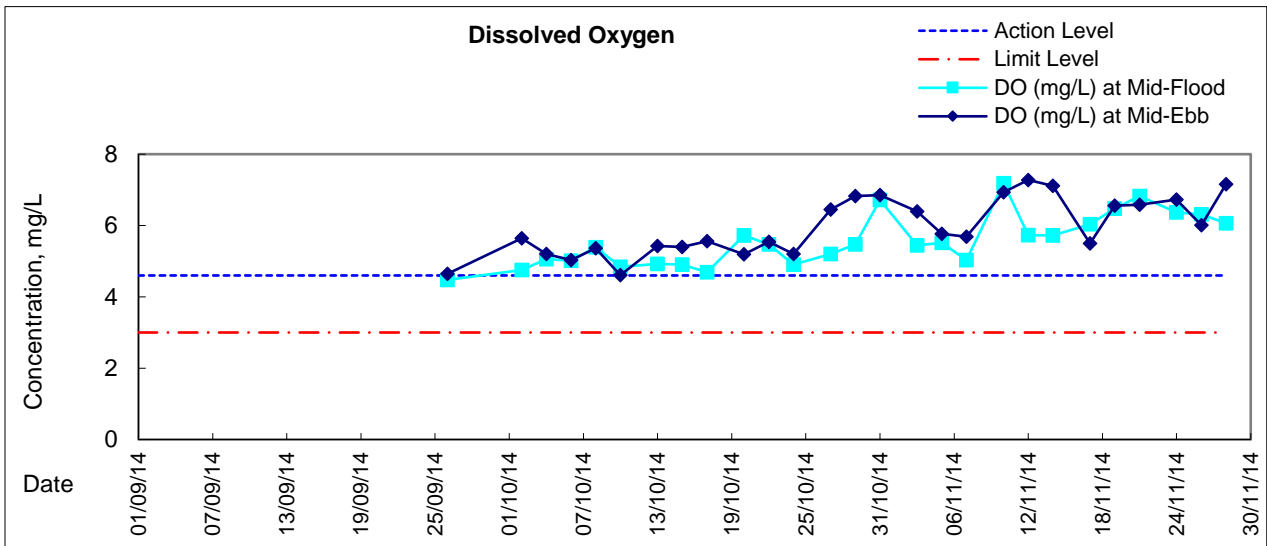


**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
3/11/14	9:56	Fine	Middle	3	25.00	25.00	25.00	7.98	7.96	7.97	33.24	33.24	32.74	72.1	72.3	72.3	4.97	4.98	4.98	9.20	9.26	9.27	7	7.00
	9:58		Middle	3	25.00	25.00		7.96	7.96		32.24	32.24		72.8	72.1		5.00	4.97		9.29	9.31		7	
5/11/14	10:50	Fine	Middle	3	25.50	25.50	25.50	8.02	8.02	8.03	24.28	24.28	24.32	80.7	79.4	79.6	5.76	5.67	5.68	4.65	4.60	4.62	3	2.50
	10:52		Middle	3	25.50	25.50		8.03	8.03		24.35	24.35		79.6	78.8		5.68	5.62		4.60	4.61		2	
7/11/14	11:10	Cloudy	Middle	3	25.00	25.00	25.00	8.18	8.18	8.18	33.42	33.42	33.44	83.2	83.7	83.2	5.79	5.77	5.73	3.31	3.33	3.36	3	3.00
	11:12		Middle	3	25.00	25.00		8.17	8.17		33.46	33.46		83.4	82.4		5.71	5.63		3.38	3.40		3	
10/11/14	4:46	Cloudy	Middle	3	24.02	24.02	24.02	8.14	8.15	8.14	26.47	26.47	26.47	70.4	69.0	68.5	5.09	4.99	4.95	24.29	23.84	22.67	6	6.00
	4:47		Middle	3	24.02	24.02		8.14	8.14		26.47	26.47		67.8	66.8		4.90	4.83		21.40	21.15		6	
12/11/14	5:20	Cloudy	Middle	3	24.35	24.35	24.31	8.18	8.18	8.14	23.19	23.19	23.20	82.6	81.7	81.4	6.06	5.99	5.97	22.96	23.79	23.40	7	6.50
	5:21		Middle	3	24.27	24.27		8.10	8.10		23.20	23.20		80.9	80.3		5.93	5.89		23.44	23.42		6	
14/11/14	5:14	Cloudy	Middle	3	23.11	23.11	23.07	8.40	8.40	8.39	25.75	25.75	25.74	88.4	88.3	88.2	6.54	6.53	6.53	6.07	5.59	5.77	3	3.00
	5:15		Middle	3	23.02	23.02		8.37	8.37		25.72	25.72		88.1	88.0		6.52	6.51		5.56	5.86		3	
17/11/14	10:15	Fine	Middle	3	24.70	24.70	24.80	8.14	8.14	8.12	29.77	29.77	29.79	65.3	66.0	66.9	4.57	4.66	4.69	8.59	8.52	8.53	5	5.00
	10:17		Middle	3	24.90	24.90		8.10	8.10		29.80	29.80		68.5	67.7		4.79	4.75		8.51	8.49		5	
19/11/14	10:35	Fine	Middle	3	23.50	23.50	23.50	8.16	8.16	8.18	32.51	32.51	32.76	90.2	90.7	90.4	6.34	6.37	6.35	2.85	2.83	2.82	5	5.00
	10:37		Middle	3	23.50	23.50		8.19	8.19		33.01	33.01		89.9	90.7		6.32	6.37		2.82	2.77		5	
21/11/14	11:56	Fine	Middle	3	23.80	23.80	23.80	8.19	8.19	8.19	32.51	32.51	32.52	91.6	91.5	91.9	6.42	6.42	6.44	3.42	3.45	3.43	<2	2.00
	11:57		Middle	3	23.80	23.80		8.19	8.19		32.52	32.52		92.3	92.0		6.47	6.45		3.46	3.37		2	
24/11/14	4:05	Fine	Middle	3	23.26	23.26	23.23	8.23	8.23	8.22	27.10	27.10	27.12	98.2	98.0	97.8	7.18	7.16	7.15	6.51	6.08	6.22	9	8.00
	4:06		Middle	3	23.20	23.20		8.20	8.20		27.13	27.13		97.6	97.3		7.14	7.12		6.19	6.11		7	
26/11/14	5:24	Cloudy	Middle	3	22.47	22.47	22.47	7.80	7.80	7.80	24.48	24.48	24.49	63.5	63.7	64.6	4.61	4.62	4.69	25.44	24.96	25.30	20	20.00
	5:25		Middle	3	22.47	22.47		7.79	7.79		24.49	24.49		65.5	65.5		4.75	4.76		25.38	25.40		20	
28/11/14	5:08	Cloudy	Middle	3	23.16	23.16	23.16	8.08	8.08	8.08	26.45	26.44	26.44	76.5	75.5	75.2	5.62	5.55	5.52	8.81	9.40	8.87	6	6.50
	5:09		Middle	3	23.16	23.16		8.08	8.08		26.43	26.43		74.7	74.0		5.48	5.43		8.55	8.71		7	



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





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

