

**Table C1** *Summary Table of DO, Turbidity and SS Levels Recorded between 3 and 31 October 2014*

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)	
			Bottom	Surface and Mid Depth			
2014/10/03	Mid-Ebb	DS1	4.97	5.29	20.42	16.13	
		DS2	5.27	5.50	4.90	4.43	
		DS3	5.15	5.45	5.19	7.26	
		DS4	4.90	5.33	6.49	8.37	
		DS5	5.29	5.37	4.12	5.20	
		US1	4.89	5.33	17.43	14.33	
		US2	5.62	5.91	6.05	5.10	
		MW1	4.34	5.35	3.12	4.98	
		THB1	5.55	5.79	4.00	6.63	
		THB2	-	4.96	14.60	6.97	
		WSR45C	4.88	5.31	6.96	4.46	
		WSR46	4.92	5.90	4.84	5.91	
		Mid-Flood	DS1	6.06	6.01	12.78	15.13
			DS2	6.16	6.29	10.10	12.95
	DS3		6.39	6.44	10.92	12.02	
	DS4		5.55	6.18	10.01	11.10	
	DS5		6.65	6.66	7.50	8.30	
	US1		5.36	5.94	4.05	3.77	
	US2		5.20	6.07	4.38	4.55	
	MW1		4.37	4.53	7.18	11.58	
	THB1		5.50	6.06	11.88	11.43	
	THB2		-	4.98	16.43	5.87	
	WSR45C	4.49	5.10	7.96	9.97		
	WSR46	4.83	5.65	20.78	11.99		
2014/10/05	Mid-Ebb	DS1	4.45	4.89	14.19	13.60	
		DS2	4.39	4.92	7.56	10.02	
		DS3	4.53	4.78	6.57	7.13	
		DS4	4.73	4.74	5.76	8.42	
		DS5	4.84	5.17	7.36	8.54	
		US1	4.29	4.63	10.20	12.60	
		US2	4.42	4.76	12.50	11.29	
		MW1	4.57	4.74	5.24	6.11	
		THB1	5.89	5.96	4.72	7.15	
		THB2	-	4.73	8.33	7.73	
		WSR45C	4.47	5.14	4.99	4.91	
		WSR46	4.61	5.16	9.54	9.66	
		Mid-Flood	DS1	5.50	5.61	5.89	6.37
			DS2	5.35	5.80	11.41	11.07
	DS3		5.18	5.77	10.46	14.47	
	DS4		5.49	5.93	9.57	9.68	
	DS5		5.72	6.37	9.80	14.12	
	US1		4.73	4.99	14.69	16.16	
	US2		4.71	5.38	6.87	8.07	
	MW1		4.49	4.55	11.02	12.97	
	THB1		5.71	5.67	5.07	7.53	
	THB2		-	5.04	13.30	7.77	
	WSR45C	4.51	4.88	8.26	11.72		
	WSR46	4.70	5.24	19.22	14.24		

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)
			Bottom	Surface and Mid Depth		
2014/10/07	Mid-Ebb	DS1	5.86	6.03	8.57	11.85
		DS2	5.14	6.03	6.16	10.54
		DS3	5.01	5.66	6.37	8.80
		DS4	4.78	4.99	12.50	14.67
		DS5	4.70	4.85	14.16	16.34
		US1	5.53	6.18	6.77	15.55
		US2	5.25	5.94	10.00	10.45
		MW1	4.71	4.75	5.73	8.06
		THB1	5.95	6.12	4.10	5.00
		THB2	-	5.12	9.17	5.10
	WSR45C	4.58	5.11	10.89	9.96	
	WSR46	5.11	5.26	18.80	18.07	
	Mid-Flood	DS1	5.19	5.62	12.17	17.58
		DS2	5.78	6.17	25.50	21.47
		DS3	5.61	6.07	16.72	20.32
		DS4	5.40	5.68	15.02	14.67
		DS5	-	6.01	11.57	14.07
		US1	5.51	5.52	12.72	24.85
		US2	5.12	5.11	14.19	18.61
		MW1	4.85	4.88	14.17	15.94
THB1		5.80	6.23	13.35	17.32	
THB2		-	5.93	14.20	7.43	
WSR45C	4.85	4.98	17.59	15.97		
WSR46	4.98	6.10	13.92	16.36		
2014/10/09	Mid-Ebb	DS1	5.27	5.51	11.40	27.10
		DS2	5.24	5.36	8.26	10.40
		DS3	5.03	5.21	10.89	15.13
		DS4	4.98	5.08	29.97	31.53
		DS5	5.03	5.07	27.66	26.86
		US1	5.73	5.78	22.17	21.82
		US2	5.60	5.66	10.60	15.27
		MW1	4.85	4.91	7.63	9.78
		THB1	6.09	6.24	4.70	6.37
		THB2	-	5.92	7.23	8.60
	WSR45C	4.87	5.20	16.47	13.54	
	WSR46	5.11	5.28	15.21	14.38	
	Mid-Flood	DS1	5.61	5.71	11.00	15.02
		DS2	5.80	5.89	15.12	18.80
		DS3	5.78	5.77	20.20	27.80
		DS4	5.77	5.80	12.49	14.00
		DS5	5.76	5.77	16.59	19.38
		US1	5.42	5.47	12.88	13.75
		US2	5.36	5.38	25.03	22.07
		MW1	5.01	5.00	15.37	19.37
THB1		6.00	6.01	13.92	16.52	
THB2		-	5.40	11.43	11.47	
WSR45C	5.10	5.20	33.99	20.21		
WSR46	5.27	5.39	31.89	16.96		
2014/10/11	Mid-Ebb	DS1	5.28	5.39	7.64	9.33
		DS2	5.02	5.10	7.15	8.68
		DS3	5.01	5.20	7.51	7.10
		DS4	4.97	5.41	8.96	7.66

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)
			Bottom	Surface and Mid Depth		
		DS5	4.95	5.36	8.87	8.16
		US1	5.60	5.60	5.95	8.23
		US2	5.50	5.70	6.33	10.05
		MW1	5.15	5.32	5.14	7.66
		THB1	5.67	5.79	5.04	7.23
		THB2	-	5.25	7.00	7.33
		WSR45C	4.91	5.35	11.72	12.76
		WSR46	5.07	5.23	12.50	14.04
	Mid-Flood	DS1	5.29	5.33	8.26	9.05
		DS2	5.23	5.25	20.04	22.35
		DS3	5.31	5.28	9.57	10.99
		DS4	5.42	5.45	8.90	11.54
		DS5	5.60	5.60	7.78	13.10
		US1	5.42	5.39	7.65	8.43
		US2	5.19	5.32	5.60	6.67
		MW1	4.85	4.95	13.50	14.60
		THB1	5.12	5.14	11.81	13.80
		THB2	-	5.02	12.18	7.53
		WSR45C	4.96	5.07	23.38	18.08
		WSR46	5.16	5.32	9.57	9.24
2014/10/13	Mid-Ebb	DS1	5.75	5.83	12.41	17.07
		DS2	5.64	5.79	7.70	9.70
		DS3	5.40	5.69	5.65	8.21
		DS4	5.11	5.54	7.10	10.10
		DS5	5.08	5.54	6.26	8.56
		US1	5.82	5.96	5.85	12.72
		US2	5.78	5.94	7.77	9.48
		MW1	5.16	5.19	4.46	8.08
		THB1	5.93	6.02	9.00	13.90
		THB2	-	6.07	7.36	11.23
		WSR45C	5.06	5.47	6.00	10.49
		WSR46	5.28	5.59	8.39	9.68
	Mid-Flood	DS1	5.61	5.65	13.48	19.07
		DS2	5.60	5.57	20.62	19.62
		DS3	5.73	5.73	11.92	21.15
		DS4	5.99	6.01	8.50	11.11
		DS5	5.85	5.92	8.90	12.71
		US1	5.73	5.70	7.82	11.30
		US2	5.63	5.66	7.00	11.47
		MW1	5.09	5.21	8.84	10.30
		THB1	5.62	5.60	12.57	15.10
		THB2	-	5.34	14.88	10.60
		WSR45C	5.18	5.48	8.22	13.98
		WSR46	5.36	5.63	10.98	11.12
2014/10/15	Mid-Ebb	DS1	5.52	5.76	17.02	17.02
		DS2	5.35	5.58	8.79	10.91
		DS3	5.37	5.56	7.42	9.43
		DS4	5.29	5.43	6.46	10.36
		DS5	5.30	5.48	6.02	8.23
		US1	5.92	5.93	9.09	10.85
		US2	5.80	5.85	5.70	5.87
		MW1	5.11	5.15	3.11	4.51

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)
			Bottom	Surface and Mid Depth		
		THB1	5.87	5.83	5.67	8.95
		THB2	-	5.94	4.26	5.20
		WSR45C	5.26	5.49	5.75	6.97
		WSR46	5.84	6.05	7.28	9.69
	Mid-Flood	DS1	6.14	6.21	16.19	17.10
		DS2	6.08	6.14	13.24	13.80
		DS3	6.22	6.24	8.65	14.25
		DS4	5.56	6.06	9.26	10.86
		DS5	5.91	6.25	6.65	10.56
		US1	5.72	6.03	7.97	9.57
		US2	5.22	6.09	6.26	7.57
		MW1	5.77	5.30	4.40	7.33
		THB1	6.32	6.30	7.58	8.55
		THB2	-	5.54	8.69	7.73
		WSR45C	5.14	5.83	5.14	9.91
		WSR46	5.42	5.67	9.24	14.47
2014/10/18	Mid-Ebb	DS1	6.12	6.12	9.96	13.13
		DS2	6.03	6.10	5.05	7.82
		DS3	5.88	5.89	6.11	10.10
		DS4	5.83	5.90	5.26	7.72
		DS5	6.01	6.06	3.77	6.68
		US1	6.30	6.27	13.08	15.10
		US2	6.34	6.38	9.20	14.73
		MW1	5.25	5.36	2.06	6.42
		THB1	6.28	6.24	4.82	8.05
		THB2	-	5.61	8.66	5.83
		WSR45C	5.48	5.92	4.43	8.20
		WSR46	5.97	6.59	6.11	10.07
	Mid-Flood	DS1	6.95	7.54	9.76	18.80
		DS2	7.27	7.32	8.98	13.98
		DS3	6.62	6.66	10.69	14.98
		DS4	6.77	6.82	8.92	12.11
		DS5	6.79	7.10	5.33	7.83
		US1	7.12	7.65	15.08	15.40
		US2	6.57	7.49	6.61	9.63
		MW1	5.30	5.45	5.50	8.26
		THB1	6.65	7.05	12.25	13.52
		THB2	-	6.65	9.02	10.70
		WSR45C	5.33	6.47	5.59	7.81
		WSR46	6.19	6.99	19.57	13.79
2014/10/20	Mid-Ebb	DS1	6.71	6.82	9.71	14.10
		DS2	6.81	7.05	6.43	12.06
		DS3	6.55	7.12	6.21	10.36
		DS4	6.14	7.20	5.79	8.38
		DS5	6.13	7.20	6.14	8.77
		US1	7.39	7.58	7.24	14.05
		US2	7.66	7.83	5.64	10.45
		MW1	5.58	5.68	4.18	6.33
		THB1	7.61	7.87	6.50	11.13
		THB2	-	6.90	12.15	6.53
		WSR45C	6.03	7.07	3.83	6.18
		WSR46	6.93	8.17	6.26	8.93

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)		
			Bottom	Surface and Mid Depth				
	Mid-Flood	DS1	8.23	8.73	7.76	16.58		
		DS2	8.58	8.62	23.52	26.83		
		DS3	8.36	8.28	18.80	23.38		
		DS4	8.61	8.71	9.38	14.14		
		DS5	9.24	9.37	5.29	9.56		
		US1	7.22	8.01	13.17	19.26		
		US2	7.20	7.98	7.18	8.54		
		MW1	5.78	5.93	8.97	12.92		
		THB1	7.64	7.68	19.25	21.20		
		THB2	-	7.83	10.29	8.30		
		WSR45C	6.38	7.33	9.72	12.32		
		WSR46	6.71	7.52	11.91	14.59		
		2014/10/22	Mid-Ebb	DS1	8.56	8.64	8.10	11.60
				DS2	8.25	8.49	7.21	10.89
DS3	7.74			7.93	12.92	15.30		
DS4	7.07			7.96	10.48	13.10		
DS5	7.32			8.06	9.81	12.99		
US1	8.76			8.76	5.47	6.73		
US2	8.62			8.76	6.47	8.65		
MW1	6.29			6.57	7.32	11.84		
THB1	8.54			8.78	6.29	7.63		
THB2	-			7.26	7.23	7.13		
WSR45C	7.58			8.30	7.01	7.52		
WSR46	7.02			8.20	7.67	10.81		
	Mid-Flood			DS1	7.87	7.86	48.20	28.87
				DS2	7.94	7.95	33.92	23.62
		DS3	8.35	8.26	20.58	19.69		
		DS4	8.17	8.25	10.14	12.72		
		DS5	-	8.79	5.41	7.40		
		US1	8.08	8.19	11.27	15.85		
		US2	6.80	8.03	12.99	15.09		
		MW1	5.67	5.77	15.19	18.88		
		THB1	7.99	8.01	84.99	23.27		
		THB2	-	7.38	20.97	8.23		
		WSR45C	6.29	7.07	10.34	13.58		
		WSR46	7.13	8.18	15.51	15.66		
		2014/10/24	Mid-Ebb	DS1	6.01	6.06	8.85	11.94
				DS2	5.82	5.87	11.19	15.21
DS3	5.74			5.99	10.78	14.24		
DS4	5.78			6.03	12.25	15.40		
DS5	5.65			5.91	11.29	15.83		
US1	6.04			6.11	12.03	12.88		
US2	6.37			6.39	6.64	9.10		
MW1	5.70			5.76	6.59	27.40		
THB1	5.79			5.92	13.11	13.97		
THB2	-			6.04	9.05	11.77		
WSR45C	5.59		5.88	13.23	25.24			
WSR46	5.94		6.01	14.58	22.64			
Mid-Flood	DS1		6.01	5.98	17.00	21.23		
	DS2		6.10	6.20	12.17	13.13		
	DS3	6.15	6.37	10.11	12.13			
	DS4	6.10	6.32	10.30	12.20			

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)
			Bottom	Surface and Mid Depth		
		DS5	6.21	6.25	9.97	9.19
		US1	6.08	6.09	15.10	23.41
		US2	6.03	6.04	14.27	17.93
		MW1	5.70	5.81	12.00	14.09
		THB1	5.89	6.19	12.69	16.20
		THB2	-	5.49	8.69	12.83
		WSR45C	6.05	6.09	22.18	22.70
		WSR46	6.00	6.02	13.49	15.69
2014/10/27	Mid-Ebb	DS1	5.88	5.89	9.07	11.90
		DS2	5.71	5.87	11.05	23.61
		DS3	5.59	5.95	10.71	13.87
		DS4	5.56	5.99	9.84	12.96
		DS5	5.52	5.90	10.34	12.29
		US1	6.05	6.14	11.78	14.53
		US2	6.13	6.21	10.51	13.02
		MW1	5.54	5.66	5.18	9.97
		THB1	5.99	6.05	9.08	13.63
		THB2	-	5.44	11.52	10.23
		WSR45C	5.49	5.81	9.53	11.83
		WSR46	5.85	5.93	18.66	19.87
	Mid-Flood	DS1	5.74	5.79	13.92	14.78
		DS2	5.71	5.71	22.84	24.67
		DS3	5.78	5.80	14.98	19.85
		DS4	5.80	5.89	13.48	14.53
		DS5	5.82	5.84	10.88	14.42
		US1	5.85	5.86	10.09	12.88
		US2	5.72	5.76	11.24	12.50
		MW1	5.46	5.58	11.95	14.76
		THB1	5.60	5.60	13.72	15.53
		THB2	-	5.47	8.95	8.87
		WSR45C	5.68	5.72	24.87	19.52
		WSR46	5.75	5.80	13.00	19.10
2014/10/29	Mid-Ebb	DS1	6.02	6.02	10.12	12.69
		DS2	6.11	6.12	8.38	12.00
		DS3	5.82	5.97	7.95	10.89
		DS4	5.66	5.88	10.31	12.19
		DS5	5.67	5.82	8.50	11.37
		US1	6.36	6.30	14.22	14.27
		US2	6.43	6.40	10.04	11.13
		MW1	5.64	5.67	4.48	9.14
		THB1	6.21	6.20	11.71	11.53
		THB2	-	6.57	10.22	10.57
		WSR45C	5.59	5.74	7.83	11.07
		WSR46	6.17	6.18	11.01	14.59
	Mid-Flood	DS1	6.28	6.28	14.67	16.47
		DS2	6.25	6.20	17.58	22.43
		DS3	6.24	6.21	21.15	21.05
		DS4	6.42	6.39	11.02	13.61
		DS5	6.38	6.39	9.65	12.30
		US1	6.20	6.18	8.81	12.43
		US2	6.10	6.06	8.86	11.67
		MW1	5.70	5.74	8.47	13.53

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity Level (NTU)	Average SS Level (mg/L)
			Bottom	Surface and Mid Depth		
		THB1	5.94	5.97	19.35	18.70
		THB2	-	6.17	16.57	12.63
		WSR45C	6.01	6.01	11.48	16.09
		WSR46	6.08	6.10	7.05	10.58
2014/10/31	Mid-Ebb	DS1	5.90	5.95	7.87	-
		DS2	5.81	5.94	9.90	-
		DS3	5.78	5.80	6.71	-
		DS4	5.71	5.85	5.39	-
		DS5	5.68	5.81	6.24	-
		US1	6.12	6.08	9.71	-
		US2	6.28	6.21	17.35	-
		MW1	5.68	5.69	3.86	-
		THB1	6.06	6.09	12.52	-
		THB2	-	6.04	8.85	-
		WSR45C	5.61	5.90	5.05	-
		WSR46	5.82	6.09	9.11	-
	Mid-Flood	DS1	6.12	6.16	9.44	-
		DS2	6.12	6.23	12.97	-
		DS3	6.07	6.19	15.11	-
		DS4	6.30	6.29	11.89	-
		DS5	6.47	6.44	9.32	-
		US1	5.93	5.94	14.28	-
		US2	5.84	6.14	8.44	-
		MW1	5.71	5.77	5.79	-
		THB1	6.03	6.10	20.41	-
		THB2	-	6.20	11.29	-
		WSR45C	5.74	5.90	9.87	-
		WSR46	5.82	5.97	19.21	-

Notes:

1. Please refer to Table C2 below for the Action and Limit Levels for dredging activities.
2. Cell shaded yellow indicated value exceeding the Action Level criteria.
3. Cell shaded red indicated value exceeding the Limit Level criteria.
4. Only mid-depth water was sampled at Station THB2 because water depth was less than 3m.
5. SS laboratory analysis on 31/10/2014 is still in progress and will be discussed in the next monthly report.

**Table C2 Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities**

<b>Parameter</b>	<b>Action Level</b>	<b>Limit Level</b>
Dissolved Oxygen (DO) <sup>(1)</sup>	<u>Surface and Mid-depth</u> <sup>(2)</sup> The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for surface and middle layer = <b>4.32 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)	<u>Surface and Mid-depth</u> <sup>(2)</sup> The average of the impact, WSR 45C and WSR 46 station readings are < <b>4 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)
	<u>Bottom</u> The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for bottom layers = <b>3.12 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)	<u>Bottom</u> The average of the impact station, WSR 45C and WSR 46 readings are < <b>2 mg L<sup>-1</sup></b>  and  Significantly less than the reference stations mean DO (at the same tide of the same day)
Depth-averaged Suspended Solids (SS) <sup>(3)(4)</sup>	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data for depth average = <b>21.60 mg L<sup>-1</sup></b>  and  120% of control station's SS at the same tide of the same day	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data for depth average = <b>40.10 mg L<sup>-1</sup></b>  and  130% of control station's SS at the same tide of the same day
Depth-averaged Turbidity (Tby) <sup>(3)(4)</sup>	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data = <b>25.04 NTU</b>  and  120% of control station's Tby at the same tide of the same day	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data = <b>32.68 NTU</b>  and  130% of control station's Tby at the same tide of the same day

**Notes:**

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.
- (3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.



**Table C3**      **Water Column Profiling Results for CMP 1 on 8 October 2014**

Stations	Temp (°C)	Salinity (ppt)	Turbidity (NTU)	Dissolved Oxygen		pH (mg L <sup>-1</sup> )	Suspended Solids (mg L <sup>-1</sup> )
				(%)	(mg L <sup>-1</sup> )	(mg L <sup>-1</sup> )	
WCP 1 (Downstream)	28.81	28.92	17.28	76.58	5.04	7.80	15.10
WCP 2 (Upstream)	28.74	28.39	5.95	88.87	5.87	7.80	8.43
WQO (wet season)	N/A	25.79- 31.23#	N/A	N/A	>4	6.5-8.5	12.00

**Note:** #Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.