

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:22	8	Surface	1	20.8 20.4	20.6	8.2 8.2	8.2	25.7 26.0	25.9	111.1 110.5	110.8	8.6 8.6	8.6	8.5	2.3 2.5	2.4	2.8	3.4 4.4	3.9	3.6
					Middle	4	20.1 20.1	20.1	8.2 8.2	8.2	29.3 29.4	29.4	108.8 107.6	108.2	8.3 8.2	8.3		3.1 3.3	3.2		2.6 3.5	3.1	
					Bottom	7	20.1 20.1	20.1	8.2 8.2	8.2	29.4 29.4	29.4	106.8 109.3	108.1	8.2 8.3	8.2	8.2	2.9 2.8	2.9		4.1 3.6	3.9	
5-Apr-12	Cloudy	Moderate	13:05	6	Surface	1	20.7 20.7	20.7	8.1 8.1	8.1	27.2 27.4	27.3	102.8 102.6	102.7	7.9 7.8	7.8	7.8	4.2 4.5	4.4	5.6	5.4 6.5	6.0	6.7
					Middle	3	20.5 20.5	20.5	8.1 8.1	8.1	28.1 28.6	28.4	102.2 102.7	102.5	7.8 7.8	7.8		6.6 6.3	6.5		5.8 7.1	6.5	
					Bottom	5	20.7 20.5	20.6	8.1 8.1	8.1	29.4 28.7	29.0	102.1 102.4	102.3	7.7 7.8	7.8	7.8	5.8 5.7	5.8		7.0 8.2	7.6	
7-Apr-12	Fine	Moderate	14:14	6	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.2 27.2	27.2	96.5 96.9	96.7	7.4 7.4	7.4	7.4	6.2 6.0	6.1	7.0	8.3 8.3	8.3	8.1
					Middle	3	20.4 20.4	20.4	8.2 8.2	8.2	28.6 28.5	28.5	97.7 96.5	97.1	7.5 7.4	7.4		7.4 7.1	7.3		9.4 8.2	8.8	
					Bottom	5	20.4 20.3	20.3	8.2 8.2	8.2	28.8 29.0	28.9	96.1 98.3	97.2	7.3 7.5	7.4	7.4	7.5 7.4	7.5		6.8 7.7	7.3	
9-Apr-12	Sunny	Moderate	13:58	6	Surface	1	21.1 21.0	21.0	8.1 8.1	8.1	28.3 28.4	28.3	95.2 95.5	95.4	7.2 7.2	7.2	7.2	8.6 8.5	8.6	9.6	9.2 8.5	8.9	9.2
					Middle	3	20.9 20.8	20.8	8.1 8.1	8.1	28.5 28.6	28.5	94.9 95.7	95.3	7.2 7.3	7.2		8.8 9.2	9.0		9.6 8.7	9.2	
					Bottom	5	20.7 20.4	20.6	8.1 8.2	8.2	28.9 29.4	29.1	94.4 95.4	94.9	7.2 7.2	7.2	7.2	11.0 11.3	11.2		9.1 10.1	9.6	
11-Apr-12	Sunny	Moderate	16:04	6	Surface	1	22.1 22.2	22.2	8.0 8.0	8.0	26.3 26.2	26.2	93.4 93.4	93.4	7.0 7.0	7.0	7.0	11.4 11.2	11.3	12.8	10.5 10.2	10.4	12.8
					Middle	3	21.7 21.6	21.6	8.1 8.1	8.1	27.0 27.3	27.2	92.5 91.9	92.2	7.0 6.9	6.9		13.9 13.3	13.6		16.3 17.0	16.7	
					Bottom	5	21.6 21.5	21.5	8.1 8.1	8.1	27.4 27.7	27.6	92.2 92.4	92.3	6.9 6.9	6.9	6.9	13.6 13.6	13.6		10.9 11.7	11.3	
13-Apr-12	Sunny	Moderate	17:34	8	Surface	1	22.9 23.0	22.9	8.0 8.0	8.0	24.2 24.2	24.2	96.7 96.2	96.5	7.2 7.2	7.2	7.2	4.9 4.3	4.6	4.8	6.8 5.7	6.3	6.2
					Middle	4	23.0 23.0	23.0	8.1 8.1	8.1	25.2 25.8	25.5	98.4 95.8	97.1	7.3 7.1	7.2		4.5 4.5	4.5		5.4 4.8	5.1	
					Bottom	7	22.9 22.0	22.4	8.1 8.1	8.1	27.9 28.4	28.2	97.5 95.5	96.5	7.1 7.1	7.1	7.1	5.4 5.2	5.3		7.6 6.6	7.1	
16-Apr-12	Fine	Moderate	11:48	7	Surface	1	25.2 25.2	25.2	8.1 8.1	8.1	18.7 18.8	18.7	99.3 102.2	100.8	7.4 7.6	7.5	7.4	2.3 2.3	2.3	3.1	2.4 3.4	2.9	2.7
					Middle	4	23.6 23.6	23.6	8.0 8.0	8.0	24.0 24.1	24.1	96.9 98.4	97.7	7.2 7.3	7.2		2.5 2.7	2.6		2.3 3.1	2.7	
					Bottom	6	23.2 23.3	23.3	8.0 8.0	8.0	25.5 25.4	25.5	94.2 94.8	94.5	7.0 7.0	7.0	7.0	4.6 4.1	4.4		2.5 2.4	2.5	
18-Apr-12	Fine	Moderate	12:46	6	Surface	1	23.1 22.8	23.0	8.0 8.0	8.0	24.7 23.8	24.2	92.7 90.7	91.7	6.9 6.8	6.9	6.9	4.4 4.6	4.5	5.4	3.1 2.8	3.0	3.2
					Middle	3	23.2 22.8	23.0	8.0 8.0	8.0	25.1 25.5	25.3	91.2 91.2	91.2	6.8 6.8	6.8		5.4 5.0	5.2		3.3 3.5	3.4	
					Bottom	5	22.8 22.9	22.9	8.0 8.0	8.0	27.0 27.2	27.1	89.8 90.2	90.0	6.6 6.6	6.6	6.6	6.6 6.3	6.5		3.7 2.5	3.1	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:22	6	Surface	1	23.4 23.2	23.3	8.0 8.0	8.0	22.3 24.7	23.5	85.7 85.9	85.8	6.4 6.4	6.4	6.4	11.3 11.6	11.5	15.1	12.2 11.8	12.0	10.0
					Middle	3	23.1 23.1	23.1	8.0 8.0	8.0	25.1 25.2	25.1	87.6 85.8	86.7	6.5 6.4	6.4		12.2 12.6	12.4		8.3 6.2	7.3	
					Bottom	5	23.1 23.1	23.1	8.1 8.1	8.1	25.7 25.8	25.8	85.4 88.6	87.0	6.3 6.5	6.4	6.4	21.5 21.1	21.3		9.8 11.5	10.7	
25-Apr-12	Fine	Moderate	14:36	7	Surface	1	24.5 24.4	24.4	8.0 8.0	8.0	18.8 18.8	18.8	92.5 91.8	92.2	6.9 6.9	6.9	6.9	8.8 9.1	9.0	11.1	6.8 6.1	6.5	6.9
					Middle	4	24.0 24.0	24.0	8.0 8.0	8.0	21.1 21.1	21.1	91.1 90.6	90.9	6.8 6.8	6.8		10.7 10.6	10.7		5.9 7.7	6.8	
					Bottom	6	24.2 23.8	24.0	8.0 8.0	8.0	21.8 22.4	22.1	91.9 90.7	91.3	6.8 6.7	6.8	6.8	13.5 13.4	13.5		8.0 6.9	7.5	
27-Apr-12	Rainy	Moderate	15:50	6	Surface	1	23.3 23.2	23.2	8.3 8.2	8.2	26.7 26.8	26.7	97.9 102.4	100.2	7.2 7.5	7.3	7.3	3.3 3.5	3.4	4.7	3.0 3.3	3.2	4.1
					Middle	3	23.2 23.3	23.3	8.2 8.2	8.2	27.2 26.9	27.0	98.4 101.5	100.0	7.2 7.4	7.3		3.8 3.7	3.8		3.3 5.3	4.3	
					Bottom	5	23.0 23.1	23.0	8.2 8.2	8.2	28.6 29.0	28.8	96.1 96.4	96.3	7.0 7.0	7.0	7.0	7.1 6.9	7.0		5.3 4.0	4.7	
30-Apr-12	Cloudy	Moderate	18:52	6	Surface	1	26.0 25.9	25.9	8.2 8.1	8.1	15.7 16.3	16.0	99.4 109.9	104.7	7.4 8.2	7.8	7.8	1.4 1.5	1.5	1.6	6.3 3.9	5.1	3.1
					Middle	3	25.9 25.8	25.8	8.1 8.1	8.1	19.4 18.1	18.8	103.1 107.4	105.3	7.5 7.9	7.7		1.3 1.3	1.3		2.6 2.2	2.4	
					Bottom	5	24.2 24.9	24.6	8.0 8.0	8.0	22.8 22.5	22.6	90.7 100.1	95.4	6.7 7.3	7.0	7.0	1.9 1.9	1.9		1.9 1.7	1.8	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:26	6	Surface	1	21.9 22.5	22.2	8.2 8.2	8.2	25.2 24.8	25.0	121.5 120.0	120.8	9.2 9.0	9.1	9.1	2.3 2.2	2.3	3.2	2.4 3.2	2.8	3.2
					Middle	3	21.1 21.2	21.1	8.2 8.2	8.2	25.9 25.9	25.9	116.4 118.1	117.3	8.9 9.0	9.0		3.6 3.8	3.7		3.0 2.7	2.9	
					Bottom	5	21.0 20.9	21.0	8.2 8.2	8.2	26.0 26.1	26.0	115.4 118.7	117.1	8.9 9.1	9.0	9.0	3.4 3.5	3.5		3.3 4.4	3.9	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	18:48	6	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.5 27.5	27.5	92.7 92.9	92.8	7.1 7.1	7.1	7.1	8.6 8.7	8.7	8.5	7.2 4.6	5.9	6.2
					Middle	3	20.5 20.5	20.5	8.1 8.1	8.1	27.6 27.6	27.6	92.8 92.6	92.7	7.1 7.1	7.1		8.2 8.3	8.3		6.1 6.4	6.3	
					Bottom	5	20.5 20.5	20.5	8.1 8.1	8.1	27.6 27.7	27.7	92.6 93.0	92.8	7.1 7.1	7.1	7.1	8.5 8.3	8.4		5.9 6.9	6.4	
9-Apr-12	Sunny	Moderate	08:57	7	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.0 28.0	28.0	92.6 92.9	92.8	7.1 7.1	7.1	7.1	11.3 11.3	11.3	12.5	19.2 19.7	19.5	21.8
					Middle	4	20.5 20.5	20.5	8.1 8.1	8.1	28.0 28.0	28.0	92.6 92.3	92.5	7.1 7.1	7.1		11.6 11.6	11.6		25.1 23.5	24.3	
					Bottom	6	20.5 20.5	20.5	8.1 8.1	8.1	28.0 28.0	28.0	92.4 92.9	92.7	7.1 7.1	7.1	7.1	14.6 14.7	14.7		21.0 22.2	21.6	
11-Apr-12	Fine	Moderate	10:02	6	Surface	1	21.7 21.7	21.7	8.0 8.0	8.0	25.4 25.5	25.4	90.2 90.5	90.4	6.8 6.9	6.9	6.9	12.7 13.4	13.1	15.3	16.3 16.5	16.4	21.6
					Middle	3	21.6 21.6	21.6	8.0 8.0	8.0	26.1 26.2	26.2	90.4 90.0	90.2	6.8 6.8	6.8		16.1 16.4	16.3		24.9 24.0	24.5	
					Bottom	5	21.5 21.6	21.6	8.0 8.0	8.0	27.0 26.1	26.6	90.6 90.0	90.3	6.8 6.8	6.8	6.8	16.5 16.5	16.5		24.0 23.8	23.9	
13-Apr-12	Sunny	Moderate	12:07	8	Surface	1	23.0 23.2	23.1	8.0 7.9	8.0	24.1 24.0	24.1	93.3 98.3	95.8	7.0 7.3	7.1	7.1	3.6 3.4	3.5	4.1	4.1 4.8	4.5	5.0
					Middle	4	22.6 22.8	22.7	8.0 8.0	8.0	25.5 24.8	25.2	92.2 95.3	93.8	6.9 7.1	7.0		4.5 4.0	4.3		3.6 5.0	4.3	
					Bottom	7	22.5 22.3	22.4	8.0 8.0	8.0	25.5 26.3	25.9	92.7 90.6	91.7	6.9 6.8	6.9	6.9	4.7 4.3	4.5		5.7 6.6	6.2	
16-Apr-12	Rainy	Moderate	14:49	6	Surface	1	25.2 25.3	25.2	8.1 8.1	8.1	18.7 18.4	18.5	102.3 106.1	104.2	7.6 7.9	7.7	7.8	2.3 1.9	2.1	2.6	2.4 2.8	2.6	3.0
					Middle	3	25.1 24.6	24.9	8.1 8.0	8.1	19.0 20.8	19.9	105.2 105.6	105.4	7.8 7.8	7.8		2.5 3.1	2.8		3.8 4.5	4.2	
					Bottom	5	24.0 24.8	24.4	8.0 8.0	8.0	23.5 22.7	23.1	101.9 104.8	103.4	7.5 7.6	7.6	7.6	2.9 2.7	2.8		2.2 2.1	2.2	
18-Apr-12	Fine	Moderate	16:57	6	Surface	1	23.6 23.6	23.6	7.9 8.0	8.0	21.6 21.6	21.6	94.7 92.7	93.7	7.1 6.9	7.0	7.0	2.8 3.1	3.0	3.0	6.3 4.1	5.2	4.6
					Middle	3	23.6 23.4	23.5	8.0 8.0	8.0	22.6 23.0	22.8	92.4 92.5	92.5	6.9 6.9	6.9		2.9 3.1	3.0		5.2 4.3	4.8	
					Bottom	5	23.3 23.5	23.4	8.0 8.0	8.0	23.7 23.8	23.8	91.9 91.8	91.9	6.8 6.8	6.8	6.8	3.3 2.9	3.1		3.8 3.9	3.9	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:15	7	Surface	1	24.1 24.0	24.1	7.9 7.9	7.9	18.2 18.2	18.2	83.8 84.4	84.1	6.3 6.4	6.4	6.4	6.6 6.7	6.7	7.8	5.3 5.7	5.5	5.8
					Middle	4	23.7 23.7	23.7	8.0 8.0	8.0	21.2 20.9	21.0	83.2 84.4	83.8	6.2 6.3	6.3		7.5 7.5	7.5		6.6 6.2	6.4	
					Bottom	6	23.8 23.7	23.8	7.9 8.0	8.0	21.3 21.4	21.4	83.5 85.6	84.6	6.2 6.4	6.3		9.3 9.1	9.2		5.7 5.5	5.6	
25-Apr-12	Rainy	Moderate	09:10	7	Surface	1	24.3 24.3	24.3	7.9 7.9	7.9	17.6 17.4	17.5	87.2 86.9	87.1	6.6 6.6	6.6	6.6	5.1 5.4	5.3	7.5	6.4 5.0	5.7	5.7
					Middle	4	24.1 24.1	24.1	8.0 8.0	8.0	19.1 19.3	19.2	87.7 87.0	87.4	6.6 6.5	6.6		5.4 5.3	5.4		6.0 5.8	5.9	
					Bottom	6	24.0 24.0	24.0	8.0 8.0	8.0	21.8 21.7	21.7	87.0 88.1	87.6	6.5 6.6	6.5		11.5 11.9	11.7		5.9 5.2	5.6	
27-Apr-12	Cloudy	Moderate	09:49	8	Surface	1	23.5 23.2	23.3	8.1 8.1	8.1	24.6 26.0	25.3	92.1 102.3	97.2	6.8 7.5	7.2	7.0	3.7 3.5	3.6	4.7	4.1 4.7	4.4	5.3
					Middle	4	23.2 23.4	23.3	8.2 8.2	8.2	26.9 26.3	26.6	95.7 91.3	93.5	7.0 6.7	6.8		4.6 4.6	4.6		5.5 7.4	6.5	
					Bottom	7	23.3 23.2	23.2	8.2 8.2	8.2	27.3 27.0	27.2	90.3 93.5	91.9	6.6 6.8	6.7		5.8 5.8	5.8		5.1 4.7	4.9	
30-Apr-12	Cloudy	Moderate	14:09	6	Surface	1	26.3 26.4	26.3	8.0 7.7	7.8	14.9 14.9	14.9	97.6 95.8	96.7	7.3 7.1	7.2	7.1	1.7 1.7	1.7	1.7	4.7 3.2	4.0	2.6
					Middle	3	25.7 26.1	25.9	8.0 7.9	7.9	16.1 16.9	16.5	93.1 95.5	94.3	6.9 7.0	7.0		1.7 1.7	1.7		2.9 2.0	2.5	
					Bottom	5	26.2 24.8	25.5	8.0 8.0	8.0	20.0 21.8	20.9	97.5 92.6	95.1	7.2 6.8	7.0		1.6 1.7	1.7		<0.5 1.9	1.2	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS4 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	10:37	18	Surface	1	20.5 20.7	20.6	8.2 8.2	8.2	27.2 26.5	26.9	108.6 110.0	109.3	8.3 8.5	8.4	8.2	1.5 1.6	1.6	1.6	2.8 2.4	2.6	3.1
					Middle	9	19.8 19.8	19.8	8.2 8.2	8.2	29.7 29.7	29.7	104.6 104.4	104.5	8.0 8.0	8.0		1.6 1.6	1.6		2.3 3.2	2.8	
					Bottom	17	19.6 19.6	19.6	8.2 8.2	8.2	30.1 30.1	30.1	103.5 102.4	103.0	7.9 7.9	7.9	7.9	1.6 1.7	1.7		2.5 5.1	3.8	
5-Apr-12	Cloudy	Moderate	12:18	18	Surface	1	20.8 20.6	20.7	8.1 8.1	8.1	26.7 26.8	26.8	102.0 101.4	101.7	7.8 7.8	7.8	7.7	3.6 3.4	3.5	4.3	4.5 4.3	4.4	4.9
					Middle	9	20.4 20.5	20.4	8.1 8.1	8.1	28.8 28.7	28.8	100.3 100.2	100.3	7.6 7.6	7.6		3.2 3.3	3.3		4.6 5.5	5.1	
					Bottom	17	20.2 20.2	20.2	8.2 8.2	8.2	29.2 29.2	29.2	98.8 99.4	99.1	7.5 7.6	7.6	7.6	5.8 6.1	6.0		4.5 5.7	5.1	
7-Apr-12	Fine	Moderate	13:40	18	Surface	1	20.6 20.6	20.6	8.1 8.1	8.1	27.1 27.0	27.1	94.0 94.2	94.1	7.2 7.2	7.2	7.2	6.2 6.2	6.2	7.8	7.8 9.3	8.6	8.3
					Middle	9	20.4 20.4	20.4	8.1 8.1	8.1	28.1 28.3	28.2	94.0 94.7	94.4	7.2 7.2	7.2		8.4 8.7	8.6		9.2 7.6	8.4	
					Bottom	17	20.3 20.3	20.3	8.1 8.1	8.1	28.9 29.0	28.9	94.7 92.8	93.8	7.2 7.1	7.1	7.1	8.9 8.4	8.7		7.6 8.1	7.9	
9-Apr-12	Sunny	Moderate	14:44	19	Surface	1	21.2 21.4	21.3	8.0 8.0	8.0	26.8 26.7	26.8	91.8 92.0	91.9	7.0 7.0	7.0	7.0	8.8 8.7	8.8	8.7	9.0 7.1	8.1	8.0
					Middle	10	20.5 20.5	20.5	8.1 8.1	8.1	28.2 28.2	28.2	90.2 90.5	90.4	6.9 6.9	6.9		8.4 8.6	8.5		8.3 7.0	7.7	
					Bottom	18	20.4 20.5	20.5	8.1 8.1	8.1	28.4 28.4	28.4	90.0 89.6	89.8	6.9 6.8	6.9	6.9	8.5 8.8	8.7		8.0 8.2	8.1	
11-Apr-12	Sunny	Moderate	17:10	18	Surface	1	22.8 22.8	22.8	7.9 7.9	7.9	24.0 24.0	24.0	90.3 90.5	90.4	6.8 6.8	6.8	6.7	6.1 6.1	6.1	6.9	6.2 6.6	6.4	7.8
					Middle	9	21.6 21.7	21.6	8.0 8.0	8.0	26.2 26.1	26.2	87.8 87.7	87.8	6.6 6.6	6.6		7.4 7.3	7.4		7.0 5.9	6.5	
					Bottom	17	21.5 21.2	21.3	8.0 8.0	8.0	27.8 28.0	27.9	87.4 88.2	87.8	6.6 6.6	6.6	6.6	7.4 7.2	7.3		10.9 9.9	10.4	
13-Apr-12	Sunny	Moderate	18:17	19	Surface	1	23.8 23.8	23.8	8.0 8.0	8.0	24.4 22.4	23.4	102.9 97.2	100.1	7.6 7.2	7.4	7.2	2.9 2.8	2.9	4.6	4.9 5.8	5.4	5.1
					Middle	10	21.9 22.0	22.0	8.0 8.0	8.0	27.4 27.3	27.4	92.1 94.9	93.5	6.9 7.1	7.0		3.2 3.4	3.3		5.4 6.0	5.7	
					Bottom	18	21.5 21.5	21.5	8.0 8.0	8.0	28.6 28.6	28.6	87.9 87.2	87.6	6.6 6.5	6.5	6.5	7.4 7.7	7.6		4.6 3.9	4.3	
16-Apr-12	Fine	Moderate	11:03	19	Surface	1	24.6 24.5	24.6	8.0 8.0	8.0	20.9 21.2	21.0	98.5 100.7	99.6	7.3 7.5	7.4	7.2	1.3 1.3	1.3	2.0	1.4 0.5	1.0	3.4
					Middle	10	23.0 22.6	22.8	8.0 8.0	8.0	26.8 27.3	27.0	95.0 92.9	94.0	7.0 6.9	6.9		1.7 1.7	1.7		5.3 2.9	4.1	
					Bottom	18	22.0 21.9	22.0	8.1 8.1	8.1	29.3 29.4	29.4	88.0 86.1	87.1	6.5 6.4	6.4	6.4	2.8 2.9	2.9		4.3 6.1	5.2	
18-Apr-12	Fine	Moderate	12:04	17	Surface	1	23.4 23.4	23.4	8.0 8.0	8.0	23.5 23.5	23.5	92.8 95.4	94.1	6.9 7.1	7.0	6.9	3.1 2.6	2.9	3.6	3.8 5.0	4.4	4.2
					Middle	9	23.0 22.8	22.9	8.1 8.1	8.1	27.1 27.4	27.2	92.4 91.2	91.8	6.8 6.7	6.7		2.5 2.3	2.4		4.3 3.7	4.0	
					Bottom	16	22.5 22.6	22.6	8.1 8.1	8.1	28.6 28.8	28.7	88.5 88.9	88.7	6.5 6.5	6.5	6.5	5.7 5.0	5.4		4.3 3.8	4.1	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS4 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	14:25	18	Surface	1	23.8 23.8	23.8	8.0 8.0	8.0	21.7 21.7	21.7	85.3 84.4	84.9	6.4 6.3	6.3	6.2	4.2 4.4	4.3	6.2	4.5 4.9	4.7	5.0
					Middle	9	23.0 23.2	23.1	8.0 8.0	8.0	25.2 25.3	25.3	81.9 81.3	81.6	6.1 6.0	6.0		7.2 7.0	7.1		4.5 5.7	5.1	
					Bottom	17	22.9 22.8	22.9	8.1 8.1	8.1	26.9 27.0	27.0	81.7 83.1	82.4	6.0 6.1	6.1	6.1	7.2 7.3	7.3		4.9 5.5	5.2	
25-Apr-12	Fine	Moderate	15:22	17	Surface	1	24.5 24.6	24.6	7.9 7.9	7.9	16.8 16.8	16.8	85.1 88.0	86.6	6.5 6.7	6.6	6.3	5.9 5.6	5.8	10.5	5.2 4.8	5.0	4.9
					Middle	9	23.4 23.4	23.4	8.0 8.0	8.0	24.9 25.0	25.0	81.0 81.6	81.3	6.0 6.0	6.0		11.1 11.1	11.1		5.5 4.4	5.0	
					Bottom	16	23.5 23.4	23.4	8.0 8.0	8.0	25.2 25.1	25.1	83.6 81.4	82.5	6.2 6.0	6.1	6.1	14.7 14.5	14.6		3.8 5.7	4.8	
27-Apr-12	Rainy	Moderate	16:29	19	Surface	1	23.9 23.8	23.9	8.1 8.1	8.1	23.4 24.1	23.8	95.0 102.0	98.5	7.0 7.5	7.3	7.0	1.8 1.7	1.8	3.1	2.5 2.7	2.6	3.1
					Middle	10	23.3 23.5	23.4	8.1 8.1	8.1	27.3 26.9	27.1	88.9 92.4	90.7	6.5 6.7	6.6		3.7 3.5	3.6		3.5 3.9	3.7	
					Bottom	18	23.2 23.4	23.3	8.2 8.1	8.2	27.9 27.3	27.6	84.8 89.7	87.3	6.2 6.5	6.4	6.4	3.7 3.8	3.8		3.2 3.0	3.1	
30-Apr-12	Cloudy	Moderate	19:32	17	Surface	1	26.5 26.4	26.4	8.2 8.3	8.2	12.6 12.6	12.6	106.0 105.0	105.5	7.9 7.9	7.9	7.7	2.2 2.3	2.3	2.6	2.9 3.2	3.1	3.2
					Middle	9	24.0 23.9	24.0	8.1 8.1	8.1	25.2 26.2	25.7	97.5 106.9	102.2	7.1 7.8	7.4		2.4 2.4	2.4		2.9 4.3	3.6	
					Bottom	16	23.5 23.5	23.5	8.0 8.1	8.1	28.4 28.2	28.3	92.6 87.5	90.1	6.7 6.3	6.5	6.5	3.3 3.1	3.2		2.9 2.6	2.8	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS4 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:19	18	Surface	1	20.7 20.5	20.6	8.2 8.2	8.2	26.4 27.5	27.0	107.7 105.6	106.7	8.3 8.1	8.2	8.0	3.7 3.9	3.8	5.4	6.4 4.7	5.6	5.1
					Middle	9	19.7 19.6	19.7	8.1 8.2	8.2	29.9 30.0	30.0	101.5 98.5	100.0	7.8 7.6	7.7		5.8 6.0	5.9		5.0 3.0	4.0	
					Bottom	17	19.5 19.5	19.5	8.1 8.1	8.1	30.3 30.2	30.3	97.6 102.5	100.1	7.5 7.9	7.7	7.7	6.2 6.5	6.4		5.0 6.5	5.8	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	19:50	20	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.7 28.0	27.8	91.7 91.5	91.6	7.0 7.0	7.0	7.0	14.3 14.1	14.2	14.2	10.5 9.7	10.1	14.4
					Middle	10	20.4 20.4	20.4	8.1 8.1	8.1	28.6 28.6	28.6	90.3 89.9	90.1	6.9 6.9	6.9		14.2 14.2	14.2		19.3 17.3	18.3	
					Bottom	19	20.4 20.4	20.4	8.1 8.1	8.1	28.6 28.6	28.6	90.9 90.0	90.5	6.9 6.9	6.9	6.9	14.2 14.1	14.2		14.9 14.4	14.7	
9-Apr-12	Sunny	Moderate	08:13	18	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.5 27.5	27.5	91.8 91.9	91.9	7.0 7.0	7.0	7.0	6.3 6.1	6.2	9.5	4.0 4.5	4.3	4.3
					Middle	9	20.4 20.4	20.4	8.1 8.1	8.1	28.5 28.4	28.4	91.0 90.9	91.0	7.0 7.0	7.0		8.7 8.9	8.8		4.4 4.0	4.2	
					Bottom	17	20.1 20.2	20.2	8.1 8.1	8.1	29.5 29.4	29.5	90.6 89.9	90.3	6.9 6.9	6.9	6.9	13.3 13.7	13.5		4.6 4.2	4.4	
11-Apr-12	Fine	Moderate	09:18	18	Surface	1	21.8 21.8	21.8	8.0 8.0	8.0	25.0 25.4	25.2	90.5 90.1	90.3	6.9 6.8	6.9	6.8	6.5 6.6	6.6	12.8	5.2 5.3	5.3	5.2
					Middle	9	21.1 21.0	21.0	8.1 8.1	8.1	28.4 28.5	28.5	89.0 88.7	88.9	6.7 6.7	6.7		15.6 15.2	15.4		6.2 4.1	5.2	
					Bottom	17	20.9 21.0	20.9	8.1 8.1	8.1	28.8 28.7	28.7	88.2 88.0	88.1	6.7 6.6	6.7	6.7	16.6 16.2	16.4		5.4 4.8	5.1	
13-Apr-12	Sunny	Moderate	11:20	19	Surface	1	23.5 23.3	23.4	8.0 8.0	8.0	23.1 23.8	23.5	95.6 98.1	96.9	7.1 7.3	7.2	7.1	2.9 2.7	2.8	4.8	4.7 4.7	4.7	5.3
					Middle	10	21.9 22.5	22.2	8.0 8.0	8.0	27.6 27.0	27.3	90.0 94.2	92.1	6.7 7.0	6.9		2.5 2.7	2.6		6.9 5.4	6.2	
					Bottom	18	21.4 21.4	21.4	8.0 8.0	8.0	28.9 28.9	28.9	87.0 88.8	87.9	6.5 6.6	6.6	6.6	9.0 8.8	8.9		4.8 5.1	5.0	
16-Apr-12	Rainy	Moderate	15:35	18	Surface	1	25.1 25.2	25.2	8.1 8.1	8.1	19.0 18.1	18.6	102.4 104.3	103.4	7.6 7.7	7.7	7.4	1.5 1.5	1.5	2.8	4.3 2.7	3.5	2.9
					Middle	9	23.2 23.1	23.2	8.0 8.0	8.0	26.5 27.0	26.8	99.3 94.8	97.1	7.3 6.9	7.1		1.7 1.7	1.7		3.7 2.7	3.2	
					Bottom	17	22.1 22.1	22.1	8.1 8.1	8.1	29.3 29.3	29.3	89.1 88.2	88.7	6.6 6.5	6.5	6.5	5.1 5.5	5.3		1.7 2.3	2.0	
18-Apr-12	Fine	Moderate	17:48	19	Surface	1	23.4 23.4	23.4	8.0 7.9	8.0	23.2 23.2	23.2	86.0 94.7	90.4	6.4 7.1	6.7	6.6	5.2 5.1	5.2	6.6	5.6 6.2	5.9	4.9
					Middle	10	22.8 22.8	22.8	8.0 8.0	8.0	26.2 27.2	26.7	90.3 86.6	88.5	6.7 6.4	6.5		5.2 5.2	5.2		4.5 3.8	4.2	
					Bottom	18	22.3 22.4	22.4	8.1 8.1	8.1	29.6 29.5	29.6	86.8 88.0	87.4	6.4 6.4	6.4	6.4	9.4 9.2	9.3		4.0 5.0	4.5	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS4 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:58	18	Surface	1	23.9 24.1	24.0	7.9 7.9	7.9	18.3 18.4	18.4	82.8 83.4	83.1	6.3 6.3	6.3	6.2	16.3 16.6	16.5	17.5	6.0 5.8	5.9	6.1
					Middle	9	23.3 23.1	23.2	8.0 8.1	8.0	23.9 24.1	24.0	81.3 81.9	81.6	6.1 6.1	6.1		17.5 17.8	17.7		7.2 6.2	6.7	
					Bottom	17	22.9 23.3	23.1	8.1 8.0	8.0	26.9 26.7	26.8	81.8 80.9	81.4	6.0 5.9	6.0	6.0	18.7 17.9	18.3		5.9 5.6	5.8	
25-Apr-12	Rainy	Moderate	08:25	18	Surface	1	24.3 24.3	24.3	7.8 7.9	7.9	15.5 16.5	16.0	83.5 84.6	84.1	6.4 6.4	6.4	6.3	5.7 5.7	5.7	5.5	6.5 6.8	6.7	6.8
					Middle	9	24.0 23.9	23.9	8.0 8.0	8.0	22.7 22.4	22.5	84.6 83.6	84.1	6.3 6.2	6.2		4.2 4.5	4.4		6.8 7.0	6.9	
					Bottom	17	23.4 23.2	23.3	8.0 8.1	8.0	26.1 26.2	26.1	82.4 82.3	82.4	6.0 6.1	6.0	6.0	6.4 6.3	6.4		6.6 7.2	6.9	
27-Apr-12	Cloudy	Moderate	09:07	19	Surface	1	24.0 24.0	24.0	8.1 8.1	8.1	22.5 22.4	22.4	100.3 91.2	95.8	7.4 6.8	7.1	6.8	1.7 1.9	1.8	4.6	4.9 4.4	4.7	4.5
					Middle	10	23.8 23.4	23.6	8.1 8.1	8.1	26.3 27.0	26.7	90.7 89.0	89.9	6.6 6.5	6.5		4.9 4.7	4.8		5.2 4.2	4.7	
					Bottom	18	23.2 23.2	23.2	8.1 8.1	8.1	29.3 29.2	29.2	86.8 87.4	87.1	6.3 6.3	6.3	6.3	7.1 7.3	7.2		4.0 4.0	4.0	
30-Apr-12	Cloudy	Moderate	13:25	18	Surface	1	26.3 26.1	26.2	7.7 8.0	7.9	13.0 13.1	13.1	95.9 89.4	92.7	7.2 6.7	7.0	6.8	2.5 2.5	2.5	2.3	2.6 3.9	3.3	1.7
					Middle	9	24.1 24.1	24.1	8.0 8.0	8.0	25.1 25.1	25.1	89.8 91.6	90.7	6.5 6.7	6.6		1.9 1.8	1.9		1.4 <0.5	1.0	
					Bottom	17	23.7 23.6	23.6	8.0 8.1	8.0	27.6 27.7	27.7	86.7 85.0	85.9	6.3 6.2	6.2	6.2	2.5 2.4	2.5		<0.5 0.9	0.7	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	09:37	13	Surface	1	19.7 19.6	19.7	8.2 8.2	8.2	30.0 30.2	30.1	104.1 102.6	103.4	8.0 7.9	7.9	7.8	2.2 2.2	2.2	2.4	5.7 4.6	5.2	4.7
					Middle	7	19.4 19.4	19.4	8.2 8.2	8.2	30.5 30.5	30.5	100.3 101.1	100.7	7.7 7.8	7.7		2.6 2.6	2.6		4.1 3.6	3.9	
					Bottom	12	19.4 19.4	19.4	8.2 8.2	8.2	30.6 30.6	30.6	99.8 101.8	100.8	7.7 7.8	7.7	7.7	2.2 2.3	2.3		5.8 4.4	5.1	
5-Apr-12	Cloudy	Moderate	11:05	13	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	29.4 29.4	29.4	101.1 101.2	101.2	7.7 7.7	7.7	7.6	3.2 3.1	3.2	4.2	2.6 3.9	3.3	4.0
					Middle	7	19.9 19.9	19.9	8.2 8.2	8.2	30.1 30.1	30.1	98.3 98.9	98.6	7.5 7.5	7.5		4.7 4.7	4.7		5.7 3.4	4.6	
					Bottom	12	19.9 19.9	19.9	8.1 8.1	8.1	30.2 30.2	30.2	98.5 99.6	99.1	7.5 7.6	7.6	7.6	4.8 4.6	4.7		4.3 3.6	4.0	
7-Apr-12	Fine	Moderate	12:40	14	Surface	1	20.2 20.2	20.2	8.1 8.1	8.1	29.0 29.0	29.0	96.1 95.0	95.6	7.3 7.3	7.3	7.3	6.5 6.9	6.7	9.7	6.6 6.2	6.4	6.6
					Middle	7	20.2 20.2	20.2	8.1 8.1	8.1	29.4 29.4	29.4	94.0 94.1	94.1	7.2 7.2	7.2		11.1 11.3	11.2		6.6 5.5	6.1	
					Bottom	13	20.1 20.2	20.1	8.1 8.1	8.1	29.5 29.4	29.5	93.9 94.6	94.3	7.2 7.2	7.2	7.2	11.4 11.1	11.3		7.1 7.4	7.3	
9-Apr-12	Sunny	Moderate	15:32	12	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.7 28.8	28.8	92.7 92.4	92.6	7.1 7.0	7.0	7.0	15.1 15.3	15.2	16.0	19.7 17.4	18.6	20.5
					Middle	6	20.4 20.4	20.4	8.1 8.1	8.1	28.8 28.8	28.8	92.0 92.2	92.1	7.0 7.0	7.0		15.6 15.7	15.7		18.7 19.3	19.0	
					Bottom	11	20.4 20.4	20.4	8.1 8.1	8.1	28.8 28.8	28.8	92.3 91.8	92.1	7.0 7.0	7.0	7.0	16.8 17.1	17.0		24.3 23.2	23.8	
11-Apr-12	Sunny	Moderate	17:57	12	Surface	1	22.3 22.4	22.3	8.0 8.0	8.0	26.1 26.2	26.2	92.8 92.8	92.8	6.9 6.9	6.9	6.9	8.2 8.3	8.3	8.6	8.9 7.8	8.4	11.3
					Middle	6	21.5 21.4	21.5	8.1 8.1	8.1	27.6 27.6	27.6	90.3 90.1	90.2	6.8 6.8	6.8		8.5 8.8	8.7		14.1 12.5	13.3	
					Bottom	11	21.6 21.4	21.5	8.0 8.1	8.1	27.5 27.6	27.6	90.9 90.1	90.5	6.8 6.8	6.8	6.8	8.9 8.9	8.9		12.0 12.3	12.2	
13-Apr-12	Sunny	Moderate	19:05	13	Surface	1	23.2 23.3	23.2	8.0 8.1	8.1	24.3 24.2	24.3	97.0 99.7	98.4	7.2 7.4	7.3	7.3	2.4 2.4	2.4	3.1	5.6 4.3	5.0	4.9
					Middle	7	22.6 22.6	22.6	8.0 8.0	8.0	26.2 26.2	26.2	95.4 99.6	97.5	7.1 7.4	7.2		3.1 3.2	3.2		5.3 5.4	5.4	
					Bottom	12	22.2 22.3	22.3	8.1 8.0	8.1	27.6 27.6	27.6	100.0 92.8	96.4	7.4 6.9	7.2	7.2	3.6 3.5	3.6		5.0 3.6	4.3	
16-Apr-12	Fine	Moderate	09:54	12	Surface	1	23.6 23.5	23.5	8.1 8.1	8.1	24.7 25.1	24.9	98.7 97.7	98.2	7.3 7.2	7.2	7.1	1.9 2.0	2.0	2.3	0.8 1.4	1.1	1.4
					Middle	6	22.7 22.6	22.6	8.1 8.1	8.1	28.4 28.4	28.4	95.3 95.1	95.2	7.0 7.0	7.0		2.0 1.9	2.0		1.1 1.6	1.4	
					Bottom	11	22.1 22.1	22.1	8.1 8.1	8.1	29.5 29.5	29.5	92.3 92.4	92.4	6.8 6.8	6.8	6.8	2.9 2.9	2.9		2.0 1.4	1.7	
18-Apr-12	Fine	Moderate	11:03	13	Surface	1	22.8 22.8	22.8	8.1 8.1	8.1	26.7 26.8	26.7	93.6 98.2	95.9	6.9 7.3	7.1	6.9	3.5 3.1	3.3	3.6	5.9 4.7	5.3	5.1
					Middle	7	22.3 22.3	22.3	8.1 8.1	8.1	29.5 29.6	29.5	91.2 92.3	91.8	6.7 6.8	6.7		3.1 3.1	3.1		6.4 3.9	5.2	
					Bottom	12	22.2 22.2	22.2	8.1 8.1	8.1	29.8 29.8	29.8	89.4 89.9	89.7	6.6 6.6	6.6	6.6	4.7 4.0	4.4		4.4 5.3	4.9	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	13:30	14	Surface	1	23.4 23.3	23.4	8.0 8.0	8.0	24.1 24.1	24.1	86.1 86.2	86.2	6.4 6.4	6.4	6.3	6.8 6.8	6.8	10.1	10.6 8.7	9.7	8.8
					Middle	7	22.7 22.7	22.7	8.1 8.1	8.1	28.2 28.2	28.2	83.9 84.1	84.0	6.2 6.2	6.2		9.5 9.3	9.4		11.2 9.5	10.4	
					Bottom	13	22.6 22.6	22.6	8.1 8.1	8.1	28.6 28.7	28.6	83.9 83.6	83.8	6.1 6.1	6.1	6.1	14.2 14.0	14.1		5.9 6.8	6.4	
25-Apr-12	Fine	Moderate	16:14	13	Surface	1	24.3 24.2	24.3	8.0 8.0	8.0	19.5 19.7	19.6	89.5 87.9	88.7	6.7 6.6	6.6	6.5	11.2 11.0	11.1	14.1	10.5 10.0	10.3	10.4
					Middle	7	23.6 23.9	23.8	8.0 8.0	8.0	22.8 20.9	21.9	85.2 87.2	86.2	6.3 6.5	6.4		15.2 15.5	15.4		10.3 11.4	10.9	
					Bottom	12	23.5 23.8	23.6	8.0 8.0	8.0	24.9 24.6	24.8	85.0 88.0	86.5	6.3 6.5	6.4	6.4	15.8 15.5	15.7		9.9 9.8	9.9	
27-Apr-12	Rainy	Moderate	17:33	13	Surface	1	23.4 23.5	23.4	8.1 8.1	8.1	25.5 25.5	25.5	101.9 94.1	98.0	7.5 6.9	7.2	7.0	3.3 3.2	3.3	6.1	5.1 3.8	4.5	4.7
					Middle	7	23.3 23.3	23.3	8.1 8.1	8.1	28.3 28.1	28.2	94.6 93.0	93.8	6.9 6.8	6.8		4.5 4.6	4.6		4.1 3.6	3.9	
					Bottom	12	23.2 23.2	23.2	8.1 8.1	8.1	28.4 28.5	28.5	89.5 89.7	89.6	6.5 6.5	6.5	6.5	10.4 10.3	10.4		5.2 6.4	5.8	
30-Apr-12	Cloudy	Moderate	20:19	12	Surface	1	26.1 26.0	26.1	7.8 8.1	8.0	16.5 16.7	16.6	94.6 100.0	97.3	7.0 7.4	7.2	7.3	1.6 1.6	1.6	1.9	2.5 2.4	2.5	2.4
					Middle	6	26.0 26.0	26.0	8.0 8.1	8.1	16.7 16.7	16.7	98.4 99.5	99.0	7.3 7.4	7.3		2.1 2.0	2.1		2.6 2.5	2.6	
					Bottom	11	24.5 25.1	24.8	8.1 8.0	8.1	21.3 20.9	21.1	94.0 94.5	94.3	6.9 6.9	6.9	6.9	2.1 2.0	2.1		2.1 2.1	2.1	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	17:18	13	Surface	1	20.9 21.2	21.1	8.2 8.2	8.2	28.0 27.6	27.8	103.0 103.5	103.3	7.8 7.8	7.8	7.7	5.1 5.2	5.2	7.0	3.6 2.6	3.1	2.9
					Middle	7	19.4 19.4	19.4	8.2 8.2	8.2	30.7 30.7	30.7	98.6 100.5	99.6	7.6 7.7	7.6		7.3 7.5	7.4		2.6 2.3	2.5	
					Bottom	12	19.4 19.3	19.4	8.2 8.2	8.2	30.8 30.8	30.8	101.8 98.3	100.1	7.8 7.6	7.7	7.7	8.5 8.5	8.5		3.0 3.1	3.1	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	20:43	13	Surface	1	20.1 20.1	20.1	8.1 8.1	8.1	29.7 29.7	29.7	92.9 92.6	92.8	7.1 7.1	7.1	7.1	7.6 7.8	7.7	8.4	10.5 9.0	9.8	11.2
					Middle	7	20.1 20.1	20.1	8.2 8.1	8.2	29.7 29.7	29.7	92.6 92.1	92.4	7.1 7.0	7.0		8.2 8.4	8.3		10.8 11.7	11.3	
					Bottom	12	20.1 20.1	20.1	8.1 8.2	8.2	29.7 29.7	29.7	92.2 92.9	92.6	7.0 7.1	7.1	7.1	9.2 8.9	9.1		11.8 13.2	12.5	
9-Apr-12	Sunny	Moderate	07:20	13	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	28.1 28.1	28.1	93.3 93.5	93.4	7.1 7.2	7.1	7.1	4.3 4.1	4.2	6.8	5.3 5.6	5.5	5.8
					Middle	7	20.3 20.3	20.3	8.1 8.1	8.1	28.9 28.8	28.9	91.8 91.8	91.8	7.0 7.0	7.0		7.3 7.3	7.3		5.9 5.1	5.5	
					Bottom	12	20.2 20.2	20.2	8.1 8.1	8.1	29.4 29.2	29.3	91.4 92.0	91.7	7.0 7.0	7.0	7.0	8.8 8.7	8.8		7.0 5.7	6.4	
11-Apr-12	Fine	Moderate	08:27	13	Surface	1	21.6 21.6	21.6	8.0 8.0	8.0	25.9 25.9	25.9	90.9 91.1	91.0	6.9 6.9	6.9	6.9	6.4 6.1	6.3	7.5	5.7 6.2	6.0	6.5
					Middle	7	21.6 21.6	21.6	8.0 8.0	8.0	26.6 26.6	26.6	91.0 90.5	90.8	6.9 6.8	6.9		7.8 7.9	7.9		7.3 5.7	6.5	
					Bottom	12	21.4 21.2	21.3	8.0 8.1	8.0	28.2 28.2	28.2	89.7 90.5	90.1	6.7 6.8	6.8	6.8	8.4 8.3	8.4		7.8 6.2	7.0	
13-Apr-12	Sunny	Moderate	10:21	14	Surface	1	23.5 23.3	23.4	8.0 8.0	8.0	22.2 22.6	22.4	101.5 96.1	98.8	7.6 7.2	7.4	7.2	2.2 2.3	2.3	3.1	3.3 3.1	3.2	3.3
					Middle	7	22.1 22.6	22.4	8.0 8.0	8.0	27.1 27.0	27.1	94.6 94.6	94.6	7.1 7.0	7.0		2.4 2.5	2.5		2.8 2.9	2.9	
					Bottom	13	21.8 21.6	21.7	8.1 8.1	8.1	28.1 28.3	28.2	91.5 90.8	91.2	6.8 6.8	6.8	6.8	4.2 4.7	4.5		4.1 3.3	3.7	
16-Apr-12	Rainy	Moderate	16:35	13	Surface	1	24.4 24.3	24.4	8.1 8.0	8.1	21.8 22.3	22.1	101.9 101.9	101.9	7.5 7.5	7.5	7.3	1.8 1.9	1.9	2.6	1.3 1.8	1.6	2.2
					Middle	7	22.1 22.0	22.0	8.1 8.1	8.1	29.6 30.2	29.9	94.7 96.7	95.7	7.0 7.1	7.0		2.6 2.2	2.4		2.1 2.2	2.2	
					Bottom	12	22.0 22.0	22.0	8.1 8.1	8.1	30.1 30.3	30.2	92.4 93.8	93.1	6.8 6.9	6.8	6.8	3.7 3.4	3.6		3.1 2.3	2.7	
18-Apr-12	Fine	Moderate	18:52	14	Surface	1	22.5 22.5	22.5	8.1 8.1	8.1	28.1 28.2	28.2	91.4 92.8	92.1	6.7 6.8	6.8	6.8	1.4 1.3	1.4	4.4	5.9 3.8	4.9	4.1
					Middle	7	22.4 22.4	22.4	8.1 8.1	8.1	29.7 29.7	29.7	91.9 90.9	91.4	6.7 6.6	6.7		4.3 4.0	4.2		4.4 3.5	4.0	
					Bottom	13	22.3 22.3	22.3	8.1 8.1	8.1	29.8 29.8	29.8	89.4 90.0	89.7	6.5 6.6	6.6	6.6	7.9 7.5	7.7		2.7 4.2	3.5	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS(Mf)5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	22:00	14	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	26.2 27.0	26.6	87.4 87.8	87.6	6.4 6.4	6.4	6.4	6.8 6.9	6.9	8.6	6.1 5.5	5.8	6.5
					Middle	7	22.8 22.8	22.8	8.1 8.1	8.1	28.3 28.4	28.3	86.6 85.9	86.3	6.3 6.3	6.3		9.4 9.5	9.5		8.7 7.7	8.2	
					Bottom	13	22.8 22.8	22.8	8.1 8.1	8.1	28.7 28.7	28.7	87.1 86.0	86.6	6.4 6.3	6.3		9.2 9.3	9.3		5.7 5.3	5.5	
25-Apr-12	Rainy	Moderate	07:31	12	Surface	1	24.2 24.2	24.2	8.0 8.0	8.0	19.4 19.5	19.4	90.0 89.5	89.8	6.8 6.7	6.7	6.6	6.8 6.6	6.7	11.9	5.3 4.0	4.7	4.7
					Middle	6	23.7 24.0	23.8	8.0 8.0	8.0	20.9 20.4	20.6	86.6 87.3	87.0	6.5 6.5	6.5		13.2 13.3	13.3		5.8 5.4	5.6	
					Bottom	11	23.4 23.5	23.4	8.0 8.0	8.0	25.1 25.1	25.1	84.7 86.7	85.7	6.2 6.4	6.3		15.4 15.9	15.7		4.0 3.4	3.7	
27-Apr-12	Cloudy	Moderate	08:16	14	Surface	1	23.3 23.4	23.4	8.1 8.1	8.1	24.9 24.9	24.9	103.1 90.9	97.0	7.6 6.7	7.2	7.0	2.3 2.0	2.2	2.1	5.2 5.5	5.4	3.7
					Middle	7	23.2 23.2	23.2	8.1 8.1	8.1	28.0 27.8	27.9	94.6 90.9	92.8	6.9 6.6	6.7		2.0 1.9	2.0		2.6 3.4	3.0	
					Bottom	13	23.2 23.1	23.1	8.1 8.1	8.1	29.1 29.3	29.2	89.6 89.2	89.4	6.5 6.5	6.5		2.0 2.1	2.1		2.7 2.7	2.7	
30-Apr-12	Cloudy	Moderate	12:34	13	Surface	1	25.3 25.3	25.3	8.0 8.0	8.0	15.5 15.7	15.6	95.8 94.1	95.0	7.2 7.1	7.1	6.9	1.7 1.7	1.7	2.6	2.1 2.2	2.2	2.2
					Middle	7	23.8 25.0	24.4	8.0 8.0	8.0	25.7 22.1	23.9	90.1 93.6	91.9	6.6 6.8	6.7		2.1 2.1	2.1		1.8 1.4	1.6	
					Bottom	12	23.5 23.6	23.5	8.1 8.1	8.1	27.9 27.9	27.9	86.8 87.1	87.0	6.3 6.3	6.3		3.9 4.0	4.0		3.0 2.8	2.9	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	10:02	10	Surface	1	20.1 20.1	20.1	8.2 8.2	8.2	30.0 30.0	30.0	106.6 107.3	107.0	8.1 8.2	8.1	8.1	2.1 2.1	2.1	2.8	3.0 2.5	2.8	3.0
					Middle	5	19.7 19.7	19.7	8.2 8.2	8.2	30.1 30.2	30.2	103.2 104.8	104.0	7.9 8.0	8.0		3.1 3.1	3.1		2.5 2.8	2.7	
					Bottom	9	19.4 19.3	19.4	8.2 8.2	8.2	30.6 30.7	30.7	99.9 101.6	100.8	7.7 7.8	7.7	7.7	3.1 3.3	3.2		3.0 4.0	3.5	
5-Apr-12	Cloudy	Moderate	11:28	10	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	29.5 29.5	29.5	101.5 101.0	101.3	7.7 7.7	7.7	7.7	2.5 2.6	2.6	3.9	2.8 2.8	2.8	3.1
					Middle	5	20.0 20.1	20.1	8.2 8.2	8.2	29.9 29.7	29.8	98.2 100.0	99.1	7.5 7.6	7.6		3.8 3.9	3.9		3.4 2.0	2.7	
					Bottom	9	19.9 19.8	19.9	8.1 8.1	8.1	30.3 30.4	30.4	100.1 97.4	98.8	7.6 7.4	7.5	7.5	5.2 5.4	5.3		4.1 3.5	3.8	
7-Apr-12	Fine	Moderate	13:03	10	Surface	1	20.2 20.2	20.2	8.1 8.1	8.1	29.2 29.2	29.2	94.7 95.0	94.9	7.2 7.2	7.2	7.2	3.9 3.9	3.9	4.3	5.8 5.9	5.9	6.1
					Middle	5	20.2 20.1	20.2	8.1 8.1	8.1	29.4 29.5	29.4	94.2 94.2	94.2	7.2 7.2	7.2		4.1 4.1	4.1		8.4 7.1	7.8	
					Bottom	9	20.1 20.0	20.1	8.1 8.1	8.1	29.9 30.0	29.9	94.1 94.1	94.1	7.2 7.2	7.2	7.2	4.9 5.0	5.0		4.0 4.9	4.5	
9-Apr-12	Sunny	Moderate	15:11	10	Surface	1	21.0 20.6	20.8	8.1 8.1	8.1	28.2 28.5	28.3	93.1 92.0	92.6	7.0 7.0	7.0	7.0	5.7 6.0	5.9	7.5	5.3 4.7	5.0	5.7
					Middle	5	20.3 20.2	20.2	8.1 8.1	8.1	29.3 29.5	29.4	90.9 90.7	90.8	6.9 6.9	6.9		7.7 7.9	7.8		4.2 4.7	4.5	
					Bottom	9	20.2 20.2	20.2	8.1 8.1	8.1	29.6 29.6	29.6	90.7 90.9	90.8	6.9 6.9	6.9	6.9	8.6 8.8	8.7		7.9 7.2	7.6	
11-Apr-12	Sunny	Moderate	17:36	9	Surface	1	23.1 22.9	23.0	8.0 8.0	8.0	25.6 25.8	25.7	92.5 91.8	92.2	6.8 6.8	6.8	6.8	5.5 5.6	5.6	6.2	8.9 7.2	8.1	7.7
					Middle	5	21.6 21.4	21.5	8.1 8.1	8.1	28.1 28.3	28.2	90.4 89.9	90.2	6.8 6.7	6.8		6.2 6.1	6.2		6.8 7.6	7.2	
					Bottom	8	21.3 21.3	21.3	8.1 8.1	8.1	28.5 28.5	28.5	89.9 91.4	90.7	6.8 6.9	6.8	6.8	6.9 6.6	6.8		8.7 6.7	7.7	
13-Apr-12	Sunny	Moderate	18:46	9	Surface	1	23.5 23.5	23.5	8.0 8.1	8.1	24.6 23.9	24.2	96.8 102.6	99.7	7.1 7.6	7.4	7.3	2.5 2.8	2.7	2.6	4.2 3.2	3.7	4.1
					Middle	5	22.8 22.7	22.7	8.0 8.0	8.0	26.4 26.2	26.3	95.9 98.6	97.3	7.1 7.3	7.2		2.5 2.5	2.5		3.8 2.5	3.2	
					Bottom	8	22.3 22.3	22.3	8.0 8.0	8.0	26.7 26.7	26.7	94.6 94.1	94.4	7.1 7.0	7.0	7.0	2.7 2.6	2.7		4.5 6.3	5.4	
16-Apr-12	Fine	Moderate	10:23	10	Surface	1	24.4 24.4	24.4	8.0 8.0	8.0	22.3 22.3	22.3	98.8 101.4	100.1	7.3 7.5	7.4	7.3	1.9 1.7	1.8	1.9	2.4 2.8	2.6	2.1
					Middle	5	23.1 23.0	23.0	8.1 8.1	8.1	26.6 26.9	26.7	98.3 95.1	96.7	7.2 7.0	7.1		1.9 1.9	1.9		3.3 2.4	2.9	
					Bottom	9	22.1 22.0	22.1	8.1 8.1	8.1	30.0 30.0	30.0	92.1 99.7	95.9	6.8 7.3	7.0	7.0	1.9 1.9	1.9		0.5 0.8	0.7	
18-Apr-12	Fine	Moderate	11:25	10	Surface	1	22.8 22.8	22.8	8.0 8.1	8.1	26.2 26.2	26.2	95.2 93.8	94.5	7.1 6.9	7.0	7.0	2.2 1.9	2.1	2.1	3.2 2.7	3.0	3.1
					Middle	5	22.8 22.8	22.8	8.1 8.1	8.1	26.4 26.6	26.5	94.6 93.8	94.2	7.0 6.9	7.0		2.1 2.0	2.1		3.7 2.7	3.2	
					Bottom	9	22.6 22.7	22.7	8.1 8.1	8.1	28.6 28.7	28.7	93.5 93.1	93.3	6.9 6.8	6.8	6.8	2.0 1.9	2.0		2.6 3.3	3.0	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	- -	-	- -	- -	- -	- -	- -		- -	- -		- -	- -	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	13:52	10	Surface	1	23.7 23.5	23.6	8.0 8.0	8.0	23.1 23.2	23.1	88.2 86.9	87.6	6.6 6.5	6.5	6.4	4.8 4.7	4.8	4.6	8.4 7.2	7.8	6.7
					Middle	5	23.2 23.0	23.1	8.0 8.1	8.1	24.7 25.9	25.3	86.1 85.4	85.8	6.4 6.3	6.3		4.1 4.2	4.2		8.0 6.3	7.2	
					Bottom	9	23.0 23.0	23.0	8.1 8.1	8.1	26.3 26.4	26.3	86.0 86.2	86.1	6.3 6.4	6.3	6.3	4.8 4.7	4.8		6.0 4.4	5.2	
25-Apr-12	Fine	Moderate	15:49	9	Surface	1	24.5 24.5	24.5	8.0 8.0	8.0	19.0 18.9	18.9	87.4 87.4	87.4	6.5 6.5	6.5	6.4	5.1 5.2	5.2	5.4	6.9 4.7	5.8	5.7
					Middle	5	24.0 23.9	24.0	8.0 8.0	8.0	23.2 23.3	23.2	86.1 85.7	85.9	6.4 6.3	6.3		5.3 5.1	5.2		6.1 6.0	6.1	
					Bottom	8	24.0 23.7	23.9	8.0 8.0	8.0	23.3 23.5	23.4	86.7 85.9	86.3	6.4 6.4	6.4	6.4	5.5 5.8	5.7		5.5 4.6	5.1	
27-Apr-12	Rainy	Moderate	17:13	10	Surface	1	23.4 23.5	23.5	7.9 8.1	8.0	25.7 25.7	25.7	102.6 95.4	99.0	7.5 7.0	7.3	7.3	1.8 1.9	1.9	1.9	4.1 2.4	3.3	2.9
					Middle	5	23.5 23.5	23.5	8.1 8.1	8.1	25.8 25.8	25.8	96.2 99.9	98.1	7.1 7.3	7.2		1.9 1.8	1.9		3.0 2.1	2.6	
					Bottom	9	23.5 23.4	23.5	8.1 8.1	8.1	27.8 27.8	27.8	96.2 97.6	96.9	7.0 7.1	7.0	7.0	1.9 1.9	1.9		2.6 2.9	2.8	
30-Apr-12	Cloudy	Moderate	20:01	10	Surface	1	26.4 26.5	26.5	8.2 8.1	8.2	14.0 13.9	13.9	115.7 105.6	110.7	8.6 7.9	8.2	8.2	1.4 1.4	1.4	1.6	2.9 2.7	2.8	2.9
					Middle	5	25.9 26.0	26.0	8.1 8.1	8.1	17.3 17.7	17.5	108.0 112.7	110.4	8.0 8.3	8.1		1.6 1.5	1.6		3.4 2.8	3.1	
					Bottom	9	24.4 24.2	24.3	8.0 8.0	8.0	22.9 23.1	23.0	100.5 96.5	98.5	7.4 7.1	7.2	7.2	1.9 1.8	1.9		2.8 2.5	2.7	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:55	10	Surface	1	20.2 20.1	20.2	8.2 8.2	8.2	29.3 29.5	29.4	109.9 111.1	110.5	8.4 8.5	8.4	8.4	1.8 1.7	1.8	2.1	6.1 4.0	5.1	3.7
					Middle	5	19.8 19.8	19.8	8.2 8.2	8.2	30.0 30.0	30.0	107.2 109.8	108.5	8.2 8.4	8.3		2.3 2.2	2.3		3.0 3.2	3.1	
					Bottom	9	19.9 20.0	19.9	8.2 8.2	8.2	30.0 29.8	29.9	106.7 111.0	108.9	8.2 8.5	8.3	8.3	2.2 2.0	2.1		3.6 2.4	3.0	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	20:20	11	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.1	29.1	94.1 94.6	94.4	7.2 7.2	7.2	7.2	7.0 6.8	6.9	6.6	8.5 11.0	9.8	9.8
					Middle	6	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.1	29.1	94.5 94.0	94.3	7.2 7.2	7.2		6.4 6.2	6.3		10.2 9.8	10.0	
					Bottom	10	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.1	29.1	94.0 95.1	94.6	7.2 7.2	7.2	7.2	6.3 6.6	6.5		9.7 9.5	9.6	
9-Apr-12	Sunny	Moderate	07:46	10	Surface	1	20.5 20.4	20.5	8.1 8.1	8.1	28.2 28.2	28.2	93.1 92.8	93.0	7.1 7.1	7.1	7.1	4.2 4.3	4.3	5.4	3.3 3.2	3.3	3.7
					Middle	5	20.3 20.4	20.4	8.1 8.1	8.1	28.6 28.4	28.5	92.2 92.5	92.4	7.0 7.1	7.1		5.5 5.7	5.6		3.7 3.4	3.6	
					Bottom	9	20.2 20.3	20.3	8.1 8.1	8.1	29.1 29.0	29.1	91.9 92.1	92.0	7.0 7.0	7.0	7.0	6.2 6.3	6.3		3.3 4.8	4.1	
11-Apr-12	Fine	Moderate	08:48	10	Surface	1	21.4 21.5	21.4	8.0 8.0	8.0	27.3 27.1	27.2	91.8 92.5	92.2	6.9 7.0	7.0	7.0	4.2 4.1	4.2	3.8	7.2 6.9	7.1	5.2
					Middle	5	21.1 21.2	21.2	8.0 8.0	8.0	27.9 27.8	27.9	90.7 91.9	91.3	6.9 6.9	6.9		3.9 3.9	3.9		5.0 3.8	4.4	
					Bottom	9	21.0 21.0	21.0	8.1 8.1	8.1	28.7 28.6	28.6	90.2 92.0	91.1	6.8 6.9	6.9	6.9	3.3 3.4	3.4		4.0 3.9	4.0	
13-Apr-12	Sunny	Moderate	10:47	10	Surface	1	23.4 23.0	23.2	8.0 8.0	8.0	22.4 24.4	23.4	99.6 94.8	97.2	7.5 7.1	7.3	7.1	2.3 2.5	2.4	2.4	3.6 3.1	3.4	3.6
					Middle	5	21.9 22.1	22.0	8.0 8.0	8.0	27.7 27.3	27.5	94.0 91.5	92.8	7.0 6.8	6.9		2.4 2.6	2.5		4.4 2.9	3.7	
					Bottom	9	21.6 21.7	21.7	8.1 8.1	8.1	28.8 28.5	28.6	90.9 90.0	90.5	6.8 6.7	6.7	6.7	2.2 2.4	2.3		4.0 3.4	3.7	
16-Apr-12	Rainy	Moderate	16:10	10	Surface	1	24.5 24.6	24.5	8.1 8.1	8.1	21.4 21.0	21.2	104.8 101.9	103.4	7.7 7.5	7.6	7.5	1.2 1.3	1.3	2.5	3.3 1.6	2.5	3.1
					Middle	5	23.9 22.9	23.4	8.0 8.1	8.1	25.4 27.0	26.2	100.4 98.6	99.5	7.3 7.3	7.3		1.5 1.7	1.6		2.6 4.5	3.6	
					Bottom	9	22.4 22.4	22.4	8.1 8.1	8.1	29.3 29.2	29.3	94.0 94.4	94.2	6.9 6.9	6.9	6.9	4.8 4.1	4.5		4.2 2.4	3.3	
18-Apr-12	Fine	Moderate	18:27	10	Surface	1	22.7 22.7	22.7	8.0 8.0	8.0	27.0 26.9	27.0	92.9 95.5	94.2	6.9 7.1	7.0	6.9	1.6 1.7	1.7	2.1	9.8 8.8	9.3	5.5
					Middle	5	22.6 22.5	22.6	8.1 8.0	8.1	28.2 28.5	28.4	92.6 93.6	93.1	6.8 6.9	6.8		1.7 1.6	1.7		2.6 3.2	2.9	
					Bottom	9	22.4 22.4	22.4	8.1 8.1	8.1	28.9 29.1	29.0	90.5 91.1	90.8	6.7 6.7	6.7	6.7	2.8 2.7	2.8		3.4 4.9	4.2	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CS6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	21:37	10	Surface	1	23.4 23.4	23.4	8.1 8.1	8.1	24.4 24.2	24.3	86.2 86.3	86.3	6.4 6.4	6.4	6.4	5.3 5.1	5.2	7.1	3.1 4.3	3.7	5.0
					Middle	5	23.2 23.2	23.2	8.1 8.1	8.1	25.7 25.8	25.8	85.0 84.7	84.9	6.3 6.3	6.3		7.7 7.5	7.6		6.2 5.3	5.8	
					Bottom	9	23.1 23.2	23.2	8.1 8.1	8.1	25.8 25.8	25.8	84.5 85.4	85.0	6.2 6.3	6.3	6.3	8.7 8.5	8.6		5.5 5.3	5.4	
25-Apr-12	Rainy	Moderate	07:55	11	Surface	1	24.2 24.1	24.2	7.9 8.0	8.0	18.6 18.6	18.6	86.8 86.9	86.9	6.6 6.6	6.6	6.5	6.1 5.9	6.0	11.7	4.5 5.4	5.0	5.8
					Middle	6	23.9 23.8	23.8	8.0 8.0	8.0	21.9 21.9	21.9	85.9 85.7	85.8	6.4 6.4	6.4		9.1 9.2	9.2		8.3 6.1	7.2	
					Bottom	10	23.4 23.4	23.4	8.0 8.0	8.0	25.2 25.4	25.3	84.4 84.4	84.4	6.2 6.2	6.2	6.2	19.8 19.7	19.8		4.9 5.5	5.2	
27-Apr-12	Cloudy	Moderate	08:39	10	Surface	1	23.0 23.5	23.2	8.0 8.1	8.1	25.3 25.0	25.2	103.1 94.2	98.7	7.7 6.9	7.3	7.2	2.5 2.6	2.6	2.5	2.7 3.7	3.2	3.0
					Middle	5	23.4 23.4	23.4	8.1 8.1	8.1	26.7 26.6	26.6	98.0 93.5	95.8	7.2 6.8	7.0		2.5 2.6	2.6		2.7 3.3	3.0	
					Bottom	9	23.3 23.3	23.3	8.1 8.1	8.1	28.9 29.1	29.0	93.7 91.1	92.4	6.8 6.6	6.7	6.7	2.3 2.4	2.4		2.8 2.6	2.7	
30-Apr-12	Cloudy	Moderate	12:54	10	Surface	1	25.8 25.8	25.8	7.8 8.0	7.9	14.9 14.8	14.9	95.0 97.0	96.0	7.1 7.3	7.2	7.1	2.1 1.9	2.0	1.7	2.6 3.1	2.9	3.1
					Middle	5	24.7 24.0	24.4	8.0 8.0	8.0	20.1 23.9	22.0	94.4 92.1	93.3	7.0 6.8	6.9		1.2 1.3	1.3		2.7 3.6	3.2	
					Bottom	9	24.1 23.9	24.0	8.1 8.1	8.1	27.1 27.3	27.2	90.9 89.8	90.4	6.5 6.5	6.5	6.5	1.8 1.8	1.8		2.5 3.8	3.2	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CSA - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	09:49	38	Surface	1	19.5 19.4	19.4	8.1 8.1	8.1	30.6 30.6	30.6	100.1 99.2	99.7	7.7 7.6	7.7	7.6	1.6 1.7	1.7	2.0	2.8 3.0	2.9	2.8
					Middle	19	19.3 19.3	19.3	8.1 8.1	8.1	30.7 30.8	30.7	96.9 96.9	96.9	7.4 7.4	7.4		2.1 2.1	2.1		2.6 3.5	3.1	
					Bottom	37	19.3 19.3	19.3	8.1 8.1	8.1	30.8 30.8	30.8	96.7 97.0	96.9	7.4 7.5	7.4	7.4	2.2 2.3	2.3		2.7 2.2	2.5	
5-Apr-12	Cloudy	Moderate	11:17	37	Surface	1	20.2 20.2	20.2	8.2 8.2	8.2	29.7 29.7	29.7	99.2 99.1	99.2	7.5 7.5	7.5	7.4	2.2 2.3	2.3	2.6	2.2 3.3	2.8	3.4
					Middle	19	19.8 19.8	19.8	8.1 8.1	8.1	30.7 30.7	30.7	95.0 94.9	95.0	7.2 7.2	7.2		2.9 2.8	2.9		3.4 3.1	3.3	
					Bottom	36	19.8 19.8	19.8	8.1 8.1	8.1	30.7 30.8	30.7	102.1 95.6	98.9	7.8 7.3	7.5	7.5	2.5 2.5	2.5		4.3 4.0	4.2	
7-Apr-12	Fine	Moderate	12:53	37	Surface	1	20.2 20.2	20.2	8.1 8.1	8.1	29.4 29.3	29.4	94.1 95.0	94.6	7.2 7.2	7.2	7.1	3.2 3.2	3.2	4.3	4.8 6.0	5.4	6.0
					Middle	19	20.0 20.0	20.0	8.1 8.1	8.1	30.2 30.2	30.2	91.9 92.1	92.0	7.0 7.0	7.0		4.1 4.2	4.2		5.8 6.2	6.0	
					Bottom	36	19.9 19.9	19.9	8.1 8.1	8.1	30.4 30.4	30.4	91.7 92.1	91.9	7.0 7.0	7.0	7.0	5.6 5.5	5.6		6.4 6.8	6.6	
9-Apr-12	Sunny	Moderate	15:20	35	Surface	1	21.0 20.8	20.9	8.1 8.1	8.1	28.2 28.4	28.3	93.2 92.4	92.8	7.1 7.0	7.0	6.9	6.6 6.5	6.6	7.3	5.7 5.5	5.6	7.2
					Middle	18	20.1 20.1	20.1	8.1 8.1	8.1	30.0 30.0	30.0	89.1 89.4	89.3	6.8 6.8	6.8		7.3 7.6	7.5		6.2 7.2	6.7	
					Bottom	34	20.0 20.0	20.0	8.1 8.1	8.1	30.3 30.3	30.3	89.3 88.3	88.8	6.8 6.7	6.8	6.8	7.9 7.7	7.8		8.6 10.2	9.4	
11-Apr-12	Sunny	Moderate	17:45	34	Surface	1	22.4 21.8	22.1	8.0 8.0	8.0	25.8 26.2	26.0	92.8 90.5	91.7	6.9 6.8	6.9	6.8	7.3 7.2	7.3	7.9	12.2 10.3	11.3	13.4
					Middle	17	20.8 20.8	20.8	8.1 8.1	8.1	29.5 29.5	29.5	87.6 87.8	87.7	6.6 6.6	6.6		8.2 8.6	8.4		8.6 11.1	9.9	
					Bottom	33	20.7 20.6	20.7	8.1 8.1	8.1	30.0 30.2	30.1	87.8 87.0	87.4	6.6 6.6	6.6	6.6	8.3 7.9	8.1		18.3 19.8	19.1	
13-Apr-12	Sunny	Moderate	18:52	36	Surface	1	23.1 23.0	23.1	8.0 8.0	8.0	24.5 24.7	24.6	99.8 94.7	97.3	7.4 7.1	7.2	6.9	2.2 2.4	2.3	2.4	3.9 2.9	3.4	3.8
					Middle	18	21.3 21.2	21.2	8.1 8.1	8.1	30.1 30.2	30.2	89.0 88.4	88.7	6.6 6.6	6.6		2.5 2.5	2.5		4.2 3.7	4.0	
					Bottom	35	21.1 21.1	21.1	8.1 8.1	8.1	30.5 30.4	30.4	87.1 87.4	87.3	6.5 6.5	6.5	6.5	2.3 2.6	2.5		4.4 3.6	4.0	
16-Apr-12	Fine	Moderate	10:11	36	Surface	1	24.0 24.1	24.0	8.0 8.1	8.1	23.7 23.4	23.6	99.3 101.1	100.2	7.3 7.4	7.4	7.1	1.7 1.7	1.7	2.4	1.2 1.1	1.2	1.8
					Middle	18	22.0 22.0	22.0	8.1 8.1	8.1	30.1 30.0	30.1	91.6 92.9	92.3	6.7 6.8	6.8		2.8 2.8	2.8		3.2 3.1	3.2	
					Bottom	35	21.9 21.9	21.9	8.1 8.1	8.1	30.4 30.5	30.5	90.6 89.9	90.3	6.7 6.6	6.6	6.6	2.9 2.7	2.8		0.7 1.4	1.1	
18-Apr-12	Fine	Moderate	11:15	36	Surface	1	22.9 22.8	22.8	8.1 8.0	8.0	26.4 26.6	26.5	91.9 95.6	93.8	6.8 7.1	6.9	6.7	1.4 1.4	1.4	1.5	3.9 2.7	3.3	3.0
					Middle	18	22.2 22.2	22.2	8.1 8.1	8.1	30.1 30.2	30.2	90.3 88.6	89.5	6.6 6.5	6.5		1.2 1.2	1.2		2.8 2.6	2.7	
					Bottom	35	22.2 22.2	22.2	8.1 8.1	8.1	30.3 30.4	30.3	87.5 87.7	87.6	6.4 6.4	6.4	6.4	1.6 1.9	1.8		2.6 3.1	2.9	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CSA - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	13:41	35	Surface	1	23.4 23.4	23.4	8.0 8.0	8.0	24.1 24.0	24.1	88.1 88.1	88.1	6.5 6.5	6.5	6.4	4.7 4.6	4.7	4.7	6.9 8.2	7.6	8.2
					Middle	18	22.6 22.6	22.6	8.1 8.1	8.1	29.4 29.5	29.4	85.4 85.5	85.5	6.2 6.2	6.2		4.3 4.4	4.4		7.6 10.1	8.9	
					Bottom	34	22.6 22.5	22.6	8.1 8.1	8.1	29.9 30.0	29.9	84.9 85.3	85.1	6.2 6.2	6.2	6.2	5.1 4.9	5.0		7.9 8.4	8.2	
25-Apr-12	Fine	Moderate	16:03	36	Surface	1	24.5 24.6	24.5	8.0 8.0	8.0	18.2 19.2	18.7	89.2 90.1	89.7	6.7 6.7	6.7	6.5	5.8 5.6	5.7	4.3	7.0 6.3	6.7	7.5
					Middle	18	22.9 22.9	22.9	8.1 8.1	8.1	28.3 28.9	28.6	85.4 86.0	85.7	6.2 6.3	6.2		3.5 3.6	3.6		7.9 7.6	7.8	
					Bottom	35	22.9 22.8	22.9	8.1 8.1	8.1	29.8 29.7	29.8	84.7 85.7	85.2	6.1 6.2	6.2	6.2	3.6 3.8	3.7		8.8 7.4	8.1	
27-Apr-12	Rainy	Moderate	17:22	37	Surface	1	23.4 23.5	23.4	8.1 8.1	8.1	25.7 25.7	25.7	102.4 93.4	97.9	7.5 6.9	7.2	6.9	1.9 2.1	2.0	3.4	2.0 2.4	2.2	3.1
					Middle	19	23.1 23.1	23.1	8.1 8.1	8.1	30.0 30.1	30.0	89.3 91.1	90.2	6.4 6.6	6.5		3.4 3.3	3.4		4.6 3.8	4.2	
					Bottom	36	23.0 23.0	23.0	8.1 8.1	8.1	30.2 30.3	30.3	87.1 87.0	87.1	6.3 6.3	6.3	6.3	4.9 4.6	4.8		2.9 3.0	3.0	
30-Apr-12	Cloudy	Moderate	20:08	35	Surface	1	26.5 26.4	26.4	8.0 8.3	8.1	14.6 14.5	14.6	96.9 114.9	105.9	7.2 8.5	7.9	7.2	1.7 1.7	1.7	1.7	1.8 1.9	1.9	2.4
					Middle	18	23.2 23.3	23.3	8.1 8.1	8.1	29.9 29.9	29.9	87.5 93.1	90.3	6.3 6.7	6.5		1.7 1.7	1.7		3.2 4.6	3.9	
					Bottom	34	23.1 23.1	23.1	8.1 8.1	8.1	30.3 30.3	30.3	85.5 82.5	84.0	6.1 5.9	6.0	6.0	1.8 1.8	1.8		1.6 1.1	1.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CSA - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	17:05	36	Surface	1	20.9 21.0	21.0	8.2 8.2	8.2	28.4 28.3	28.3	114.3 117.7	116.0	8.7 8.9	8.8	8.5	1.1 1.1	1.1	1.3	4.5 6.1	5.3	5.0
					Middle	18	20.0 20.0	20.0	8.2 8.2	8.2	29.8 29.8	29.8	106.4 105.3	105.9	8.1 8.0	8.1		1.2 1.2	1.2		5.5 5.2	5.4	
					Bottom	35	19.6 19.6	19.6	8.1 8.1	8.1	30.5 30.5	30.5	107.5 112.5	110.0	8.2 8.6	8.4	8.4	1.5 1.6	1.6		5.2 3.4	4.3	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	20:33	40	Surface	1	20.0 20.0	20.0	8.1 8.1	8.1	29.9 29.9	29.9	92.2 92.7	92.5	7.0 7.1	7.0	7.0	6.6 6.2	6.4	6.4	11.9 11.2	11.6	10.5
					Middle	20	20.1 20.1	20.1	8.1 8.1	8.1	29.9 29.9	29.9	90.8 91.5	91.2	6.9 7.0	6.9		6.5 6.3	6.4		10.1 9.9	10.0	
					Bottom	39	20.1 20.1	20.1	8.1 8.1	8.1	29.9 29.9	29.9	90.3 91.7	91.0	6.9 7.0	6.9	6.9	6.4 6.4	6.4		9.5 10.2	9.9	
9-Apr-12	Sunny	Moderate	07:34	34	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	28.4 28.4	28.4	92.3 92.8	92.6	7.1 7.1	7.1	7.0	3.8 3.8	3.8	4.4	4.5 4.0	4.3	4.1
					Middle	17	20.2 20.2	20.2	8.1 8.1	8.1	29.1 29.2	29.2	89.9 89.8	89.9	6.9 6.9	6.9		4.8 4.5	4.7		4.6 3.8	4.2	
					Bottom	33	20.1 20.1	20.1	8.1 8.1	8.1	29.6 29.8	29.7	89.7 89.3	89.5	6.8 6.8	6.8	6.8	4.5 4.6	4.6		4.2 3.2	3.7	
11-Apr-12	Fine	Moderate	08:39	35	Surface	1	21.5 21.6	21.5	8.0 8.0	8.0	27.0 26.8	26.9	91.3 91.8	91.6	6.9 6.9	6.9	6.8	3.5 3.6	3.6	8.3	6.2 5.6	5.9	6.3
					Middle	18	20.9 21.0	20.9	8.1 8.1	8.1	28.9 28.7	28.8	89.0 88.8	88.9	6.7 6.7	6.7		8.6 8.8	8.7		4.0 6.1	5.1	
					Bottom	34	20.9 20.8	20.8	8.1 8.1	8.1	29.1 29.2	29.1	87.9 88.7	88.3	6.6 6.7	6.7	6.7	12.6 12.3	12.5		8.0 7.5	7.8	
13-Apr-12	Sunny	Moderate	10:38	36	Surface	1	22.8 23.1	23.0	8.0 7.9	7.9	24.4 23.9	24.1	94.2 98.7	96.5	7.1 7.4	7.2	7.0	2.4 2.7	2.6	3.3	3.5 4.2	3.9	4.2
					Middle	18	21.5 21.6	21.5	8.0 8.1	8.1	29.1 29.1	29.1	89.5 90.2	89.9	6.7 6.7	6.7		3.0 2.5	2.8		3.2 3.8	3.5	
					Bottom	35	21.4 21.4	21.4	8.1 8.1	8.1	29.5 29.4	29.5	87.7 88.0	87.9	6.5 6.6	6.6	6.6	4.6 4.1	4.4		4.9 5.3	5.1	
16-Apr-12	Rainy	Moderate	16:22	37	Surface	1	24.5 24.3	24.4	8.1 8.1	8.1	21.6 21.9	21.7	98.4 101.8	100.1	7.3 7.5	7.4	7.1	1.2 1.2	1.2	1.7	2.1 2.2	2.2	1.9
					Middle	19	22.1 22.0	22.1	8.1 8.1	8.1	30.0 30.2	30.1	93.2 91.8	92.5	6.8 6.7	6.8		1.8 1.7	1.8		1.6 1.7	1.7	
					Bottom	36	21.9 21.9	21.9	8.1 8.1	8.1	30.5 30.5	30.5	89.5 90.2	89.9	6.6 6.6	6.6	6.6	2.1 2.2	2.2		2.4 1.3	1.9	
18-Apr-12	Fine	Moderate	18:39	37	Surface	1	22.4 22.3	22.4	8.1 8.1	8.1	29.4 29.6	29.5	92.9 89.2	91.1	6.8 6.5	6.7	6.6	2.1 2.2	2.2	3.6	4.8 4.6	4.7	4.1
					Middle	19	22.3 22.3	22.3	8.1 8.1	8.1	29.9 29.9	29.9	88.1 89.1	88.6	6.5 6.5	6.5		4.5 4.2	4.4		2.8 4.2	3.5	
					Bottom	36	22.3 22.3	22.3	8.1 8.1	8.1	29.9 29.9	29.9	87.7 87.2	87.5	6.4 6.4	6.4	6.4	4.3 4.3	4.3		4.6 3.8	4.2	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at CSA - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	21:50	35	Surface	1	23.1 23.0	23.0	8.1 8.1	8.1	26.8 27.0	26.9	87.4 86.2	86.8	6.4 6.3	6.4	6.3	5.3 5.4	5.4	8.6	6.8 5.7	6.3	7.4
					Middle	18	22.8 22.8	22.8	8.1 8.1	8.1	28.1 28.1	28.1	84.8 83.9	84.4	6.2 6.1	6.2		8.8 8.5	8.7		7.1 7.9	7.5	
					Bottom	34	22.8 22.8	22.8	8.1 8.1	8.1	28.2 28.4	28.3	84.8 84.0	84.4	6.2 6.1	6.2	6.2	11.8 11.4	11.6		8.9 7.9	8.4	
25-Apr-12	Rainy	Moderate	07:43	35	Surface	1	24.0 24.0	24.0	7.9 7.9	7.9	18.4 18.7	18.6	86.1 85.8	86.0	6.5 6.5	6.5	6.3	4.6 4.3	4.5	6.4	5.5 4.3	4.9	5.4
					Middle	18	23.0 23.1	23.1	8.1 8.1	8.1	27.7 27.7	27.7	83.1 83.5	83.3	6.1 6.1	6.1		5.8 5.9	5.9		5.4 7.0	6.2	
					Bottom	34	23.0 23.0	23.0	8.1 8.1	8.1	28.5 28.5	28.5	82.4 83.4	82.9	6.0 6.1	6.0	6.0	8.9 8.9	8.9		5.0 5.0	5.0	
27-Apr-12	Cloudy	Moderate	08:29	36	Surface	1	23.4 23.3	23.3	8.1 8.0	8.0	24.5 24.4	24.4	91.2 102.2	96.7	6.8 7.6	7.2	6.8	2.4 2.2	2.3	3.7	2.5 3.4	3.0	3.4
					Middle	18	23.1 23.1	23.1	8.1 8.1	8.1	29.6 29.5	29.6	86.3 88.9	87.6	6.2 6.4	6.3		2.5 2.8	2.7		5.2 4.2	4.7	
					Bottom	35	23.0 23.1	23.0	8.1 8.1	8.1	30.0 29.9	29.9	84.6 86.7	85.7	6.1 6.3	6.2	6.2	6.1 5.8	6.0		2.2 2.6	2.4	
30-Apr-12	Cloudy	Moderate	12:45	35	Surface	1	25.8 25.8	25.8	7.8 8.0	7.9	14.5 14.3	14.4	94.8 96.1	95.5	7.1 7.2	7.2	6.8	2.1 2.1	2.1	1.6	2.9 2.9	2.9	2.8
					Middle	18	23.3 23.3	23.3	8.1 8.1	8.1	29.5 29.6	29.5	87.7 87.9	87.8	6.3 6.3	6.3		1.1 1.1	1.1		2.9 2.6	2.8	
					Bottom	34	23.2 23.2	23.2	8.1 8.1	8.1	29.7 30.0	29.9	85.1 84.5	84.8	6.1 6.1	6.1	6.1	1.4 1.6	1.5		2.5 2.6	2.6	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:31	4	Surface	1	21.3 21.3	21.3	8.2 8.2	8.2	28.0 28.0	28.0	115.2 115.2	115.2	8.7 8.7	8.7	8.7	1.0 1.2	1.1	1.7	5.0 4.3	4.7	4.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.8 20.9	20.9	8.2 8.2	8.2	29.6 29.6	29.6	114.5 113.8	114.2	8.6 8.6	8.6	8.6	2.3 2.2	2.3		4.4 2.5	3.5	
5-Apr-12	Cloudy	Moderate	12:40	3	Surface	1	21.0 21.2	21.1	8.2 8.2	8.2	29.3 29.0	29.1	103.3 101.6	102.5	7.8 7.6	7.7	7.7	4.2 4.2	4.2	4.9	5.2 3.2	4.2	5.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	21.0 21.1	21.0	8.2 8.2	8.2	29.2 29.1	29.2	103.3 101.8	102.6	7.8 7.6	7.7	7.7	5.3 5.8	5.6		7.9 6.6	7.3	
7-Apr-12	Fine	Moderate	14:20	3	Surface	1	20.3 20.4	20.3	8.2 8.2	8.2	29.0 29.0	29.0	103.8 100.4	102.1	7.9 7.6	7.8	7.8	10.3 11.4	10.9	11.3	14.2 13.2	13.7	13.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.4 20.4	20.4	8.2 8.2	8.2	29.0 29.0	29.0	101.5 99.6	100.6	7.7 7.6	7.7	7.7	11.1 12.2	11.7		12.9 11.9	12.4	
9-Apr-12	Sunny	Moderate	13:35	3	Surface	1	20.8 20.9	20.9	8.1 8.1	8.1	28.9 28.9	28.9	95.2 95.8	95.5	7.2 7.2	7.2	7.2	4.0 4.3	4.2	8.9	7.2 5.1	6.2	4.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.6 20.6	20.6	8.1 8.1	8.1	29.1 29.0	29.0	94.2 94.3	94.3	7.1 7.2	7.1	7.1	14.1 13.0	13.6		3.4 3.8	3.6	
11-Apr-12	Sunny	Moderate	15:50	4	Surface	1	23.5 23.6	23.5	8.0 8.0	8.0	25.8 25.7	25.7	101.3 101.6	101.5	7.4 7.4	7.4	7.4	3.2 3.0	3.1	10.4	6.8 5.6	6.2	5.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.6 22.4	22.5	8.0 8.0	8.0	27.1 27.4	27.3	97.4 98.8	98.1	7.2 7.3	7.3	7.3	17.1 18.0	17.6		5.0 5.3	5.2	
13-Apr-12	Sunny	Moderate	17:48	3	Surface	1	24.2 24.2	24.2	8.1 8.1	8.1	25.9 25.9	25.9	103.4 102.5	103.0	7.5 7.4	7.5	7.5	5.0 5.0	5.0	7.4	4.1 4.0	4.1	3.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	23.2 23.2	23.2	8.1 8.1	8.1	26.6 26.7	26.6	96.5 97.4	97.0	7.1 7.1	7.1	7.1	9.7 9.7	9.7		3.5 3.7	3.6	
16-Apr-12	Fine	Moderate	12:01	3	Surface	1	24.8 24.8	24.8	8.0 8.0	8.0	22.1 22.1	22.1	100.4 99.9	100.2	7.3 7.3	7.3	7.3	2.7 2.4	2.6	7.3	3.1 2.1	2.6	2.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	24.3 24.3	24.3	8.0 8.0	8.0	24.0 24.1	24.0	96.6 95.8	96.2	7.0 7.0	7.0	7.0	11.6 12.3	12.0		2.8 2.7	2.8	
18-Apr-12	Fine	Moderate	13:06	3	Surface	1	23.2 23.2	23.2	8.1 8.1	8.1	25.0 25.0	25.0	96.4 96.1	96.3	7.1 7.1	7.1	7.1	2.4 2.1	2.3	2.4	2.9 4.6	3.8	3.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	22.8 23.1	23.0	8.1 8.1	8.1	25.5 25.0	25.3	94.3 96.1	95.2	7.0 7.1	7.1	7.1	2.6 2.4	2.5		3.0 2.8	2.9	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:49	3	Surface	1	23.6 23.7	23.7	8.1 8.1	8.1	23.8 23.7	23.7	94.7 97.3	96.0	7.0 7.2	7.1	7.1	6.9 6.2	6.6	6.8	5.9 6.6	6.3	6.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	23.7 23.6	23.7	8.1 8.1	8.1	24.6 24.6	24.6	96.1 93.6	94.9	7.1 6.9	7.0	7.0	6.6 7.2	6.9		6.6 6.0	6.3	
25-Apr-12	Fine	Moderate	14:07	3	Surface	1	24.5 24.6	24.6	8.0 8.0	8.0	20.4 20.3	20.3	95.4 96.2	95.8	7.1 7.1	7.1	7.1	5.4 5.6	5.5	5.9	7.1 7.3	7.2	6.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	24.6 24.6	24.6	8.0 8.0	8.0	21.2 21.4	21.3	95.8 95.1	95.5	7.1 7.0	7.0	7.0	6.0 6.5	6.3		5.3 7.4	6.4	
27-Apr-12	Rainy	Moderate	16:07	4	Surface	1	24.1 24.1	24.1	8.2 8.2	8.2	22.5 22.5	22.5	102.3 102.2	102.3	7.6 7.6	7.6	7.6	3.6 3.4	3.5	3.7	5.4 4.3	4.9	4.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	24.0 24.0	24.0	8.2 8.2	8.2	22.8 22.8	22.8	101.8 101.8	101.8	7.5 7.5	7.5	7.5	3.9 3.8	3.9		5.4 3.8	4.6	
30-Apr-12	Cloudy	Moderate	19:29	3	Surface	1	26.1 26.2	26.1	8.1 8.1	8.1	18.1 18.1	18.1	102.2 103.2	102.7	7.5 7.5	7.5	7.5	2.5 2.4	2.5	2.3	3.7 4.1	3.9	3.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	25.7 25.7	25.7	8.1 8.1	8.1	18.9 18.9	18.9	101.0 100.5	100.8	7.4 7.4	7.4	7.4	2.0 2.1	2.1		2.9 3.1	3.0	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:45	4	Surface	1	21.3 21.4	21.3	8.2 8.2	8.2	29.1 29.0	29.0	119.8 120.3	120.1	9.0 9.0	9.0	9.0	1.4 1.5	1.5	1.9	3.4 3.9	3.7	4.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	21.0 21.0	21.0	8.2 8.2	8.2	29.6 29.7	29.7	118.3 118.2	118.3	8.9 8.9	8.9		2.2 2.1	2.2		5.1 3.6	4.4	
5-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:	-	-	:
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	18:52	3	Surface	1	20.2 20.2	20.2	8.2 8.2	8.2	28.9 29.0	28.9	103.0 101.0	102.0	7.9 7.7	7.8	7.8	8.6 8.5	8.6	8.6	12.4 12.2	12.3	12.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	2	20.2 20.2	20.2	8.2 8.2	8.2	28.9 29.0	29.0	101.8 100.3	101.1	7.8 7.7	7.7		8.5 8.7	8.6		11.2 12.5	11.9	
9-Apr-12	Sunny	Moderate	09:11	4	Surface	1	20.5 20.4	20.4	8.1 8.1	8.1	28.9 28.9	28.9	94.4 94.6	94.5	7.2 7.2	7.2	7.2	3.4 3.5	3.5	4.2	5.7 8.5	7.1	6.7
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	20.4 20.4	20.4	8.1 8.1	8.1	29.2 29.1	29.2	95.2 94.2	94.7	7.2 7.2	7.2		5.0 4.6	4.8		5.6 7.0	6.3	
11-Apr-12	Fine	Moderate	10:06	4	Surface	1	22.1 21.9	22.0	8.0 8.0	8.0	26.0 26.0	26.0	93.4 92.8	93.1	7.0 7.0	7.0	7.0	3.4 3.2	3.3	4.6	4.5 5.4	5.0	5.3
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	21.7 21.7	21.7	8.1 8.1	8.1	27.5 27.5	27.5	94.0 94.6	94.3	7.0 7.1	7.1		6.1 5.7	5.9		5.5 5.4	5.5	
13-Apr-12	Sunny	Moderate	11:38	4	Surface	1	23.4 23.3	23.3	8.0 8.0	8.0	26.0 26.0	26.0	96.3 95.9	96.1	7.1 7.1	7.1	7.1	5.2 5.4	5.3	7.5	4.3 2.4	3.4	3.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	22.9 22.9	22.9	8.0 8.0	8.0	26.3 26.4	26.3	91.9 93.5	92.7	6.8 6.9	6.9		9.4 9.7	9.6		3.0 3.5	3.3	
16-Apr-12	Rainy	Moderate	14:38	4	Surface	1	24.9 24.9	24.9	8.1 8.0	8.1	21.3 21.6	21.5	102.8 102.9	102.9	7.5 7.5	7.5	7.5	2.0 1.7	1.9	7.4	3.5 3.9	3.7	3.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	24.4 24.3	24.4	8.0 8.0	8.0	24.4 24.5	24.4	99.6 98.8	99.2	7.2 7.2	7.2		13.6 12.2	12.9		2.5 2.2	2.4	
18-Apr-12	Fine	Moderate	16:28	4	Surface	1	23.0 23.1	23.0	8.1 8.1	8.1	25.8 25.5	25.6	96.3 96.4	96.4	7.1 7.1	7.1	7.1	5.8 5.6	5.7	8.1	7.6 7.3	7.5	8.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	23.0 23.0	23.0	8.1 8.1	8.1	25.8 25.8	25.8	96.0 96.5	96.3	7.1 7.1	7.1		10.3 10.5	10.4		10.2 8.9	9.6	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:	-	-	:
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:36	3	Surface	1	23.4 23.4	23.4	8.1 8.1	8.1	24.7 24.7	24.7	91.4 90.1	90.8	6.8 6.7	6.7	6.7	29.9 29.3	29.6	30.0	23.1 21.5	22.3	24.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	23.4 23.4	23.4	8.1 8.1	8.1	24.7 24.7	24.7	90.0 90.7	90.4	6.7 6.7	6.7	6.7	31.6 29.2	30.4		25.6 27.0	26.3	
25-Apr-12	Rainy	Moderate	09:09	3	Surface	1	24.2 24.2	24.2	8.0 8.0	8.0	20.9 20.8	20.8	90.9 91.5	91.2	6.8 6.8	6.8	6.8	10.5 10.7	10.6	10.5	15.1 13.7	14.4	13.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	24.2 24.2	24.2	8.0 8.0	8.0	20.9 20.9	20.9	91.1 90.6	90.9	6.8 6.8	6.8	6.8	10.5 10.1	10.3		12.1 11.6	11.9	
27-Apr-12	Cloudy	Moderate	09:43	4	Surface	1	24.0 24.0	24.0	8.1 8.1	8.1	20.9 20.9	20.9	97.7 97.9	97.8	7.3 7.3	7.3	7.3	2.9 2.8	2.9	3.1	4.6 3.0	3.8	4.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	23.7 23.7	23.7	8.1 8.1	8.1	23.7 23.7	23.7	98.9 96.9	97.9	7.3 7.3	7.3	7.3	3.2 3.4	3.3		4.6 5.0	4.8	
30-Apr-12	Cloudy	Moderate	13:33	4	Surface	1	25.7 25.7	25.7	8.1 8.1	8.1	17.7 17.8	17.8	100.5 100.3	100.4	7.4 7.4	7.4	7.4	1.2 1.1	1.2	1.9	2.8 2.9	2.9	2.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	25.2 25.2	25.2	8.0 8.1	8.1	20.0 20.0	20.0	99.9 99.7	99.8	7.3 7.3	7.3	7.3	2.5 2.4	2.5		2.2 2.4	2.3	

Remark:
Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)9 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:12	4	Surface	1	20.7 20.7	20.7	8.2 8.2	8.2	28.6 28.6	28.6	116.2 115.9	116.1	8.8 8.8	8.8	8.8	1.1 1.2	1.2	1.4	3.2 4.3	3.8	3.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.5 20.5	20.5	8.2 8.2	8.2	29.4 29.3	29.3	115.4 114.9	115.2	8.7 8.7	8.7	8.7	1.4 1.5	1.5		5.0 3.0	4.0	
5-Apr-12	Cloudy	Moderate	12:24	3	Surface	1	21.5 21.0	21.3	8.2 8.2	8.2	29.1 29.3	29.2	102.0 103.8	102.9	7.6 7.8	7.7	7.7	3.0 2.7	2.9	3.0	4.6 6.1	5.4	5.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	21.2 21.0	21.1	8.2 8.2	8.2	29.2 29.3	29.3	103.9 102.3	103.1	7.8 7.7	7.7	7.7	3.1 3.1	3.1		4.6 6.0	5.3	
7-Apr-12	Fine	Moderate	14:07	3	Surface	1	20.3 20.3	20.3	8.2 8.1	8.2	29.0 29.0	29.0	102.2 104.8	103.5	7.8 8.0	7.9	7.9	4.4 4.6	4.5	4.3	6.6 5.9	6.3	5.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.3 20.3	20.3	8.2 8.2	8.2	29.0 29.0	29.0	103.8 100.7	102.3	7.9 7.7	7.8	7.8	4.1 4.1	4.1		4.2 4.7	4.5	
9-Apr-12	Sunny	Moderate	13:51	4	Surface	1	21.0 21.1	21.0	8.1 8.1	8.1	28.6 28.5	28.6	95.1 95.1	95.1	7.2 7.2	7.2	7.2	3.6 3.2	3.4	4.1	7.4 6.5	7.0	6.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.7 20.6	20.7	8.1 8.1	8.1	28.8 29.0	28.9	94.3 94.1	94.2	7.1 7.1	7.1	7.1	4.5 4.8	4.7		6.6 6.4	6.5	
11-Apr-12	Sunny	Moderate	16:08	4	Surface	1	22.7 22.5	22.6	8.1 8.1	8.1	26.1 26.5	26.3	101.1 99.9	100.5	7.5 7.4	7.5	7.5	3.5 3.8	3.7	5.9	11.0 10.2	10.6	8.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	21.9 22.0	22.0	8.0 8.0	8.0	27.4 27.1	27.2	96.7 98.1	97.4	7.2 7.3	7.3	7.3	8.2 7.9	8.1		6.6 6.7	6.7	
13-Apr-12	Sunny	Moderate	18:04	4	Surface	1	23.6 23.2	23.4	8.1 8.1	8.1	25.8 26.0	25.9	98.0 93.9	96.0	7.2 6.9	7.0	7.0	6.1 5.8	6.0	6.7	4.5 3.8	4.2	6.0
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.4 22.5	22.5	8.0 8.0	8.0	27.0 26.9	27.0	87.6 93.2	90.4	6.5 6.9	6.7	6.7	7.3 7.2	7.3		7.4 8.2	7.8	
16-Apr-12	Fine	Moderate	11:44	4	Surface	1	24.7 24.7	24.7	8.0 8.0	8.0	21.6 21.6	21.6	102.4 102.2	102.3	7.5 7.5	7.5	7.5	1.2 1.2	1.2	2.5	2.6 1.9	2.3	2.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.2 24.1	24.1	8.0 8.0	8.0	23.1 23.3	23.2	102.9 97.7	100.3	7.6 7.2	7.4	7.4	3.7 3.9	3.8		2.0 2.4	2.2	
18-Apr-12	Fine	Moderate	12:47	3	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	25.5 25.6	25.5	94.7 94.7	94.7	7.0 7.0	7.0	7.0	3.9 4.1	4.0	6.3	5.2 6.9	6.1	6.0
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	22.9 22.8	22.9	8.1 8.1	8.1	26.2 26.4	26.3	91.0 94.5	92.8	6.7 7.0	6.9	6.9	8.3 8.6	8.5		5.3 6.4	5.9	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)9 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:00	3	Surface	1	23.6 23.4	23.5	8.1 8.1	8.1	23.6 23.7	23.6	97.1 91.9	94.5	7.2 6.8	7.0	7.0	7.2 7.9	7.6	7.7	9.3 7.9	8.6	8.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	2	23.5 23.5	23.5	8.0 8.0	8.0	23.6 25.1	24.4	91.1 94.0	92.6	6.8 6.9	6.8	6.8	7.6 7.7	7.7		8.6 8.5	8.6	
25-Apr-12	Fine	Moderate	14:22	4	Surface	1	24.4 24.5	24.5	8.0 8.0	8.0	20.3 20.0	20.2	93.3 95.8	94.6	6.9 7.1	7.0	7.0	3.4 3.2	3.3	3.4	4.6 4.5	4.6	4.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	24.3 24.3	24.3	8.0 8.0	8.0	20.7 20.7	20.7	92.9 94.4	93.7	6.9 7.0	7.0	7.0	3.5 3.5	3.5		4.8 3.3	4.1	
27-Apr-12	Rainy	Moderate	16:27	4	Surface	1	24.1 24.1	24.1	8.2 8.2	8.2	23.0 23.0	23.0	97.6 98.2	97.9	7.2 7.2	7.2	7.2	4.9 5.2	5.1	6.7	4.4 5.5	5.0	4.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	23.9 23.8	23.9	8.1 8.1	8.1	24.4 24.5	24.4	96.7 96.8	96.8	7.1 7.1	7.1	7.1	8.1 8.4	8.3		4.2 3.4	3.8	
30-Apr-12	Cloudy	Moderate	19:48	3	Surface	1	26.0 26.2	26.1	8.1 8.1	8.1	17.5 17.4	17.4	101.4 101.8	101.6	7.5 7.5	7.5	7.5	2.6 2.5	2.6	3.0	3.1 2.5	2.8	3.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	2	25.4 26.1	25.7	8.1 8.1	8.1	18.8 18.8	18.8	99.6 100.4	100.0	7.4 7.4	7.4	7.4	3.3 3.5	3.4		3.2 3.5	3.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)9 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:02	4	Surface	1	21.6 21.6	21.6	8.2 8.2	8.2	28.0 27.9	27.9	120.1 118.9	119.5	9.0 8.9	9.0	9.0	2.6 2.6	2.6	3.2	3.6 5.0	4.3	5.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	21.4 21.4	21.4	8.2 8.2	8.2	28.4 28.4	28.4	116.5 116.9	116.7	8.7 8.8	8.8	8.8	3.6 3.7	3.7		5.4 6.3	5.9	
5-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:	-	-	:
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	19:07	3	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	28.9 29.0	29.0	101.8 98.8	100.3	7.8 7.5	7.6	7.6	8.4 8.5	8.5	8.4	7.9 7.7	7.8	8.2
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	2	20.4 20.3	20.4	8.2 8.2	8.2	29.0 29.1	29.0	98.0 99.8	98.9	7.5 7.6	7.5	7.5	8.7 7.7	8.2		8.1 8.9	8.5	
9-Apr-12	Sunny	Moderate	08:51	4	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.4 28.5	28.5	92.6 92.2	92.4	7.1 7.0	7.0	7.0	7.7 6.9	7.3	8.0	5.8 4.7	5.3	8.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	20.4 20.4	20.4	8.1 8.1	8.1	28.7 28.6	28.7	92.1 93.8	93.0	7.0 7.1	7.1	7.1	8.8 8.3	8.6		11.0 12.7	11.9	
11-Apr-12	Fine	Moderate	09:49	4	Surface	1	21.7 21.8	21.7	8.0 8.0	8.0	26.2 26.0	26.1	90.2 91.5	90.9	6.8 6.9	6.9	6.9	4.5 4.2	4.4	7.7	4.0 4.9	4.5	5.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	21.6 21.6	21.6	8.0 8.0	8.0	27.5 27.6	27.5	91.8 90.8	91.3	6.9 6.8	6.9	6.9	11.3 10.7	11.0		6.2 5.0	5.6	
13-Apr-12	Sunny	Moderate	11:23	4	Surface	1	23.3 23.0	23.1	8.0 8.0	8.0	23.9 24.4	24.2	96.8 93.6	95.2	7.2 7.0	7.1	7.1	3.5 3.6	3.6	7.5	6.2 3.9	5.1	6.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	22.5 22.6	22.5	8.0 8.0	8.0	26.5 26.5	26.5	91.9 93.2	92.6	6.8 6.9	6.9	6.9	11.4 11.2	11.3		8.4 7.2	7.8	
16-Apr-12	Rainy	Moderate	14:57	4	Surface	1	25.0 24.3	24.7	8.0 8.0	8.0	21.2 22.7	22.0	101.2 99.0	100.1	7.4 7.3	7.3	7.3	2.3 2.6	2.5	7.0	1.7 2.1	1.9	1.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	24.1 24.1	24.1	8.0 8.0	8.0	23.5 23.6	23.6	96.3 96.8	96.6	7.1 7.1	7.1	7.1	11.6 11.2	11.4		1.1 1.1	1.1	
18-Apr-12	Fine	Moderate	16:48	4	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	25.8 25.8	25.8	93.7 94.5	94.1	6.9 7.0	6.9	6.9	3.5 3.3	3.4	5.9	4.2 5.7	5.0	4.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	22.7 22.8	22.8	8.1 8.1	8.1	27.2 27.1	27.1	89.1 94.4	91.8	6.6 7.0	6.8	6.8	8.4 8.1	8.3		3.9 3.8	3.9	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:	-	-	:
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)9 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:55	3	Surface	1	23.6 23.6	23.6	8.1 8.1	8.1	23.0 22.8	22.9	92.0 99.1	95.6	6.8 7.4	7.1	7.1	10.2 9.7	10.0	9.8	10.0 9.2	9.6	9.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	23.6 23.6	23.6	8.1 8.1	8.1	22.9 23.2	23.1	96.6 91.5	94.1	7.2 6.8	7.0	7.0	9.5 9.5	9.5		9.7 8.7	9.2	
25-Apr-12	Rainy	Moderate	08:47	4	Surface	1	24.5 24.2	24.3	8.0 8.0	8.0	19.0 19.1	19.1	96.1 92.4	94.3	7.2 7.0	7.1	7.1	2.5 2.7	2.6	3.0	4.7 4.1	4.4	5.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	24.3 24.2	24.3	8.0 8.0	8.0	20.8 21.2	21.0	93.6 91.4	92.5	7.0 6.8	6.9	6.9	3.3 3.2	3.3		5.2 6.2	5.7	
27-Apr-12	Cloudy	Moderate	09:24	4	Surface	1	23.6 23.6	23.6	8.1 8.1	8.1	24.2 24.2	24.2	92.9 92.4	92.7	6.9 6.8	6.8	6.8	3.0 3.2	3.1	3.5	3.6 3.3	3.5	3.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	23.6 23.6	23.6	8.1 8.1	8.1	24.6 24.6	24.6	93.0 93.9	93.5	6.9 6.9	6.9	6.9	3.7 4.0	3.9		3.8 4.0	3.9	
30-Apr-12	Cloudy	Moderate	13:12	4	Surface	1	25.6 25.6	25.6	8.1 8.1	8.1	17.1 17.1	17.1	99.7 100.3	100.0	7.4 7.5	7.4	7.4	1.5 1.5	1.5	1.6	2.7 2.8	2.8	3.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	25.3 25.4	25.4	8.1 8.0	8.1	18.3 18.3	18.3	99.6 98.9	99.3	7.4 7.3	7.4	7.4	1.5 1.6	1.6		4.0 2.7	3.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS10 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
3-Apr-12	Fine	Moderate	11:42	11	Surface	1	21.2 21.3	21.3	8.2 8.2	8.2	25.1 25.1	25.1	113.7 113.7	113.7	8.7 8.7	8.7	8.5	2.7 2.7	2.7	4.4	3.9 2.9	3.4	3.0	
					Middle	6	20.2 20.1	20.2	8.2 8.2	8.2	29.3 29.3	29.3	108.4 108.7	108.6	8.3 8.3	8.3		4.9 5.1	5.0		2.2 2.8	2.5		
					Bottom	10	19.8 19.8	19.8	8.2 8.2	8.2	29.8 29.8	29.8	110.1 108.7	109.4	8.4 8.3	8.4		8.4	5.3 5.6		5.5	2.7 3.3		3.0
					5-Apr-12	Cloudy	Moderate	13:23	11	Surface	1	20.8 20.8	20.8	8.1 8.1	8.1	27.5 27.3	27.4	103.1 103.6	103.4		7.9 7.9	7.9		7.9
Middle	6	20.7 20.6	20.6	8.2 8.2	8.2	28.3 28.4	28.4	102.5 101.5		102.0	7.8 7.7	7.8	9.6 9.3	9.5	6.5 4.6	5.6								
Bottom	10	20.6 20.5	20.6	8.2 8.2	8.2	28.9 28.9	28.9	102.5 100.8		101.7	7.8 7.7	7.7	7.7	9.1 9.1	9.1	5.1 5.2	5.2							
7-Apr-12	Fine	Moderate	14:33	10	Surface	1	20.5 20.4	20.5	8.1 8.1	8.1	27.8 27.9	27.9	96.3 96.8	96.6	7.4 7.4	7.4	7.4	11.1 11.5	11.3	12.5	6.2 6.3	6.3	6.8	
					Middle	5	20.4 20.3	20.4	8.1 8.1	8.1	28.7 28.7	28.7	96.5 96.2	96.4	7.4 7.3	7.4		12.7 12.5	12.6		6.0 5.5	5.8		
					Bottom	9	20.3 20.3	20.3	8.2 8.2	8.2	29.0 28.9	29.0	96.2 95.8	96.0	7.3 7.3	7.3		7.3	13.5 13.5		13.5	9.0 7.6		8.3
					9-Apr-12	Sunny	Moderate	13:37	12	Surface	1	20.6 20.8	20.7	8.1 8.1	8.1	28.2 28.0	28.1	93.9 93.9	93.9		7.2 7.1	7.1		7.1
Middle	6	20.4 20.4	20.4	8.1 8.1						8.1	28.6 28.6	28.6	93.1 93.6	93.4	7.1 7.1	7.1	12.7 12.4	12.6	15.1 15.2	15.2				
Bottom	11	20.4 20.4	20.4	8.1 8.1						8.1	28.6 28.6	28.6	93.4 92.6	93.0	7.1 7.1	7.1	7.1	13.5 13.5	13.5	22.7 21.9	22.3			
11-Apr-12	Sunny	Moderate	15:44	12						Surface	1	22.4 22.7	22.5	8.0 8.0	8.0	26.1 25.8	26.0	93.3 94.0	93.7	7.0 7.0	7.0	7.0	13.4 13.7	13.6
					Middle	6	21.9 21.8	21.9	8.0 8.0	8.0	27.0 27.1	27.0	91.2 91.8	91.5	6.8 6.9	6.9	24.4 24.4	24.4	14.7 17.0	15.9				
					Bottom	11	21.5 21.8	21.6	8.1 8.0	8.1	27.7 27.4	27.5	91.5 92.4	92.0	6.9 6.9	6.9	6.9	25.6 25.4	25.5	21.4 22.3	21.9			
					13-Apr-12	Sunny	Moderate	17:07	12	Surface	1	23.1 23.1	23.1	8.0 8.0	8.0	24.5 24.5	24.5	99.0 94.4	96.7	7.4 7.0	7.2	7.1	2.2 2.5	2.4
Middle	6	22.5 22.6	22.6	8.0 8.0						8.0	25.7 25.5	25.6	93.7 92.7	93.2	7.0 6.9	7.0	4.2 4.1	4.2	7.8 6.2	7.0				
Bottom	11	22.4 22.3	22.4	8.0 8.0						8.0	26.0 26.4	26.2	91.9 89.4	90.7	6.9 6.7	6.8	6.8	6.0 6.2	6.1	8.4 5.5	7.0			
16-Apr-12	Fine	Moderate	12:08	11						Surface	1	24.5 24.3	24.4	8.0 8.0	8.0	20.9 21.3	21.1	100.8 99.1	100.0	7.5 7.4	7.4	7.2	4.5 4.1	4.3
					Middle	6	23.1 23.1	23.1	8.0 8.0	8.0	25.5 24.6	25.0	92.4 95.5	94.0	6.8 7.1	7.0	4.2 4.1	4.2	2.6 3.0	2.8				
					Bottom	10	22.4 22.4	22.4	8.0 8.0	8.0	27.7 27.9	27.8	93.2 86.2	89.7	6.9 6.4	6.6	6.6	4.2 4.2	4.2	3.5 3.1	3.3			
					18-Apr-12	Fine	Moderate	13:08	12	Surface	1	23.2 23.0	23.1	8.0 7.9	8.0	23.9 24.0	23.9	93.0 95.6	94.3	6.9 7.1	7.0	7.0	2.6 2.4	2.5
Middle	6	23.2 23.1	23.2	8.0 8.0						8.0	24.4 25.1	24.7	92.1 94.4	93.3	6.9 7.0	6.9	2.7 2.9	2.8	4.2 3.1	3.7				
Bottom	11	22.6 22.7	22.6	8.1 8.1						8.1	26.4 26.4	26.4	91.3 90.7	91.0	6.8 6.7	6.7	6.7	8.5 8.6	8.6	3.7 4.2	4.0			
20-Apr-12***	-	-	-	-						Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	- -	-			
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	- -	-			

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS10 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:39	12	Surface	1	23.6 23.4	23.5	8.0 8.0	8.0	21.9 21.9	21.9	85.6 87.1	86.4	6.4 6.5	6.5	6.5	8.0 8.4	8.2	11.6	6.2 5.3	5.8	5.6
					Middle	6	23.3 23.3	23.3	8.0 8.0	8.0	23.6 23.6	23.6	88.0 85.2	86.6	6.6 6.3	6.4		11.1 10.8	11.0		5.4 5.3	5.4	
					Bottom	11	23.4 23.4	23.4	8.0 8.0	8.0	24.1 24.1	24.1	86.1 89.4	87.8	6.4 6.6	6.5	6.5	15.4 15.7	15.6		5.5 5.9	5.7	
25-Apr-12	Fine	Moderate	14:14	12	Surface	1	24.1 24.1	24.1	8.0 8.0	8.0	20.2 20.2	20.2	86.5 86.1	86.3	6.5 6.4	6.5	6.4	10.5 10.5	10.5	13.9	3.9 3.1	3.5	4.5
					Middle	6	23.7 23.9	23.8	8.0 8.0	8.0	22.7 22.0	22.4	84.4 84.4	84.4	6.3 6.3	6.3		15.5 15.7	15.6		6.0 5.0	5.5	
					Bottom	11	23.4 23.7	23.5	8.0 8.0	8.0	25.2 24.5	24.8	82.9 85.1	84.0	6.1 6.3	6.2	6.2	15.4 15.8	15.6		4.5 4.2	4.4	
27-Apr-12	Rainy	Moderate	15:30	12	Surface	1	23.4 23.4	23.4	8.2 8.2	8.2	25.9 25.9	25.9	94.9 91.4	93.2	7.0 6.7	6.8	6.8	3.5 3.3	3.4	5.1	3.6 5.2	4.4	4.4
					Middle	6	23.4 23.4	23.4	8.2 8.2	8.2	26.0 26.1	26.0	93.6 91.8	92.7	6.9 6.7	6.8		3.5 3.7	3.6		4.9 3.6	4.3	
					Bottom	11	23.3 23.3	23.3	8.2 8.2	8.2	27.1 26.8	26.9	90.0 90.2	90.1	6.6 6.6	6.6	6.6	8.3 8.3	8.3		4.2 4.5	4.4	
30-Apr-12	Cloudy	Moderate	18:31	11	Surface	1	26.2 26.2	26.2	8.0 8.1	8.0	16.3 16.3	16.3	97.0 92.9	95.0	7.2 6.9	7.0	7.0	1.2 1.2	1.2	2.0	2.7 1.3	2.0	1.7
					Middle	6	24.5 25.0	24.7	8.0 8.0	8.0	23.1 22.5	22.8	97.0 96.1	96.6	7.1 7.0	7.0		1.3 1.3	1.3		1.6 1.1	1.4	
					Bottom	10	23.8 23.8	23.8	8.0 8.0	8.0	26.2 27.0	26.6	89.7 89.8	89.8	6.5 6.5	6.5	6.5	3.3 3.4	3.4		1.5 1.6	1.6	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS10 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:06	11	Surface	1	21.1 21.1	21.1	8.2 8.2	8.2	26.6 26.7	26.7	118.4 117.4	117.9	9.0 8.9	9.0	8.8	3.8 3.7	3.8	5.9	4.1 2.8	3.5	3.7
					Middle	6	20.6 20.5	20.6	8.2 8.2	8.2	28.9 29.0	28.9	112.3 114.8	113.6	8.5 8.7	8.6		7.1 7.0	7.1		3.9 2.6	3.3	
					Bottom	10	20.5 20.0	20.2	8.2 8.2	8.2	29.1 29.5	29.3	115.4 106.6	111.0	8.8 8.2	8.5	8.5	6.6 6.7	6.7		3.7 4.8	4.3	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	18:31	10	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.5 27.5	27.5	94.0 94.2	94.1	7.2 7.2	7.2	7.2	4.2 4.1	4.2	6.0	7.1 5.9	6.5	7.1
					Middle	5	20.5 20.5	20.5	8.1 8.1	8.1	27.8 27.7	27.7	94.8 94.3	94.6	7.3 7.2	7.2		6.3 6.3	6.3		8.0 8.1	8.1	
					Bottom	9	20.4 20.4	20.4	8.2 8.1	8.2	28.2 28.1	28.1	93.5 95.0	94.3	7.2 7.3	7.2	7.2	7.6 7.4	7.5		6.0 7.6	6.8	
9-Apr-12	Sunny	Moderate	09:17	13	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.9 27.9	27.9	92.3 92.7	92.5	7.1 7.1	7.1	7.1	22.8 22.4	22.6	21.6	25.0 24.5	24.8	28.9
					Middle	7	20.5 20.4	20.5	8.1 8.1	8.1	27.9 28.0	28.0	92.4 92.0	92.2	7.1 7.0	7.1		23.6 23.4	23.5		26.3 24.5	25.4	
					Bottom	12	20.4 20.4	20.4	8.1 8.1	8.1	28.1 28.2	28.1	91.8 92.7	92.3	7.0 7.1	7.0	7.0	18.8 18.3	18.6		35.4 37.4	36.4	
11-Apr-12	Fine	Moderate	10:23	12	Surface	1	21.7 21.7	21.7	8.0 8.0	8.0	25.8 26.2	26.0	91.7 91.8	91.8	6.9 6.9	6.9	6.9	11.9 11.5	11.7	13.3	5.4 5.6	5.5	9.7
					Middle	6	21.7 21.7	21.7	8.0 8.0	8.0	26.5 26.7	26.6	91.8 92.1	92.0	6.9 6.9	6.9		13.8 13.6	13.7		8.7 9.8	9.3	
					Bottom	11	21.8 21.8	21.8	8.0 8.0	8.0	27.0 26.9	27.0	91.4 92.1	91.8	6.9 6.9	6.9	6.9	14.2 14.5	14.4		15.2 13.2	14.2	
13-Apr-12	Sunny	Moderate	12:26	12	Surface	1	23.4 23.3	23.3	8.0 8.0	8.0	24.8 24.8	24.8	101.1 97.5	99.3	7.5 7.2	7.3	7.3	4.8 5.0	4.9	8.7	6.7 7.0	6.9	6.9
					Middle	6	23.1 23.0	23.1	8.0 8.0	8.0	25.0 25.1	25.0	99.5 97.8	98.7	7.4 7.3	7.3		6.8 7.7	7.3		6.5 7.1	6.8	
					Bottom	11	21.7 21.8	21.8	8.0 8.0	8.0	28.0 27.9	28.0	92.9 92.3	92.6	6.9 6.9	6.9	6.9	14.2 13.8	14.0		7.5 6.5	7.0	
16-Apr-12	Rainy	Moderate	14:29	12	Surface	1	24.7 24.8	24.8	8.0 8.0	8.0	21.5 21.4	21.4	98.0 102.0	100.0	7.2 7.5	7.4	7.3	4.2 4.3	4.3	5.8	3.7 3.3	3.5	4.6
					Middle	6	23.9 24.3	24.1	8.0 8.0	8.0	24.0 24.2	24.1	97.0 100.3	98.7	7.1 7.3	7.2		5.2 5.6	5.4		7.3 4.8	6.1	
					Bottom	11	23.1 23.3	23.2	8.0 8.0	8.0	26.7 26.6	26.7	94.5 92.9	93.7	6.9 6.8	6.9	6.9	7.8 7.4	7.6		4.6 3.9	4.3	
18-Apr-12	Fine	Moderate	16:39	12	Surface	1	23.6 23.6	23.6	8.0 8.0	8.0	22.4 22.4	22.4	94.4 94.0	94.2	7.0 7.0	7.0	7.0	1.7 2.0	1.9	9.7	2.4 3.0	2.7	3.4
					Middle	6	23.3 23.3	23.3	8.0 8.0	8.0	25.0 25.1	25.0	93.5 93.3	93.4	6.9 6.9	6.9		8.2 8.3	8.3		3.9 2.8	3.4	
					Bottom	11	22.7 22.6	22.7	8.1 8.1	8.1	27.2 27.3	27.2	91.5 91.3	91.4	6.7 6.7	6.7	6.7	18.9 18.7	18.8		4.0 4.0	4.0	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS10 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:57	11	Surface	1	23.6 23.6	23.6	8.0 8.0	8.0	21.3 21.6	21.5	89.4 89.6	89.5	6.7 6.7	6.7	6.7	21.2 21.0	21.1	22.9	5.6 6.2	5.9	9.2
					Middle	6	23.5 23.5	23.5	8.1 8.0	8.1	23.5 23.4	23.5	89.0 89.9	89.5	6.6 6.7	6.6		23.5 23.3	23.4		6.1 8.4	7.3	
					Bottom	10	23.5 23.6	23.5	8.1 8.0	8.1	23.7 23.6	23.7	89.7 88.2	89.0	6.7 6.5	6.6	6.6	24.1 24.4	24.3		15.2 13.8	14.5	
25-Apr-12	Rainy	Moderate	09:33	11	Surface	1	24.2 24.2	24.2	8.0 8.0	8.0	19.9 19.7	19.8	90.3 90.2	90.3	6.8 6.8	6.8	6.7	7.5 7.7	7.6	9.0	7.2 6.8	7.0	6.6
					Middle	6	24.2 24.1	24.1	8.0 8.0	8.0	21.1 21.2	21.2	88.8 88.8	88.8	6.6 6.6	6.6		9.8 10.1	10.0		7.6 5.9	6.8	
					Bottom	10	23.9 23.8	23.8	8.0 8.0	8.0	22.9 22.4	22.6	88.8 87.1	88.0	6.6 6.5	6.5	6.5	9.4 9.4	9.4		5.0 6.8	5.9	
27-Apr-12	Cloudy	Moderate	10:11	12	Surface	1	23.7 23.7	23.7	8.1 8.1	8.1	22.2 22.8	22.5	94.4 96.2	95.3	7.0 7.2	7.1	7.0	5.8 5.9	5.9	8.7	8.4 9.4	8.9	8.6
					Middle	6	23.5 23.5	23.5	8.1 8.1	8.1	25.4 25.4	25.4	93.3 93.7	93.5	6.9 6.9	6.9		4.9 4.7	4.8		8.2 6.9	7.6	
					Bottom	11	23.2 23.3	23.3	8.1 8.1	8.1	28.4 28.4	28.4	89.6 90.2	89.9	6.5 6.5	6.5	6.5	15.3 15.6	15.5		9.0 9.5	9.3	
30-Apr-12	Cloudy	Moderate	14:25	11	Surface	1	25.8 25.9	25.9	8.0 7.8	7.9	17.7 17.7	17.7	93.6 95.5	94.6	6.9 7.0	7.0	7.0	1.4 1.4	1.4	3.1	3.1 2.2	2.7	3.4
					Middle	6	25.3 25.5	25.4	8.0 7.9	8.0	20.4 21.6	21.0	94.7 95.2	95.0	6.9 6.9	6.9		2.5 2.4	2.5		5.3 3.1	4.2	
					Bottom	10	23.6 23.9	23.8	8.0 8.0	8.0	27.5 26.6	27.0	87.2 89.0	88.1	6.3 6.5	6.4	6.4	5.6 5.3	5.5		3.4 3.2	3.3	

Remark:
Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)11 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:49	12	Surface	1	20.6 21.0	20.8	8.2 8.2	8.2	25.9 25.6	25.8	111.5 113.2	112.4	8.6 8.7	8.6	8.4	3.1 3.2	3.2	3.6	3.0 2.3	2.7	3.3
					Middle	6	19.8 19.8	19.8	8.2 8.2	8.2	29.8 29.7	29.7	107.2 108.2	107.7	8.2 8.3	8.2		3.1 3.1	3.1		3.2 3.3	3.3	
					Bottom	11	19.7 19.6	19.6	8.2 8.2	8.2	30.0 30.0	30.0	109.1 105.3	107.2	8.4 8.1	8.2	8.2	4.6 4.6	4.6		3.4 4.1	3.8	
5-Apr-12	Cloudy	Moderate	13:30	11	Surface	1	20.6 20.8	20.7	8.2 8.2	8.2	27.8 27.6	27.7	103.3 104.7	104.0	7.9 8.0	7.9	7.9	7.8 7.9	7.9	8.4	3.7 4.5	4.1	4.5
					Middle	6	20.5 20.5	20.5	8.2 8.2	8.2	28.9 29.0	29.0	101.7 102.6	102.2	7.7 7.8	7.8		8.5 8.7	8.6		4.3 3.4	3.9	
					Bottom	10	20.4 20.5	20.4	8.2 8.2	8.2	29.4 29.2	29.3	100.9 103.4	102.2	7.7 7.8	7.8	7.8	8.6 8.8	8.7		5.9 5.1	5.5	
7-Apr-12	Fine	Moderate	14:40	12	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	28.1 28.0	28.1	96.9 96.9	96.9	7.4 7.4	7.4	7.4	8.1 8.1	8.1	8.3	7.3 7.4	7.4	7.7
					Middle	6	20.3 20.3	20.3	8.2 8.2	8.2	29.0 28.9	29.0	96.4 97.0	96.7	7.4 7.4	7.4		8.4 8.5	8.5		9.0 8.5	8.8	
					Bottom	11	20.2 20.2	20.2	8.2 8.2	8.2	29.4 29.4	29.4	96.8 95.9	96.4	7.4 7.3	7.3	7.3	8.4 8.3	8.4		6.6 7.3	7.0	
9-Apr-12	Sunny	Moderate	13:26	12	Surface	1	20.7 20.6	20.6	8.1 8.1	8.1	28.1 28.2	28.2	93.5 92.9	93.2	7.1 7.1	7.1	7.1	11.6 11.3	11.5	12.3	6.9 6.0	6.5	8.3
					Middle	6	20.4 20.4	20.4	8.1 8.1	8.1	28.5 28.6	28.5	91.9 91.9	91.9	7.0 7.0	7.0		12.7 12.7	12.7		6.7 9.4	8.1	
					Bottom	11	20.3 20.3	20.3	8.1 8.1	8.1	28.8 29.0	28.9	91.1 91.9	91.5	7.0 7.0	7.0	7.0	12.9 12.5	12.7		10.1 10.7	10.4	
11-Apr-12	Sunny	Moderate	15:34	12	Surface	1	22.4 22.6	22.5	8.0 8.0	8.0	25.7 25.5	25.6	93.6 92.2	92.9	7.0 6.9	6.9	6.8	13.4 13.5	13.5	20.4	5.2 6.4	5.8	9.3
					Middle	6	21.5 21.4	21.4	8.0 8.0	8.0	27.4 27.6	27.5	89.1 88.9	89.0	6.7 6.7	6.7		24.2 24.5	24.4		14.3 14.0	14.2	
					Bottom	11	21.2 21.3	21.3	8.0 8.0	8.0	28.0 27.9	27.9	88.4 89.7	89.1	6.7 6.8	6.7	6.7	23.2 23.5	23.4		8.1 7.9	8.0	
13-Apr-12	Sunny	Moderate	16:59	12	Surface	1	23.4 23.3	23.3	8.0 8.1	8.0	24.6 24.8	24.7	97.9 99.0	98.5	7.2 7.3	7.3	7.1	3.3 2.9	3.1	4.6	3.9 3.9	3.9	5.7
					Middle	6	22.5 22.2	22.3	8.0 8.0	8.0	26.2 26.6	26.4	95.5 89.3	92.4	7.1 6.7	6.9		3.7 3.3	3.5		7.6 6.3	7.0	
					Bottom	11	21.7 22.0	21.8	8.1 8.0	8.0	28.1 28.1	28.1	88.4 88.2	88.3	6.6 6.6	6.6	6.6	7.1 7.1	7.1		7.2 5.1	6.2	
16-Apr-12	Fine	Moderate	12:17	12	Surface	1	24.4 24.4	24.4	8.0 8.0	8.0	20.7 20.6	20.7	99.0 99.9	99.5	7.4 7.4	7.4	7.2	1.4 1.4	1.4	1.5	2.4 3.4	2.9	3.3
					Middle	6	24.1 23.1	23.6	8.0 8.0	8.0	25.0 25.9	25.5	98.2 93.8	96.0	7.2 6.9	7.0		1.5 1.4	1.5		3.2 2.9	3.1	
					Bottom	11	22.6 22.5	22.5	8.0 8.0	8.0	28.0 28.1	28.0	91.6 89.4	90.5	6.7 6.6	6.7	6.7	1.6 1.5	1.6		4.8 2.9	3.9	
18-Apr-12	Fine	Moderate	13:14	13	Surface	1	23.0 23.1	23.1	8.0 8.0	8.0	24.2 24.2	24.2	95.4 91.7	93.6	7.1 6.8	7.0	6.9	2.6 2.7	2.7	7.8	2.8 3.9	3.4	3.2
					Middle	7	22.6 22.6	22.6	8.1 8.1	8.1	26.7 26.8	26.8	92.5 90.7	91.6	6.9 6.7	6.8		8.7 8.3	8.5		3.8 2.6	3.2	
					Bottom	12	22.4 22.4	22.4	8.1 8.1	8.1	27.4 28.2	27.8	89.9 89.0	89.5	6.7 6.6	6.6	6.6	12.3 12.1	12.2		3.5 2.7	3.1	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:

- * DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)11 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:45	13	Surface	1	23.4 23.6	23.5	8.0 8.0	8.0	21.9 21.8	21.8	88.0 87.5	87.8	6.6 6.5	6.6	6.6	9.7 9.5	9.6	13.5	5.6 5.4	5.5	7.0
					Middle	7	23.2 23.2	23.2	8.1 8.1	8.1	24.6 24.8	24.7	86.6 88.2	87.4	6.4 6.5	6.5		15.5 15.7	15.6		9.6 8.9	9.3	
					Bottom	12	23.2 23.2	23.2	8.1 8.1	8.1	25.5 25.5	25.5	88.6 86.6	87.6	6.5 6.4	6.5	6.5	15.5 15.1	15.3		6.7 5.8	6.3	
25-Apr-12	Fine	Moderate	14:06	12	Surface	1	24.2 24.3	24.3	8.0 8.0	8.0	18.6 18.6	18.6	86.9 87.4	87.2	6.6 6.6	6.6	6.4	7.5 7.5	7.5	10.2	7.1 4.8	6.0	7.8
					Middle	6	23.7 23.6	23.7	8.0 8.0	8.0	23.3 23.3	23.3	83.9 84.4	84.2	6.2 6.3	6.2		11.2 11.3	11.3		9.0 9.2	9.1	
					Bottom	11	23.2 23.4	23.3	8.1 8.0	8.1	26.7 26.5	26.6	82.9 85.0	84.0	6.1 6.2	6.2	6.2	11.8 11.7	11.8		7.2 9.1	8.2	
27-Apr-12	Rainy	Moderate	15:23	13	Surface	1	23.4 23.3	23.4	8.2 8.1	8.2	26.1 26.2	26.2	91.5 100.5	96.0	6.7 7.4	7.0	6.9	3.4 3.1	3.3	6.2	4.1 2.8	3.5	4.5
					Middle	7	23.4 23.2	23.3	8.2 8.2	8.2	26.5 27.3	26.9	96.1 90.1	93.1	7.0 6.6	6.8		3.9 4.1	4.0		3.8 4.4	4.1	
					Bottom	12	23.1 23.0	23.1	8.2 8.2	8.2	28.5 28.6	28.5	91.3 87.4	89.4	6.6 6.4	6.5	6.5	11.3 11.5	11.4		6.0 5.5	5.8	
30-Apr-12	Cloudy	Moderate	18:23	12	Surface	1	26.2 26.4	26.3	8.0 7.8	7.9	16.0 16.0	16.0	94.2 95.5	94.9	7.0 7.0	7.0	6.9	1.2 1.2	1.2	1.7	1.1 0.8	1.0	1.0
					Middle	6	24.2 24.7	24.5	8.0 8.0	8.0	22.2 20.3	21.3	89.9 92.8	91.4	6.7 6.9	6.8		1.4 1.4	1.4		1.1 1.6	1.4	
					Bottom	11	23.6 23.7	23.6	8.0 8.0	8.0	27.0 26.9	27.0	85.9 86.4	86.2	6.2 6.3	6.3	6.3	2.4 2.5	2.5		<0.5 0.8	0.7	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)11 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	14:58	12	Surface	1	20.5 21.0	20.8	8.2 8.2	8.2	26.4 26.1	26.3	110.5 111.8	111.2	8.5 8.6	8.5	8.4	2.8 2.9	2.9	3.4	2.8 4.0	3.4	4.9
					Middle	6	20.0 20.0	20.0	8.2 8.2	8.2	29.3 29.2	29.2	108.2 106.6	107.4	8.3 8.2	8.2		4.0 3.8	3.9		5.2 6.2	5.7	
					Bottom	11	20.1 19.9	20.0	8.2 8.2	8.2	29.3 29.6	29.4	109.6 105.6	107.6	8.4 8.1	8.2	8.2	3.3 3.2	3.3		6.1 5.0	5.6	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	18:25	11	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.9 27.9	27.9	94.5 94.2	94.4	7.2 7.2	7.2	7.2	11.3 11.4	11.4	13.4	5.6 5.5	5.6	5.3
					Middle	6	20.3 20.4	20.3	8.2 8.2	8.2	28.6 28.4	28.5	94.5 94.0	94.3	7.2 7.2	7.2		14.3 14.2	14.3		5.3 4.7	5.0	
					Bottom	10	20.3 20.4	20.4	8.2 8.2	8.2	28.6 28.4	28.5	94.7 93.7	94.2	7.2 7.2	7.2	7.2	14.5 14.4	14.5		5.3 5.1	5.2	
9-Apr-12	Sunny	Moderate	09:26	13	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	28.4 28.4	28.4	92.7 92.8	92.8	7.1 7.1	7.1	7.1	8.9 8.8	8.9	11.6	6.7 5.5	6.1	17.5
					Middle	7	20.3 20.3	20.3	8.1 8.1	8.1	28.8 28.8	28.8	91.8 91.8	91.8	7.0 7.0	7.0		12.5 12.9	12.7		5.6 6.6	6.1	
					Bottom	12	20.3 20.3	20.3	8.1 8.1	8.1	28.9 28.9	28.9	91.7 91.1	91.4	7.0 7.0	7.0	7.0	12.9 13.3	13.1		39.0 41.4	40.2	
11-Apr-12	Fine	Moderate	10:31	13	Surface	1	21.6 21.6	21.6	8.0 8.0	8.0	26.4 26.5	26.5	91.0 90.7	90.9	6.9 6.9	6.9	6.9	13.8 13.4	13.6	19.9	4.6 4.2	4.4	9.1
					Middle	7	21.3 21.3	21.3	8.0 8.0	8.0	27.8 27.8	27.8	90.1 89.9	90.0	6.8 6.8	6.8		22.1 22.6	22.4		7.5 9.5	8.5	
					Bottom	12	21.2 21.3	21.3	8.1 8.0	8.1	28.1 28.1	28.1	90.0 89.7	89.9	6.8 6.8	6.8	6.8	23.8 23.3	23.6		14.2 14.3	14.3	
13-Apr-12	Sunny	Moderate	12:35	12	Surface	1	23.2 23.3	23.3	8.0 8.0	8.0	23.3 23.3	23.3	95.9 99.0	97.5	7.2 7.4	7.3	7.2	2.4 2.7	2.6	5.9	2.8 2.9	2.9	3.4
					Middle	6	21.8 21.8	21.8	8.0 8.0	8.0	28.1 28.1	28.1	96.2 94.9	95.6	7.2 7.1	7.1		5.6 5.7	5.7		3.7 5.0	4.4	
					Bottom	11	21.6 21.6	21.6	8.0 8.1	8.1	28.4 28.3	28.4	91.9 92.4	92.2	6.9 6.9	6.9	6.9	9.7 9.2	9.5		2.1 3.4	2.8	
16-Apr-12	Rainy	Moderate	14:20	12	Surface	1	24.8 24.5	24.7	8.0 8.0	8.0	19.8 20.5	20.2	101.8 96.1	99.0	7.6 7.1	7.3	7.2	2.1 2.1	2.1	2.8	3.5 2.4	3.0	2.3
					Middle	6	23.5 23.3	23.4	8.0 8.0	8.0	24.9 25.0	25.0	94.5 98.2	96.4	7.0 7.3	7.1		2.1 2.3	2.2		1.9 2.3	2.1	
					Bottom	11	22.3 22.7	22.5	8.0 8.0	8.0	28.6 28.1	28.4	88.4 92.4	90.4	6.5 6.8	6.7	6.7	4.1 4.0	4.1		1.6 1.9	1.8	
18-Apr-12	Fine	Moderate	16:33	13	Surface	1	23.6 23.4	23.5	8.0 8.0	8.0	22.8 23.6	23.2	95.5 96.2	95.9	7.1 7.2	7.1	7.0	2.7 3.1	2.9	7.2	3.2 3.5	3.4	3.5
					Middle	7	22.7 23.0	22.9	8.0 8.0	8.0	26.5 25.7	26.1	92.8 93.6	93.2	6.9 6.9	6.9		4.5 4.6	4.6		4.0 3.0	3.5	
					Bottom	12	22.4 22.4	22.4	8.1 8.0	8.1	27.9 27.9	27.9	87.0 89.1	88.1	6.4 6.6	6.5	6.5	13.8 14.3	14.1		3.5 3.6	3.6	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)11 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:49	12	Surface	1	23.7 23.7	23.7	8.0 8.0	8.0	20.6 20.4	20.5	85.0 84.7	84.9	6.4 6.4	6.4	6.4	11.1 11.1	11.1	15.6	5.2 5.3	5.3	5.9
					Middle	6	23.3 23.2	23.3	8.1 8.1	8.1	23.5 24.5	24.0	85.7 84.4	85.1	6.4 6.3	6.3		14.0 14.1	14.1		6.3 5.4	5.9	
					Bottom	11	23.2 23.2	23.2	8.1 8.1	8.1	25.3 25.2	25.3	83.6 85.7	84.7	6.2 6.3	6.3	6.3	21.3 22.1	21.7		6.8 5.9	6.4	
25-Apr-12	Rainy	Moderate	09:43	12	Surface	1	24.2 24.1	24.2	8.0 8.0	8.0	19.9 20.0	20.0	87.7 88.5	88.1	6.6 6.6	6.6	6.5	6.2 6.2	6.2	9.7	7.6 6.4	7.0	7.5
					Middle	6	23.7 23.7	23.7	8.0 8.0	8.0	22.2 22.5	22.4	85.0 85.6	85.3	6.3 6.4	6.4		10.1 9.9	10.0		6.5 7.3	6.9	
					Bottom	11	23.5 23.4	23.5	8.0 8.0	8.0	24.6 24.8	24.7	85.8 84.8	85.3	6.3 6.3	6.3	6.3	13.2 12.8	13.0		8.1 9.0	8.6	
27-Apr-12	Cloudy	Moderate	10:18	13	Surface	1	23.5 23.5	23.5	8.1 8.1	8.1	24.1 24.1	24.1	100.9 93.0	97.0	7.5 6.9	7.2	7.1	2.4 2.4	2.4	4.5	3.4 3.5	3.5	4.7
					Middle	7	23.4 23.4	23.4	8.1 8.1	8.1	27.6 27.0	27.3	93.0 96.3	94.7	6.8 7.0	6.9		2.6 2.6	2.6		4.1 5.4	4.8	
					Bottom	12	23.2 23.2	23.2	8.1 8.1	8.1	28.6 28.6	28.6	89.7 90.8	90.3	6.5 6.6	6.5	6.5	8.4 8.4	8.4		5.1 6.2	5.7	
30-Apr-12	Cloudy	Moderate	14:31	12	Surface	1	26.0 26.3	26.1	8.1 7.4	7.8	15.7 15.6	15.7	90.9 98.8	94.9	6.8 7.3	7.0	7.0	1.9 1.8	1.9	1.7	3.5 2.5	3.0	3.1
					Middle	6	24.6 24.2	24.4	7.9 8.0	8.0	23.1 23.6	23.4	97.1 92.7	94.9	7.1 6.8	6.9		1.4 1.5	1.5		2.1 3.0	2.6	
					Bottom	11	23.9 24.0	23.9	8.0 8.0	8.0	26.4 26.6	26.5	88.9 91.9	90.4	6.5 6.7	6.6	6.6	1.6 1.7	1.7		2.8 4.4	3.6	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)16 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	10:39	7	Surface	1	20.6 20.5	20.6	8.2 8.2	8.2	28.6 28.6	28.6	112.1 113.2	112.7	8.5 8.6	8.6	8.5	1.8 1.9	1.9	2.6	3.4 3.5	3.5	4.4
					Middle	4	20.3 20.3	20.3	8.2 8.2	8.2	29.8 29.8	29.8	110.4 109.9	110.2	8.4 8.3	8.4		2.7 2.5	2.6		5.2 4.2	4.7	
					Bottom	6	19.7 19.8	19.7	8.2 8.2	8.2	30.7 30.7	30.7	105.2 105.7	105.5	8.0 8.1	8.0	8.0	3.2 3.1	3.2		4.6 5.6	5.1	
5-Apr-12	Cloudy	Moderate	11:59	6	Surface	1	20.6 20.6	20.6	8.2 8.2	8.2	29.6 29.6	29.6	101.2 102.6	101.9	7.7 7.8	7.7	7.7	3.8 3.6	3.7	4.1	6.6 7.0	6.8	6.7
					Middle	3	20.5 20.5	20.5	8.2 8.2	8.2	29.7 29.6	29.7	102.8 101.5	102.2	7.8 7.7	7.7		3.8 3.8	3.8		6.8 5.6	6.2	
					Bottom	5	20.5 20.5	20.5	8.2 8.2	8.2	29.8 29.8	29.8	102.6 101.7	102.2	7.8 7.7	7.7	7.7	4.8 4.5	4.7		5.9 8.5	7.2	
7-Apr-12	Fine	Moderate	13:37	6	Surface	1	20.4 20.4	20.4	8.2 8.1	8.2	29.2 29.2	29.2	103.9 96.8	100.4	7.9 7.4	7.6	7.6	6.7 6.8	6.8	9.0	16.3 16.1	16.2	14.7
					Middle	3	20.4 20.4	20.4	8.1 8.1	8.1	29.2 29.2	29.2	96.4 102.3	99.4	7.3 7.8	7.6		8.2 8.9	8.6		14.0 14.6	14.3	
					Bottom	5	20.4 20.4	20.4	8.1 8.1	8.1	29.2 29.2	29.2	99.7 96.1	97.9	7.6 7.3	7.4	7.4	11.1 11.9	11.5		14.2 13.0	13.6	
9-Apr-12	Sunny	Moderate	14:23	6	Surface	1	20.6 20.6	20.6	8.1 8.1	8.1	28.9 28.9	28.9	92.2 92.4	92.3	7.0 7.0	7.0	7.0	16.3 16.9	16.6	18.7	10.3 10.1	10.2	16.8
					Middle	3	20.5 20.5	20.5	8.1 8.1	8.1	29.0 29.1	29.1	91.7 91.6	91.7	7.0 7.0	7.0		19.8 20.0	19.9		18.6 19.3	19.0	
					Bottom	5	20.4 20.4	20.4	8.1 8.1	8.1	29.2 29.1	29.2	91.4 91.5	91.5	7.0 7.0	7.0	7.0	19.4 19.5	19.5		21.2 21.0	21.1	
11-Apr-12	Sunny	Moderate	16:38	7	Surface	1	22.3 22.8	22.5	8.1 8.1	8.1	27.0 26.5	26.8	96.3 98.0	97.2	7.2 7.2	7.2	7.0	4.3 4.1	4.2	10.5	4.6 5.0	4.8	7.6
					Middle	4	21.8 21.9	21.9	8.1 8.1	8.1	27.5 27.4	27.5	91.1 92.1	91.6	6.8 6.9	6.8		7.7 7.3	7.5		6.1 6.3	6.2	
					Bottom	6	21.6 21.5	21.5	8.1 8.1	8.1	28.0 28.1	28.1	90.4 90.0	90.2	6.8 6.8	6.8	6.8	20.3 19.5	19.9		10.9 12.4	11.7	
13-Apr-12	Sunny	Moderate	18:30	7	Surface	1	23.3 23.2	23.2	8.1 8.1	8.1	25.0 25.1	25.1	96.7 97.2	97.0	7.2 7.2	7.2	7.1	2.5 2.6	2.6	4.0	5.4 2.7	4.1	4.1
					Middle	4	23.2 23.2	23.2	8.1 8.1	8.1	25.3 25.2	25.2	94.3 96.1	95.2	7.0 7.1	7.0		3.9 3.7	3.8		4.9 3.2	4.1	
					Bottom	6	22.4 22.4	22.4	8.1 8.1	8.1	27.4 26.8	27.1	94.5 92.1	93.3	7.0 6.8	6.9	6.9	5.4 5.7	5.6		5.3 2.6	4.0	
16-Apr-12	Fine	Moderate	11:11	7	Surface	1	24.2 24.3	24.3	8.0 8.0	8.0	22.0 22.0	22.0	98.2 98.9	98.6	7.3 7.3	7.3	7.2	2.0 2.0	2.0	2.8	2.8 3.6	3.2	2.9
					Middle	4	24.1 24.1	24.1	8.0 8.0	8.0	23.1 22.9	23.0	95.9 97.6	96.8	7.1 7.2	7.1		2.0 1.8	1.9		5.8 3.8	4.8	
					Bottom	6	23.2 23.0	23.1	8.0 8.0	8.0	26.5 27.1	26.8	86.7 83.8	85.3	6.4 6.2	6.3	6.3	4.2 4.5	4.4		0.6 1.0	0.8	
18-Apr-12	Fine	Moderate	12:17	7	Surface	1	22.9 22.9	22.9	8.1 8.1	8.1	26.2 26.2	26.2	92.0 92.1	92.1	6.8 6.8	6.8	6.8	3.9 3.6	3.8	7.8	5.5 7.0	6.3	4.9
					Middle	4	22.8 22.8	22.8	8.1 8.1	8.1	26.9 26.8	26.9	90.6 90.5	90.6	6.7 6.7	6.7		5.9 5.7	5.8		4.6 3.5	4.1	
					Bottom	6	22.6 22.5	22.6	8.1 8.1	8.1	28.1 28.7	28.4	88.6 87.9	88.3	6.5 6.4	6.5	6.5	13.4 14.0	13.7		5.0 3.3	4.2	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		-	- -		-	- -	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)16 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	14:35	6	Surface	1	23.5 23.5	23.5	8.1 8.1	8.1	24.3 24.2	24.3	89.5 91.8	90.7	6.6 6.8	6.7	6.7	5.5 5.5	5.5	9.5	8.2 8.3	8.3	6.9
					Middle	3	23.5 23.5	23.5	8.1 8.1	8.1	24.4 24.4	24.4	88.5 90.4	89.5	6.5 6.7	6.6		5.4 5.8	5.6		7.8 6.6	7.2	
					Bottom	5	23.0 23.0	23.0	8.1 8.1	8.1	26.3 26.3	26.3	85.6 84.0	84.8	6.3 6.2	6.3		17.3 17.4	17.4		4.6 6.0	5.3	
25-Apr-12	Fine	Moderate	14:46	7	Surface	1	24.6 24.5	24.6	8.0 8.0	8.0	19.9 20.1	20.0	96.7 92.9	94.8	7.2 6.9	7.0	6.9	3.3 3.1	3.2	5.0	6.9 6.6	6.8	5.8
					Middle	4	24.3 24.4	24.4	8.0 8.0	8.0	22.1 22.6	22.4	93.9 92.1	93.0	6.9 6.8	6.8		4.4 4.8	4.6		6.0 5.0	5.5	
					Bottom	6	23.8 23.7	23.8	8.0 8.0	8.0	23.6 23.8	23.7	89.0 88.6	88.8	6.6 6.5	6.6		7.4 7.2	7.3		4.6 5.5	5.1	
27-Apr-12	Rainy	Moderate	17:01	6	Surface	1	23.6 23.6	23.6	8.1 8.1	8.1	24.6 24.6	24.6	93.5 94.7	94.1	6.9 7.0	6.9	6.8	7.8 7.7	7.8	8.5	9.3 8.4	8.9	7.7
					Middle	3	23.4 23.4	23.4	8.1 8.1	8.1	26.6 26.6	26.6	91.4 90.7	91.1	6.7 6.6	6.7		6.9 7.0	7.0		6.9 7.5	7.2	
					Bottom	5	23.2 23.3	23.3	8.1 8.1	8.1	28.1 28.1	28.1	91.6 91.1	91.4	6.7 6.6	6.6		10.9 10.6	10.8		7.3 6.6	7.0	
30-Apr-12	Cloudy	Moderate	20:22	7	Surface	1	25.9 25.9	25.9	8.1 8.1	8.1	17.0 17.0	17.0	95.5 95.6	95.6	7.1 7.1	7.1	6.9	2.9 2.6	2.8	3.7	1.7 1.4	1.6	1.1
					Middle	4	25.4 25.4	25.4	8.1 8.1	8.1	18.3 18.4	18.4	91.2 91.4	91.3	6.7 6.8	6.7		3.3 3.5	3.4		0.6 0.5	0.6	
					Bottom	6	24.2 24.3	24.3	8.0 8.0	8.0	22.7 22.6	22.7	85.8 86.0	85.9	6.3 6.3	6.3		5.0 4.7	4.9		1.4 0.9	1.2	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)16 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:33	6	Surface	1	20.6 20.5	20.6	8.2 8.2	8.2	28.7 28.7	28.7	115.6 115.3	115.5	8.8 8.8	8.8	8.8	2.1 2.0	2.1	2.3	2.4 4.2	3.3	4.5
					Middle	3	20.5 20.5	20.5	8.2 8.2	8.2	29.0 28.9	29.0	114.8 114.4	114.6	8.7 8.7	8.7		2.3 2.2	2.3		4.1 4.9	4.5	
					Bottom	5	20.4 20.4	20.4	8.2 8.2	8.2	29.3 29.3	29.3	109.1 109.9	109.5	8.3 8.4	8.3	8.3	2.7 2.5	2.6		5.2 6.4	5.8	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	19:30	6	Surface	1	20.4 20.4	20.4	8.2 8.2	8.2	28.8 28.8	28.8	96.0 99.8	97.9	7.3 7.6	7.5	7.5	3.2 3.6	3.4	6.0	4.7 5.9	5.3	4.8
					Middle	3	20.4 20.4	20.4	8.2 8.2	8.2	28.9 29.1	29.0	95.7 97.5	96.6	7.3 7.4	7.4		4.2 4.3	4.3		5.0 5.4	5.2	
					Bottom	5	20.4 20.4	20.4	8.2 8.2	8.2	29.1 29.1	29.1	95.3 96.5	95.9	7.3 7.3	7.3	7.3	10.1 10.5	10.3		3.8 4.1	4.0	
9-Apr-12	Sunny	Moderate	08:19	7	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.6 28.6	28.6	92.8 92.9	92.9	7.1 7.1	7.1	7.1	6.9 6.3	6.6	14.9	5.0 5.3	5.2	7.2
					Middle	4	20.5 20.5	20.5	8.1 8.1	8.1	28.7 28.7	28.7	92.7 92.4	92.6	7.1 7.0	7.0		12.5 11.8	12.2		5.4 5.1	5.3	
					Bottom	6	20.5 20.5	20.5	8.1 8.1	8.1	28.7 28.6	28.6	92.3 93.0	92.7	7.0 7.1	7.1	7.1	25.3 26.3	25.8		11.2 10.7	11.0	
11-Apr-12	Fine	Moderate	09:12	7	Surface	1	21.7 21.7	21.7	8.0 8.0	8.0	25.8 26.0	25.9	88.9 88.9	88.9	6.7 6.7	6.7	6.7	4.6 4.8	4.7	12.4	5.2 7.1	6.2	6.0
					Middle	4	21.6 21.6	21.6	8.0 8.0	8.0	26.8 26.9	26.8	88.9 89.6	89.3	6.7 6.8	6.7		8.4 8.7	8.6		5.1 5.0	5.1	
					Bottom	6	21.6 21.6	21.6	8.1 8.1	8.1	28.4 28.5	28.5	87.6 87.9	87.8	6.5 6.6	6.6	6.6	23.6 24.3	24.0		6.0 7.4	6.7	
13-Apr-12	Sunny	Moderate	10:57	7	Surface	1	23.0 22.8	22.9	8.0 8.0	8.0	23.7 23.8	23.7	92.0 92.0	92.0	6.9 6.9	6.9	6.9	3.6 3.7	3.7	5.3	3.1 2.2	2.7	3.8
					Middle	4	22.4 22.5	22.4	8.0 8.0	8.0	26.4 26.0	26.2	90.8 90.6	90.7	6.8 6.8	6.8		4.9 4.7	4.8		2.9 3.1	3.0	
					Bottom	6	22.2 22.1	22.2	8.0 8.0	8.0	27.1 27.4	27.2	90.9 89.7	90.3	6.8 6.7	6.7	6.7	7.5 7.1	7.3		5.0 6.1	5.6	
16-Apr-12	Rainy	Moderate	15:30	8	Surface	1	24.2 24.2	24.2	8.0 8.0	8.0	22.5 22.1	22.3	97.4 97.3	97.4	7.2 7.2	7.2	7.0	1.7 1.8	1.8	3.5	1.8 2.1	2.0	2.1
					Middle	4	23.8 23.8	23.8	8.0 8.0	8.0	24.4 24.6	24.5	92.6 93.3	93.0	6.8 6.9	6.8		4.1 3.8	4.0		2.7 2.4	2.6	
					Bottom	7	23.5 23.2	23.3	8.0 8.0	8.0	25.2 26.3	25.7	92.4 88.4	90.4	6.8 6.5	6.7	6.7	4.8 4.6	4.7		1.4 1.9	1.7	
18-Apr-12	Fine	Moderate	17:20	7	Surface	1	23.3 23.3	23.3	8.1 8.1	8.1	24.9 24.8	24.9	94.7 95.0	94.9	7.0 7.0	7.0	6.8	1.9 1.8	1.9	8.7	3.6 4.1	3.9	4.1
					Middle	4	22.6 22.6	22.6	8.1 8.1	8.1	27.1 27.1	27.1	88.6 88.1	88.4	6.6 6.5	6.5		9.7 10.5	10.1		5.5 4.3	4.9	
					Bottom	6	22.6 22.6	22.6	8.1 8.1	8.1	27.8 27.8	27.8	87.3 87.6	87.5	6.4 6.5	6.4	6.4	14.1 13.8	14.0		4.0 3.2	3.6	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS(Mf)16 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:21	6	Surface	1	23.8 23.8	23.8	8.0 8.0	8.0	21.7 21.5	21.6	95.0 87.4	91.2	7.1 6.5	6.8	6.7	4.6 4.4	4.5	8.3	5.3 5.2	5.3	5.0
					Middle	3	23.6 23.6	23.6	8.0 8.0	8.0	23.6 23.6	23.6	89.5 86.4	88.0	6.6 6.4	6.5		6.9 6.5	6.7		3.5 4.4	4.0	
					Bottom	5	23.4 23.4	23.4	8.1 8.1	8.1	24.5 24.4	24.4	85.5 86.9	86.2	6.3 6.4	6.4		13.7 13.7	13.7		5.4 5.9	5.7	
25-Apr-12	Rainy	Moderate	08:23	6	Surface	1	24.3 24.2	24.3	8.0 8.0	8.0	19.2 19.4	19.3	96.7 90.9	93.8	7.3 6.8	7.0	7.0	4.3 4.0	4.2	4.6	4.2 4.2	4.2	4.0
					Middle	3	24.1 24.2	24.1	8.0 8.0	8.0	20.8 20.7	20.8	90.6 94.0	92.3	6.8 7.0	6.9		4.5 4.4	4.5		2.4 3.7	3.1	
					Bottom	5	24.0 24.0	24.0	8.0 8.0	8.0	22.2 22.4	22.3	92.6 89.5	91.1	6.9 6.6	6.7		4.9 5.0	5.0		4.4 5.2	4.8	
27-Apr-12	Cloudy	Moderate	08:55	7	Surface	1	23.5 23.5	23.5	8.1 8.1	8.1	24.3 24.3	24.3	90.7 90.1	90.4	6.7 6.7	6.7	6.6	2.7 2.9	2.8	4.0	4.2 5.4	4.8	4.0
					Middle	4	23.5 23.5	23.5	8.1 8.1	8.1	25.8 25.6	25.7	87.6 88.0	87.8	6.4 6.5	6.4		4.2 3.9	4.1		2.3 3.0	2.7	
					Bottom	6	23.3 23.3	23.3	8.1 8.1	8.1	27.3 27.2	27.3	90.0 90.9	90.5	6.6 6.6	6.6		5.1 4.9	5.0		4.6 4.2	4.4	
30-Apr-12	Cloudy	Moderate	12:43	6	Surface	1	25.8 25.7	25.8	8.0 8.0	8.0	16.9 16.9	16.9	93.9 93.5	93.7	7.0 6.9	6.9	6.8	2.0 2.2	2.1	3.0	2.8 2.8	2.8	2.5
					Middle	3	24.7 24.6	24.7	8.0 8.0	8.0	18.9 18.9	18.9	89.3 89.3	89.3	6.7 6.7	6.7		3.0 3.1	3.1		2.3 2.1	2.2	
					Bottom	5	24.2 24.2	24.2	8.0 8.0	8.0	22.9 22.9	22.9	90.7 90.9	90.8	6.7 6.7	6.7		4.0 3.7	3.9		2.7 2.1	2.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:41	8	Surface	1	20.8 20.7	20.8	8.2 8.2	8.2	29.6 29.5	29.6	111.4 111.3	111.4	8.4 8.4	8.4	8.4	1.4 1.3	1.4	2.0	3.7 3.3	3.5	5.0
					Middle	4	20.8 20.8	20.8	8.2 8.2	8.2	29.7 29.7	29.7	110.1 110.4	110.3	8.3 8.3	8.3		1.7 1.8	1.8		5.1 6.4	5.8	
					Bottom	7	20.7 20.8	20.7	8.2 8.2	8.2	30.0 30.0	30.0	108.5 109.8	109.2	8.2 8.3	8.2	8.2	2.7 2.9	2.8		6.5 4.8	5.7	
5-Apr-12	Cloudy	Moderate	12:48	8	Surface	1	20.8 21.2	21.0	8.2 8.1	8.2	29.5 29.3	29.4	102.7 101.6	102.2	7.7 7.6	7.7	7.7	4.0 3.9	4.0	3.9	6.9 5.4	6.2	6.5
					Middle	4	20.9 20.9	20.9	8.2 8.2	8.2	29.5 29.5	29.5	102.7 102.0	102.4	7.7 7.7	7.7		3.9 3.6	3.8		7.0 5.5	6.3	
					Bottom	7	20.7 20.8	20.8	8.2 8.2	8.2	29.7 29.6	29.7	101.8 102.4	102.1	7.7 7.7	7.7	7.7	4.0 3.9	4.0		6.8 6.9	6.9	
7-Apr-12	Fine	Moderate	14:26	8	Surface	1	20.1 20.3	20.2	8.2 8.2	8.2	29.4 29.2	29.3	103.4 98.8	101.1	7.9 7.5	7.7	7.7	2.1 2.6	2.4	5.0	8.1 6.8	7.5	7.5
					Middle	4	20.3 20.3	20.3	8.2 8.2	8.2	29.6 29.7	29.7	98.1 102.3	100.2	7.4 7.8	7.6		4.1 4.4	4.3		6.8 8.4	7.6	
					Bottom	7	20.3 20.2	20.2	8.2 8.2	8.2	30.3 30.6	30.5	97.4 99.6	98.5	7.4 7.5	7.5	7.5	8.1 8.4	8.3		6.9 7.9	7.4	
9-Apr-12	Sunny	Moderate	13:25	10	Surface	1	20.6 20.6	20.6	8.1 8.1	8.1	29.1 29.1	29.1	94.7 94.7	94.7	7.2 7.2	7.2	7.2	11.6 11.7	11.7	13.2	16.6 17.3	17.0	16.4
					Middle	5	20.6 20.6	20.6	8.1 8.1	8.1	29.1 29.1	29.1	94.3 94.2	94.3	7.1 7.1	7.1		12.8 13.0	12.9		16.1 14.7	15.4	
					Bottom	9	20.6 20.6	20.6	8.1 8.1	8.1	29.1 29.1	29.1	93.9 93.9	93.9	7.1 7.1	7.1	7.1	14.5 15.7	15.1		17.8 15.5	16.7	
11-Apr-12	Sunny	Moderate	15:42	9	Surface	1	22.9 22.9	22.9	8.0 8.0	8.0	27.1 27.2	27.1	100.9 100.5	100.7	7.4 7.4	7.4	7.3	5.3 5.0	5.2	7.6	9.0 7.8	8.4	8.1
					Middle	5	22.1 22.3	22.2	8.0 8.0	8.0	27.5 27.4	27.4	96.2 97.0	96.6	7.2 7.2	7.2		7.5 7.5	7.5		7.6 7.6	7.6	
					Bottom	8	21.9 21.9	21.9	8.0 8.0	8.0	27.6 27.7	27.6	95.5 94.6	95.1	7.1 7.1	7.1	7.1	10.0 10.2	10.1		7.9 8.6	8.3	
13-Apr-12	Sunny	Moderate	17:39	9	Surface	1	23.7 23.7	23.7	8.1 8.1	8.1	26.8 26.8	26.8	95.4 94.9	95.2	6.9 6.9	6.9	6.9	8.0 8.1	8.1	8.9	5.0 6.0	5.5	7.5
					Middle	5	22.4 22.4	22.4	8.1 8.1	8.1	28.2 28.2	28.2	93.8 93.4	93.6	6.9 6.9	6.9		9.1 8.8	9.0		6.8 8.1	7.5	
					Bottom	8	22.3 22.1	22.2	8.1 8.2	8.2	28.4 28.6	28.5	94.7 93.2	94.0	7.0 6.9	6.9	6.9	9.4 9.6	9.5		9.5 9.7	9.6	
16-Apr-12	Fine	Moderate	12:12	9	Surface	1	24.7 24.5	24.6	8.0 8.0	8.0	23.1 23.6	23.3	96.8 95.0	95.9	7.1 6.9	7.0	6.8	3.4 3.5	3.5	5.6	4.0 2.9	3.5	3.5
					Middle	5	23.7 23.8	23.8	8.0 8.0	8.0	26.2 26.1	26.1	89.9 90.1	90.0	6.6 6.6	6.6		5.2 5.5	5.4		2.2 3.2	2.7	
					Bottom	8	23.1 23.1	23.1	8.0 8.0	8.0	27.7 27.7	27.7	89.0 88.3	88.7	6.5 6.5	6.5	6.5	7.6 7.9	7.8		4.3 4.0	4.2	
18-Apr-12	Fine	Moderate	13:15	8	Surface	1	22.8 22.8	22.8	8.1 8.1	8.1	25.8 25.9	25.9	93.4 93.8	93.6	6.9 7.0	6.9	6.9	4.0 4.5	4.3	7.7	5.4 5.3	5.4	5.6
					Middle	4	22.5 22.6	22.6	8.1 8.1	8.1	26.7 26.3	26.5	91.6 92.2	91.9	6.8 6.8	6.8		6.1 5.6	5.9		6.6 5.9	6.3	
					Bottom	7	22.2 22.2	22.2	8.1 8.1	8.1	28.4 28.3	28.4	90.0 91.5	90.8	6.7 6.8	6.7	6.7	13.0 12.5	12.8		4.5 5.4	5.0	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:39	9	Surface	1	24.3 24.0	24.1	8.1 8.0	8.1	23.5 23.8	23.6	101.0 91.8	96.4	7.4 6.7	7.1	7.0	5.1 5.4	5.3	7.2	7.2 6.5	6.9	6.1
					Middle	5	23.5 23.5	23.5	8.1 8.1	8.1	25.9 25.8	25.9	90.2 94.2	92.2	6.6 6.9	6.8		7.2 6.7	7.0		5.7 5.6	5.7	
					Bottom	8	23.2 23.3	23.3	8.1 8.1	8.1	26.5 26.3	26.4	89.8 89.3	89.6	6.6 6.6	6.6		9.2 9.2	9.2		5.7 5.6	5.7	
25-Apr-12	Fine	Moderate	14:00	10	Surface	1	24.8 24.6	24.7	8.1 8.0	8.1	19.8 20.3	20.0	93.9 96.1	95.0	7.0 7.1	7.0	7.0	6.6 6.3	6.5	9.5	9.0 7.5	8.3	9.5
					Middle	5	24.5 24.4	24.4	8.0 8.0	8.0	22.6 22.8	22.7	95.3 93.8	94.6	7.0 6.9	6.9		8.1 8.5	8.3		10.1 11.7	10.9	
					Bottom	9	23.9 23.9	23.9	8.0 8.0	8.0	23.9 23.9	23.9	89.9 89.8	89.9	6.6 6.6	6.6		13.9 13.3	13.6		9.2 9.1	9.2	
27-Apr-12	Rainy	Moderate	16:00	10	Surface	1	23.8 23.7	23.8	8.2 8.2	8.2	24.6 24.6	24.6	98.4 99.1	98.8	7.2 7.3	7.3	7.1	7.7 7.4	7.6	11.4	7.1 6.1	6.6	7.8
					Middle	5	23.4 23.4	23.4	8.2 8.2	8.2	26.7 26.7	26.7	94.6 95.0	94.8	6.9 6.9	6.9		10.7 10.3	10.5		5.4 6.3	5.9	
					Bottom	9	23.2 23.2	23.2	8.2 8.2	8.2	28.0 28.0	28.0	94.4 95.0	94.7	6.9 6.9	6.9		15.8 16.1	16.0		11.1 10.5	10.8	
30-Apr-12	Cloudy	Moderate	19:19	9	Surface	1	26.4 26.3	26.4	8.2 8.2	8.2	17.2 17.2	17.2	99.5 99.4	99.5	7.3 7.3	7.3	6.9	4.0 4.1	4.1	6.4	3.2 4.8	4.0	3.8
					Middle	5	24.5 24.3	24.4	8.1 8.1	8.1	22.9 22.8	22.8	87.8 86.9	87.4	6.5 6.4	6.4		6.7 6.4	6.6		2.2 3.2	2.7	
					Bottom	8	23.7 23.7	23.7	8.1 8.1	8.1	27.0 26.9	27.0	90.0 89.8	89.9	6.5 6.5	6.5		8.6 8.4	8.5		4.4 5.2	4.8	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:33	9	Surface	1	21.5 21.5	21.5	8.2 8.2	8.2	28.9 28.9	28.9	115.5 115.9	115.7	8.6 8.7	8.6	8.5	0.7 0.7	0.7	1.2	2.8 3.9	3.4	4.0
					Middle	5	20.8 20.8	20.8	8.2 8.2	8.2	29.7 29.7	29.7	110.6 111.2	110.9	8.3 8.4	8.3		1.4 1.7	1.6		4.3 2.2	3.3	
					Bottom	8	20.8 20.8	20.8	8.2 8.2	8.2	29.9 29.9	29.9	109.3 110.0	109.7	8.2 8.3	8.2	8.2	1.3 1.5	1.4		5.1 5.2	5.2	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	18:45	9	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.0	29.1	96.4 97.9	97.2	7.4 7.5	7.4	7.4	8.6 8.3	8.5	8.6	13.9 14.9	14.4	12.8
					Middle	5	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.1	29.1	97.2 96.1	96.7	7.4 7.3	7.4		8.3 8.9	8.6		11.6 12.5	12.1	
					Bottom	8	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.1	29.1	95.8 96.4	96.1	7.3 7.4	7.3	7.3	8.7 8.9	8.8		11.3 12.3	11.8	
9-Apr-12	Sunny	Moderate	09:19	10	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	29.1 29.1	29.1	93.5 93.6	93.6	7.1 7.1	7.1	7.1	4.2 4.3	4.3	4.5	4.9 5.2	5.1	6.4
					Middle	5	20.4 20.4	20.4	8.1 8.1	8.1	29.1 29.2	29.1	93.9 93.1	93.5	7.1 7.1	7.1		4.6 4.7	4.7		6.8 8.3	7.6	
					Bottom	9	20.4 20.4	20.4	8.1 8.1	8.1	29.3 29.2	29.3	92.8 93.9	93.4	7.1 7.1	7.1	7.1	4.5 4.3	4.4		6.6 6.2	6.4	
11-Apr-12	Fine	Moderate	10:15	10	Surface	1	21.9 22.0	21.9	8.1 8.1	8.1	27.6 27.6	27.6	95.5 95.3	95.4	7.1 7.1	7.1	7.1	2.9 3.1	3.0	3.6	4.3 4.4	4.4	5.3
					Middle	5	21.8 21.8	21.8	8.1 8.1	8.1	28.0 27.9	27.9	93.6 93.5	93.6	7.0 7.0	7.0		3.3 3.6	3.5		4.9 5.3	5.1	
					Bottom	9	21.7 21.7	21.7	8.1 8.1	8.1	28.1 28.1	28.1	93.0 93.0	93.0	6.9 6.9	6.9	6.9	4.2 4.2	4.2		6.6 6.2	6.4	
13-Apr-12	Sunny	Moderate	11:47	10	Surface	1	22.9 23.0	22.9	8.0 8.0	8.0	26.5 26.5	26.5	90.6 91.4	91.0	6.7 6.7	6.7	6.7	5.2 5.5	5.4	6.4	5.2 5.1	5.2	5.0
					Middle	5	22.7 22.6	22.6	8.0 8.0	8.0	26.7 26.8	26.8	89.4 88.4	88.9	6.6 6.6	6.6		6.4 6.2	6.3		6.3 4.5	5.4	
					Bottom	9	22.3 22.3	22.3	8.0 8.0	8.0	27.2 27.2	27.2	88.2 88.5	88.4	6.6 6.6	6.6	6.6	7.5 7.4	7.5		4.1 4.4	4.3	
16-Apr-12	Rainy	Moderate	14:29	9	Surface	1	24.8 24.8	24.8	8.0 8.0	8.0	22.1 22.1	22.1	100.4 101.6	101.0	7.4 7.4	7.4	6.9	1.5 1.4	1.5	4.9	2.0 1.5	1.8	1.9
					Middle	5	23.6 23.5	23.6	8.0 8.0	8.0	26.2 26.5	26.4	88.1 86.8	87.5	6.4 6.3	6.4		6.1 5.9	6.0		2.0 2.0	2.0	
					Bottom	8	23.2 23.1	23.2	8.0 8.0	8.0	27.4 27.6	27.5	87.4 89.0	88.2	6.4 6.5	6.4	6.4	7.1 7.4	7.3		1.7 2.0	1.9	
18-Apr-12	Fine	Moderate	16:16	9	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	25.5 25.6	25.5	95.3 94.8	95.1	7.0 7.0	7.0	7.0	7.7 7.2	7.5	6.7	13.0 12.3	12.7	11.4
					Middle	5	22.9 22.9	22.9	8.1 8.1	8.1	25.8 25.9	25.9	93.6 92.7	93.2	6.9 6.9	6.9		3.9 3.7	3.8		10.8 12.2	11.5	
					Bottom	8	22.6 22.7	22.6	8.1 8.1	8.1	27.1 26.6	26.9	88.9 91.3	90.1	6.6 6.8	6.7	6.7	8.8 8.5	8.7		9.5 10.3	9.9	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:26	9	Surface	1	23.6 23.6	23.6	8.1 8.1	8.1	24.4 23.8	24.1	91.4 97.7	94.6	6.8 7.2	7.0	6.9	8.9 8.9	8.9	9.3	13.6 13.3	13.5	12.3
					Middle	5	23.5 23.5	23.5	8.1 8.1	8.1	24.6 24.5	24.5	93.1 90.9	92.0	6.9 6.7	6.8		9.9 8.3	9.1		10.1 11.0	10.6	
					Bottom	8	23.4 23.5	23.4	8.1 8.1	8.1	25.1 24.7	24.9	90.2 90.3	90.3	6.7 6.7	6.7	6.7	10.0 9.7	9.9		12.3 13.1	12.7	
25-Apr-12	Rainy	Moderate	09:16	10	Surface	1	24.2 24.2	24.2	8.0 8.0	8.0	21.0 21.1	21.1	97.8 91.2	94.5	7.3 6.8	7.0	6.9	3.9 3.8	3.9	5.8	7.1 5.6	6.4	6.2
					Middle	5	24.1 24.2	24.2	8.0 8.0	8.0	22.2 21.5	21.9	90.5 93.6	92.1	6.7 6.9	6.8		5.1 4.8	5.0		6.1 6.9	6.5	
					Bottom	9	24.0 24.0	24.0	8.0 8.0	8.0	23.3 23.1	23.2	91.0 89.5	90.3	6.7 6.6	6.7	6.7	8.4 8.5	8.5		5.8 5.8	5.8	
27-Apr-12	Cloudy	Moderate	09:53	10	Surface	1	23.9 23.8	23.9	8.1 8.2	8.1	21.1 21.1	21.1	95.2 94.1	94.7	7.1 7.1	7.1	6.8	4.6 4.9	4.8	7.9	5.0 4.5	4.8	6.1
					Middle	5	23.1 23.1	23.1	8.2 8.2	8.2	28.5 28.5	28.5	89.6 90.1	89.9	6.5 6.6	6.5		8.3 8.5	8.4		6.5 6.0	6.3	
					Bottom	9	23.1 23.0	23.0	8.2 8.2	8.2	28.9 28.9	28.9	91.3 89.6	90.5	6.6 6.5	6.6	6.6	10.4 10.7	10.6		7.3 6.9	7.1	
30-Apr-12	Cloudy	Moderate	13:46	8	Surface	1	25.3 25.3	25.3	8.1 8.1	8.1	19.2 19.3	19.3	95.8 96.6	96.2	7.1 7.1	7.1	6.8	2.5 2.3	2.4	5.8	3.3 2.7	3.0	3.4
					Middle	4	24.4 24.4	24.4	8.1 8.1	8.1	23.6 23.6	23.6	87.9 88.1	88.0	6.5 6.4	6.5		6.5 6.5	6.5		3.7 3.3	3.5	
					Bottom	7	23.8 23.8	23.8	8.1 8.1	8.1	26.1 26.0	26.0	88.9 89.4	89.2	6.5 6.5	6.5	6.5	8.2 8.5	8.4		3.0 4.6	3.8	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS7 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:21	4	Surface	1	20.7 20.7	20.7	8.2 8.2	8.2	28.8 28.9	28.9	116.3 117.6	117.0	8.8 8.9	8.9	8.9	3.2 3.3	3.3	3.6	4.1 4.8	4.5	7.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.8 20.7	20.8	8.3 8.2	8.3	29.3 29.5	29.4	113.3 113.7	113.5	8.6 8.6	8.6	8.6	3.9 3.7	3.8		11.2 10.6	10.9	
5-Apr-12	Cloudy	Moderate	12:31	3	Surface	1	21.1 20.9	21.0	8.2 8.2	8.2	29.2 29.3	29.2	102.3 103.3	102.8	7.7 7.8	7.7	7.7	10.1 10.6	10.4	11.0	3.0 5.1	4.1	5.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.8 21.0	20.9	8.2 8.2	8.2	29.4 29.3	29.3	103.5 103.3	103.4	7.8 7.8	7.8	7.8	11.6 11.6	11.6		6.4 7.0	6.7	
7-Apr-12	Fine	Moderate	14:14	3	Surface	1	20.3 20.2	20.3	8.1 8.1	8.1	28.9 29.0	29.0	98.8 103.4	101.1	7.5 7.9	7.7	7.7	10.9 10.7	10.8	10.8	11.3 10.6	11.0	12.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.3 20.3	20.3	8.1 8.1	8.1	28.9 29.0	28.9	99.5 98.2	98.9	7.6 7.5	7.5	7.5	11.1 10.5	10.8		13.8 13.2	13.5	
9-Apr-12	Sunny	Moderate	13:42	4	Surface	1	20.9 21.0	21.0	8.1 8.1	8.1	28.6 28.5	28.6	95.4 96.5	96.0	7.2 7.3	7.2	7.2	3.0 2.6	2.8	6.8	4.5 4.0	4.3	4.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.6 20.6	20.6	8.1 8.1	8.1	29.2 29.2	29.2	93.7 94.1	93.9	7.1 7.1	7.1	7.1	11.1 10.2	10.7		5.0 4.4	4.7	
11-Apr-12	Sunny	Moderate	15:57	4	Surface	1	22.9 23.7	23.3	8.0 8.0	8.0	26.5 25.8	26.2	98.4 100.8	99.6	7.3 7.4	7.3	7.3	3.9 3.6	3.8	7.4	5.3 5.3	5.3	5.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.1 22.1	22.1	8.0 8.0	8.0	27.6 27.6	27.6	94.7 94.5	94.6	7.0 7.0	7.0	7.0	10.8 11.2	11.0		4.7 5.7	5.2	
13-Apr-12	Sunny	Moderate	17:56	4	Surface	1	23.7 23.3	23.5	8.1 8.1	8.1	25.6 26.0	25.8	101.3 97.0	99.2	7.4 7.1	7.3	7.3	6.8 6.9	6.9	7.3	4.5 5.3	4.9	4.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.8 23.0	22.9	8.1 8.1	8.1	26.5 26.4	26.5	96.3 94.8	95.6	7.1 7.0	7.0	7.0	7.7 7.4	7.6		4.5 4.3	4.4	
16-Apr-12	Fine	Moderate	11:52	4	Surface	1	24.3 24.3	24.3	8.0 8.0	8.0	22.7 22.7	22.7	99.6 99.1	99.4	7.3 7.3	7.3	7.3	1.7 1.9	1.8	4.4	2.8 4.4	3.6	2.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.2 24.1	24.2	8.0 8.0	8.0	24.1 24.3	24.2	96.5 92.3	94.4	7.1 6.8	6.9	6.9	6.7 7.0	6.9		1.8 2.0	1.9	
18-Apr-12	Fine	Moderate	12:56	3	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	24.8 24.8	24.8	96.0 96.3	96.2	7.1 7.2	7.1	7.1	4.0 3.6	3.8	4.2	6.1 5.0	5.6	5.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	23.1 23.1	23.1	8.1 8.1	8.1	24.9 24.8	24.9	96.3 95.6	96.0	7.2 7.1	7.1	7.1	4.7 4.4	4.6		4.0 5.2	4.6	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS7 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:09	3	Surface	1	23.7 23.7	23.7	8.1 8.1	8.1	23.4 23.4	23.4	92.3 93.0	92.7	6.8 6.9	6.9	6.9	6.1 6.1	6.1	6.1	8.2 7.1	7.7	8.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	23.7 23.7	23.7	8.1 8.1	8.1	23.4 23.4	23.4	92.4 92.1	92.3	6.9 6.8	6.8		6.1 6.1	6.1		8.9 8.7	8.8	
25-Apr-12	Fine	Moderate	14:14	4	Surface	1	24.5 24.4	24.5	8.0 8.0	8.0	20.2 20.4	20.3	95.0 95.1	95.1	7.1 7.1	7.1	7.1	4.0 4.4	4.2	4.6	8.3 7.4	7.9	6.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.2 24.3	24.3	8.0 8.0	8.0	21.0 20.6	20.8	92.4 93.9	93.2	6.9 7.0	6.9		4.9 5.1	5.0		6.1 5.3	5.7	
27-Apr-12	Rainy	Moderate	16:18	4	Surface	1	24.1 24.1	24.1	8.2 8.2	8.2	21.4 21.3	21.4	99.0 98.1	98.6	7.4 7.3	7.3	7.3	4.5 4.3	4.4	5.0	5.4 4.8	5.1	5.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.8 23.8	23.8	8.2 8.1	8.1	22.1 22.0	22.1	97.8 97.1	97.5	7.3 7.2	7.2		5.4 5.5	5.5		5.3 5.2	5.3	
30-Apr-12	Cloudy	Moderate	19:39	4	Surface	1	26.2 26.2	26.2	8.1 8.1	8.1	18.2 18.2	18.2	103.5 103.6	103.6	7.6 7.6	7.6	7.6	1.5 1.5	1.5	1.4	2.8 2.6	2.7	2.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	26.1 25.9	26.0	8.1 8.1	8.1	18.3 18.3	18.3	101.3 100.6	101.0	7.4 7.4	7.4		1.2 1.2	1.2		2.4 2.4	2.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS7 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:53	4	Surface	1	21.8 21.8	21.8	8.2 8.2	8.2	28.7 28.7	28.7	126.8 127.0	126.9	9.4 9.5	9.4	9.4	0.5 0.4	0.5	0.9	7.8 6.3	7.1	4.9
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	3	21.4 21.4	21.4	8.3 8.3	8.3	29.3 29.3	29.3	119.5 120.1	119.8	8.9 9.0	8.9	8.9	1.3 1.2	1.3		2.7 2.6	2.7	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-		-	-		-			
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		
7-Apr-12	Fine	Moderate	18:59	3	Surface	1	20.2 20.2	20.2	8.2 8.2	8.2	29.1 29.1	29.1	100.0 102.4	101.2	7.6 7.8	7.7	7.7	8.5 7.9	8.2	8.5	11.9 11.9	11.9	13.0
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	2	20.2 20.2	20.2	8.2 8.2	8.2	29.1 29.1	29.1	101.2 99.0	100.1	7.7 7.6	7.6	7.6	8.3 9.2	8.8		13.1 15.0	14.1	
9-Apr-12	Sunny	Moderate	09:00	4	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	29.1 29.0	29.1	94.1 94.0	94.1	7.2 7.2	7.2	7.2	4.3 4.8	4.6	5.9	9.0 7.7	8.4	8.0
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	3	20.4 20.4	20.4	8.1 8.1	8.1	29.2 29.2	29.2	94.7 93.8	94.3	7.2 7.1	7.2	7.2	7.4 6.9	7.2		6.8 8.2	7.5	
11-Apr-12	Fine	Moderate	09:57	4	Surface	1	21.9 21.9	21.9	8.1 8.1	8.1	27.3 27.2	27.2	95.1 94.8	95.0	7.1 7.1	7.1	7.1	3.8 3.5	3.7	5.4	5.4 4.1	4.8	5.3
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	3	21.8 21.7	21.8	8.1 8.1	8.1	27.8 27.9	27.9	95.1 95.0	95.1	7.1 7.1	7.1	7.1	6.8 7.1	7.0		6.2 5.2	5.7	
13-Apr-12	Sunny	Moderate	11:31	4	Surface	1	23.4 23.4	23.4	8.0 8.0	8.0	24.8 25.1	24.9	101.0 100.4	100.7	7.5 7.4	7.4	7.4	3.4 3.2	3.3	4.1	4.5 6.1	5.3	4.8
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	3	23.3 23.2	23.3	8.0 8.0	8.0	25.7 25.7	25.7	99.7 99.6	99.7	7.3 7.3	7.3	7.3	4.9 4.8	4.9		4.4 4.0	4.2	
16-Apr-12	Rainy	Moderate	14:46	4	Surface	1	25.0 25.0	25.0	8.1 8.1	8.1	21.2 20.9	21.1	102.0 105.0	103.5	7.5 7.7	7.6	7.6	1.9 1.7	1.8	3.2	0.9 0.8	0.9	1.7
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	3	24.8 24.5	24.6	8.0 8.0	8.0	22.6 22.7	22.7	102.0 99.6	100.8	7.5 7.3	7.4	7.4	4.7 4.4	4.6		2.1 2.7	2.4	
18-Apr-12	Fine	Moderate	16:38	4	Surface	1	23.1 23.0	23.1	8.1 8.1	8.1	25.9 25.9	25.9	94.1 94.9	94.5	7.0 7.0	7.0	7.0	7.8 7.6	7.7	8.8	11.4 8.8	10.1	10.3
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
					Bottom	3	23.1 23.0	23.0	8.1 8.1	8.1	26.0 26.0	26.0	94.0 96.2	95.1	6.9 7.1	7.0	7.0	9.7 9.8	9.8		10.7 10.2	10.5	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-		-	-		-	-		
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS7 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:46	3	Surface	1	23.4 23.4	23.4	8.1 8.1	8.1	24.7 24.7	24.7	95.4 98.8	97.1	7.1 7.3	7.2	7.2	30.7 30.8	30.8	30.8	35.7 32.3	34.0	33.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	23.4 23.4	23.4	8.1 8.1	8.1	24.7 24.7	24.7	94.6 96.6	95.6	7.0 7.1	7.1	7.1	30.2 31.2	30.7		34.4 32.5	33.5	
25-Apr-12	Rainy	Moderate	08:56	3	Surface	1	24.1 24.2	24.2	8.0 8.0	8.0	21.2 21.0	21.1	94.0 97.4	95.7	7.0 7.2	7.1	7.1	6.2 6.1	6.2	6.2	8.2 9.3	8.8	8.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	24.1 24.2	24.2	8.0 8.0	8.0	21.2 21.2	21.2	93.0 95.1	94.1	6.9 7.1	7.0	7.0	5.9 6.4	6.2		8.7 9.2	9.0	
27-Apr-12	Cloudy	Moderate	09:33	4	Surface	1	23.9 23.9	23.9	8.1 8.1	8.1	20.5 20.5	20.5	96.0 95.8	95.9	7.2 7.2	7.2	7.2	3.5 3.6	3.6	3.5	4.6 3.4	4.0	3.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	23.8 23.7	23.7	8.1 8.1	8.1	22.6 22.6	22.6	95.5 95.2	95.4	7.1 7.1	7.1	7.1	3.4 3.4	3.4		3.4 3.9	3.7	
30-Apr-12	Cloudy	Moderate	13:21	4	Surface	1	25.6 25.6	25.6	8.1 8.1	8.1	18.0 18.0	18.0	100.1 100.2	100.2	7.4 7.4	7.4	7.4	1.3 1.4	1.4	1.8	1.3 1.6	1.5	1.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	25.1 25.1	25.1	8.1 8.0	8.0	19.0 19.0	19.0	99.1 98.3	98.7	7.3 7.3	7.3	7.3	2.0 2.2	2.1		2.0 1.3	1.7	

Remark:
Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS8 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	10:48	4	Surface	1	20.5 20.5	20.5	8.2 8.2	8.2	29.4 29.4	29.4	113.6 112.4	113.0	8.6 8.5	8.6	8.6	1.5 1.5	1.5	1.5	5.7 7.0	6.4	6.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.5 20.5	20.5	8.2 8.2	8.2	29.7 29.7	29.7	110.6 110.8	110.7	8.4 8.4	8.4	8.4	1.4 1.5	1.5		7.2 6.4	6.8	
5-Apr-12	Cloudy	Moderate	12:07	4	Surface	1	20.8 20.9	20.9	8.2 8.1	8.2	29.3 29.1	29.2	102.4 101.7	102.1	7.7 7.7	7.7	7.7	5.7 5.8	5.8	5.9	4.8 3.5	4.2	4.0
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.9 20.8	20.9	8.2 8.2	8.2	29.2 29.4	29.3	102.3 102.4	102.4	7.7 7.7	7.7	7.7	6.1 5.7	5.9		4.2 3.4	3.8	
7-Apr-12	Fine	Moderate	13:49	4	Surface	1	20.4 20.3	20.4	8.2 8.2	8.2	28.9 28.8	28.9	99.9 102.2	101.1	7.6 7.8	7.7	7.7	11.9 11.7	11.8	11.9	15.2 14.7	15.0	15.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.3 20.4	20.4	8.2 8.2	8.2	28.9 29.0	28.9	100.7 99.3	100.0	7.7 7.6	7.6	7.6	11.6 12.2	11.9		16.9 16.2	16.6	
9-Apr-12	Sunny	Moderate	14:13	4	Surface	1	20.8 20.8	20.8	8.1 8.1	8.1	28.6 28.6	28.6	94.0 94.1	94.1	7.1 7.1	7.1	7.1	5.0 5.3	5.2	6.9	7.6 9.2	8.4	8.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.5 20.5	20.5	8.1 8.1	8.1	29.1 29.1	29.1	93.2 93.1	93.2	7.1 7.1	7.1	7.1	8.2 8.7	8.5		8.6 9.5	9.1	
11-Apr-12	Sunny	Moderate	16:29	4	Surface	1	22.8 22.7	22.8	8.1 8.1	8.1	26.4 26.5	26.5	102.5 100.5	101.5	7.6 7.4	7.5	7.5	4.3 4.5	4.4	8.0	8.4 7.0	7.7	7.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.1 22.1	22.1	8.1 8.1	8.1	27.6 27.5	27.6	96.7 95.1	95.9	7.2 7.1	7.1	7.1	11.4 11.8	11.6		7.2 6.8	7.0	
13-Apr-12	Sunny	Moderate	18:22	4	Surface	1	22.8 22.9	22.8	8.1 8.1	8.1	26.4 26.3	26.4	93.2 94.4	93.8	6.9 7.0	6.9	6.9	7.4 7.3	7.4	7.6	5.4 5.4	5.4	6.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.7 22.4	22.5	8.1 8.1	8.1	26.7 27.3	27.0	94.1 93.0	93.6	7.0 6.9	6.9	6.9	7.5 7.9	7.7		7.0 7.9	7.5	
16-Apr-12	Fine	Moderate	11:21	4	Surface	1	24.8 24.8	24.8	8.0 8.0	8.0	21.0 21.0	21.0	101.6 102.0	101.8	7.5 7.5	7.5	7.5	1.6 1.4	1.5	2.7	1.4 1.3	1.4	1.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.9 23.8	23.9	8.0 8.0	8.0	23.9 24.6	24.2	94.3 92.8	93.6	6.9 6.8	6.9	6.9	3.8 3.9	3.9		1.1 0.8	1.0	
18-Apr-12	Fine	Moderate	12:26	4	Surface	1	23.0 23.0	23.0	8.1 8.1	8.1	25.6 25.6	25.6	94.0 94.5	94.3	7.0 7.0	7.0	7.0	3.1 2.9	3.0	8.8	3.2 3.6	3.4	3.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.7 22.7	22.7	8.1 8.1	8.1	26.9 27.5	27.2	89.4 91.4	90.4	6.6 6.7	6.7	6.7	14.6 14.3	14.5		3.5 3.0	3.3	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS8 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	14:43	3	Surface	1	23.7 23.7	23.7	8.1 8.1	8.1	24.0 24.0	24.0	96.0 91.3	93.7	7.1 6.7	6.9	6.9	5.3 5.0	5.2	7.3	6.4 6.2	6.3	6.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	23.4 23.4	23.4	8.1 8.1	8.1	25.0 24.9	25.0	90.6 89.1	89.9	6.7 6.6	6.6		9.5 9.3	9.4		6.4 5.9	6.2	
25-Apr-12	Fine	Moderate	14:38	4	Surface	1	24.5 24.4	24.4	8.0 8.0	8.0	20.7 20.8	20.7	98.0 94.8	96.4	7.3 7.0	7.2	7.2	4.6 4.6	4.6	4.6	7.7 5.8	6.8	7.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.4 24.3	24.4	8.0 8.0	8.0	20.7 20.8	20.8	95.9 93.2	94.6	7.1 6.9	7.0		4.6 4.6	4.6		9.0 7.0	8.0	
27-Apr-12	Rainy	Moderate	16:49	3	Surface	1	24.0 24.0	24.0	8.2 8.2	8.2	24.3 24.4	24.3	97.6 97.1	97.4	7.1 7.1	7.1	7.1	2.9 2.9	2.9	3.3	3.2 3.8	3.5	3.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	23.8 23.8	23.8	8.2 8.2	8.2	25.4 25.5	25.5	95.6 95.8	95.7	7.0 7.0	7.0		3.8 3.6	3.7		3.3 3.6	3.5	
30-Apr-12	Cloudy	Moderate	20:10	4	Surface	1	25.6 25.7	25.6	8.1 8.1	8.1	18.2 18.1	18.2	97.1 97.6	97.4	7.2 7.2	7.2	7.2	3.1 3.2	3.2	4.1	1.1 1.8	1.5	2.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	25.1 25.2	25.2	8.0 8.1	8.1	19.3 19.3	19.3	95.5 95.7	95.6	7.1 7.1	7.1		4.8 5.1	5.0		3.9 2.7	3.3	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS8 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:24	4	Surface	1	21.0 21.0	21.0	8.2 8.2	8.2	27.6 27.5	27.6	116.5 116.5	116.5	8.8 8.8	8.8	8.8	3.8 4.0	3.9	4.3	3.2 3.2	3.2	2.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.9 20.9	20.9	8.2 8.2	8.2	27.7 27.7	27.7	112.2 112.8	112.5	8.5 8.6	8.5		4.7 4.5	4.6		2.2 2.9	2.6	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
7-Apr-12	Fine	Moderate	19:22	4	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	28.8 28.7	28.8	97.7 102.3	100.0	7.5 7.8	7.6	7.6	2.5 2.4	2.5	4.3	4.8 4.8	4.8	5.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.3 20.3	20.3	8.2 8.2	8.2	29.0 28.9	29.0	98.7 97.1	97.9	7.5 7.4	7.5		6.2 5.9	6.1		5.5 5.1	5.3	
9-Apr-12	Sunny	Moderate	08:30	4	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.3 28.4	28.4	92.4 92.7	92.6	7.0 7.1	7.1	7.1	8.4 8.7	8.6	11.3	7.9 9.2	8.6	8.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.5 20.5	20.5	8.1 8.1	8.1	28.5 28.5	28.5	92.2 92.5	92.4	7.0 7.1	7.0		13.8 14.1	14.0		7.7 7.8	7.8	
11-Apr-12	Fine	Moderate	09:27	5	Surface	1	21.9 22.1	22.0	8.0 8.0	8.0	25.5 25.0	25.2	89.5 90.1	89.8	6.8 6.8	6.8	6.8	4.1 3.9	4.0	6.8	8.0 7.6	7.8	6.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	21.7 21.7	21.7	8.0 8.0	8.0	26.0 26.0	26.0	89.0 91.4	90.2	6.7 6.9	6.8		9.7 9.2	9.5		5.1 6.2	5.7	
13-Apr-12	Sunny	Moderate	11:04	4	Surface	1	23.0 23.1	23.1	8.0 8.0	8.0	23.8 23.8	23.8	93.5 93.7	93.6	7.0 7.0	7.0	7.0	3.5 3.7	3.6	4.7	3.8 3.8	3.8	4.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.7 22.8	22.7	8.0 8.0	8.0	25.6 25.3	25.5	92.7 92.8	92.8	6.9 6.9	6.9		5.7 5.7	5.7		5.4 4.8	5.1	
16-Apr-12	Rainy	Moderate	15:18	5	Surface	1	24.6 24.1	24.4	8.0 8.0	8.0	22.5 23.5	23.0	99.9 95.9	97.9	7.3 7.1	7.2	7.2	2.1 2.1	2.1	5.3	2.2 2.0	2.1	1.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	23.6 23.7	23.6	8.0 8.0	8.0	25.1 24.8	25.0	90.8 95.7	93.3	6.7 7.0	6.9		8.2 8.5	8.4		1.3 0.9	1.1	
18-Apr-12	Fine	Moderate	17:07	4	Surface	1	23.2 23.2	23.2	8.1 8.1	8.1	25.1 25.1	25.1	94.0 93.6	93.8	7.0 6.9	6.9	6.9	2.0 2.3	2.2	5.1	3.4 4.1	3.8	3.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	22.9 22.9	22.9	8.1 8.1	8.1	26.5 26.6	26.6	92.3 91.2	91.8	6.8 6.7	6.8		7.7 8.1	7.9		4.5 3.5	4.0	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS8 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:13	3	Surface	1	23.6 23.7	23.7	8.0 8.0	8.0	22.2 22.2	22.2	90.8 93.3	92.1	6.8 7.0	6.9	6.9	6.9 6.1	6.5	6.6	6.0 5.8	5.9	6.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	23.7 23.7	23.7	8.0 8.0	8.0	23.2 23.7	23.5	91.5 90.2	90.9	6.8 6.7	6.7		6.4 7.0	6.7		6.3 7.2	6.8	
25-Apr-12	Rainy	Moderate	08:31	4	Surface	1	24.3 24.2	24.3	8.0 8.0	8.0	19.7 20.0	19.8	95.1 92.0	93.6	7.1 6.9	7.0	7.0	5.0 5.3	5.2	5.5	6.1 6.7	6.4	6.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.2 24.2	24.2	8.0 8.0	8.0	20.2 20.0	20.1	91.5 93.4	92.5	6.8 7.0	6.9		5.9 5.5	5.7		7.9 6.4	7.2	
27-Apr-12	Cloudy	Moderate	09:03	4	Surface	1	23.6 23.5	23.5	8.1 8.1	8.1	24.4 24.4	24.4	91.1 91.0	91.1	6.7 6.7	6.7	6.7	2.7 2.8	2.8	2.9	3.2 4.1	3.7	3.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.4 23.4	23.4	8.1 8.1	8.1	26.2 26.3	26.3	92.8 92.9	92.9	6.8 6.8	6.8		3.0 3.0	3.0		3.7 3.1	3.4	
30-Apr-12	Cloudy	Moderate	12:52	4	Surface	1	25.5 25.5	25.5	8.0 8.0	8.0	17.0 17.1	17.1	95.7 96.6	96.2	7.1 7.2	7.2	7.2	2.7 3.0	2.9	4.1	6.4 5.9	6.2	4.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.7 24.6	24.6	8.0 8.0	8.0	20.4 20.5	20.4	94.4 94.6	94.5	7.0 7.0	7.0		5.3 5.1	5.2		2.7 2.9	2.8	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS17 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	10:31	11	Surface	1	20.4 20.4	20.4	8.2 8.2	8.2	29.2 29.2	29.2	111.7 112.1	111.9	8.5 8.5	8.5	8.3	1.4 1.3	1.4	2.1	2.8 2.7	2.8	3.4
					Middle	6	19.8 19.8	19.8	8.2 8.2	8.2	30.5 30.5	30.5	105.2 105.7	105.5	8.0 8.1	8.0		2.6 2.5	2.6		4.2 3.7	4.0	
					Bottom	10	19.6 19.6	19.6	8.2 8.2	8.2	30.9 31.0	30.9	103.6 104.0	103.8	7.9 7.9	7.9	7.9	2.3 2.4	2.4		2.8 3.7	3.3	
5-Apr-12	Cloudy	Moderate	11:53	11	Surface	1	20.8 20.8	20.8	8.2 8.2	8.2	28.5 28.6	28.6	103.9 103.5	103.7	7.9 7.8	7.9	7.9	1.5 1.5	1.5	2.4	3.1 4.4	3.8	3.8
					Middle	6	20.7 20.6	20.6	8.2 8.2	8.2	29.2 29.7	29.5	103.6 103.7	103.7	7.8 7.8	7.8		1.6 1.7	1.7		3.3 3.1	3.2	
					Bottom	10	20.3 20.3	20.3	8.2 8.2	8.2	30.1 30.1	30.1	102.4 102.0	102.2	7.8 7.7	7.7	7.7	4.0 3.9	4.0		4.2 4.3	4.3	
7-Apr-12	Fine	Moderate	13:30	11	Surface	1	20.4 20.4	20.4	8.1 8.2	8.2	29.2 29.2	29.2	97.5 99.6	98.6	7.4 7.6	7.5	7.5	3.1 3.4	3.3	10.2	6.7 7.5	7.1	7.3
					Middle	6	20.3 20.3	20.3	8.2 8.2	8.2	29.7 29.5	29.6	98.2 97.1	97.7	7.5 7.4	7.4		7.2 6.7	7.0		9.2 7.8	8.5	
					Bottom	10	20.2 20.2	20.2	8.1 8.1	8.1	30.0 30.0	30.0	95.1 96.1	95.6	7.2 7.3	7.3	7.3	20.2 20.4	20.3		6.7 5.9	6.3	
9-Apr-12	Sunny	Moderate	14:36	11	Surface	1	21.0 21.0	21.0	8.1 8.1	8.1	28.5 28.6	28.6	94.9 94.8	94.9	7.2 7.2	7.2	7.2	7.0 6.6	6.8	18.1	8.5 6.9	7.7	8.6
					Middle	6	20.4 20.4	20.4	8.1 8.1	8.1	29.5 29.5	29.5	93.6 93.5	93.6	7.1 7.1	7.1		19.4 20.2	19.8		8.3 6.2	7.3	
					Bottom	10	20.2 20.2	20.2	8.1 8.1	8.1	30.0 30.0	30.0	91.0 90.9	91.0	6.9 6.9	6.9	6.9	28.3 27.0	27.7		11.6 9.8	10.7	
11-Apr-12	Sunny	Moderate	16:52	11	Surface	1	23.2 23.2	23.2	8.0 8.1	8.1	25.5 25.6	25.6	98.7 97.8	98.3	7.3 7.2	7.3	7.1	4.1 4.0	4.1	15.0	5.5 5.4	5.5	6.1
					Middle	6	21.6 21.6	21.6	8.1 8.1	8.1	28.2 28.1	28.1	92.7 92.3	92.5	6.9 6.9	6.9		14.3 14.9	14.6		6.0 5.1	5.6	
					Bottom	10	21.3 21.3	21.3	8.1 8.1	8.1	28.6 28.6	28.6	90.1 91.8	91.0	6.8 6.9	6.8	6.8	26.8 25.9	26.4		7.3 6.8	7.1	
13-Apr-12	Sunny	Moderate	18:39	11	Surface	1	23.6 23.7	23.7	8.1 8.1	8.1	24.2 24.1	24.1	92.7 94.6	93.7	6.8 7.0	6.9	6.8	4.5 4.4	4.5	6.0	4.1 3.0	3.6	4.8
					Middle	6	22.0 22.3	22.2	8.1 8.0	8.1	27.4 26.9	27.2	90.3 87.9	89.1	6.7 6.5	6.6		6.5 6.3	6.4		4.7 6.0	5.4	
					Bottom	10	22.0 21.8	21.9	8.1 8.1	8.1	27.9 28.2	28.0	91.8 86.9	89.4	6.8 6.5	6.7	6.7	7.1 7.1	7.1		6.1 4.9	5.5	
16-Apr-12	Fine	Moderate	11:00	11	Surface	1	24.7 24.7	24.7	8.1 8.1	8.1	19.7 19.5	19.6	101.6 101.9	101.8	7.6 7.6	7.6	7.2	2.9 2.8	2.9	3.1	4.0 4.5	4.3	3.8
					Middle	6	23.1 23.6	23.3	8.1 8.0	8.1	26.8 25.1	26.0	92.2 93.1	92.7	6.8 6.8	6.8		1.8 1.6	1.7		3.2 3.0	3.1	
					Bottom	10	22.2 22.2	22.2	8.1 8.1	8.1	29.6 29.6	29.6	88.3 88.4	88.4	6.5 6.5	6.5	6.5	4.8 4.3	4.6		3.7 4.5	4.1	
18-Apr-12	Fine	Moderate	12:07	11	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	25.3 25.3	25.3	92.6 93.5	93.1	6.9 6.9	6.9	6.7	2.8 2.7	2.8	4.1	3.5 5.1	4.3	4.6
					Middle	6	22.7 22.7	22.7	8.1 8.1	8.1	27.8 27.7	27.8	88.1 87.8	88.0	6.5 6.5	6.5		4.7 5.0	4.9		3.5 2.9	3.2	
					Bottom	10	22.6 22.6	22.6	8.1 8.1	8.1	28.3 28.2	28.2	88.4 89.3	88.9	6.5 6.6	6.5	6.5	4.7 4.4	4.6		6.7 5.7	6.2	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS17 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	14:25	11	Surface	1	23.7 23.7	23.7	8.1 8.1	8.1	24.0 23.9	24.0	90.8 92.3	91.6	6.7 6.8	6.8	6.7	6.1 6.3	6.2	15.5	8.8 8.2	8.5	8.4
					Middle	6	23.4 23.1	23.2	8.1 8.1	8.1	26.5 26.7	26.6	90.7 87.8	89.3	6.6 6.5	6.5		15.5 15.6	15.6		8.7 10.3	9.5	
					Bottom	10	22.8 22.8	22.8	8.1 8.1	8.1	27.6 27.6	27.6	84.6 84.7	84.7	6.2 6.2	6.2		24.8 24.6	24.7		7.1 7.5	7.3	
25-Apr-12	Fine	Moderate	14:52	11	Surface	1	24.5 24.4	24.5	8.0 8.0	8.0	19.4 19.5	19.5	96.1 90.3	93.2	7.2 6.8	7.0	6.9	3.8 3.6	3.7	6.0	5.9 7.4	6.7	6.7
					Middle	6	24.1 24.2	24.1	8.0 8.0	8.0	22.3 22.3	22.3	91.4 89.6	90.5	6.8 6.6	6.7		6.3 6.3	6.3		6.4 6.6	6.5	
					Bottom	10	23.6 23.6	23.6	8.0 8.0	8.0	26.4 26.3	26.4	87.2 86.6	86.9	6.4 6.3	6.3		8.0 7.7	7.9		6.6 7.2	6.9	
27-Apr-12	Rainy	Moderate	17:09	11	Surface	1	23.5 23.5	23.5	8.1 8.1	8.1	26.1 26.1	26.1	91.8 92.0	91.9	6.7 6.7	6.7	6.6	4.5 4.6	4.6	7.2	5.3 4.4	4.9	5.3
					Middle	6	23.2 23.2	23.2	8.2 8.2	8.2	27.5 27.5	27.5	88.6 89.9	89.3	6.5 6.6	6.5		7.3 7.2	7.3		5.2 6.3	5.8	
					Bottom	10	23.1 23.1	23.1	8.2 8.2	8.2	28.8 28.9	28.9	87.7 88.2	88.0	6.4 6.4	6.4		9.6 9.8	9.7		4.8 5.8	5.3	
30-Apr-12	Cloudy	Moderate	20:29	11	Surface	1	26.2 26.2	26.2	8.2 8.2	8.2	16.2 16.2	16.2	100.6 99.7	100.2	7.4 7.4	7.4	6.9	2.5 2.2	2.4	5.0	2.3 2.8	2.6	2.7
					Middle	6	24.6 24.7	24.7	8.1 8.1	8.1	20.9 20.8	20.8	86.9 87.1	87.0	6.4 6.4	6.4		5.1 5.3	5.2		2.9 2.4	2.7	
					Bottom	10	23.5 23.5	23.5	8.1 8.1	8.1	27.8 27.8	27.8	84.8 84.6	84.7	6.1 6.1	6.1		7.1 7.4	7.3		2.9 2.5	2.7	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS17 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:43	11	Surface	1	21.5 21.4	21.5	8.2 8.2	8.2	27.9 27.9	27.9	118.2 117.1	117.7	8.9 8.8	8.8	8.7	1.4 1.5	1.5	2.1	4.3 3.6	4.0	4.6
					Middle	6	20.4 20.4	20.4	8.2 8.2	8.2	29.3 29.3	29.3	112.1 112.6	112.4	8.5 8.6	8.5		2.1 2.2	2.2		6.1 3.8	5.0	
					Bottom	10	20.0 20.0	20.0	8.2 8.2	8.2	30.1 30.2	30.2	108.2 108.9	108.6	8.2 8.3	8.3	8.3	2.5 2.6	2.6		5.8 3.9	4.9	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
7-Apr-12	Fine	Moderate	19:39	11	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	28.7 29.0	28.9	96.0 99.9	98.0	7.3 7.6	7.5	7.4	2.6 2.8	2.7	13.1	6.3 5.2	5.8	6.5
					Middle	6	20.3 20.3	20.3	8.2 8.2	8.2	29.3 29.2	29.3	95.3 97.7	96.5	7.3 7.4	7.3		3.9 3.7	3.8		8.3 6.9	7.6	
					Bottom	10	20.3 20.3	20.3	8.2 8.2	8.2	29.6 29.5	29.6	94.5 96.2	95.4	7.2 7.3	7.2	7.2	33.9 31.9	32.9		6.4 5.9	6.2	
9-Apr-12	Sunny	Moderate	08:08	12	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.8 28.8	28.8	93.3 93.4	93.4	7.1 7.1	7.1	7.1	3.8 4.1	4.0	11.5	7.5 6.9	7.2	6.7
					Middle	6	20.4 20.4	20.4	8.1 8.1	8.1	29.0 29.0	29.0	92.5 92.7	92.6	7.0 7.1	7.0		8.6 8.9	8.8		7.2 6.3	6.8	
					Bottom	11	20.4 20.4	20.4	8.1 8.1	8.1	29.1 29.1	29.1	92.5 92.0	92.3	7.0 7.0	7.0	7.0	21.1 22.2	21.7		6.2 6.0	6.1	
11-Apr-12	Fine	Moderate	09:01	12	Surface	1	21.7 21.7	21.7	8.0 8.0	8.0	26.0 26.0	26.0	89.7 89.8	89.8	6.8 6.8	6.8	6.8	4.6 4.4	4.5	11.8	6.1 6.4	6.3	6.7
					Middle	6	21.5 21.5	21.5	8.1 8.1	8.1	27.8 27.8	27.8	90.5 90.7	90.6	6.8 6.8	6.8		7.2 7.6	7.4		6.6 6.8	6.7	
					Bottom	11	21.1 21.1	21.1	8.1 8.1	8.1	28.9 28.9	28.9	89.8 89.3	89.6	6.7 6.7	6.7	6.7	23.8 23.2	23.5		6.4 7.8	7.1	
13-Apr-12	Sunny	Moderate	10:48	11	Surface	1	22.8 22.9	22.8	8.0 8.0	8.0	23.3 23.3	23.3	91.8 92.1	92.0	6.9 6.9	6.9	6.8	4.7 4.7	4.7	9.1	3.2 4.8	4.0	4.2
					Middle	6	22.0 22.0	22.0	8.0 8.0	8.0	27.5 27.6	27.6	89.5 89.3	89.4	6.7 6.7	6.7		7.7 7.8	7.8		4.2 3.7	4.0	
					Bottom	10	21.6 21.6	21.6	8.0 8.1	8.1	29.1 29.1	29.1	88.5 88.5	88.5	6.6 6.6	6.6	6.6	14.6 14.8	14.7		4.2 5.2	4.7	
16-Apr-12	Rainy	Moderate	15:43	12	Surface	1	24.6 24.8	24.7	8.1 8.1	8.1	21.5 21.1	21.3	101.2 101.3	101.3	7.5 7.5	7.5	7.0	1.9 2.1	2.0	9.0	2.6 3.5	3.1	3.0
					Middle	6	22.7 22.5	22.6	8.1 8.1	8.1	27.9 28.3	28.1	88.4 87.3	87.9	6.5 6.4	6.5		3.6 3.8	3.7		3.1 2.5	2.8	
					Bottom	11	22.1 22.1	22.1	8.1 8.1	8.1	29.7 29.8	29.8	88.6 86.5	87.6	6.5 6.4	6.4	6.4	20.4 22.2	21.3		3.3 3.1	3.2	
18-Apr-12	Fine	Moderate	17:28	12	Surface	1	23.2 23.2	23.2	8.1 8.1	8.1	25.2 25.1	25.2	93.4 93.0	93.2	6.9 6.9	6.9	6.7	2.0 2.3	2.2	7.0	2.6 3.1	2.9	4.4
					Middle	6	22.5 22.5	22.5	8.1 8.1	8.1	28.0 28.1	28.1	87.6 87.5	87.6	6.5 6.4	6.5		6.8 6.9	6.9		5.9 4.0	5.0	
					Bottom	11	22.5 22.5	22.5	8.1 8.1	8.1	29.1 29.1	29.1	87.3 91.5	89.4	6.4 6.7	6.5	6.5	12.1 11.4	11.8		5.6 4.8	5.2	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at IS17 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:28	8	Surface	1	23.9 23.9	23.9	8.0 8.0	8.0	21.0 21.0	21.0	97.8 87.7	92.8	7.3 6.6	6.9	6.7	4.3 4.4	4.4	8.5	5.7 6.8	6.3	6.1
					Middle	4	23.5 23.5	23.5	8.0 8.0	8.0	25.4 25.4	25.4	91.6 86.3	89.0	6.7 6.3	6.5		7.8 7.7	7.8		7.0 5.7	6.4	
					Bottom	7	23.3 23.2	23.2	8.1 8.1	8.1	25.6 25.8	25.7	85.5 85.4	85.5	6.3 6.3	6.3	6.3	13.0 13.3	13.2		5.7 5.4	5.6	
25-Apr-12	Rainy	Moderate	08:15	11	Surface	1	24.2 24.3	24.2	8.0 8.0	8.0	19.6 19.5	19.6	88.9 95.8	92.4	6.7 7.2	6.9	6.9	4.8 4.6	4.7	5.2	6.2 4.7	5.5	5.7
					Middle	6	24.1 24.1	24.1	8.0 8.0	8.0	22.0 21.0	21.5	93.0 89.4	91.2	6.9 6.7	6.8		4.6 4.7	4.7		7.2 4.9	6.1	
					Bottom	10	23.5 23.4	23.4	8.0 8.0	8.0	26.3 26.4	26.3	86.5 86.6	86.6	6.3 6.3	6.3	6.3	6.5 6.1	6.3		5.7 5.5	5.6	
27-Apr-12	Cloudy	Moderate	08:46	11	Surface	1	23.4 23.4	23.4	8.1 8.1	8.1	24.1 24.1	24.1	91.4 91.3	91.4	6.8 6.8	6.8	6.6	2.4 2.3	2.4	3.1	3.4 4.9	4.2	3.9
					Middle	6	23.3 23.4	23.4	8.1 8.1	8.1	27.4 27.4	27.4	87.5 86.7	87.1	6.4 6.3	6.3		3.0 3.0	3.0		3.9 3.3	3.6	
					Bottom	10	23.2 23.2	23.2	8.2 8.2	8.2	28.8 28.8	28.8	88.4 88.8	88.6	6.4 6.4	6.4	6.4	3.8 3.8	3.8		4.1 3.4	3.8	
30-Apr-12	Cloudy	Moderate	12:34	11	Surface	1	25.4 25.5	25.5	8.0 8.1	8.1	17.4 17.4	17.4	93.2 91.7	92.5	7.0 6.8	6.9	6.7	2.3 2.2	2.3	2.1	5.3 2.9	4.1	3.8
					Middle	6	24.3 24.3	24.3	8.1 8.1	8.1	22.5 22.5	22.5	87.7 88.5	88.1	6.5 6.5	6.5		1.6 1.5	1.6		4.7 4.0	4.4	
					Bottom	10	23.7 23.7	23.7	8.1 8.1	8.1	26.9 27.0	27.0	87.8 88.7	88.3	6.4 6.4	6.4	6.4	2.5 2.4	2.5		3.1 2.4	2.8	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:54	2	Surface	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-	2.0	-	-	5.6
					Middle	1	21.1	21.1	8.2	8.2	29.7	29.7	114.3	114.2	8.6	8.5		2.0	2.0		2.0	2.0	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
5-Apr-12	Cloudy	Moderate	12:59	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	3.0	-	-	5.8
					Middle	1	21.0	21.0	8.2	8.2	29.4	29.4	102.5	102.4	7.7	7.7		3.0	3.0		5.6	5.8	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	14:35	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	5.5	-	-	7.6
					Middle	1	20.3	20.3	8.2	8.2	29.5	29.5	101.1	101.6	7.7	7.7		5.4	5.5		6.7	7.6	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
9-Apr-12	Sunny	Moderate	13:17	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	4.2	-	-	8.6
					Middle	1	21.0	20.9	8.0	8.0	29.1	29.1	95.4	95.2	7.2	7.2		3.9	4.2		8.2	8.6	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
11-Apr-12	Sunny	Moderate	15:33	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	2.9	-	-	6.6
					Middle	1	23.9	23.9	8.0	8.0	26.9	27.0	103.9	103.8	7.5	7.5		3.0	2.9		7.5	6.6	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
13-Apr-12	Sunny	Moderate	17:31	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	5.1	-	-	7.2
					Middle	1	24.0	24.0	8.1	8.1	26.4	26.4	101.9	102.2	7.4	7.4		5.2	5.1		6.5	7.2	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		0.0	0.0	
16-Apr-12	Fine	Moderate	12:19	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	3.8	-	-	3.9
					Middle	1	24.5	24.5	8.0	8.0	23.9	23.9	98.0	98.2	7.1	7.1		3.9	3.8		4.8	3.9	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
18-Apr-12	Fine	Moderate	13:22	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	3.6	-	-	5.4
					Middle	1	22.9	22.9	8.1	8.1	25.5	25.4	96.6	97.2	7.2	7.2		3.7	3.6		5.1	5.4	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	=
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:31	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	4.8	-	-	4.2
					Middle	1	23.8	23.8	8.1	8.1	24.5	24.5	97.6	97.2	7.2	7.1		4.7	4.8		4.4	4.2	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
25-Apr-12	Fine	Moderate	13:32	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	6.2	-	-	8.4
					Middle	1	25.1	25.1	8.1	8.1	19.5	19.5	100.0	100.2	7.4	7.4		6.1	6.2		8.5	8.4	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
27-Apr-12	Rainy	Moderate	15:46	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	3.2	-	-	6.6
					Middle	1	24.2	24.2	8.2	8.2	22.7	22.7	103.8	103.8	7.7	7.6		3.1	3.2		5.8	6.6	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
30-Apr-12	Cloudy	Moderate	19:06	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	6.7	-	-	3.6
					Middle	1	26.4	26.4	8.1	8.1	17.8	17.8	103.9	103.7	7.6	7.6		6.8	6.7		3.1	3.6	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:22	2	Surface	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	0.5	-	-	4.1
					Middle	1	21.6	21.6	8.2	8.2	29.3	29.4	114.9	115.2	8.5	8.6		0.4	0.5		5.1	4.1	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
5-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:	-	-	:
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	18:37	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	7.7	-	-	12.2
					Middle	1	20.3	20.4	8.2	8.2	29.2	29.2	100.8	101.1	7.7	7.7		7.7	7.7		11.5	12.2	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
9-Apr-12	Sunny	Moderate	09:33	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	3.6	-	-	5.4
					Middle	1	20.5	20.5	8.1	8.1	29.1	29.1	94.7	94.8	7.2	7.2		3.7	3.6		6.2	5.4	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
11-Apr-12	Fine	Moderate	10:25	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	4.8	-	-	6.3
					Middle	1	21.9	21.9	8.1	8.1	27.8	27.8	95.4	94.8	7.1	7.1		5.0	4.8		6.4	6.3	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
13-Apr-12	Sunny	Moderate	11:56	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	4.0	-	-	5.7
					Middle	1	23.1	23.1	8.0	8.0	26.4	26.4	97.2	97.1	7.2	7.1		4.0	4.0		6.2	5.7	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
16-Apr-12	Rainy	Moderate	14:17	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	2.6	-	-	2.2
					Middle	1	24.9	24.9	8.0	8.0	23.0	22.9	100.8	100.7	7.3	7.3		2.5	2.6		2.5	2.2	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
18-Apr-12	Fine	Moderate	16:07	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	8.5	-	-	12.0
					Middle	1	23.1	23.1	8.1	8.1	25.6	25.6	97.4	96.8	7.2	7.1		8.5	8.5		12.5	12.0	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:	-	-	:
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:18	2	Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	11.0	-	-	12.2
					Middle	1	23.5	23.5	8.1	8.1	24.6	24.6	90.9	90.9	6.7	6.7		11.0	11.0		11.8	12.2	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
25-Apr-12	Rainy	Moderate	09:29	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	3.6	-	-	5.5
					Middle	1	24.4	24.4	8.1	8.1	21.4	21.4	97.3	97.7	7.2	7.2		3.6	3.6		4.8	5.5	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
27-Apr-12	Cloudy	Moderate	10:03	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	3.7	-	-	6.3
					Middle	1	23.9	23.9	8.1	8.1	22.4	22.4	94.7	95.0	7.1	7.1		3.8	3.7		5.9	6.3	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
30-Apr-12	Cloudy	Moderate	13:56	2	Surface	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	2.1	-	-	3.3
					Middle	1	25.6	25.6	8.1	8.1	18.9	18.9	99.3	99.3	7.3	7.3		2.2	2.1		2.8	3.3	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR4(N) - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	10:59	4	Surface	1	20.9 20.8	20.9	8.2 8.2	8.2	28.9 29.0	28.9	110.0 109.5	109.8	8.3 8.3	8.3	8.3	2.2 2.4	2.3	2.8	5.2 4.5	4.9	6.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	20.7 20.6	20.6	8.2 8.2	8.2	29.5 29.5	29.5	108.3 107.4	107.9	8.2 8.1	8.1	8.1	3.2 3.3	3.3		7.6 9.0	8.3	
5-Apr-12	Cloudy	Moderate	12:12	4	Surface	1	21.2 21.1	21.2	8.1 8.1	8.1	29.0 29.1	29.0	100.7 100.9	100.8	7.6 7.6	7.6	7.6	2.2 2.0	2.1	2.3	4.5 6.2	5.4	5.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	21.1 21.1	21.1	8.1 8.1	8.1	29.1 29.2	29.1	100.6 100.6	100.6	7.6 7.6	7.6	7.6	2.3 2.4	2.4		4.9 5.7	5.3	
7-Apr-12	Fine	Moderate	13:55	3	Surface	1	20.4 20.2	20.3	8.1 8.1	8.1	28.3 28.4	28.3	98.4 104.1	101.3	7.5 8.0	7.8	7.8	6.4 7.1	6.8	7.8	9.7 10.7	10.2	9.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	20.4 20.4	20.4	8.1 8.1	8.1	28.2 28.3	28.2	97.6 101.0	99.3	7.5 7.7	7.6	7.6	8.5 9.0	8.8		8.0 7.9	8.0	
9-Apr-12	Sunny	Moderate	14:03	4	Surface	1	20.9 20.9	20.9	8.1 8.1	8.1	28.4 28.4	28.4	91.8 91.5	91.7	7.0 6.9	6.9	6.9	6.8 6.7	6.8	7.0	10.7 12.0	11.4	10.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	20.8 20.8	20.8	8.1 8.0	8.1	28.4 28.4	28.4	91.2 92.1	91.7	6.9 7.0	6.9	6.9	7.3 6.9	7.1		10.4 9.2	9.8	
11-Apr-12	Sunny	Moderate	16:22	4	Surface	1	22.6 22.6	22.6	8.1 8.0	8.1	27.1 27.1	27.1	96.3 95.1	95.7	7.1 7.0	7.1	7.1	3.5 3.3	3.4	8.2	14.5 15.5	15.0	14.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	22.1 22.1	22.1	8.1 8.0	8.1	27.5 27.5	27.5	95.4 94.1	94.8	7.1 7.0	7.1	7.1	12.8 13.0	12.9		15.4 13.5	14.5	
13-Apr-12	Sunny	Moderate	18:15	4	Surface	1	24.7 24.5	24.6	8.1 8.1	8.1	25.2 25.2	25.2	105.3 103.9	104.6	7.6 7.5	7.5	7.5	4.5 4.3	4.4	4.6	5.9 5.2	5.6	5.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	24.3 24.1	24.2	8.1 8.1	8.1	25.3 25.2	25.3	104.2 102.6	103.4	7.6 7.5	7.5	7.5	4.7 4.8	4.8		7.0 5.3	6.2	
16-Apr-12	Fine	Moderate	11:29	4	Surface	1	25.0 25.0	25.0	8.0 8.0	8.0	20.5 20.6	20.5	102.3 101.4	101.9	7.5 7.5	7.5	7.5	1.8 2.0	1.9	4.0	1.4 1.1	1.3	2.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	24.3 24.1	24.2	8.0 8.0	8.0	23.8 24.1	24.0	91.5 94.1	92.8	6.7 6.9	6.8	6.8	5.9 6.1	6.0		4.0 2.2	3.1	
18-Apr-12	Fine	Moderate	12:33	4	Surface	1	22.9 22.9	22.9	8.1 8.1	8.1	25.3 25.0	25.1	93.8 93.1	93.5	7.0 6.9	7.0	7.0	2.7 2.9	2.8	3.7	5.9 5.9	5.9	5.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	22.8 22.8	22.8	8.1 8.1	8.1	26.4 26.5	26.4	95.3 89.4	92.4	7.0 6.6	6.8	6.8	4.4 4.7	4.6		5.0 4.9	5.0	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:

* DA: Depth-Averaged

** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR4(N) - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	14:50	3	Surface	1	23.5 23.7	23.6	8.0 8.0	8.0	23.2 23.1	23.1	89.0 94.9	92.0	6.6 7.0	6.8	6.8	7.9 7.8	7.9	8.5	9.1 7.6	8.4	8.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	23.4 23.5	23.5	8.0 8.0	8.0	24.2 24.2	24.2	87.0 90.4	88.7	6.4 6.7	6.6	6.6	9.3 8.9	9.1		9.7 9.0	9.4	
25-Apr-12	Fine	Moderate	14:32	4	Surface	1	24.5 24.2	24.4	8.0 8.0	8.0	20.6 21.1	20.8	95.2 91.5	93.4	7.1 6.8	6.9	6.9	6.0 6.0	6.0	6.1	7.2 8.4	7.8	8.0
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	24.3 24.3	24.3	8.0 8.0	8.0	21.2 21.1	21.2	92.4 90.8	91.6	6.9 6.7	6.8	6.8	5.9 6.2	6.1		7.3 8.8	8.1	
27-Apr-12	Rainy	Moderate	16:40	3	Surface	1	24.1 24.1	24.1	8.2 8.1	8.2	25.0 25.1	25.1	97.6 98.5	98.1	7.1 7.2	7.1	7.1	2.0 2.0	2.0	2.3	2.2 2.2	2.2	2.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	2	24.0 24.0	24.0	8.1 8.1	8.1	25.7 25.6	25.7	95.9 95.6	95.8	7.0 7.0	7.0	7.0	2.5 2.4	2.5		3.4 2.6	3.0	
30-Apr-12	Cloudy	Moderate	19:57	4	Surface	1	25.3 25.1	25.2	8.1 8.0	8.0	16.9 16.9	16.9	87.6 87.2	87.4	6.5 6.5	6.5	6.5	4.3 4.5	4.4	5.2	4.4 3.3	3.9	3.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	24.6 24.7	24.7	8.0 8.0	8.0	20.0 20.0	20.0	85.5 85.9	85.7	6.4 6.4	6.4	6.4	6.0 5.7	5.9		3.1 3.6	3.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR4(N) - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	16:15	4	Surface	1	21.9 21.8	21.9	8.2 8.2	8.2	26.5 26.6	26.5	118.0 118.6	118.3	8.9 8.9	8.9	8.9	4.5 4.6	4.6	4.8	6.4 4.6	5.5	6.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	21.8 21.8	21.8	8.2 8.2	8.2	26.5 26.4	26.5	116.8 117.0	116.9	8.8 8.8	8.8	8.8	4.9 5.0	5.0		7.9 8.3	8.1	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
7-Apr-12	Fine	Moderate	19:17	3	Surface	1	20.3 20.3	20.3	8.2 8.2	8.2	29.1 29.0	29.0	98.3 100.0	99.2	7.5 7.6	7.6	7.6	10.2 9.2	9.7	9.8	13.0 15.0	14.0	14.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.3 20.3	20.3	8.2 8.2	8.2	29.0 29.1	29.1	99.1 97.5	98.3	7.6 7.4	7.5	7.5	9.7 10.1	9.9		14.1 16.0	15.1	
9-Apr-12	Sunny	Moderate	08:37	4	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	28.0 28.0	28.0	92.4 92.3	92.4	7.1 7.1	7.1	7.1	6.5 6.0	6.3	6.9	9.0 9.8	9.4	8.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.5 20.5	20.5	8.1 8.1	8.1	28.1 28.1	28.1	92.5 92.2	92.4	7.1 7.0	7.1	7.1	7.3 7.7	7.5		7.8 7.6	7.7	
11-Apr-12	Fine	Moderate	09:35	5	Surface	1	21.9 21.9	21.9	8.0 8.0	8.0	25.3 25.1	25.2	90.3 90.8	90.6	6.8 6.9	6.9	6.9	3.7 3.5	3.6	4.9	5.5 4.7	5.1	5.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	21.7 21.7	21.7	8.0 8.0	8.0	25.6 25.6	25.6	89.6 91.0	90.3	6.8 6.9	6.8	6.8	6.1 6.0	6.1		5.7 7.3	6.5	
13-Apr-12	Sunny	Moderate	11:10	4	Surface	1	22.9 23.0	23.0	8.0 8.0	8.0	25.0 25.0	25.0	96.7 97.0	96.9	7.2 7.2	7.2	7.2	6.9 6.9	6.9	6.8	8.4 7.6	8.0	8.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.0 23.0	23.0	8.0 8.0	8.0	24.7 24.8	24.8	96.8 97.2	97.0	7.2 7.2	7.2	7.2	6.6 6.5	6.6		10.3 9.0	9.7	
16-Apr-12	Rainy	Moderate	15:09	4	Surface	1	24.5 24.6	24.6	8.0 8.0	8.0	21.4 21.2	21.3	100.9 101.0	101.0	7.5 7.5	7.5	7.5	1.8 1.9	1.9	3.2	2.4 3.2	2.8	3.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.3 24.3	24.3	8.0 8.0	8.0	22.1 22.0	22.0	99.8 99.5	99.7	7.4 7.3	7.4	7.4	4.4 4.3	4.4		2.7 4.7	3.7	
18-Apr-12	Fine	Moderate	17:00	4	Surface	1	23.0 23.0	23.0	8.1 8.1	8.1	25.5 25.4	25.5	94.9 94.7	94.8	7.0 7.0	7.0	7.0	1.9 2.2	2.1	2.5	3.8 2.7	3.3	4.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.0 23.0	23.0	8.1 8.1	8.1	25.5 25.5	25.5	95.0 94.3	94.7	7.0 7.0	7.0	7.0	3.1 2.7	2.9		4.8 4.8	4.8	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR4(N) - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:08	3	Surface	1	23.6 23.6	23.6	8.0 8.1	8.1	23.2 23.1	23.1	90.9 95.0	93.0	6.8 7.1	6.9	6.9	4.5 4.6	4.6	5.6	7.1 7.1	7.1	7.2
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	2	23.6 23.6	23.6	8.1 8.1	8.1	24.3 24.2	24.2	90.0 93.0	91.5	6.7 6.9	6.8	6.8	6.5 6.6	6.6		6.5 7.8	7.2	
25-Apr-12	Rainy	Moderate	08:37	4	Surface	1	24.3 24.4	24.3	8.0 8.0	8.0	19.1 18.9	19.0	93.2 96.6	94.9	7.0 7.3	7.1	7.1	4.3 4.2	4.3	5.0	4.8 5.5	5.2	5.3
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	24.3 24.3	24.3	8.0 8.0	8.0	19.3 19.2	19.2	92.2 94.1	93.2	6.9 7.1	7.0	7.0	5.5 5.6	5.6		6.2 4.6	5.4	
27-Apr-12	Cloudy	Moderate	09:14	5	Surface	1	23.5 23.5	23.5	8.1 8.1	8.1	25.3 25.2	25.3	88.6 88.9	88.8	6.5 6.5	6.5	6.5	2.3 2.0	2.2	2.3	3.9 4.5	4.2	4.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.5 23.5	23.5	8.1 8.1	8.1	25.7 25.7	25.7	88.9 89.6	89.3	6.5 6.6	6.5	6.5	2.4 2.2	2.3		4.7 4.5	4.6	
30-Apr-12	Cloudy	Moderate	13:02	4	Surface	1	24.9 24.9	24.9	8.0 8.0	8.0	18.7 18.7	18.7	92.6 92.5	92.6	6.9 6.9	6.9	6.9	6.4 6.4	6.4	6.2	5.7 7.1	6.4	6.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	24.9 24.9	24.9	8.0 8.0	8.0	18.8 18.8	18.8	92.5 92.8	92.7	6.9 6.9	6.9	6.9	5.9 5.9	5.9		7.2 6.0	6.6	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:33	6	Surface	1	21.2 21.1	21.1	8.1 8.1	8.1	26.3 26.5	26.4	110.1 110.4	110.3	8.4 8.4	8.4	8.4	3.9 3.7	3.8	4.2	3.1 4.5	3.8	4.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	19.9 20.0	19.9	8.1 8.1	8.1	29.7 29.6	29.7	106.0 107.9	107.0	8.1 8.2	8.2	8.2	4.6 4.6	4.6		3.8 5.7	4.8	
5-Apr-12	Cloudy	Moderate	13:15	5	Surface	1	20.7 20.7	20.7	8.2 8.2	8.2	28.6 28.6	28.6	101.3 101.5	101.4	7.7 7.7	7.7	7.7	7.9 8.1	8.0	8.3	9.3 8.2	8.8	10.0
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	20.6 20.6	20.6	8.2 8.2	8.2	28.8 28.8	28.8	101.0 100.3	100.7	7.7 7.6	7.6	7.6	8.4 8.8	8.6		10.7 11.7	11.2	
7-Apr-12	Fine	Moderate	14:24	6	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	28.4 28.5	28.5	95.6 96.5	96.1	7.3 7.4	7.3	7.3	6.2 6.2	6.2	6.3	8.8 10.0	9.4	11.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.2 20.2	20.2	8.2 8.2	8.2	29.7 29.7	29.7	96.8 95.3	96.1	7.4 7.2	7.3	7.3	6.2 6.5	6.4		12.8 14.0	13.4	
9-Apr-12	Sunny	Moderate	13:45	6	Surface	1	20.7 20.7	20.7	8.1 8.1	8.1	28.0 28.0	28.0	91.7 92.0	91.9	7.0 7.0	7.0	7.0	10.6 10.4	10.5	12.8	10.5 10.7	10.6	11.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.5 20.5	20.5	8.1 8.1	8.1	28.0 28.0	28.0	91.7 91.3	91.5	7.0 7.0	7.0	7.0	15.1 14.9	15.0		12.4 11.3	11.9	
11-Apr-12	Sunny	Moderate	15:52	6	Surface	1	23.0 23.1	23.1	8.0 8.0	8.0	26.3 26.3	26.3	90.8 91.1	91.0	6.7 6.7	6.7	6.7	14.2 13.9	14.1	16.0	10.3 11.2	10.8	12.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	21.7 21.7	21.7	8.0 8.0	8.0	27.2 27.2	27.2	89.4 89.7	89.6	6.7 6.7	6.7	6.7	17.7 17.9	17.8		14.8 13.9	14.4	
13-Apr-12	Sunny	Moderate	17:15	6	Surface	1	23.3 23.3	23.3	8.0 8.0	8.0	25.8 25.7	25.7	93.9 96.0	95.0	6.9 7.1	7.0	7.0	5.1 5.0	5.1	5.6	6.6 7.5	7.1	7.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	22.6 22.7	22.7	8.0 8.0	8.0	26.4 26.3	26.3	91.7 93.2	92.5	6.8 6.9	6.9	6.9	5.9 6.2	6.1		7.2 6.7	7.0	
16-Apr-12	Fine	Moderate	12:01	5	Surface	1	24.5 24.5	24.5	8.0 8.0	8.0	20.9 20.8	20.9	98.3 97.2	97.8	7.3 7.2	7.2	7.2	2.1 2.1	2.1	2.5	3.3 3.6	3.5	3.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	24.2 24.1	24.1	8.0 8.0	8.0	22.9 23.3	23.1	96.4 96.2	96.3	7.1 7.1	7.1	7.1	2.8 2.8	2.8		2.8 3.1	3.0	
18-Apr-12	Fine	Moderate	13:00	5	Surface	1	23.2 23.1	23.1	8.0 8.0	8.0	24.5 24.5	24.5	94.7 92.9	93.8	7.0 6.9	7.0	7.0	3.7 4.2	4.0	4.1	3.9 3.5	3.7	4.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	23.1 23.1	23.1	8.0 8.0	8.0	25.7 25.0	25.4	93.4 92.6	93.0	6.9 6.9	6.9	6.9	4.2 4.2	4.2		4.4 4.5	4.5	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:31	5	Surface	1	23.5 23.5	23.5	8.0 8.0	8.0	24.0 24.2	24.1	89.6 88.4	89.0	6.6 6.5	6.6	6.6	14.2 14.0	14.1	14.3	13.2 13.1	13.2	12.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	23.4 23.4	23.4	8.1 8.1	8.1	25.0 24.8	24.9	90.6 88.5	89.6	6.7 6.5	6.6	6.6	14.4 14.6	14.5		12.7 12.4	12.6	
25-Apr-12	Fine	Moderate	14:24	5	Surface	1	24.6 24.6	24.6	7.9 7.9	7.9	19.8 20.1	20.0	88.0 88.0	88.0	6.6 6.5	6.5	6.5	11.0 10.6	10.8	12.0	8.2 7.9	8.1	15.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	24.4 24.3	24.3	7.9 7.9	7.9	21.0 20.8	20.9	87.2 87.6	87.4	6.5 6.5	6.5	6.5	13.1 13.2	13.2		22.0 23.2	22.6	
27-Apr-12	Rainy	Moderate	15:38	6	Surface	1	23.9 23.8	23.9	8.1 8.2	8.2	26.2 26.3	26.2	100.4 93.2	96.8	7.3 6.8	7.0	7.0	4.7 4.6	4.7	5.2	8.1 7.4	7.8	6.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	23.7 23.4	23.6	8.2 8.2	8.2	26.2 26.6	26.4	93.3 95.0	94.2	6.8 6.9	6.9	6.9	5.6 5.6	5.6		5.6 6.3	6.0	
30-Apr-12	Cloudy	Moderate	18:39	5	Surface	1	25.9 26.1	26.0	8.0 8.0	8.0	17.2 17.0	17.1	98.5 96.9	97.7	7.3 7.1	7.2	7.2	2.0 2.0	2.0	2.1	1.7 1.7	1.7	2.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	25.7 25.4	25.6	8.0 8.0	8.0	17.6 19.2	18.4	97.6 97.0	97.3	7.2 7.1	7.2	7.2	2.0 2.1	2.1		3.5 3.3	3.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:14	6	Surface	1	22.3 22.4	22.4	8.2 8.2	8.2	25.3 25.3	25.3	114.1 116.4	115.3	8.6 8.7	8.6	8.6	3.0 3.1	3.1	3.1	5.2 4.0	4.6	4.0
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	20.6 20.8	20.7	8.2 8.2	8.2	28.1 28.4	28.2	113.8 112.3	113.1	8.7 8.5	8.6	8.6	3.0 3.2	3.1		3.5 3.1	3.3	
5-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	18:37	6	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	27.4 27.4	27.4	92.9 93.1	93.0	7.1 7.1	7.1	7.1	6.5 6.3	6.4	7.4	3.8 3.9	3.9	4.9
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	20.5 20.6	20.6	8.1 8.1	8.1	27.5 27.5	27.5	93.3 92.7	93.0	7.1 7.1	7.1	7.1	8.4 8.4	8.4		5.8 5.7	5.8	
9-Apr-12	Sunny	Moderate	09:08	6	Surface	1	20.4 20.5	20.4	8.1 8.1	8.1	28.0 27.9	28.0	93.5 93.3	93.4	7.2 7.1	7.1	7.1	14.1 14.3	14.2	14.4	10.7 9.3	10.0	11.9
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	20.4 20.4	20.4	8.1 8.1	8.1	28.0 28.0	28.0	93.2 93.4	93.3	7.1 7.2	7.1	7.1	14.6 14.3	14.5		13.4 13.9	13.7	
11-Apr-12	Fine	Moderate	10:14	6	Surface	1	21.8 21.8	21.8	8.0 8.0	8.0	25.1 25.4	25.2	92.1 91.1	91.6	7.0 6.9	7.0	7.0	6.8 7.0	6.9	12.0	6.5 6.4	6.5	9.9
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	21.7 21.7	21.7	8.0 8.0	8.0	26.8 26.8	26.8	93.1 91.7	92.4	7.0 6.9	7.0	7.0	17.3 16.7	17.0		13.0 13.4	13.2	
13-Apr-12	Sunny	Moderate	12:19	5	Surface	1	23.0 22.8	22.9	8.0 8.0	8.0	24.6 24.6	24.6	96.7 94.9	95.8	7.2 7.1	7.2	7.2	4.3 4.5	4.4	5.8	8.4 6.7	7.6	7.2
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	22.7 22.5	22.6	8.0 8.0	8.0	26.4 26.5	26.5	95.5 93.7	94.6	7.1 7.0	7.0	7.0	7.1 7.2	7.2		7.2 6.2	6.7	
16-Apr-12	Rainy	Moderate	14:38	5	Surface	1	24.2 25.0	24.6	8.0 8.0	8.0	20.2 19.8	20.0	98.5 102.5	100.5	7.4 7.6	7.5	7.5	1.3 1.4	1.4	1.5	1.7 2.4	2.1	2.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	24.0 24.1	24.0	8.0 8.0	8.0	22.6 22.6	22.6	98.1 97.5	97.8	7.3 7.2	7.2	7.2	1.4 1.5	1.5		2.3 3.5	2.9	
18-Apr-12	Fine	Moderate	16:46	6	Surface	1	23.7 23.7	23.7	7.9 8.0	7.9	21.5 21.5	21.5	95.9 95.1	95.5	7.2 7.1	7.1	7.1	2.2 2.0	2.1	2.1	3.3 2.5	2.9	2.7
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	23.6 23.6	23.6	8.0 8.0	8.0	23.5 23.5	23.5	94.8 94.5	94.7	7.0 7.0	7.0	7.0	2.1 2.0	2.1		2.1 2.8	2.5	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:03	5	Surface	1	23.9 23.9	23.9	8.0 8.0	8.0	21.0 21.0	21.0	86.9 85.9	86.4	6.5 6.4	6.5	6.5	8.5 8.1	8.3	8.3	9.5 8.3	8.9	9.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	23.7 23.8	23.8	8.0 8.0	8.0	21.5 21.5	21.5	87.9 85.8	86.9	6.6 6.4	6.5		8.1 8.2	8.2		10.4 9.1	9.8	
25-Apr-12	Rainy	Moderate	09:25	5	Surface	1	24.3 24.4	24.3	7.9 7.9	7.9	16.9 16.8	16.9	86.2 87.2	86.7	6.6 6.6	6.6	6.6	5.0 4.7	4.9	5.4	4.1 2.4	3.3	2.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	24.1 24.1	24.1	7.9 7.9	7.9	19.7 19.5	19.6	87.7 86.6	87.2	6.6 6.5	6.5		5.9 5.8	5.9		2.4 2.3	2.4	
27-Apr-12	Cloudy	Moderate	10:03	6	Surface	1	23.5 23.3	23.4	8.1 8.1	8.1	24.7 25.3	25.0	91.5 100.8	96.2	6.7 7.4	7.1	7.1	6.4 6.2	6.3	7.0	5.9 5.0	5.5	7.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	23.4 23.3	23.4	8.1 8.1	8.1	26.7 27.1	26.9	90.1 92.5	91.3	6.6 6.8	6.7		7.6 7.5	7.6		8.4 9.0	8.7	
30-Apr-12	Cloudy	Moderate	14:19	5	Surface	1	25.6 25.1	25.3	7.8 8.0	7.9	17.8 18.0	17.9	94.5 93.3	93.9	7.0 7.0	7.0	7.0	3.3 3.3	3.3	3.4	1.7 <0.5	1.1	2.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	25.5 25.2	25.4	7.9 8.0	8.0	20.1 20.9	20.5	93.6 93.0	93.3	6.9 6.8	6.8		3.3 3.6	3.5		3.3 5.1	4.2	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:03	5	Surface	1	20.6 20.4	20.5	8.2 8.2	8.2	26.5 25.9	26.2	109.8 108.4	109.1	8.5 8.4	8.4	8.4	5.0 4.8	4.9	5.7	2.5 2.5	2.5	3.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	20.0 20.1	20.0	8.2 8.2	8.2	29.1 29.1	29.1	106.4 108.0	107.2	8.2 8.3	8.2	8.2	6.5 6.4	6.5		3.8 3.9	3.9	
5-Apr-12	Cloudy	Moderate	12:43	5	Surface	1	20.5 20.5	20.5	8.2 8.2	8.2	28.1 28.2	28.1	101.1 101.3	101.2	7.7 7.7	7.7	7.7	11.8 11.6	11.7	13.1	6.7 5.5	6.1	10.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	20.4 20.4	20.4	8.2 8.2	8.2	28.6 28.8	28.7	101.0 100.4	100.7	7.7 7.7	7.7	7.7	14.2 14.6	14.4		13.3 15.0	14.2	
7-Apr-12	Fine	Moderate	13:58	5	Surface	1	20.4 20.4	20.4	8.2 8.2	8.2	28.1 28.4	28.3	100.4 97.5	99.0	7.7 7.5	7.6	7.6	11.7 11.6	11.7	11.5	14.4 15.8	15.1	15.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	20.3 20.2	20.3	8.2 8.2	8.2	28.8 29.5	29.2	97.8 98.0	97.9	7.5 7.5	7.5	7.5	11.2 11.3	11.3		15.9 16.7	16.3	
9-Apr-12	Sunny	Moderate	14:19	5	Surface	1	20.5 20.5	20.5	8.1 8.1	8.1	29.7 29.7	29.7	97.3 97.2	97.3	7.4 7.4	7.4	7.4	10.8 10.9	10.9	11.2	9.3 9.2	9.3	10.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	20.3 20.2	20.2	8.1 8.1	8.1	30.3 30.4	30.4	96.5 96.5	96.5	7.3 7.3	7.3	7.3	11.5 11.5	11.5		12.2 11.6	11.9	
11-Apr-12	Sunny	Moderate	16:25	5	Surface	1	23.0 22.8	22.9	8.0 8.0	8.0	23.7 24.1	23.9	93.8 95.9	94.9	7.0 7.2	7.1	7.1	8.2 8.1	8.2	11.2	8.7 10.7	9.7	9.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	21.4 21.3	21.4	8.1 8.1	8.1	27.3 27.2	27.3	92.4 91.4	91.9	7.0 6.9	6.9	6.9	14.0 14.2	14.1		11.9 6.0	9.0	
13-Apr-12	Sunny	Moderate	17:56	5	Surface	1	23.9 24.3	24.1	8.1 8.1	8.1	23.6 23.6	23.6	95.7 102.9	99.3	7.1 7.5	7.3	7.3	3.4 3.3	3.4	5.9	5.0 7.0	6.0	7.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	22.6 22.1	22.3	8.1 8.1	8.1	26.9 26.8	26.8	100.2 94.0	97.1	7.4 7.0	7.2	7.2	8.2 8.3	8.3		7.6 9.1	8.4	
16-Apr-12	Fine	Moderate	11:28	5	Surface	1	24.9 24.8	24.9	8.0 8.0	8.0	18.0 18.3	18.1	99.1 101.2	100.2	7.4 7.6	7.5	7.5	3.4 3.0	3.2	3.7	4.7 3.0	3.9	4.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	4	23.1 23.1	23.1	8.0 8.0	8.0	25.5 25.6	25.5	97.6 96.0	96.8	7.2 7.1	7.2	7.2	4.0 4.2	4.1		4.6 4.1	4.4	
18-Apr-12	Fine	Moderate	12:27	4	Surface	1	23.0 23.2	23.1	8.0 7.9	8.0	22.2 22.3	22.2	90.9 93.9	92.4	6.9 7.1	7.0	7.0	8.0 9.2	8.6	8.5	10.5 10.7	10.6	9.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	3	22.7 22.9	22.8	8.0 8.0	8.0	26.0 24.9	25.4	90.4 89.6	90.0	6.7 6.7	6.7	6.7	8.6 8.2	8.4		8.6 7.6	8.1	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	14:50	5	Surface	1	23.6 23.5	23.5	8.0 8.0	8.0	22.4 21.0	21.7	85.0 85.4	85.2	6.3 6.4	6.4	6.4	14.8 15.1	15.0	14.7	10.1 11.7	10.9	8.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.1 23.1	23.1	8.0 8.0	8.0	24.8 25.0	24.9	85.9 84.3	85.1	6.4 6.3	6.3		14.2 14.4	14.3		5.2 5.3	5.3	
25-Apr-12	Fine	Moderate	14:58	5	Surface	1	24.8 24.8	24.8	8.0 8.0	8.0	16.5 16.5	16.5	97.3 97.6	97.5	7.4 7.4	7.4	7.4	5.7 5.7	5.7	5.7	5.5 6.8	6.2	6.3
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	24.2 24.6	24.4	8.0 8.0	8.0	19.9 18.1	19.0	92.7 96.8	94.8	6.9 7.3	7.1		5.8 5.6	5.7		7.4 5.1	6.3	
27-Apr-12	Rainy	Moderate	16:09	6	Surface	1	23.7 23.7	23.7	8.2 8.2	8.2	24.7 24.6	24.6	99.6 101.8	100.7	7.3 7.5	7.4	7.4	3.2 3.3	3.3	3.2	4.3 2.5	3.4	3.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	23.6 23.6	23.6	8.2 8.2	8.2	25.4 25.2	25.3	99.9 99.7	99.8	7.3 7.3	7.3		3.0 3.2	3.1		4.2 3.3	3.8	
30-Apr-12	Cloudy	Moderate	19:11	6	Surface	1	26.7 26.3	26.5	7.7 8.1	7.9	10.8 10.8	10.8	95.6 92.6	94.1	7.2 7.0	7.1	7.1	3.5 3.6	3.6	4.8	3.7 3.5	3.6	3.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	24.1 25.2	24.7	8.0 8.0	8.0	23.4 22.6	23.0	93.5 98.4	96.0	6.9 7.1	7.0		6.0 6.0	6.0		2.8 4.4	3.6	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	15:46	5	Surface	1	21.4 21.0	21.2	8.2 8.2	8.2	25.2 25.9	25.5	114.4 114.3	114.4	8.7 8.8	8.8	8.8	3.1 3.2	3.2	3.8	3.3 2.5	2.9	4.0
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	20.1 20.0	20.0	8.2 8.2	8.2	29.5 29.1	29.3	113.0 105.1	109.1	8.6 8.1	8.3	8.3	4.3 4.3	4.3		5.9 4.2	5.1	
5-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	19:15	4	Surface	1	20.6 20.6	20.6	8.1 8.1	8.1	26.2 26.2	26.2	89.9 89.4	89.7	6.9 6.9	6.9	6.9	12.1 12.4	12.3	12.4	20.6 21.5	21.1	21.0
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	20.6 20.6	20.6	8.1 8.1	8.1	26.2 26.2	26.2	89.5 90.3	89.9	6.9 7.0	6.9	6.9	12.3 12.6	12.5		21.0 20.5	20.8	
9-Apr-12	Sunny	Moderate	08:35	6	Surface	1	20.7 20.7	20.7	8.0 8.0	8.0	25.7 25.9	25.8	90.8 89.8	90.3	7.0 6.9	7.0	7.0	7.1 7.1	7.1	9.9	5.8 6.4	6.1	10.0
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	20.6 20.6	20.6	8.0 8.0	8.0	26.8 26.7	26.7	90.0 89.8	89.9	6.9 6.9	6.9	6.9	12.6 12.5	12.6		14.3 13.2	13.8	
11-Apr-12	Fine	Moderate	09:40	6	Surface	1	22.0 21.8	21.9	7.9 7.9	7.9	23.5 24.0	23.8	87.8 87.7	87.8	6.7 6.7	6.7	6.7	9.6 9.7	9.7	13.6	6.5 5.0	5.8	5.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	21.4 21.4	21.4	8.1 8.0	8.1	27.4 27.5	27.4	89.5 88.0	88.8	6.8 6.6	6.7	6.7	17.3 17.5	17.4		5.1 5.3	5.2	
13-Apr-12	Sunny	Moderate	11:45	5	Surface	1	23.1 23.3	23.2	8.0 8.0	8.0	22.8 22.7	22.7	95.3 100.0	97.7	7.2 7.5	7.3	7.3	3.8 3.5	3.7	4.1	3.8 4.4	4.1	4.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	22.5 22.8	22.6	8.0 8.0	8.0	25.2 25.0	25.1	94.8 94.3	94.6	7.1 7.0	7.1	7.1	4.5 4.4	4.5		4.0 3.9	4.0	
16-Apr-12	Rainy	Moderate	15:12	4	Surface	1	25.6 25.4	25.5	8.1 8.1	8.1	17.0 17.6	17.3	109.3 103.3	106.3	8.1 7.7	7.9	7.9	3.0 2.7	2.9	2.9	3.2 3.1	3.2	3.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	23.5 23.7	23.6	8.0 8.0	8.0	24.4 24.7	24.6	101.7 107.6	104.7	7.5 7.9	7.7	7.7	2.7 2.8	2.8		2.8 2.9	2.9	
18-Apr-12	Fine	Moderate	17:23	5	Surface	1	23.1 23.2	23.2	8.0 7.8	7.9	21.2 21.2	21.2	90.4 94.8	92.6	6.8 7.2	7.0	7.0	7.1 7.4	7.3	7.3	8.2 6.5	7.4	7.2
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.2 23.2	23.2	8.0 8.0	8.0	25.3 25.0	25.2	90.8 88.9	89.9	6.7 6.6	6.7	6.7	7.2 7.4	7.3		6.7 7.0	6.9	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	20:35	5	Surface	1	23.6 23.6	23.6	7.9 7.9	7.9	19.9 18.7	19.3	73.1 74.5	73.8	5.5 5.7	5.6	5.6	13.0 12.8	12.9	13.7	14.3 14.7	14.5	14.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.6 23.6	23.6	7.9 7.9	7.9	20.3 20.4	20.3	73.4 76.0	74.7	5.5 5.7	5.6	5.6	14.5 14.5	14.5		15.1 14.2	14.7	
25-Apr-12	Rainy	Moderate	08:49	5	Surface	1	24.4 24.4	24.4	8.0 8.0	8.0	17.3 17.3	17.3	93.5 92.1	92.8	7.1 7.0	7.0	7.0	6.7 6.3	6.5	6.5	8.5 6.4	7.5	7.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	24.2 24.2	24.2	7.9 8.0	8.0	19.5 20.0	19.8	89.7 92.0	90.9	6.7 6.9	6.8	6.8	6.6 6.3	6.5		7.8 6.6	7.2	
27-Apr-12	Cloudy	Moderate	09:27	5	Surface	1	23.7 23.6	23.7	8.1 8.1	8.1	23.0 23.1	23.1	102.8 96.4	99.6	7.6 7.2	7.4	7.4	4.5 4.5	4.5	7.0	5.2 3.8	4.5	4.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.5 23.4	23.4	8.1 8.1	8.1	28.4 28.1	28.2	97.8 93.9	95.9	7.1 6.8	6.9	6.9	9.3 9.7	9.5		3.5 3.9	3.7	
30-Apr-12	Cloudy	Moderate	13:49	6	Surface	1	26.2 26.0	26.1	8.0 8.1	8.0	13.1 13.2	13.2	100.5 100.4	100.5	7.5 7.6	7.6	7.6	2.3 2.2	2.3	2.3	3.2 2.0	2.6	2.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	24.9 24.5	24.7	8.0 8.0	8.0	22.0 23.2	22.6	104.7 103.0	103.9	7.7 7.5	7.6	7.6	2.3 2.3	2.3		2.6 2.2	2.4	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR7 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	11:56	4	Surface	1	20.8 20.8	20.8	8.2 8.2	8.2	26.9 27.0	27.0	117.1 116.6	116.9	9.0 8.9	8.9	8.9	1.9 1.9	1.9	1.9	3.9 2.8	3.4	3.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	20.6 20.5	20.6	8.2 8.2	8.2	27.4 27.6	27.5	116.3 114.3	115.3	8.9 8.8	8.8	8.8	1.9 1.9	1.9		2.9 3.6	3.3	
5-Apr-12	Cloudy	Moderate	13:37	5	Surface	1	20.6 20.6	20.6	8.2 8.2	8.2	28.0 28.0	28.0	103.1 103.3	103.2	7.9 7.9	7.9	7.9	9.1 8.9	9.0	9.2	5.0 4.5	4.8	6.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	20.6 20.6	20.6	8.2 8.2	8.2	28.4 28.3	28.3	102.6 103.0	102.8	7.8 7.8	7.8	7.8	9.4 9.2	9.3		6.9 7.6	7.3	
7-Apr-12	Fine	Moderate	14:47	3	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	27.7 28.0	27.8	96.4 95.9	96.2	7.4 7.3	7.4	7.4	6.1 6.3	6.2	7.5	6.6 8.2	7.4	8.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	2	20.4 20.4	20.4	8.1 8.1	8.1	28.0 28.2	28.1	96.7 95.7	96.2	7.4 7.3	7.4	7.4	8.4 8.9	8.7		9.5 8.8	9.2	
9-Apr-12	Sunny	Moderate	13:18	6	Surface	1	20.7 20.7	20.7	8.1 8.1	8.1	28.3 28.2	28.3	92.9 93.1	93.0	7.1 7.1	7.1	7.1	6.8 6.8	6.8	6.8	7.5 8.8	8.2	7.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.6 20.6	20.6	8.2 8.1	8.1	28.3 28.3	28.3	92.9 92.7	92.8	7.1 7.1	7.1	7.1	6.5 6.8	6.7		6.4 7.7	7.1	
11-Apr-12	Sunny	Moderate	15:23	4	Surface	1	23.1 22.9	23.0	8.0 8.0	8.0	25.1 25.3	25.2	94.1 95.7	94.9	7.0 7.1	7.0	7.0	11.3 11.6	11.5	13.9	4.8 4.7	4.8	4.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	21.9 22.0	22.0	8.1 8.0	8.0	26.7 26.5	26.6	92.9 93.7	93.3	7.0 7.0	7.0	7.0	16.1 16.4	16.3		5.6 4.4	5.0	
13-Apr-12	Sunny	Moderate	16:50	5	Surface	1	23.6 23.9	23.8	8.1 8.2	8.2	23.6 24.2	23.9	101.1 100.5	100.8	7.5 7.4	7.4	7.4	3.7 3.5	3.6	3.8	4.0 4.2	4.1	4.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	23.6 23.3	23.5	8.1 8.2	8.2	24.7 24.9	24.8	101.1 99.9	100.5	7.4 7.4	7.4	7.4	3.7 4.2	4.0		5.6 4.3	5.0	
16-Apr-12	Fine	Moderate	12:25	4	Surface	1	24.9 24.9	24.9	8.0 8.0	8.0	19.4 19.3	19.3	103.1 103.2	103.2	7.7 7.7	7.7	7.7	1.3 1.3	1.3	1.3	3.6 2.8	3.2	3.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	24.9 24.9	24.9	8.0 8.0	8.0	19.4 19.2	19.3	103.1 103.3	103.2	7.7 7.7	7.7	7.7	1.3 1.3	1.3		2.2 4.2	3.2	
18-Apr-12	Fine	Moderate	13:22	4	Surface	1	23.0 22.9	23.0	8.0 8.1	8.0	24.4 24.4	24.4	95.9 93.6	94.8	7.2 7.0	7.1	7.1	2.0 2.2	2.1	2.7	2.7 2.9	2.8	2.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.0 22.8	22.9	8.1 8.1	8.1	26.2 26.3	26.3	93.5 93.9	93.7	6.9 6.9	6.9	6.9	3.2 3.3	3.3		2.3 2.2	2.3	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR7 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	15:53	4	Surface	1	23.4 23.5	23.5	8.0 8.0	8.0	23.4 22.8	23.1	89.9 87.3	88.6	6.7 6.5	6.6	6.6	20.7 20.2	20.5	20.9	6.6 6.5	6.6	12.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.3 23.3	23.3	8.0 8.0	8.0	24.2 24.0	24.1	93.0 87.7	90.4	6.9 6.5	6.7	6.7	21.2 21.2	21.2		16.9 19.0	18.0	
25-Apr-12	Fine	Moderate	13:57	5	Surface	1	24.4 24.3	24.3	8.0 8.0	8.0	18.6 18.7	18.7	90.9 90.3	90.6	6.8 6.8	6.8	6.8	6.0 6.2	6.1	6.2	6.3 6.1	6.2	7.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	24.1 24.1	24.1	8.0 8.0	8.0	19.9 19.8	19.8	89.9 90.0	90.0	6.7 6.8	6.7	6.7	6.2 6.4	6.3		6.8 9.4	8.1	
27-Apr-12	Rainy	Moderate	15:15	4	Surface	1	23.4 23.4	23.4	8.2 8.3	8.2	26.4 26.4	26.4	91.0 93.2	92.1	6.7 6.8	6.7	6.7	2.2 2.2	2.2	2.2	4.4 3.4	3.9	3.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	3	23.4 23.4	23.4	8.2 8.2	8.2	27.5 27.4	27.5	90.5 92.3	91.4	6.6 6.7	6.6	6.6	2.1 2.2	2.2		3.1 3.3	3.2	
30-Apr-12	Cloudy	Moderate	18:16	5	Surface	1	26.3 26.4	26.3	8.0 8.0	8.0	15.4 15.2	15.3	101.4 101.5	101.5	7.5 7.5	7.5	7.5	2.4 2.3	2.4	2.4	2.8 2.7	2.8	2.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	26.2 26.2	26.2	8.0 8.0	8.0	15.7 15.7	15.7	101.3 101.2	101.3	7.5 7.5	7.5	7.5	2.4 2.4	2.4		2.7 3.0	2.9	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR7 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	14:51	4	Surface	1	21.2 21.3	21.3	8.2 8.2	8.2	26.9 26.8	26.8	116.8 116.0	116.4	8.9 8.8	8.8	8.8	2.0 1.9	2.0	2.1	3.4 3.6	3.5	3.5
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	21.1 21.2	21.2	8.2 8.2	8.2	27.2 27.2	27.2	115.9 113.9	114.9	8.8 8.6	8.7	8.7	2.1 2.0	2.1		4.5 2.5	3.5	
5-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
7-Apr-12	Fine	Moderate	18:18	4	Surface	1	20.6 20.6	20.6	8.1 8.1	8.1	27.4 27.5	27.4	93.7 93.1	93.4	7.2 7.1	7.1	7.1	8.0 7.8	7.9	8.2	9.5 7.8	8.7	6.9
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	20.6 20.6	20.6	8.2 8.1	8.2	27.2 27.5	27.3	95.0 93.2	94.1	7.3 7.1	7.2	7.2	8.5 8.5	8.5		3.9 6.0	5.0	
9-Apr-12	Sunny	Moderate	09:34	5	Surface	1	20.4 20.4	20.4	8.1 8.1	8.1	28.2 28.5	28.3	92.6 92.1	92.4	7.1 7.0	7.1	7.1	15.5 15.5	15.5	15.1	11.1 11.4	11.3	10.9
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	20.4 20.4	20.4	8.1 8.1	8.1	28.4 28.4	28.4	92.3 92.2	92.3	7.1 7.0	7.0	7.0	14.5 14.6	14.6		10.2 10.6	10.4	
11-Apr-12	Fine	Moderate	10:38	5	Surface	1	21.9 21.9	21.9	8.0 8.0	8.0	26.0 26.0	26.0	91.7 91.6	91.7	6.9 6.9	6.9	6.9	6.2 6.2	6.2	6.4	6.4 5.4	5.9	6.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	21.7 21.5	21.6	8.0 8.0	8.0	26.5 26.7	26.6	91.0 91.1	91.1	6.9 6.9	6.9	6.9	6.5 6.7	6.6		5.6 6.7	6.2	
13-Apr-12	Sunny	Moderate	12:46	5	Surface	1	23.3 23.4	23.3	8.0 8.0	8.0	23.2 23.0	23.1	97.5 100.8	99.2	7.3 7.5	7.4	7.4	2.4 2.5	2.5	2.5	3.1 2.9	3.0	3.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.0 22.9	22.9	8.0 8.0	8.0	25.0 25.0	25.0	97.8 98.4	98.1	7.3 7.3	7.3	7.3	2.4 2.5	2.5		3.9 3.6	3.8	
16-Apr-12	Rainy	Moderate	14:12	4	Surface	1	25.0 25.1	25.0	8.1 8.1	8.1	19.0 18.9	18.9	101.1 103.9	102.5	7.5 7.7	7.6	7.6	1.1 1.1	1.1	1.7	3.2 2.9	3.1	3.1
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	24.9 23.6	24.2	8.1 8.1	8.1	19.5 23.6	21.5	102.8 101.8	102.3	7.6 7.6	7.6	7.6	2.4 2.1	2.3		3.3 2.6	3.0	
18-Apr-12	Fine	Moderate	16:24	3	Surface	1	23.4 23.0	23.2	7.9 8.0	8.0	23.8 24.6	24.2	95.2 92.8	94.0	7.1 6.9	7.0	7.0	2.6 2.7	2.7	2.9	2.9 4.0	3.5	3.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	2	23.1 22.9	23.0	8.0 8.0	8.0	24.8 26.2	25.5	92.8 92.9	92.9	6.9 6.9	6.9	6.9	2.9 3.1	3.0		4.0 3.3	3.7	
20-Apr-12***	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR7 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	19:41	4	Surface	1	23.8 23.6	23.7	8.0 8.0	8.0	21.8 22.0	21.9	84.1 82.9	83.5	6.3 6.2	6.2	6.2	11.2 11.5	11.4	15.0	5.8 5.8	5.8	6.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	23.5 23.5	23.5	8.0 8.0	8.0	23.1 22.9	23.0	82.8 84.5	83.7	6.2 6.3	6.2		18.5 18.4	18.5		7.1 6.6	6.9	
25-Apr-12	Rainy	Moderate	09:49	5	Surface	1	24.2 24.2	24.2	8.0 7.9	8.0	17.7 17.8	17.7	87.5 87.0	87.3	6.6 6.6	6.6	6.6	4.2 4.3	4.3	6.5	3.9 5.4	4.7	4.2
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.8 23.8	23.8	8.0 8.0	8.0	21.6 21.7	21.7	86.3 86.9	86.6	6.4 6.5	6.5		8.5 8.9	8.7		3.6 3.6	3.6	
27-Apr-12	Cloudy	Moderate	10:26	5	Surface	1	23.4 23.4	23.4	8.1 8.1	8.1	26.2 25.7	26.0	91.9 100.2	96.1	6.7 7.4	7.0	7.0	3.7 3.8	3.8	5.1	5.1 5.2	5.2	5.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	23.3 23.4	23.3	8.1 8.1	8.1	28.3 28.2	28.3	90.6 96.5	93.6	6.6 7.0	6.8		6.4 6.3	6.4		6.3 4.9	5.6	
30-Apr-12	Cloudy	Moderate	14:36	5	Surface	1	26.2 25.3	25.7	7.4 8.0	7.7	16.0 16.2	16.1	99.9 94.6	97.3	7.4 7.1	7.2	7.2	3.2 3.2	3.2	4.0	2.1 3.3	2.7	2.6
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	25.1 25.6	25.4	8.0 7.9	7.9	18.4 18.4	18.4	92.6 96.5	94.6	6.9 7.1	7.0		4.8 4.8	4.8		2.4 2.6	2.5	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10A - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	09:36	6	Surface	1	19.4 19.4	19.4	8.2 8.2	8.2	31.5 31.5	31.5	100.4 100.4	100.4	7.7 7.7	7.7	7.7	1.3 1.4	1.4	1.3	4.4 3.3	3.9	3.4
					Middle	3	19.4 19.4	19.4	8.2 8.2	8.2	31.5 31.5	31.5	100.1 100.2	100.2	7.6 7.7	7.6		1.2 1.3	1.3		3.1 2.4	2.8	
					Bottom	5	19.4 19.4	19.4	8.2 8.2	8.2	31.5 31.5	31.5	99.9 100.1	100.0	7.6 7.6	7.6	7.6	1.2 1.3	1.3		3.0 3.9	3.5	
5-Apr-12	Cloudy	Moderate	10:57	6	Surface	1	19.9 19.9	19.9	8.1 8.1	8.1	31.3 31.3	31.3	98.3 99.4	98.9	7.5 7.5	7.5	7.5	1.4 1.3	1.4	1.3	2.4 4.1	3.3	3.6
					Middle	3	19.9 19.9	19.9	8.1 8.1	8.1	31.3 31.3	31.3	98.2 98.8	98.5	7.4 7.5	7.5		1.2 1.3	1.3		3.9 2.5	3.2	
					Bottom	5	19.9 19.8	19.8	8.1 8.1	8.1	31.3 31.4	31.4	98.2 98.0	98.1	7.4 7.4	7.4	7.4	1.2 1.2	1.2		4.4 4.3	4.4	
7-Apr-12	Fine	Moderate	12:30	6	Surface	1	20.0 20.0	20.0	8.1 8.1	8.1	30.9 30.9	30.9	95.1 99.3	97.2	7.2 7.5	7.4	7.4	2.8 2.9	2.9	2.9	9.9 8.1	9.0	7.3
					Middle	3	20.0 20.0	20.0	8.1 8.1	8.1	30.9 30.9	30.9	94.7 98.1	96.4	7.2 7.4	7.3		3.2 2.7	3.0		6.8 5.8	6.3	
					Bottom	5	20.0 20.0	20.0	8.1 8.1	8.1	30.9 30.9	30.9	96.3 94.1	95.2	7.3 7.1	7.2	7.2	2.7 3.1	2.9		7.7 5.6	6.7	
9-Apr-12	Sunny	Moderate	15:16	7	Surface	1	20.9 20.9	20.9	8.1 8.1	8.1	29.2 29.1	29.2	94.5 94.7	94.6	7.1 7.1	7.1	7.1	3.5 3.7	3.6	3.7	4.0 4.0	4.0	4.5
					Middle	4	20.8 20.7	20.7	8.1 8.1	8.1	29.2 29.5	29.4	94.0 93.5	93.8	7.1 7.1	7.1		3.7 3.5	3.6		5.6 3.9	4.8	
					Bottom	6	20.5 20.8	20.7	8.1 8.1	8.1	29.8 29.3	29.5	92.7 93.8	93.3	7.0 7.1	7.0	7.0	3.9 4.0	4.0		4.7 4.6	4.7	
11-Apr-12	Sunny	Moderate	17:35	6	Surface	1	22.8 22.6	22.7	8.1 8.1	8.1	26.3 26.6	26.4	100.0 98.8	99.4	7.4 7.3	7.4	7.4	2.9 3.0	3.0	3.1	6.3 8.3	7.3	6.9
					Middle	3	22.6 22.4	22.5	8.1 8.1	8.1	26.5 26.7	26.6	98.5 97.8	98.2	7.3 7.3	7.3		3.3 3.3	3.3		4.8 5.4	5.1	
					Bottom	5	22.5 22.5	22.5	8.1 8.1	8.1	26.6 26.6	26.6	98.2 98.3	98.3	7.3 7.3	7.3	7.3	3.0 2.9	3.0		7.0 9.5	8.3	
13-Apr-12	Sunny	Moderate	19:17	7	Surface	1	23.5 23.5	23.5	8.1 8.1	8.1	24.5 24.5	24.5	102.2 102.3	102.3	7.5 7.6	7.5	7.5	2.5 2.4	2.5	2.4	4.1 3.9	4.0	4.9
					Middle	4	23.4 23.3	23.4	8.1 8.1	8.1	25.2 25.3	25.2	101.1 101.6	101.4	7.5 7.5	7.5		2.3 2.3	2.3		3.1 4.1	3.6	
					Bottom	6	23.4 23.2	23.3	8.1 8.1	8.1	25.2 25.5	25.4	101.8 100.6	101.2	7.5 7.4	7.5	7.5	2.5 2.5	2.5		5.7 8.3	7.0	
16-Apr-12	Fine	Moderate	09:54	6	Surface	1	23.0 23.4	23.2	8.1 8.1	8.1	27.9 26.6	27.2	94.2 96.6	95.4	6.9 7.1	7.0	7.0	1.2 1.1	1.2	1.4	4.4 2.5	3.5	1.9
					Middle	3	22.8 22.9	22.8	8.1 8.1	8.1	28.5 28.3	28.4	93.8 95.6	94.7	6.9 7.0	6.9		1.2 1.3	1.3		1.5 0.5	1.0	
					Bottom	5	22.4 22.3	22.4	8.1 8.1	8.1	29.9 30.0	30.0	92.9 91.9	92.4	6.8 6.7	6.7	6.7	1.5 1.7	1.6		1.4 1.1	1.3	
18-Apr-12	Fine	Moderate	11:04	6	Surface	1	22.4 22.3	22.4	8.1 8.1	8.1	30.3 30.5	30.4	90.0 90.1	90.1	6.6 6.6	6.6	6.6	0.7 0.8	0.8	1.1	6.4 4.2	5.3	4.9
					Middle	3	22.3 22.3	22.3	8.1 8.1	8.1	30.6 30.7	30.6	89.4 89.8	89.6	6.5 6.5	6.5		1.1 1.2	1.2		4.5 5.7	5.1	
					Bottom	5	22.3 22.2	22.3	8.1 8.1	8.1	30.7 30.7	30.7	89.3 91.1	90.2	6.5 6.6	6.6	6.6	1.1 1.3	1.2		4.7 3.7	4.2	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	- -	-	- -		-	- -	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10A - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	13:09	7	Surface	1	23.2 23.4	23.3	8.1 8.1	8.1	26.7 26.3	26.5	89.5 99.7	94.6	6.6 7.3	6.9	6.8	2.3 2.6	2.5	2.6	3.8 4.1	4.0	6.4
					Middle	4	23.2 23.0	23.1	8.1 8.1	8.1	28.4 28.5	28.5	94.9 88.9	91.9	6.9 6.5	6.7		2.5 2.5	2.5		6.6 7.7	7.2	
					Bottom	6	22.8 22.8	22.8	8.1 8.1	8.1	28.6 28.8	28.7	89.9 87.6	88.8	6.6 6.4	6.5		2.7 2.8	2.8		6.7 9.2	8.0	
25-Apr-12	Fine	Moderate	15:35	6	Surface	1	24.6 24.6	24.6	8.1 8.0	8.1	19.3 19.3	19.3	96.9 94.9	95.9	7.2 7.1	7.2	7.2	3.7 3.5	3.6	3.6	7.1 5.5	6.3	5.6
					Middle	3	24.6 24.6	24.6	8.0 8.0	8.0	19.3 19.4	19.3	94.9 95.6	95.3	7.1 7.1	7.1		3.6 3.5	3.6		5.8 4.9	5.4	
					Bottom	5	24.6 24.6	24.6	8.0 8.0	8.0	19.5 19.5	19.5	94.7 94.9	94.8	7.1 7.1	7.1		3.6 3.5	3.6		5.2 5.1	5.2	
27-Apr-12	Rainy	Moderate	17:47	6	Surface	1	23.4 23.4	23.4	8.2 8.2	8.2	27.0 27.0	27.0	94.0 93.6	93.8	6.9 6.8	6.8	6.8	1.6 1.4	1.5	1.9	2.2 3.0	2.6	3.4
					Middle	3	23.4 23.4	23.4	8.2 8.2	8.2	27.9 27.9	27.9	92.9 93.4	93.2	6.8 6.8	6.8		1.8 2.1	2.0		3.8 3.8	3.8	
					Bottom	5	23.4 23.4	23.4	8.2 8.2	8.2	27.5 27.5	27.5	94.2 94.6	94.4	6.8 6.9	6.9		2.0 2.2	2.1		4.5 3.0	3.8	
30-Apr-12	Cloudy	Moderate	21:10	7	Surface	1	26.1 26.1	26.1	8.1 8.1	8.1	15.7 15.7	15.7	100.3 100.2	100.3	7.4 7.4	7.4	7.4	1.9 2.0	2.0	1.8	2.0 3.3	2.7	2.5
					Middle	4	25.9 25.8	25.8	8.1 8.0	8.1	16.6 16.6	16.6	98.7 98.4	98.6	7.3 7.3	7.3		1.9 1.7	1.8		2.0 3.4	2.7	
					Bottom	6	25.6 25.6	25.6	8.0 8.0	8.0	17.0 16.9	17.0	97.4 97.9	97.7	7.2 7.3	7.3		1.7 1.6	1.7		2.3 2.1	2.2	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10A - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	17:30	7	Surface	1	19.8 19.6	19.7	8.2 8.2	8.2	31.1 31.1	31.1	101.2 100.9	101.1	7.7 7.7	7.7	7.7	1.3 1.4	1.4	1.8	5.0 3.8	4.4	3.6
					Middle	4	19.8 19.5	19.7	8.2 8.2	8.2	31.5 31.4	31.5	99.8 100.2	100.0	7.6 7.6	7.6		1.6 1.5	1.6		2.9 3.3	3.1	
					Bottom	6	19.5 19.5	19.5	8.2 8.2	8.2	31.6 31.5	31.6	98.2 98.6	98.4	7.5 7.5	7.5	7.5	2.3 2.2	2.3		2.9 3.7	3.3	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	
7-Apr-12	Fine	Moderate	20:31	7	Surface	1	20.1 20.1	20.1	8.2 8.2	8.2	30.5 30.5	30.5	93.9 96.4	95.2	7.1 7.3	7.2	7.2	3.7 3.9	3.8	6.0	9.3 8.9	9.1	7.7
					Middle	4	20.1 20.1	20.1	8.2 8.2	8.2	30.6 30.6	30.6	93.6 95.5	94.6	7.1 7.3	7.2		6.9 7.4	7.2		7.2 8.1	7.7	
					Bottom	6	20.1 20.1	20.1	8.2 8.2	8.2	30.6 30.7	30.6	94.9 93.1	94.0	7.2 7.1	7.1	7.1	7.3 6.5	6.9		7.2 5.2	6.2	
9-Apr-12	Sunny	Moderate	07:21	7	Surface	1	20.2 20.2	20.2	8.1 8.1	8.1	30.0 30.1	30.1	92.2 92.1	92.2	7.0 7.0	7.0	7.0	3.6 3.7	3.7	3.9	7.5 7.1	7.3	7.3
					Middle	4	20.2 20.2	20.2	8.1 8.1	8.1	30.1 30.2	30.2	92.5 92.0	92.3	7.0 7.0	7.0		3.8 3.4	3.6		7.2 7.4	7.3	
					Bottom	6	20.2 20.2	20.2	8.1 8.1	8.1	30.2 30.1	30.2	95.6 91.9	93.8	7.3 7.0	7.1	7.1	4.6 4.3	4.5		7.4 7.1	7.3	
11-Apr-12	Fine	Moderate	08:13	7	Surface	1	21.5 21.4	21.5	8.1 8.1	8.1	27.8 27.8	27.8	92.6 93.0	92.8	7.0 7.0	7.0	7.0	2.5 2.5	2.5	2.8	4.5 6.2	5.4	6.3
					Middle	4	21.4 21.4	21.4	8.1 8.1	8.1	28.0 28.1	28.0	92.4 91.5	92.0	6.9 6.9	6.9		2.4 2.5	2.5		4.9 6.7	5.8	
					Bottom	6	21.3 21.2	21.2	8.1 8.1	8.1	28.3 28.8	28.5	92.1 91.1	91.6	6.9 6.8	6.9	6.9	3.3 3.5	3.4		8.7 6.6	7.7	
13-Apr-12	Sunny	Moderate	09:59	7	Surface	1	22.2 22.2	22.2	8.0 8.0	8.0	27.8 27.9	27.9	92.1 91.5	91.8	6.8 6.8	6.8	6.8	1.9 1.9	1.9	2.1	5.2 2.7	4.0	5.2
					Middle	4	22.0 22.1	22.1	8.0 8.0	8.0	28.1 28.1	28.1	92.3 91.7	92.0	6.9 6.8	6.8		2.1 2.1	2.1		2.3 3.8	3.1	
					Bottom	6	22.0 22.0	22.0	8.0 8.0	8.0	28.3 28.2	28.2	92.4 91.1	91.8	6.9 6.8	6.8	6.8	2.2 2.2	2.2		7.7 9.4	8.6	
16-Apr-12	Rainy	Moderate	16:40	7	Surface	1	23.1 23.0	23.0	8.0 8.0	8.0	22.6 22.6	22.6	98.3 100.1	99.2	7.2 7.4	7.3	7.1	2.3 2.8	2.6	3.3	3.7 2.5	3.1	1.8
					Middle	4	22.4 22.5	22.5	8.0 8.0	8.0	26.5 26.3	26.4	93.4 95.5	94.5	6.9 7.0	6.9		3.0 3.3	3.2		1.2 1.5	1.4	
					Bottom	6	22.1 22.2	22.2	8.0 8.1	8.1	28.4 29.0	28.7	92.6 93.1	92.9	6.9 6.8	6.9	6.9	3.9 4.0	4.0		1.1 0.7	0.9	
18-Apr-12	Fine	Moderate	18:31	7	Surface	1	22.4 22.4	22.4	8.1 8.1	8.1	29.8 29.8	29.8	90.1 89.6	89.9	6.6 6.5	6.6	6.6	1.6 1.4	1.5	2.2	5.0 3.1	4.1	4.7
					Middle	4	22.3 22.3	22.3	8.1 8.1	8.1	30.5 30.6	30.5	89.8 89.0	89.4	6.5 6.5	6.5		2.3 2.5	2.4		3.3 3.0	3.2	
					Bottom	6	22.3 22.3	22.3	8.1 8.2	8.2	30.6 30.7	30.7	88.8 92.2	90.5	6.5 6.7	6.6	6.6	2.7 2.9	2.8		7.1 6.2	6.7	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	:	- -	-	:
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10A - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	21:27	7	Surface	1	23.2 23.0	23.1	8.2 8.1	8.1	27.3 27.4	27.3	96.9 86.7	91.8	7.1 6.4	6.7	6.7	3.8 3.8	3.8	3.9	6.5 5.5	6.0	6.9
					Middle	4	22.9 23.0	23.0	8.1 8.1	8.1	28.4 27.7	28.1	86.0 96.8	91.4	6.3 7.1	6.7		4.0 3.7	3.9		7.1 8.0	7.6	
					Bottom	6	22.8 22.8	22.8	8.2 8.2	8.2	28.7 28.9	28.8	97.0 85.4	91.2	7.1 6.2	6.6	6.6	3.7 4.1	3.9		7.7 6.2	7.0	
25-Apr-12	Rainy	Moderate	07:30	6	Surface	1	24.2 24.3	24.3	7.9 7.9	7.9	18.4 18.2	18.3	88.0 93.9	91.0	6.6 7.1	6.9	6.8	3.5 3.4	3.5	3.4	3.4 4.4	3.9	4.9
					Middle	3	24.2 24.2	24.2	7.9 7.9	7.9	21.2 21.1	21.2	90.6 87.0	88.8	6.7 6.5	6.6		3.4 3.3	3.4		4.0 5.7	4.9	
					Bottom	5	24.1 24.0	24.0	8.0 8.0	8.0	21.3 21.6	21.5	89.3 87.3	88.3	6.7 6.5	6.6	6.6	3.4 3.4	3.4		4.7 6.9	5.8	
27-Apr-12	Cloudy	Moderate	08:05	7	Surface	1	23.2 23.2	23.2	8.1 8.1	8.1	28.3 28.3	28.3	88.9 89.3	89.1	6.5 6.5	6.5	6.5	0.7 0.8	0.8	0.9	2.1 2.3	2.2	2.4
					Middle	4	23.2 23.2	23.2	8.2 8.1	8.2	29.0 29.0	29.0	89.2 88.2	88.7	6.5 6.4	6.4		0.9 0.8	0.9		3.1 2.4	2.8	
					Bottom	6	23.2 23.2	23.2	8.2 8.1	8.2	29.2 29.1	29.1	90.5 91.2	90.9	6.5 6.6	6.6	6.6	1.0 0.8	0.9		2.1 2.1	2.1	
30-Apr-12	Cloudy	Moderate	11:46	7	Surface	1	25.7 25.7	25.7	8.0 8.0	8.0	14.4 14.4	14.4	96.9 96.9	96.9	7.3 7.3	7.3	7.1	1.7 1.9	1.8	1.2	2.4 2.1	2.3	2.7
					Middle	4	24.6 24.6	24.6	8.0 8.0	8.0	20.4 20.5	20.5	92.5 92.0	92.3	6.9 6.9	6.9		0.8 0.9	0.9		3.0 3.7	3.4	
					Bottom	6	24.3 24.2	24.3	8.0 8.0	8.0	23.6 23.7	23.6	91.3 91.8	91.6	6.7 6.7	6.7	6.7	0.7 0.8	0.8		2.3 2.3	2.3	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10B(N) - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	09:24	5	Surface	1	19.4 19.4	19.4	8.1 8.1	8.1	31.6 31.5	31.6	99.9 99.5	99.7	7.6 7.6	7.6	7.6	1.2 1.3	1.3	1.5	4.2 4.5	4.4	4.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	19.4 19.4	19.4	8.1 8.1	8.1	31.5 31.5	31.5	99.5 99.0	99.3	7.6 7.6	7.6	7.6	1.6 1.5	1.6		4.0 3.5	3.8	
5-Apr-12	Cloudy	Moderate	10:47	5	Surface	1	19.8 19.8	19.8	8.1 8.1	8.1	31.5 31.5	31.5	96.7 97.1	96.9	7.3 7.4	7.3	7.3	2.1 1.9	2.0	2.0	6.2 6.4	6.3	5.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	19.8 19.8	19.8	8.1 8.1	8.1	31.5 31.5	31.5	96.6 96.5	96.6	7.3 7.3	7.3	7.3	2.1 1.8	2.0		3.7 5.4	4.6	
7-Apr-12	Fine	Moderate	12:24	6	Surface	1	20.1 20.0	20.0	8.1 8.1	8.1	30.9 30.9	30.9	97.9 95.1	96.5	7.4 7.2	7.3	7.3	3.4 3.3	3.4	3.4	7.3 7.0	7.2	7.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.0 20.0	20.0	8.1 8.1	8.1	30.9 30.9	30.9	94.4 95.7	95.1	7.2 7.2	7.2	7.2	3.4 3.2	3.3		8.2 7.7	8.0	
9-Apr-12	Sunny	Moderate	15:22	6	Surface	1	20.6 20.6	20.6	8.1 8.1	8.1	29.8 29.7	29.7	93.3 93.7	93.5	7.0 7.1	7.1	7.1	5.0 5.2	5.1	5.7	9.7 7.9	8.8	9.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.6 20.6	20.6	8.1 8.1	8.1	29.8 29.8	29.8	93.5 92.8	93.2	7.1 7.0	7.0	7.0	6.1 6.4	6.3		10.2 10.2	10.2	
11-Apr-12	Sunny	Moderate	17:44	5	Surface	1	22.3 22.2	22.2	8.1 8.1	8.1	27.4 27.5	27.4	95.9 96.0	96.0	7.1 7.1	7.1	7.1	4.7 5.0	4.9	4.8	7.5 7.7	7.6	7.8
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	22.2 22.2	22.2	8.1 8.1	8.1	27.5 27.4	27.5	96.4 95.6	96.0	7.2 7.1	7.1	7.1	4.7 4.7	4.7		7.8 8.2	8.0	
13-Apr-12	Sunny	Moderate	19:21	5	Surface	1	23.3 23.2	23.2	8.1 8.1	8.1	25.4 25.7	25.5	100.5 100.4	100.5	7.4 7.4	7.4	7.4	3.1 3.2	3.2	3.9	6.8 5.2	6.0	5.1
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	23.2 23.3	23.3	8.1 8.1	8.1	25.6 25.3	25.4	100.3 100.1	100.2	7.4 7.4	7.4	7.4	4.6 4.5	4.6		4.3 3.8	4.1	
16-Apr-12	Fine	Moderate	09:48	6	Surface	1	23.1 23.1	23.1	8.1 8.1	8.1	27.8 27.9	27.9	94.8 94.7	94.8	6.9 6.9	6.9	6.9	1.3 1.2	1.3	1.5	1.5 1.2	1.4	2.3
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	22.6 22.5	22.6	8.1 8.1	8.1	29.2 29.7	29.4	92.9 92.3	92.6	6.8 6.7	6.8	6.8	1.6 1.5	1.6		4.0 2.1	3.1	
18-Apr-12	Fine	Moderate	10:56	5	Surface	1	22.3 22.3	22.3	8.1 8.1	8.1	30.6 30.6	30.6	90.2 90.6	90.4	6.6 6.6	6.6	6.6	1.7 1.5	1.6	1.9	5.5 5.2	5.4	4.9
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	22.3 22.2	22.3	8.1 8.1	8.1	30.5 30.9	30.7	90.9 89.7	90.3	6.6 6.5	6.6	6.6	2.1 2.3	2.2		5.1 3.7	4.4	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	=	- -	-	=
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10B(N) - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	12:59	6	Surface	1	22.9 22.8	22.9	8.1 8.1	8.1	28.8 28.8	28.8	92.0 88.0	90.0	6.7 6.4	6.6	6.6	3.8 3.6	3.7	3.7	9.4 8.0	8.7	8.2
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	5	22.8 22.8	22.8	8.1 8.1	8.1	28.8 28.9	28.8	88.5 87.4	88.0	6.5 6.4	6.4		3.8 3.6	3.7		7.0 8.2	7.6	
25-Apr-12	Fine	Moderate	15:47	5	Surface	1	24.1 24.3	24.2	8.1 8.1	8.1	21.6 21.4	21.5	92.3 93.5	92.9	6.9 6.9	6.9	6.9	4.4 4.3	4.4	4.4	5.3 5.9	5.6	6.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	24.1 24.1	24.1	8.1 8.1	8.1	22.7 22.6	22.7	92.0 92.5	92.3	6.8 6.8	6.8		4.4 4.3	4.4		7.5 6.7	7.1	
27-Apr-12	Rainy	Moderate	18:00	4	Surface	1	23.4 23.3	23.4	8.2 8.2	8.2	28.3 28.3	28.3	92.8 92.8	92.8	6.7 6.7	6.7	6.7	3.3 3.3	3.3	3.5	5.2 5.8	5.5	5.7
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	3	23.4 23.3	23.4	8.2 8.2	8.2	28.2 28.2	28.2	92.6 93.2	92.9	6.7 6.8	6.7		3.6 3.7	3.7		6.6 5.2	5.9	
30-Apr-12	Cloudy	Moderate	21:20	5	Surface	1	25.7 25.7	25.7	8.1 8.1	8.1	17.0 17.1	17.1	98.0 98.5	98.3	7.3 7.3	7.3	7.3	2.1 2.1	2.1	2.3	2.4 2.6	2.5	2.4
					Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
					Bottom	4	25.5 25.5	25.5	8.1 8.1	8.1	18.0 18.1	18.0	97.7 97.6	97.7	7.2 7.2	7.2		2.5 2.4	2.5		2.1 2.2	2.2	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10B(N) - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
3-Apr-12	Fine	Moderate	17:43	6	Surface	1	19.5 19.5	19.5	8.2 8.2	8.2	31.7 31.7	31.7	98.5 98.5	98.5	7.5 7.5	7.5	7.5	1.2 1.4	1.3	1.5	5.4 5.0	5.2	5.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	19.4 19.5	19.5	8.2 8.2	8.2	31.7 31.7	31.7	98.1 98.3	98.2	7.5 7.5	7.5	7.5	1.6 1.6	1.6		6.4 4.8	5.6	
5-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
7-Apr-12	Fine	Moderate	20:40	6	Surface	1	20.0 20.0	20.0	8.2 8.2	8.2	30.9 30.9	30.9	95.3 100.8	98.1	7.2 7.6	7.4	7.4	7.7 8.3	8.0	8.0	12.2 13.2	12.7	13.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.0 20.0	20.0	8.2 8.2	8.2	30.9 30.9	30.9	94.0 97.2	95.6	7.1 7.4	7.3	7.3	7.8 8.0	7.9		14.4 12.9	13.7	
9-Apr-12	Sunny	Moderate	07:12	6	Surface	1	20.1 20.1	20.1	8.1 8.1	8.1	30.7 30.7	30.7	91.3 91.7	91.5	6.9 7.0	6.9	6.9	5.4 5.2	5.3	5.6	10.6 9.4	10.0	10.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.1 20.1	20.1	8.1 8.1	8.1	30.7 30.7	30.7	92.1 91.1	91.6	7.0 6.9	6.9	6.9	5.8 5.8	5.8		10.1 10.7	10.4	
11-Apr-12	Fine	Moderate	08:04	6	Surface	1	20.7 20.8	20.8	8.1 8.1	8.1	30.3 30.3	30.3	90.4 90.2	90.3	6.8 6.8	6.8	6.8	3.4 3.4	3.4	3.6	7.4 6.5	7.0	7.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	20.6 20.6	20.6	8.1 8.1	8.1	30.6 30.5	30.6	89.7 90.7	90.2	6.7 6.8	6.8	6.8	3.6 3.8	3.7		8.0 8.0	8.0	
13-Apr-12	Sunny	Moderate	09:55	5	Surface	1	21.9 22.0	22.0	8.0 8.0	8.0	28.5 28.5	28.5	92.3 92.5	92.4	6.9 6.9	6.9	6.9	2.3 2.2	2.3	2.3	4.2 5.6	4.9	4.5
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	4	21.7 21.7	21.7	8.0 8.1	8.0	29.1 29.3	29.2	92.1 91.7	91.9	6.8 6.8	6.8	6.8	2.3 2.3	2.3		3.2 5.0	4.1	
16-Apr-12	Rainy	Moderate	16:52	6	Surface	1	23.2 23.2	23.2	8.0 8.0	8.0	29.0 27.9	28.5	99.1 98.2	98.7	7.3 7.2	7.2	7.2	1.8 1.7	1.8	2.2	1.4 1.6	1.5	1.7
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	22.4 22.5	22.5	8.0 8.0	8.0	27.3 27.4	27.3	95.7 96.1	95.9	7.0 7.0	7.0	7.0	2.4 2.6	2.5		1.7 2.0	1.9	
18-Apr-12	Fine	Moderate	18:38	6	Surface	1	22.3 22.3	22.3	8.1 8.1	8.1	30.9 30.9	30.9	90.3 90.4	90.4	6.6 6.6	6.6	6.6	2.8 3.0	2.9	3.0	8.4 6.7	7.6	7.0
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	22.3 22.3	22.3	8.1 8.1	8.1	30.9 30.9	30.9	91.7 92.6	92.2	6.7 6.7	6.7	6.7	3.1 3.0	3.1		7.1 5.7	6.4	
20-Apr-12***	-	-	-	-	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	-	- -	-	-	- -	-	-
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

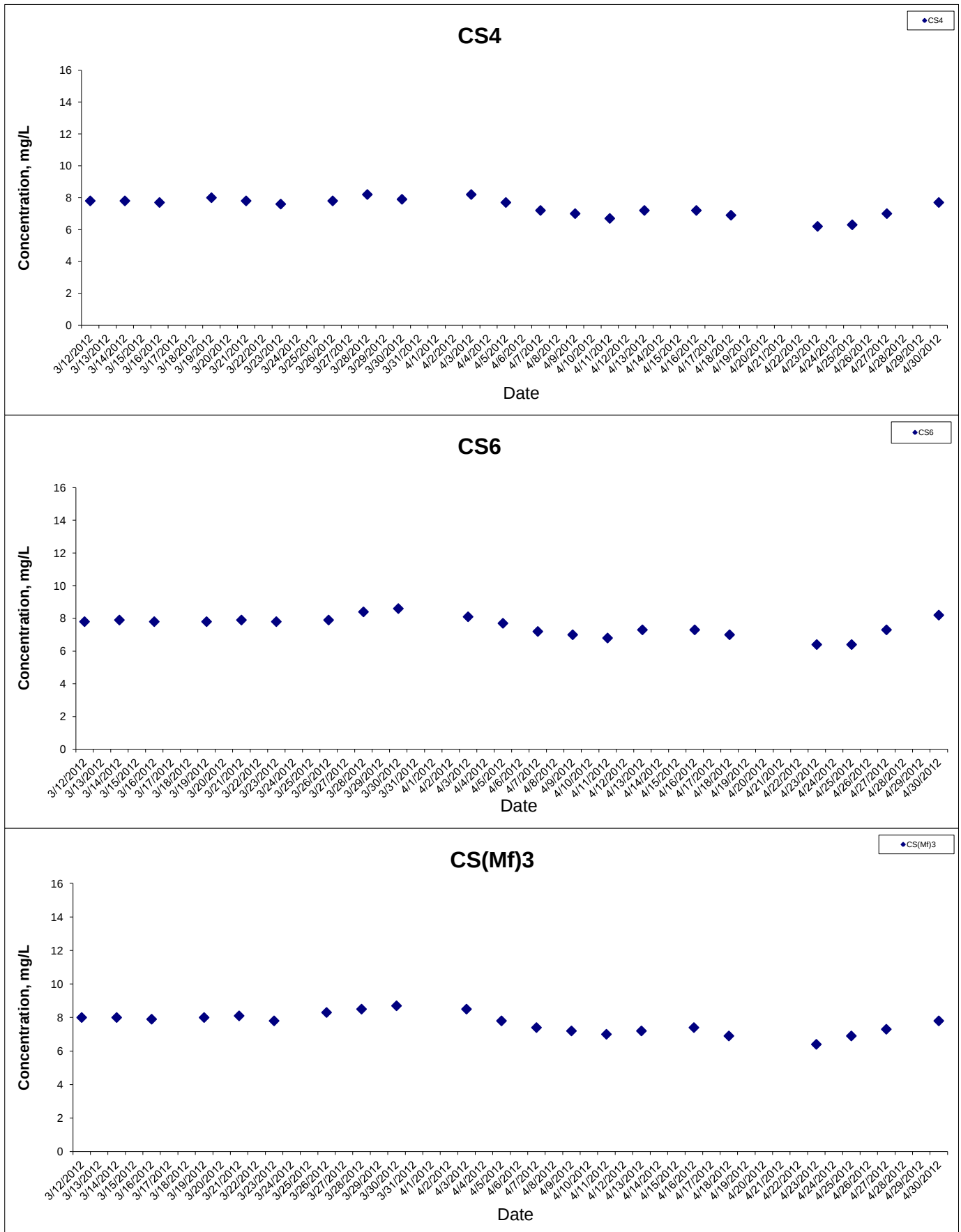
Appendix J - Marine Water Quality Monitoring Results

Impact Water Quality Monitoring Results at SR10B(N) - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Sampling Depth (m)		Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Apr-12	Cloudy	Moderate	21:38	6	Surface	1	22.7 22.8	22.7	8.1 8.1	8.1	30.0 29.8	29.9	86.8 95.2	91.0	6.3 6.9	6.6	6.6	11.6 11.5	11.6	11.3	14.5 15.3	14.9	14.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	22.7 22.7	22.7	8.2 8.1	8.2	30.0 30.0	30.0	88.8 85.9	87.4	6.4 6.2	6.3		11.0 10.8	10.9		13.6 13.4	13.5	
25-Apr-12	Rainy	Moderate	07:21	6	Surface	1	23.6 23.9	23.8	8.0 8.0	8.0	22.0 21.5	21.8	87.6 91.0	89.3	6.5 6.8	6.7	6.7	2.8 2.8	2.8	2.7	5.0 3.5	4.3	4.2
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	23.4 23.3	23.3	8.0 8.1	8.1	29.0 28.3	28.6	87.4 85.9	86.7	6.3 6.2	6.3		2.7 2.5	2.6		4.5 3.5	4.0	
27-Apr-12	Cloudy	Moderate	07:54	6	Surface	1	23.1 23.1	23.1	8.1 8.2	8.2	29.3 29.2	29.2	90.9 89.9	90.4	6.6 6.5	6.5	6.5	2.9 2.8	2.9	3.3	3.0 3.8	3.4	3.6
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	23.0 23.0	23.0	8.2 8.2	8.2	29.7 29.7	29.7	92.3 92.9	92.6	6.7 6.7	6.7		3.8 3.6	3.7		3.9 3.6	3.8	
30-Apr-12	Cloudy	Moderate	11:38	6	Surface	1	25.3 25.4	25.4	8.1 8.0	8.1	17.6 17.5	17.5	97.6 97.9	97.8	7.3 7.3	7.3	7.3	1.3 1.2	1.3	1.0	3.2 3.1	3.2	3.4
					Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	
					Bottom	5	24.3 24.2	24.3	8.0 8.1	8.1	23.9 23.8	23.9	92.2 91.1	91.7	6.7 6.7	6.7		0.7 0.6	0.7		3.8 3.2	3.5	

Remarks:
* DA: Depth-Averaged
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

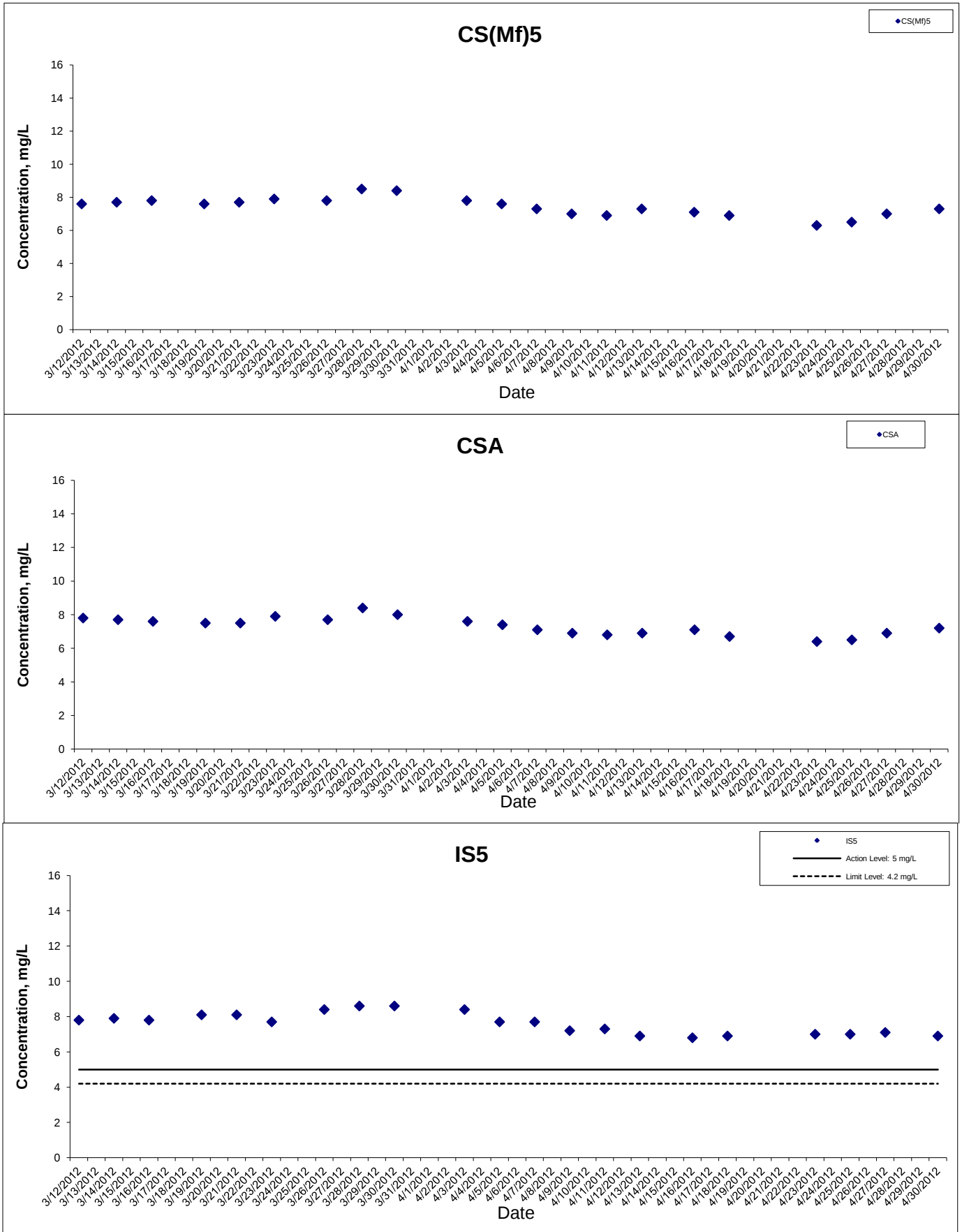
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

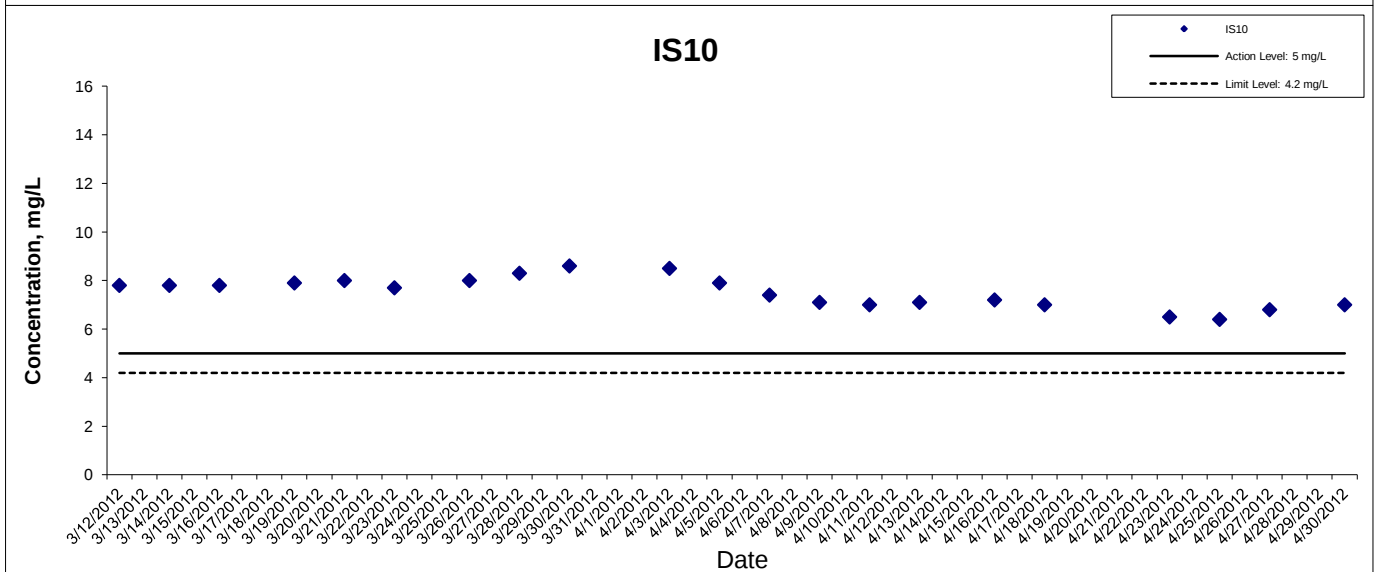
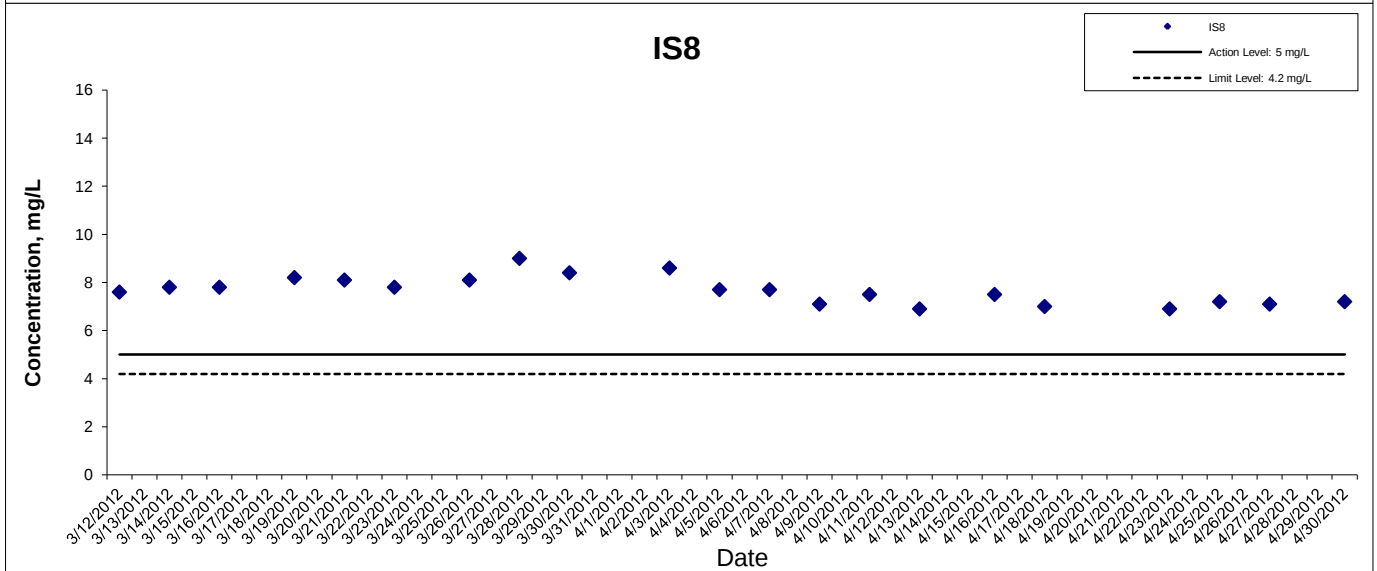
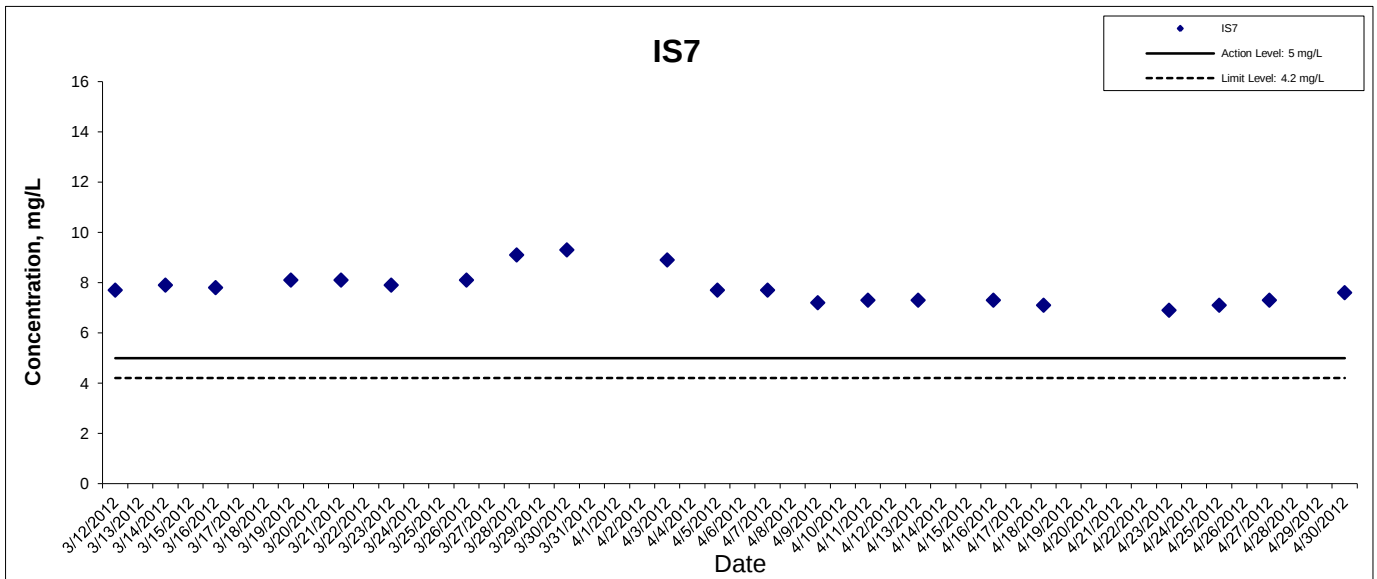


Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

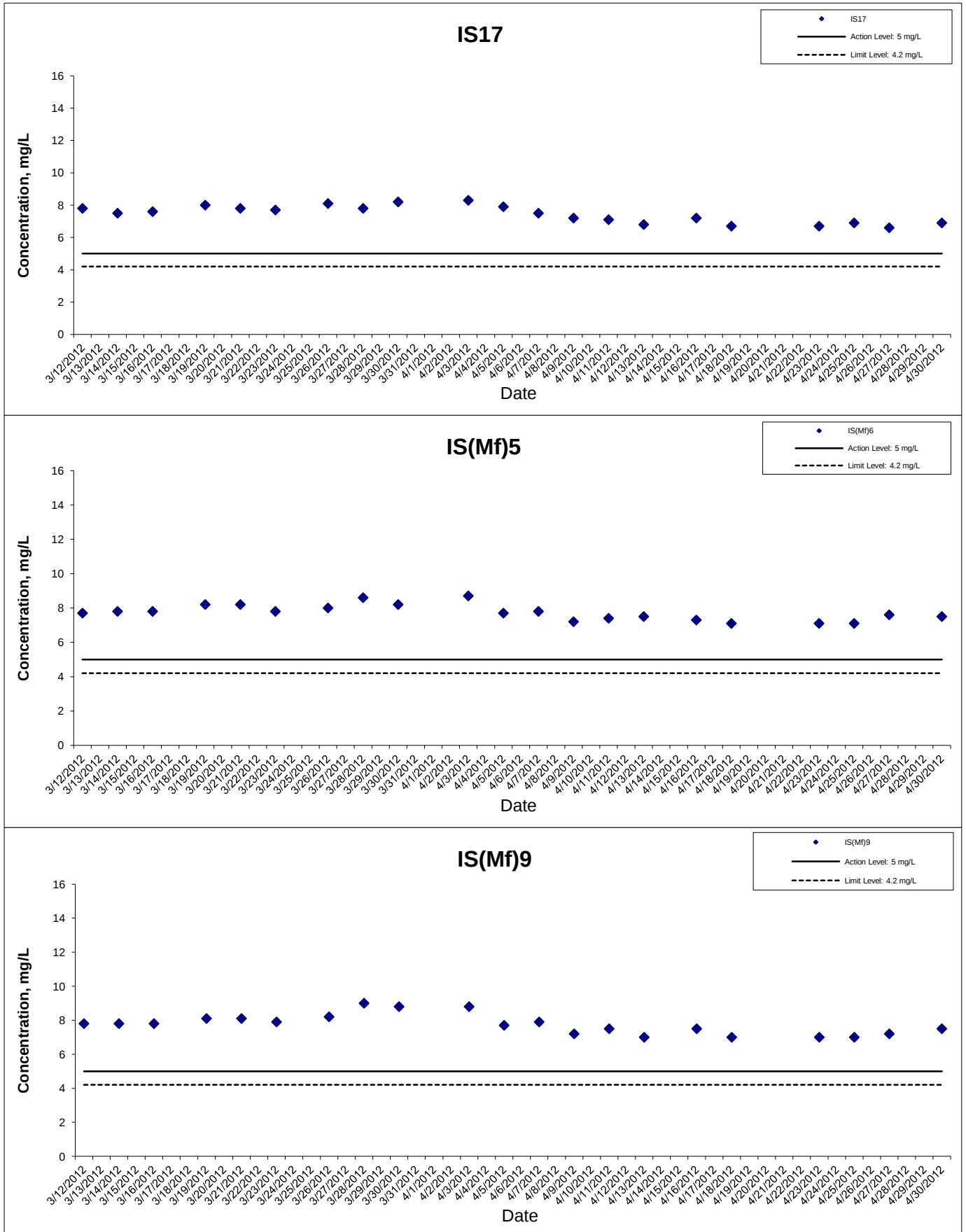
AECOM

Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



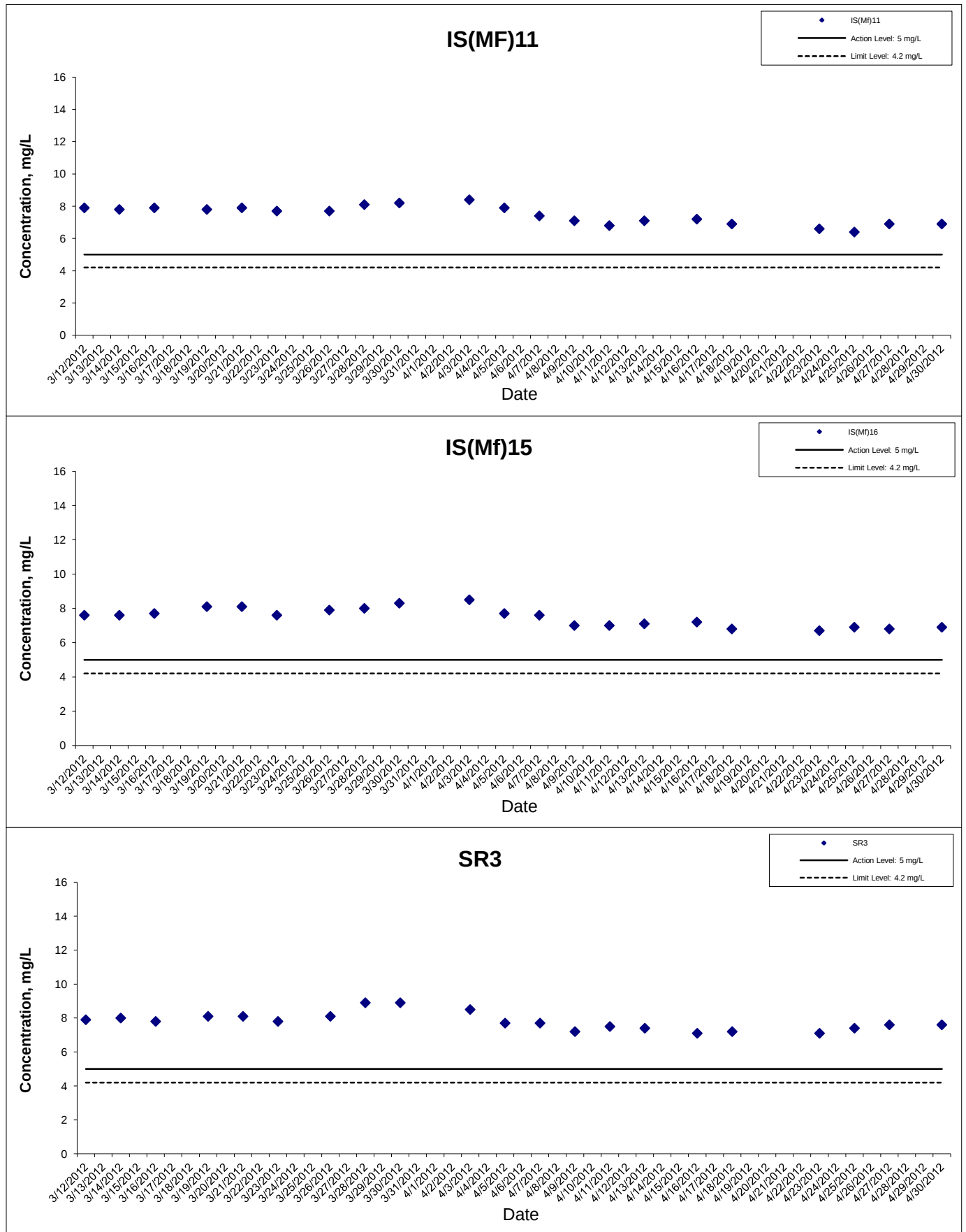
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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

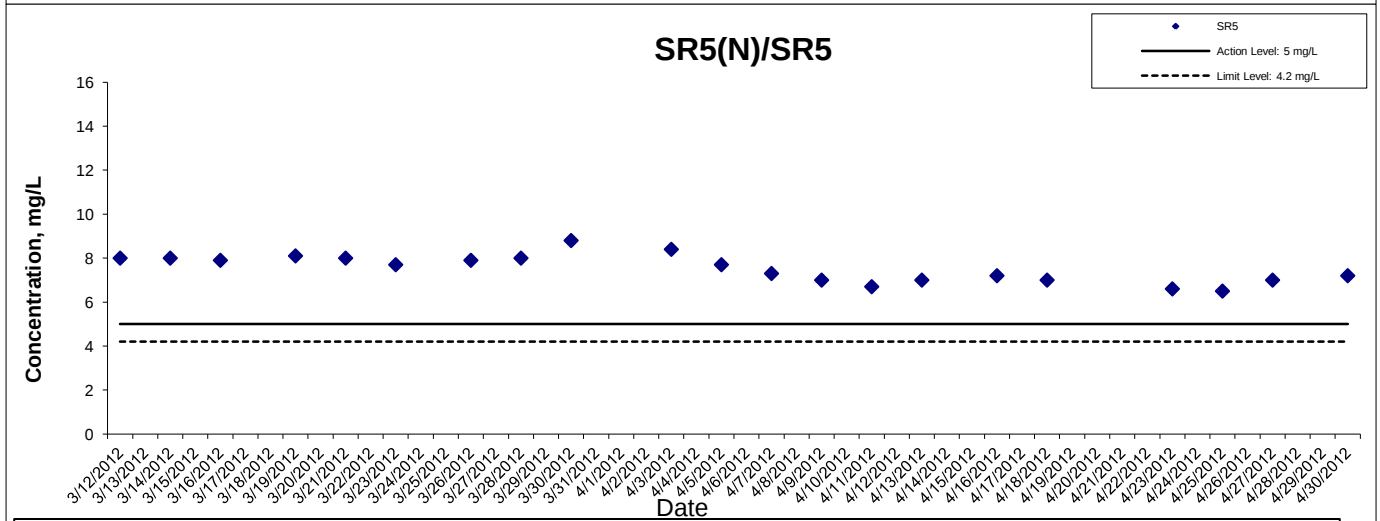
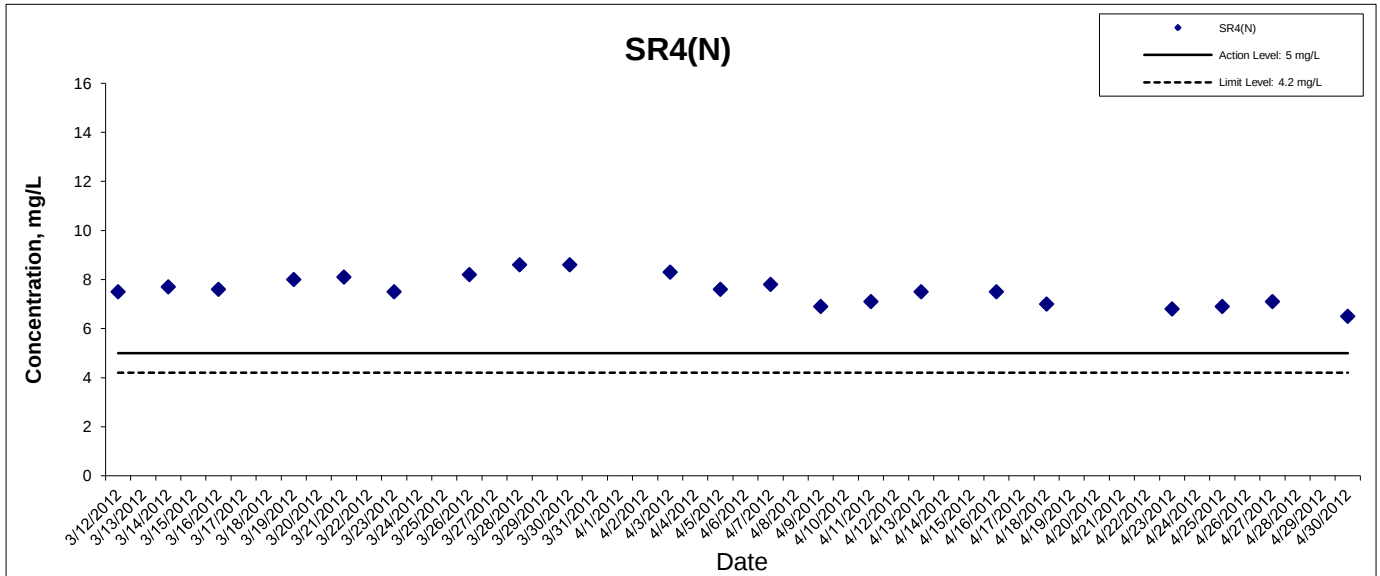
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Project No.: 60249820

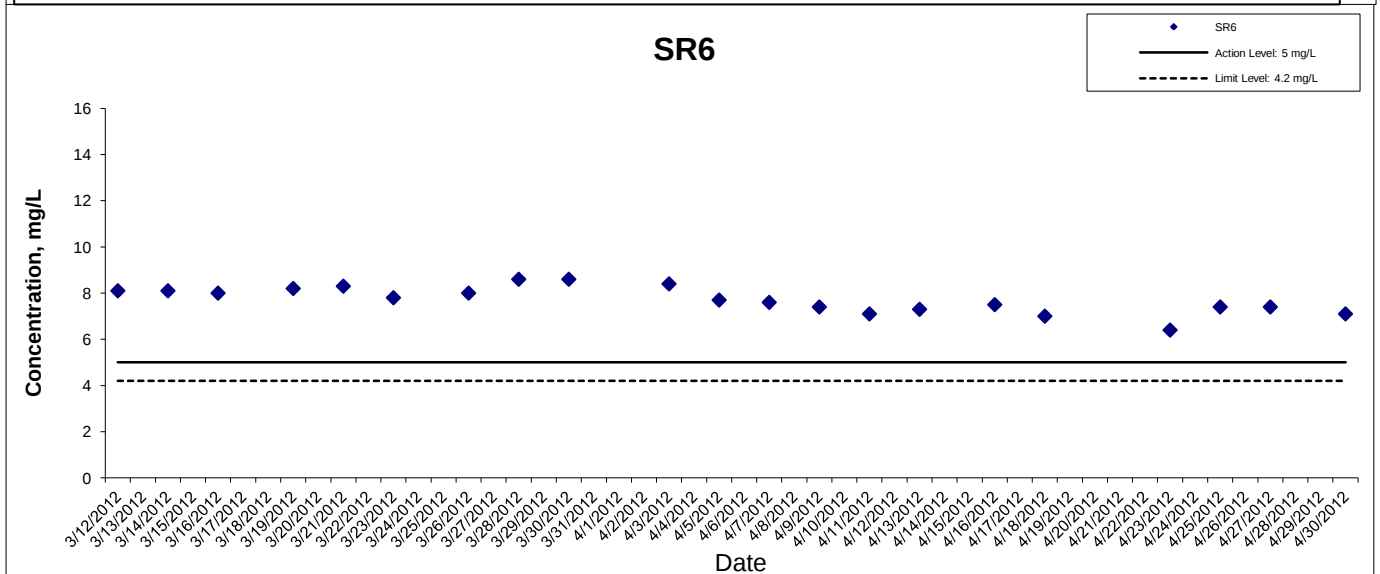
Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Due to safety concern and presence of Airport Approach Restricted Areas, alternative impact water quality monitoring station SR5(N) was adopted, which is in vicinity of SR5 and could be reachable, for the period from 12 to 28 March 2012.



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

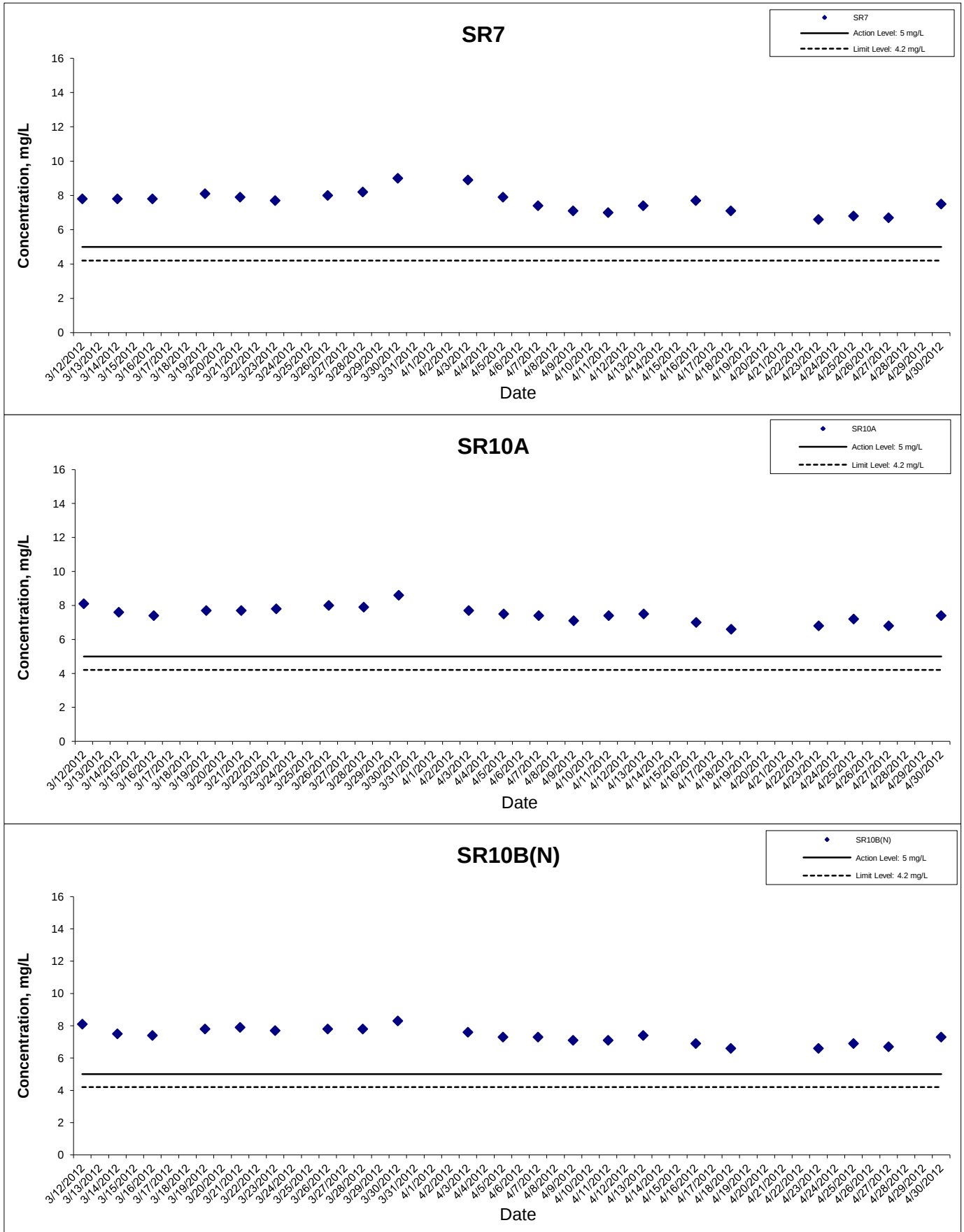
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

**Graphical Presentation of Impact Water Quality
Monitoring Results**

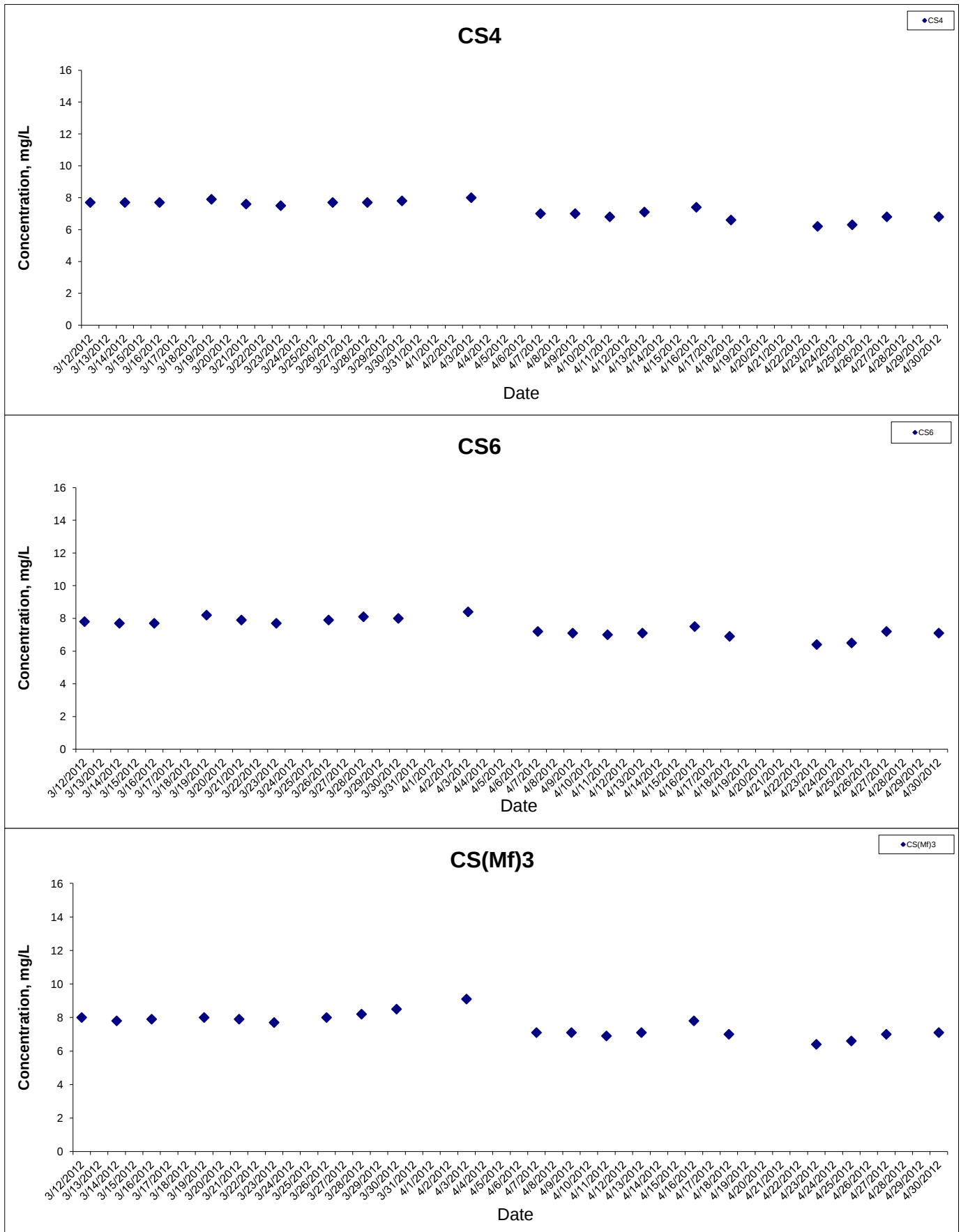


Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

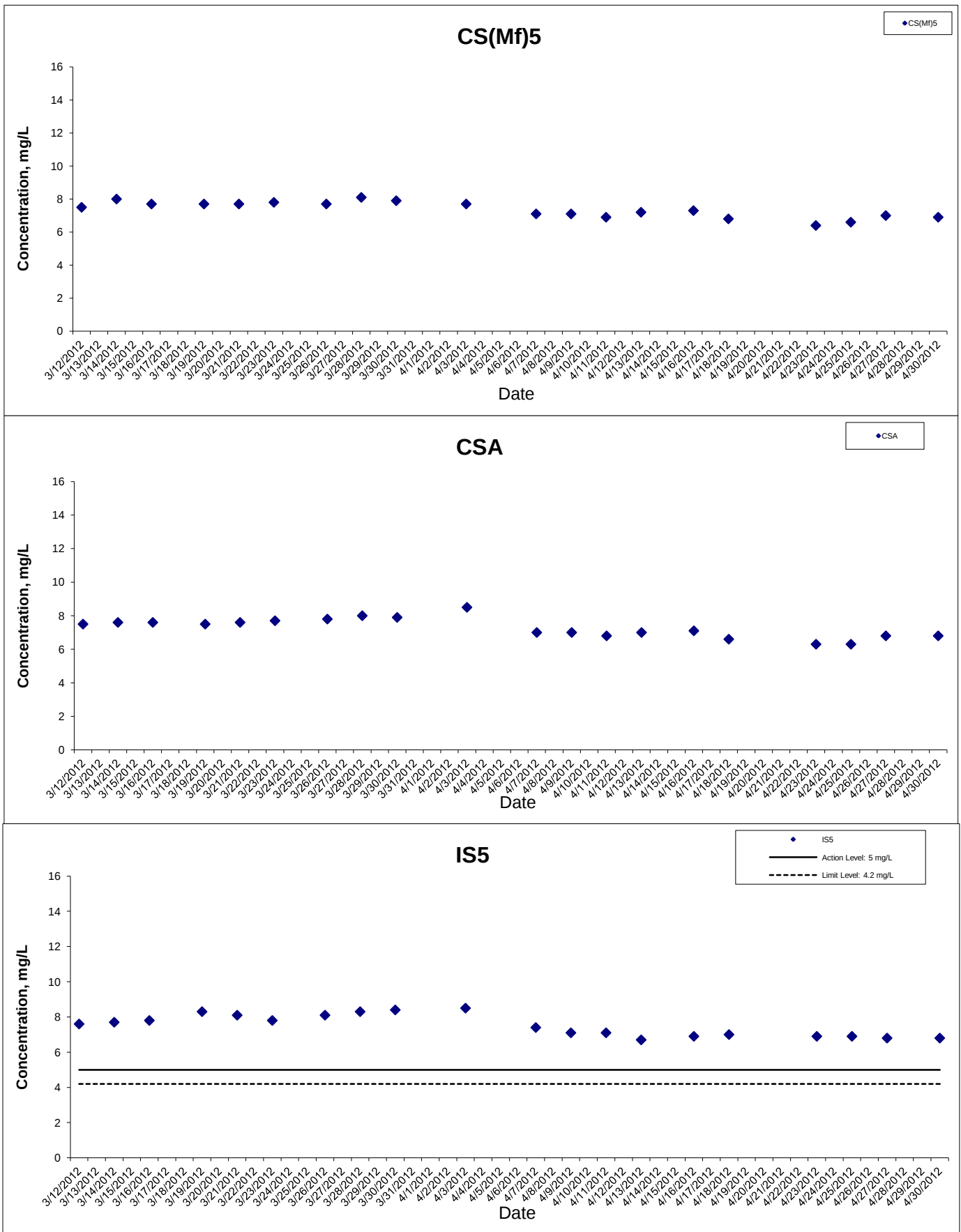
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

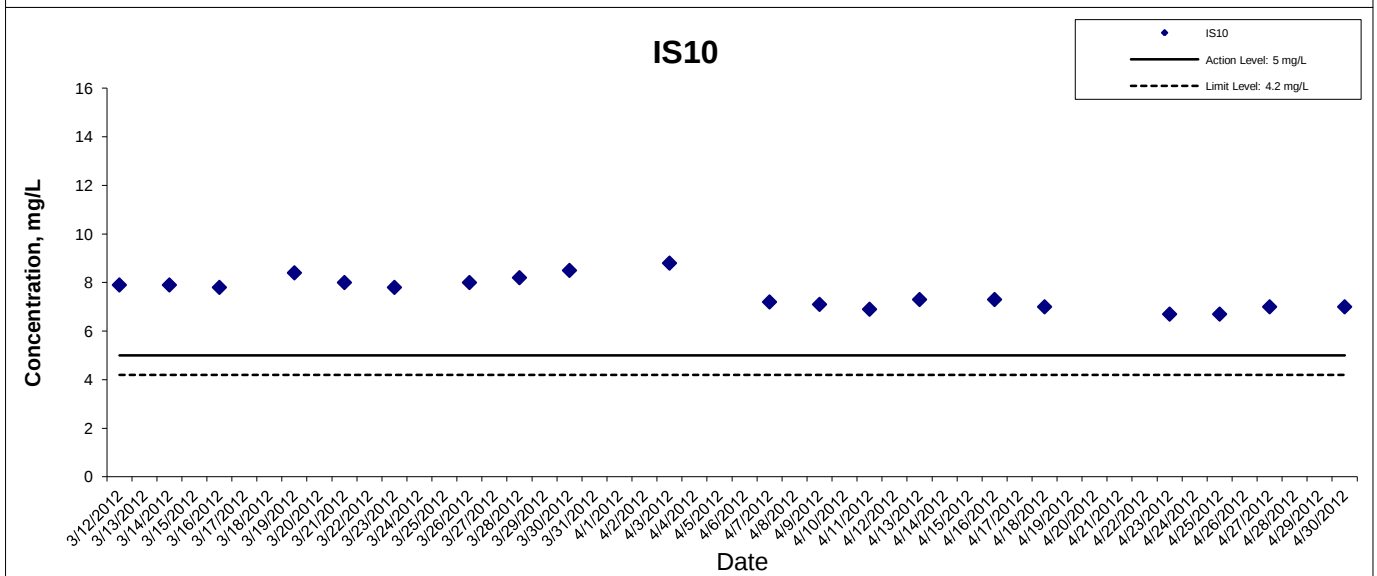
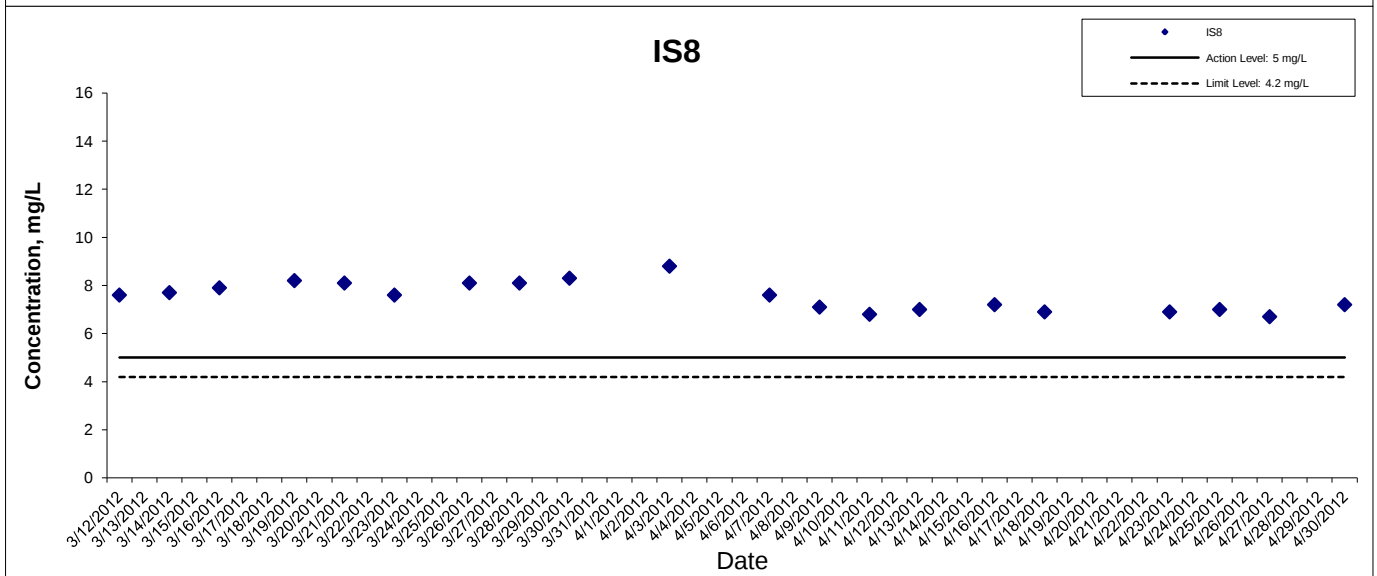
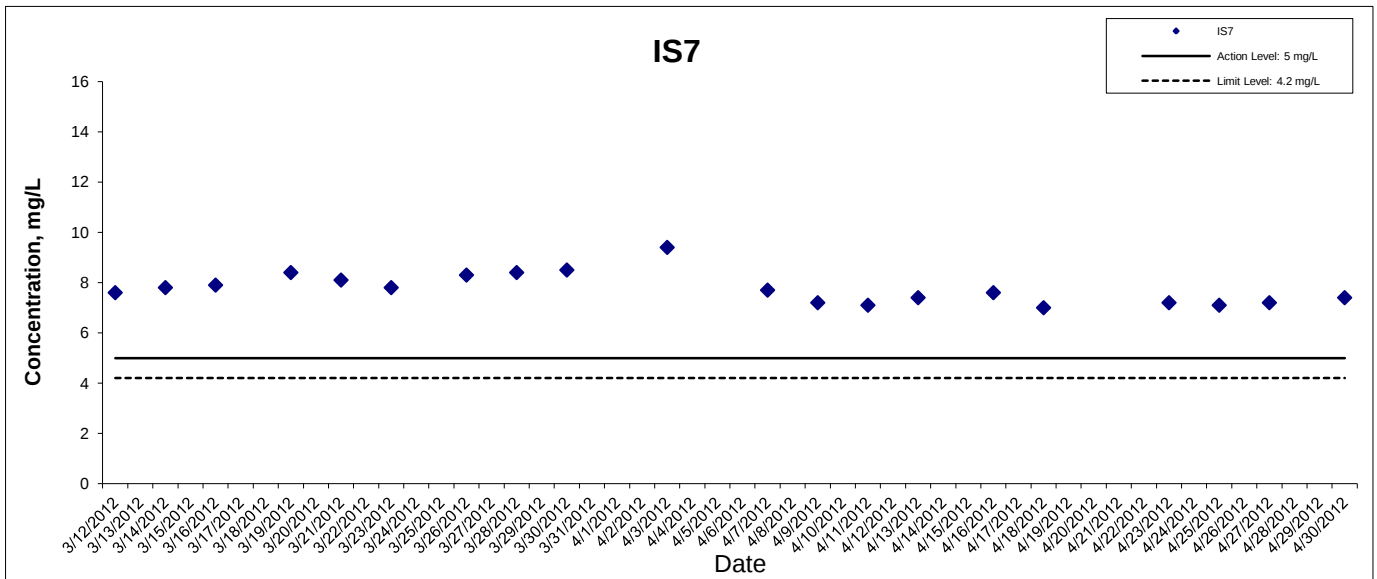
AECOM

Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

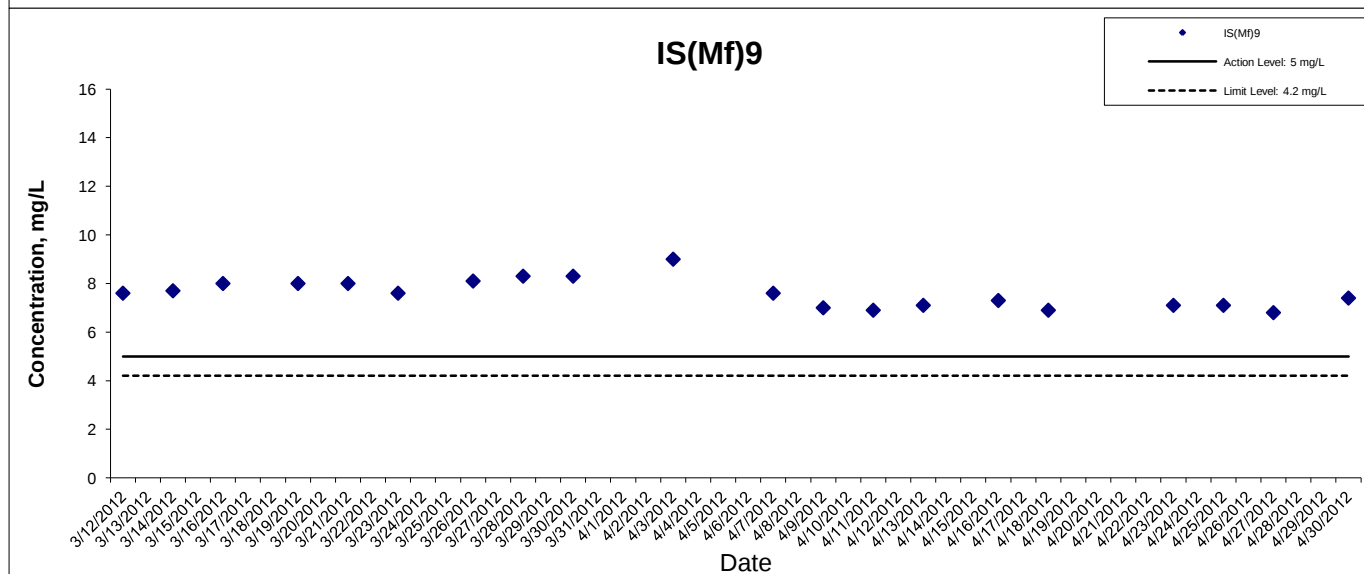
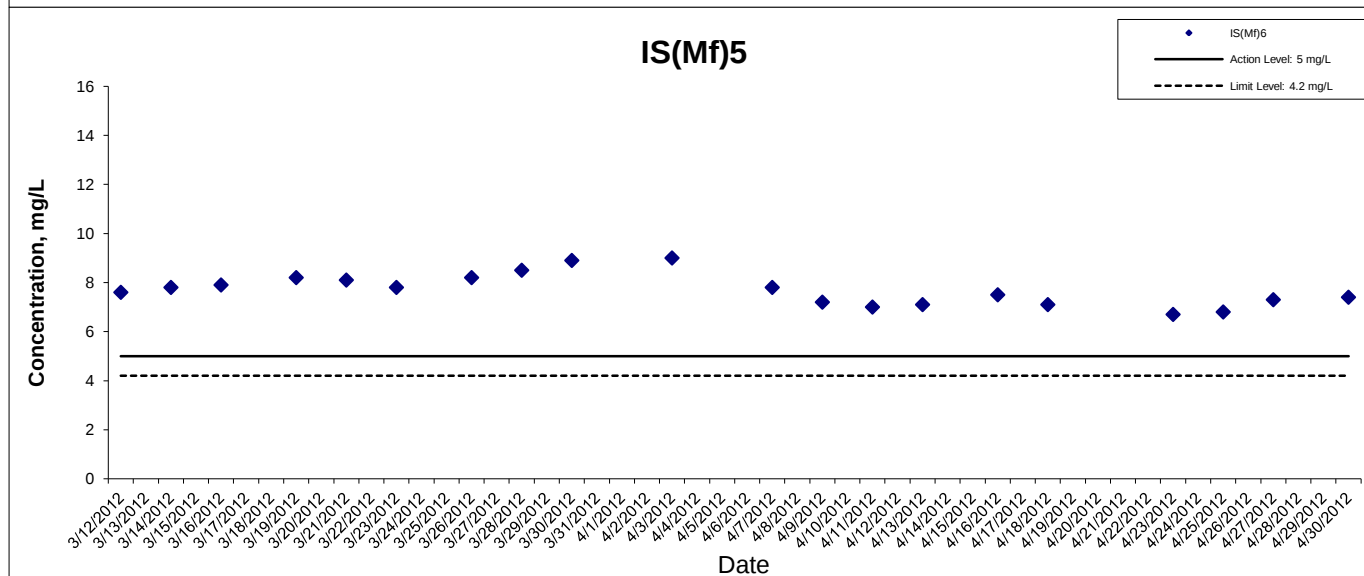
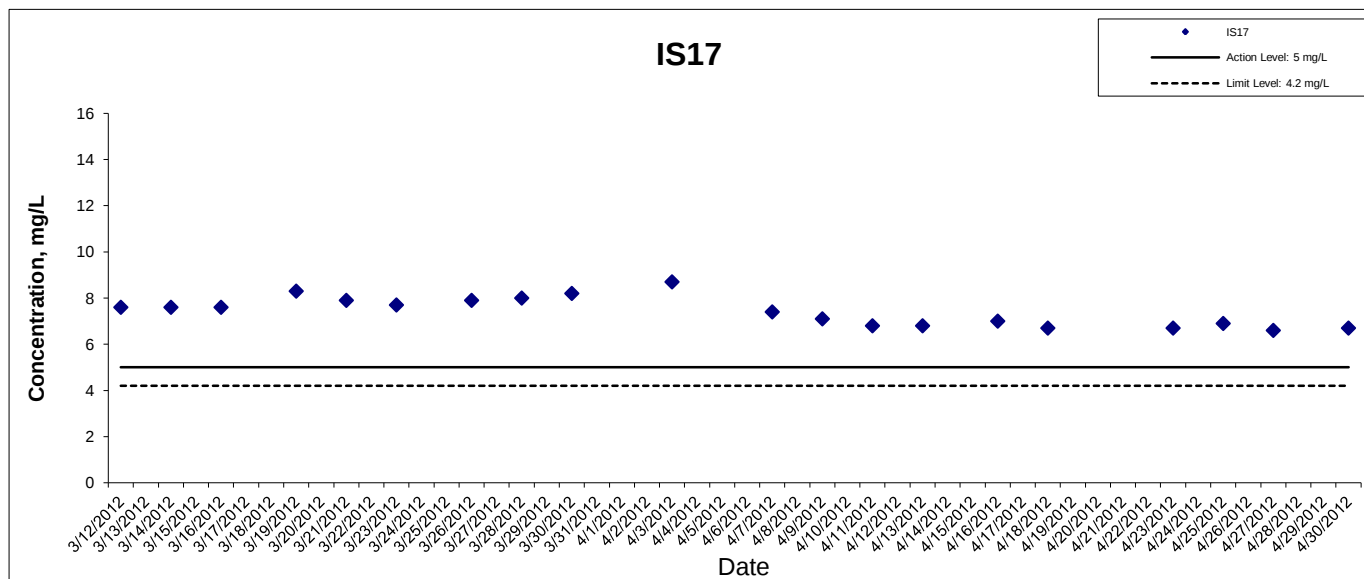
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

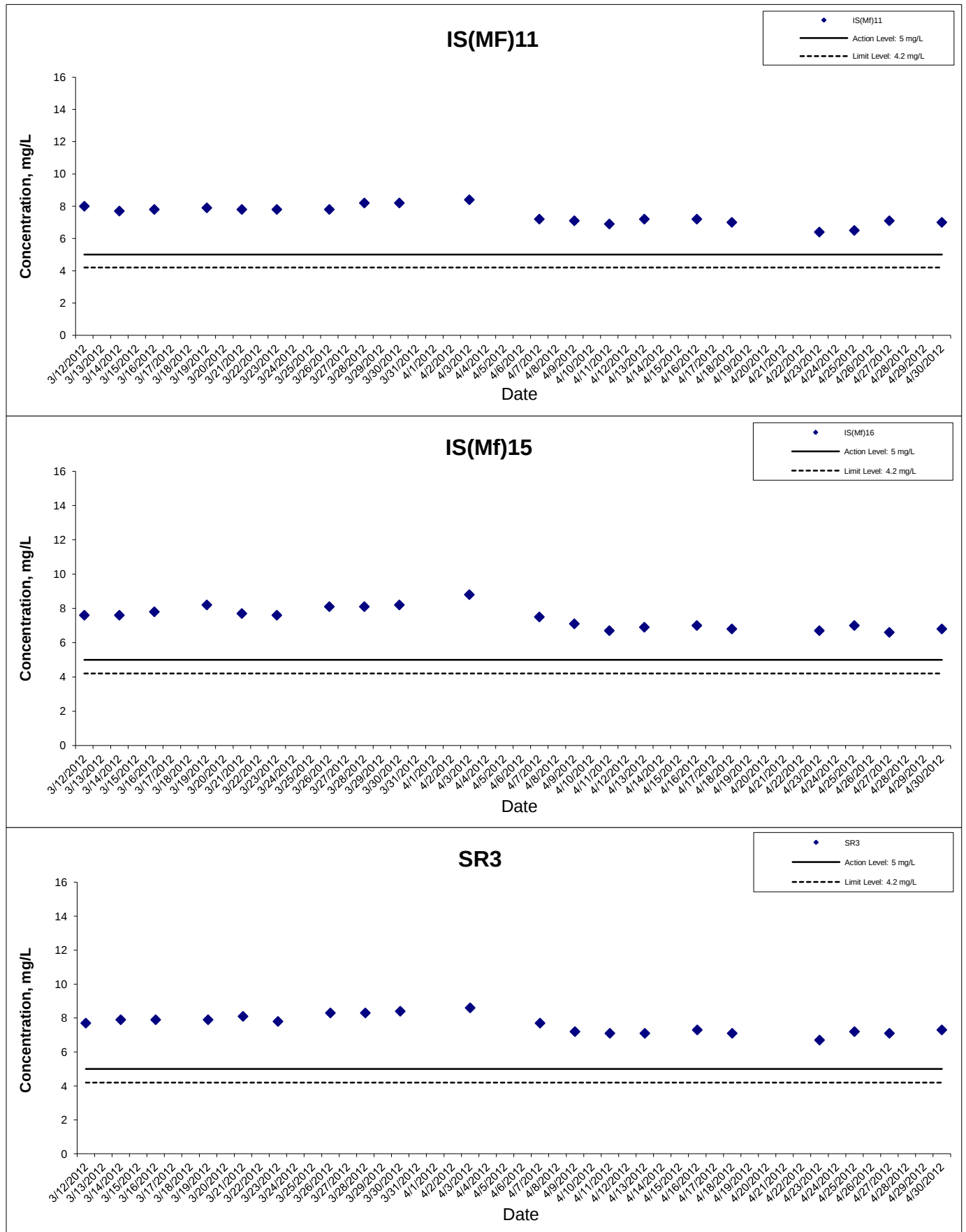
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



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HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

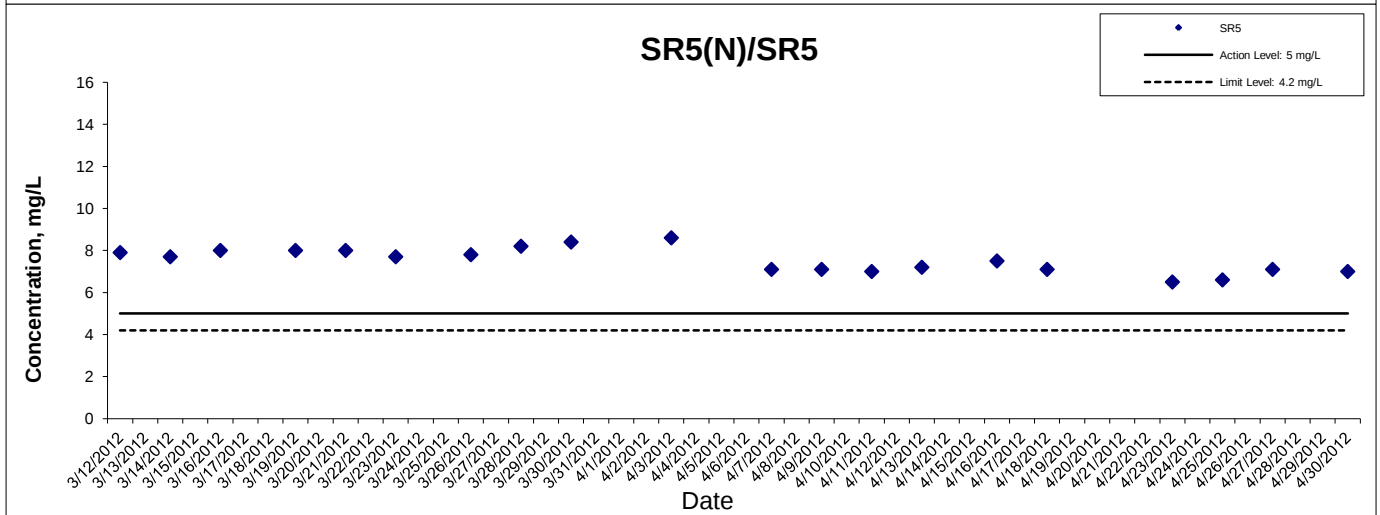
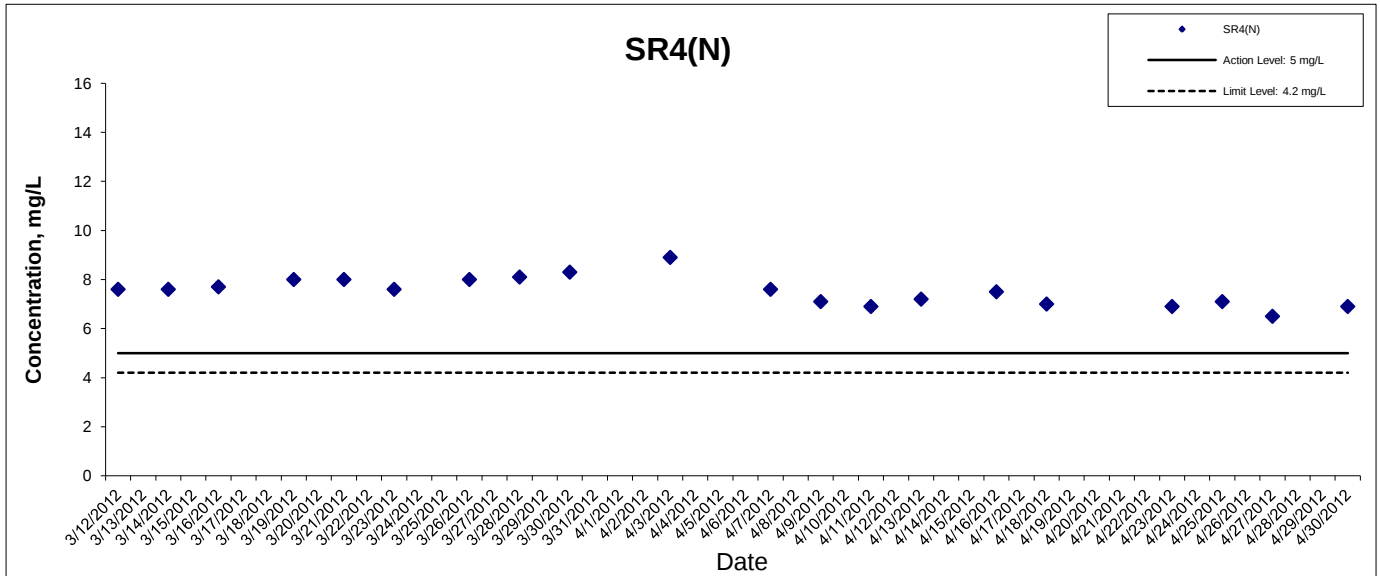
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Project No.: 60249820

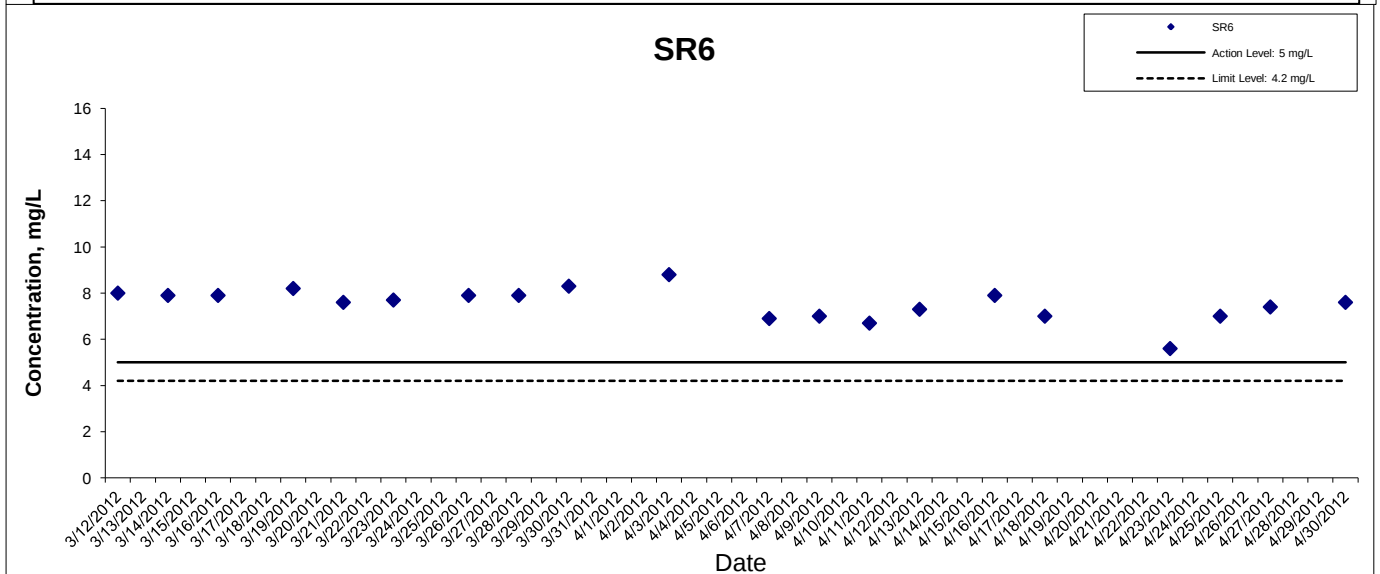
Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



Due to safety concern and presence of Airport Approach Restricted Areas, alternative impact water quality monitoring station SR5(N) was adopted, which is in vicinity of SR5 and could be reachable, for the period from 12 to 28 March 2012.



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

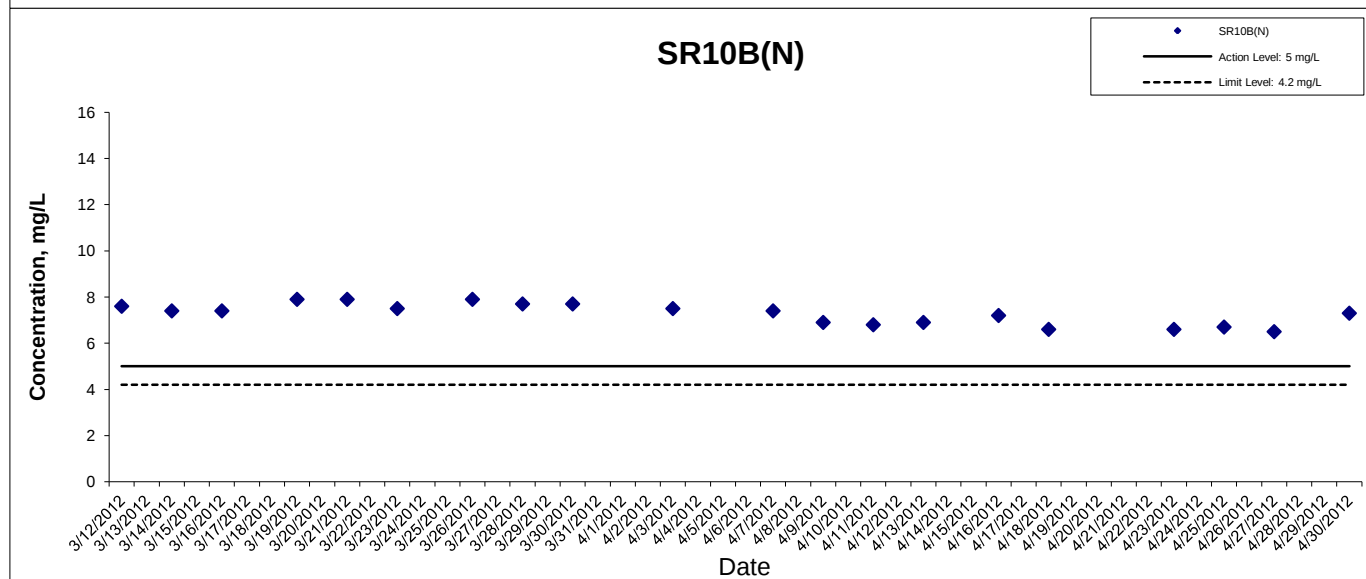
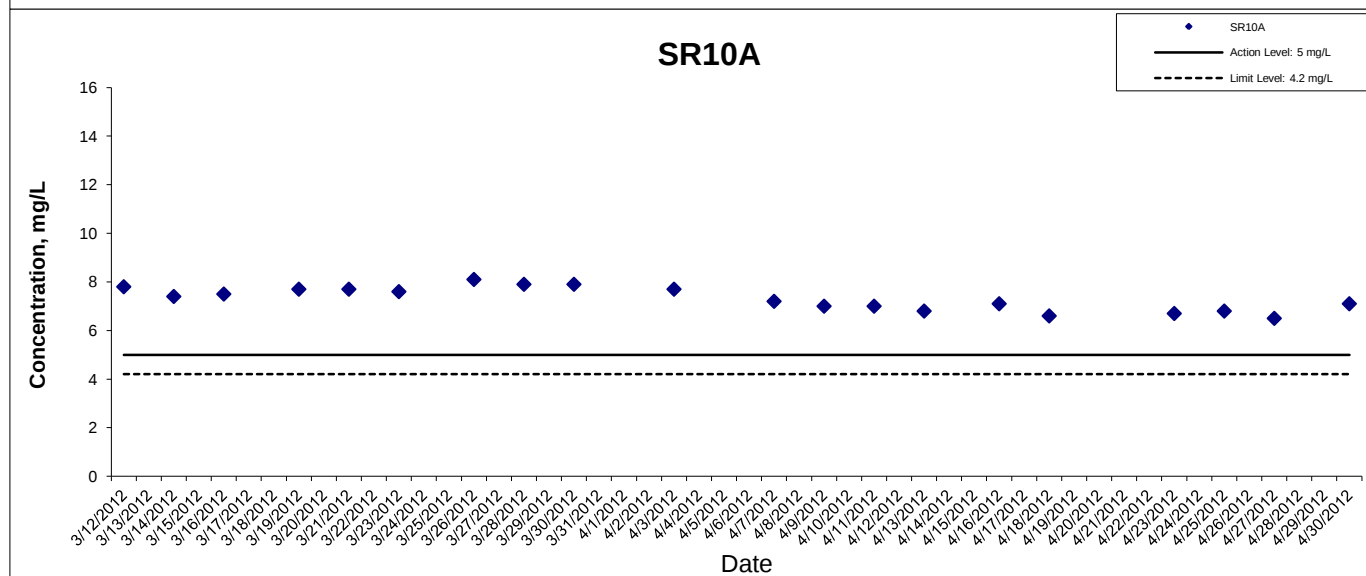
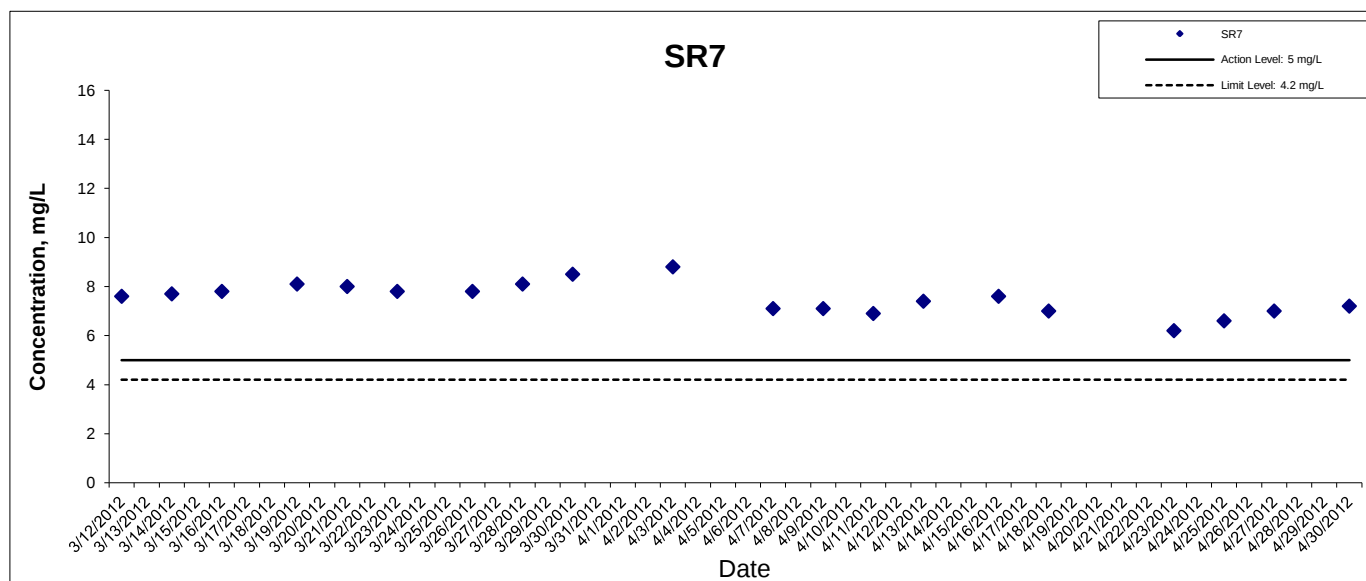
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

**Graphical Presentation of Impact Water Quality
Monitoring Results**

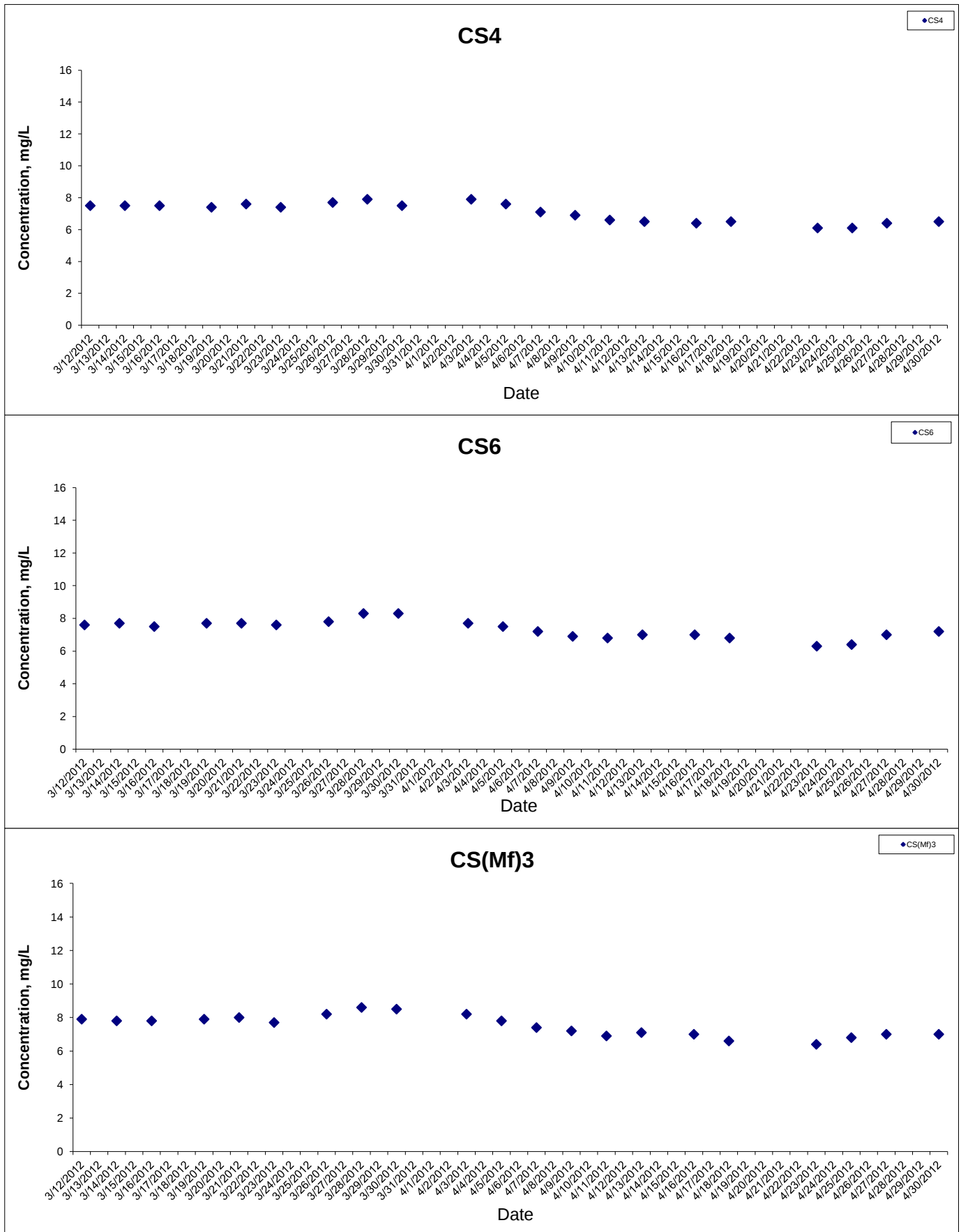
AECOM

Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

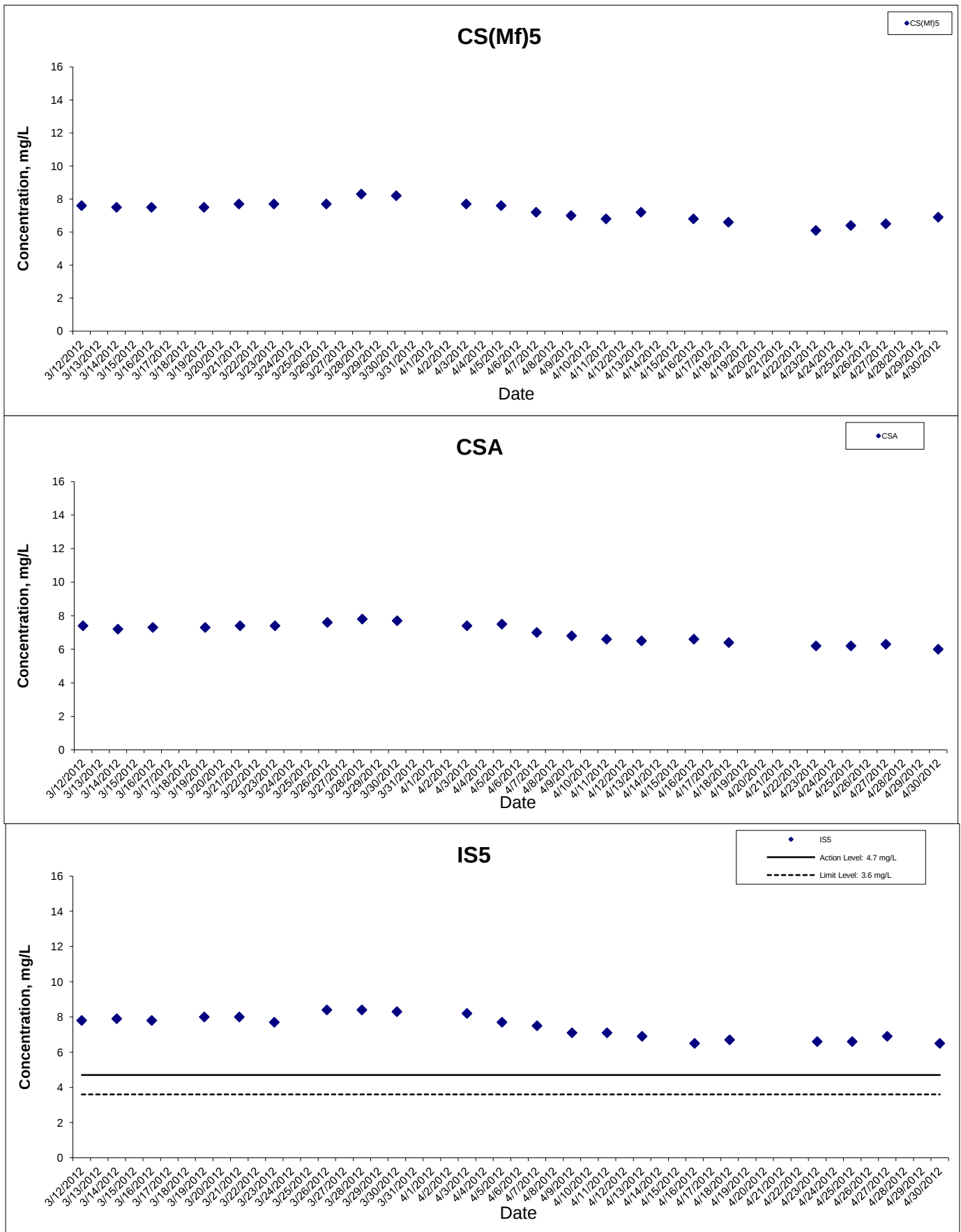
AECOM

Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
 HONG KONG BOUNDARY CORSSING FACILITIES
 - RECLAMATION WORKS

**Graphical Presentation of Impact Water Quality
 Monitoring Results**

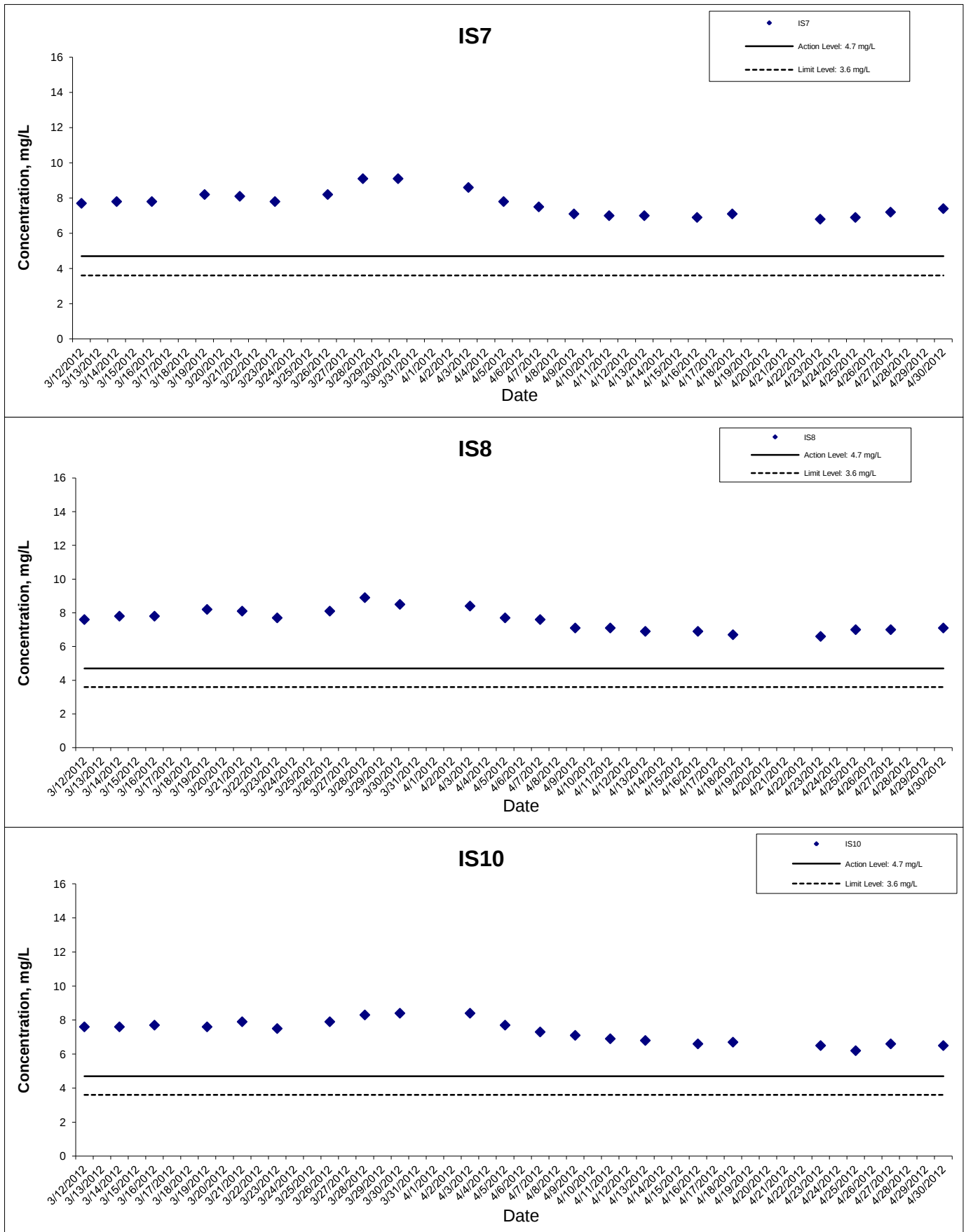


Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

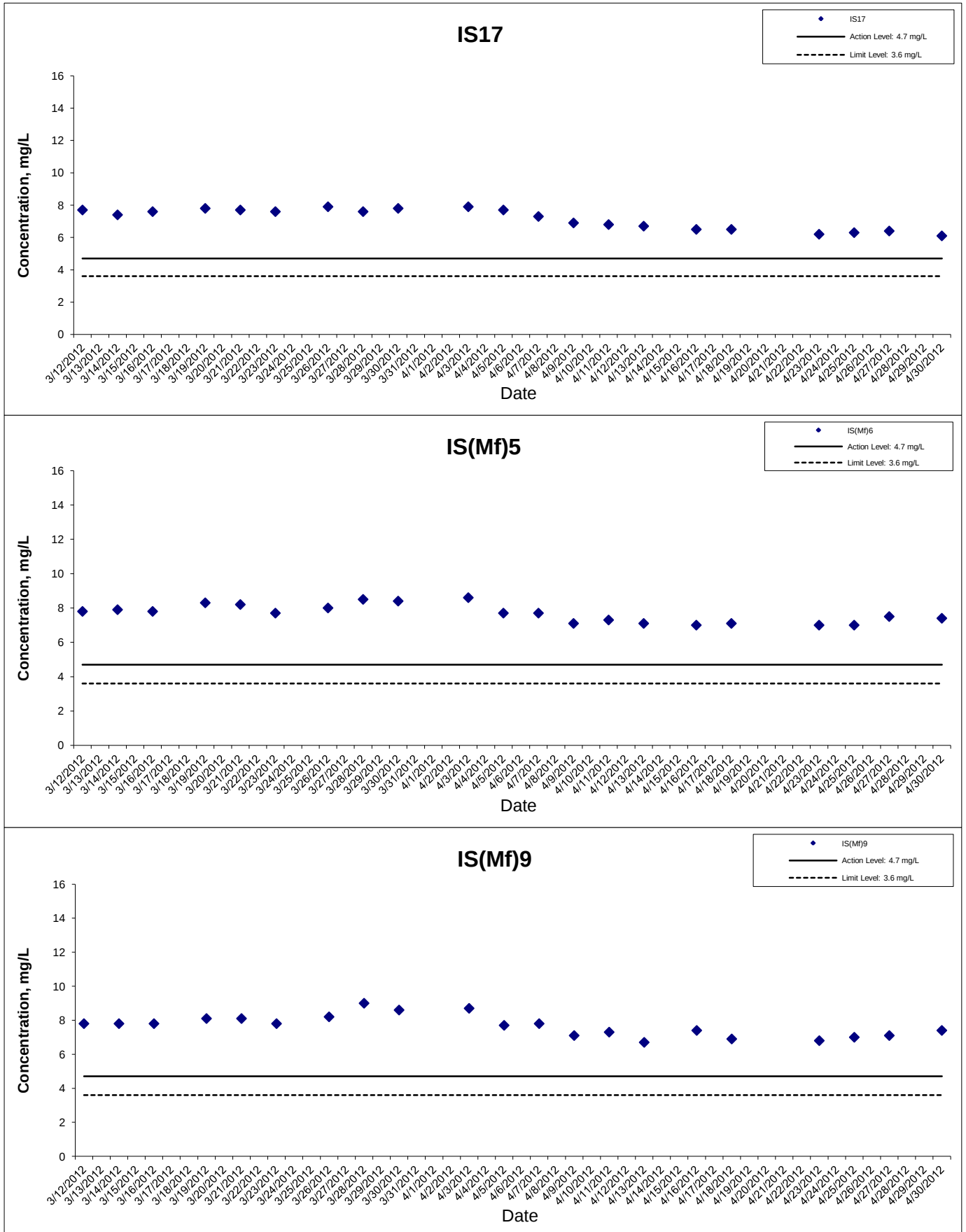
AECOM

Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

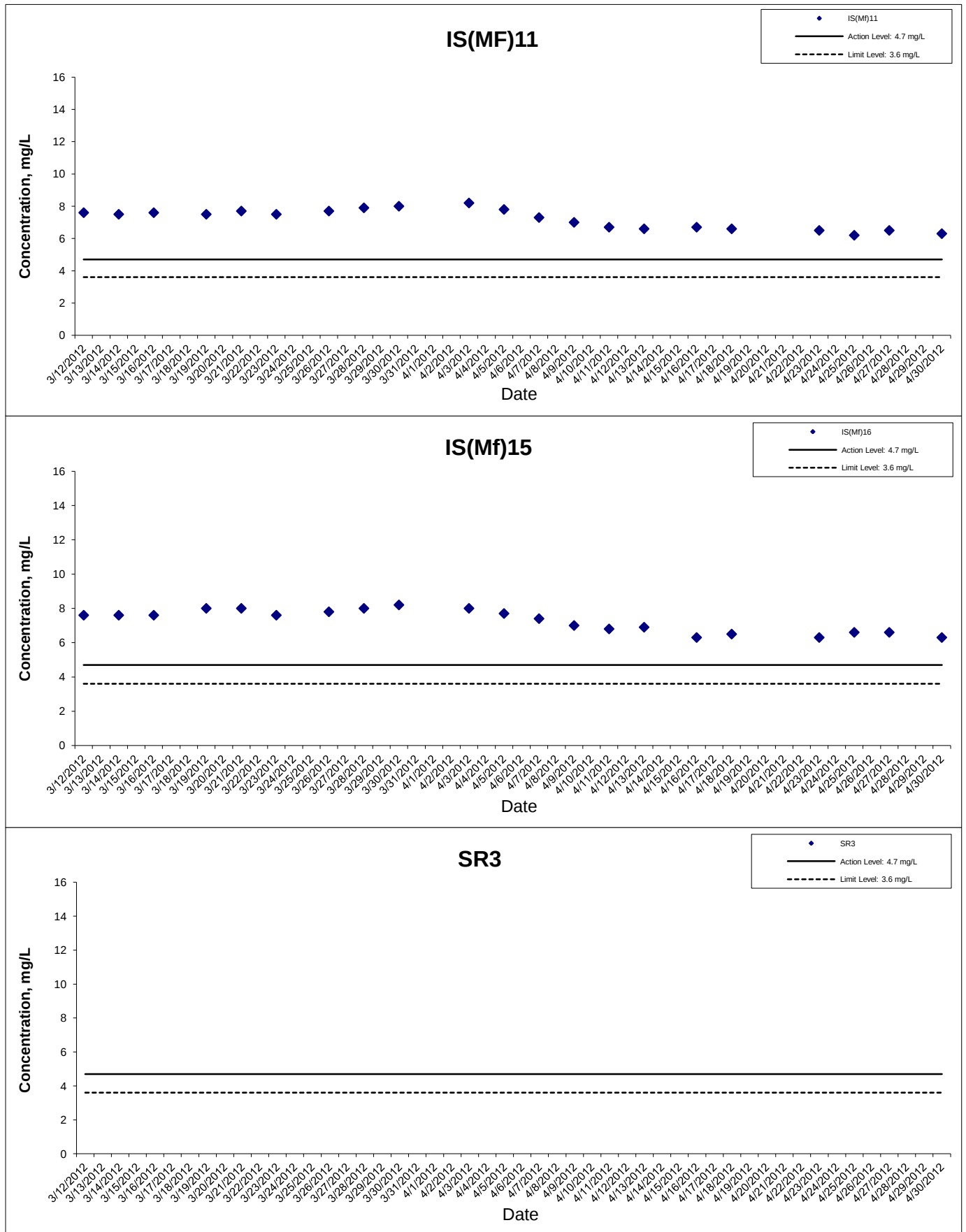


Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

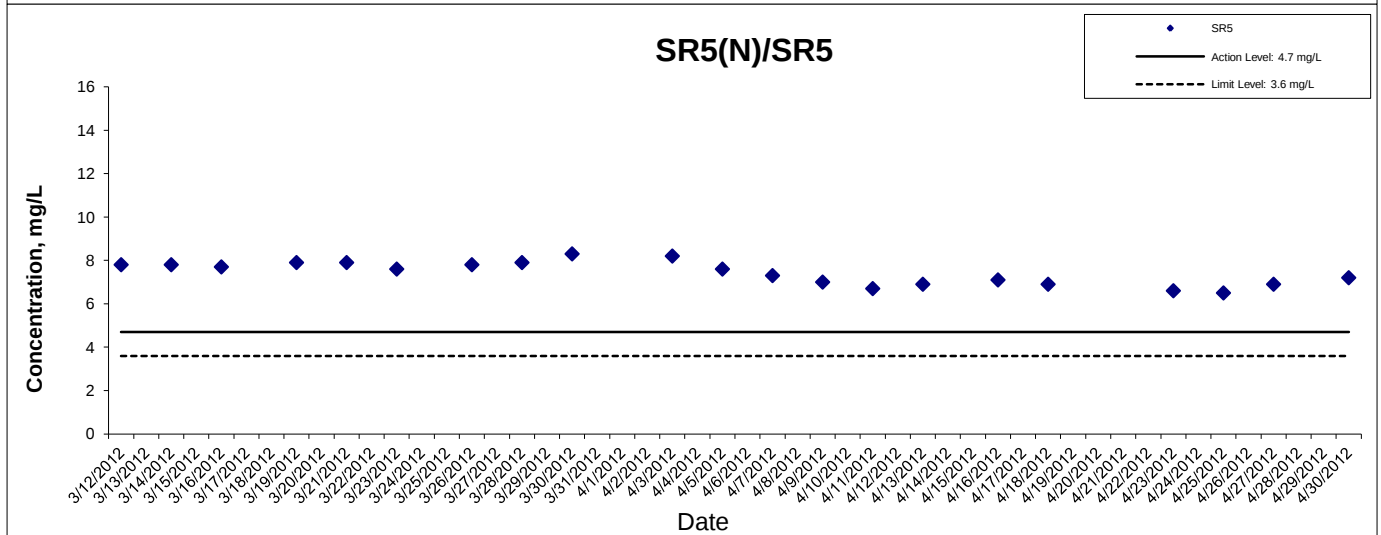
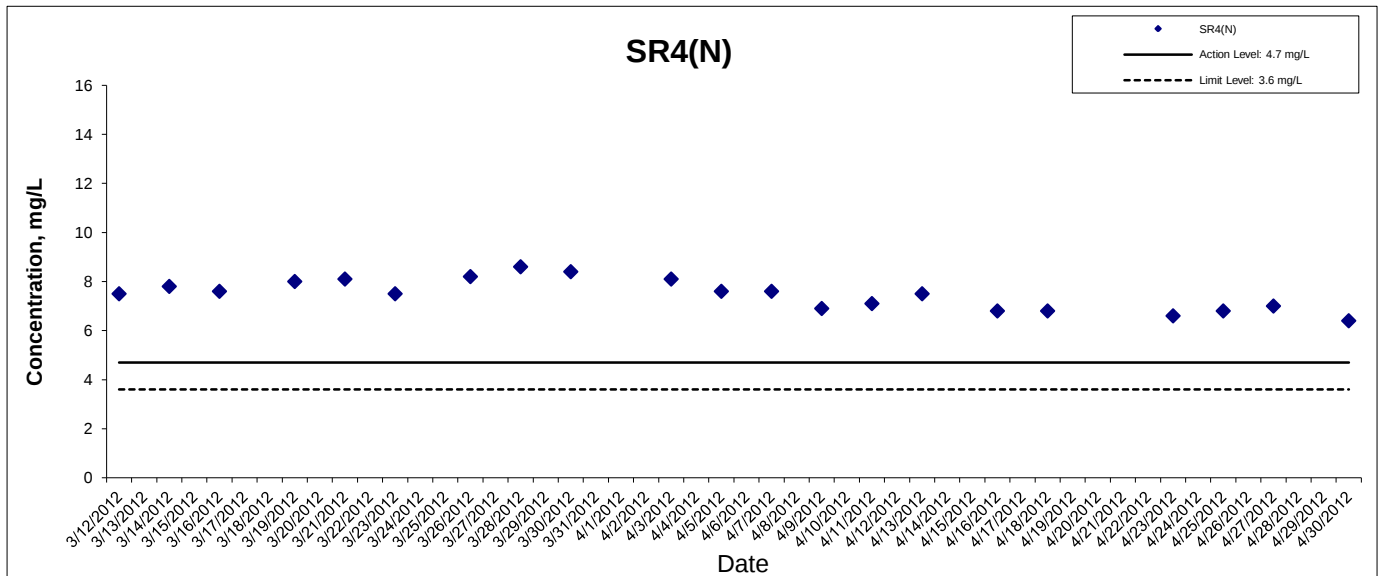
AECOM

Project No.: 60249820

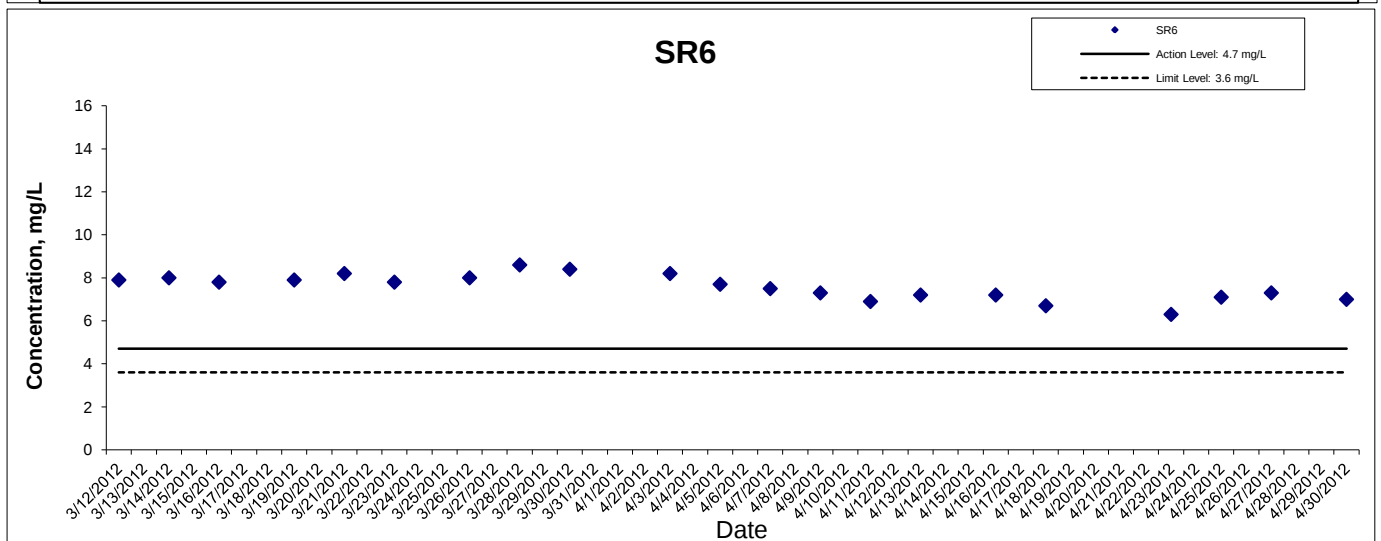
Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Ebb Tide

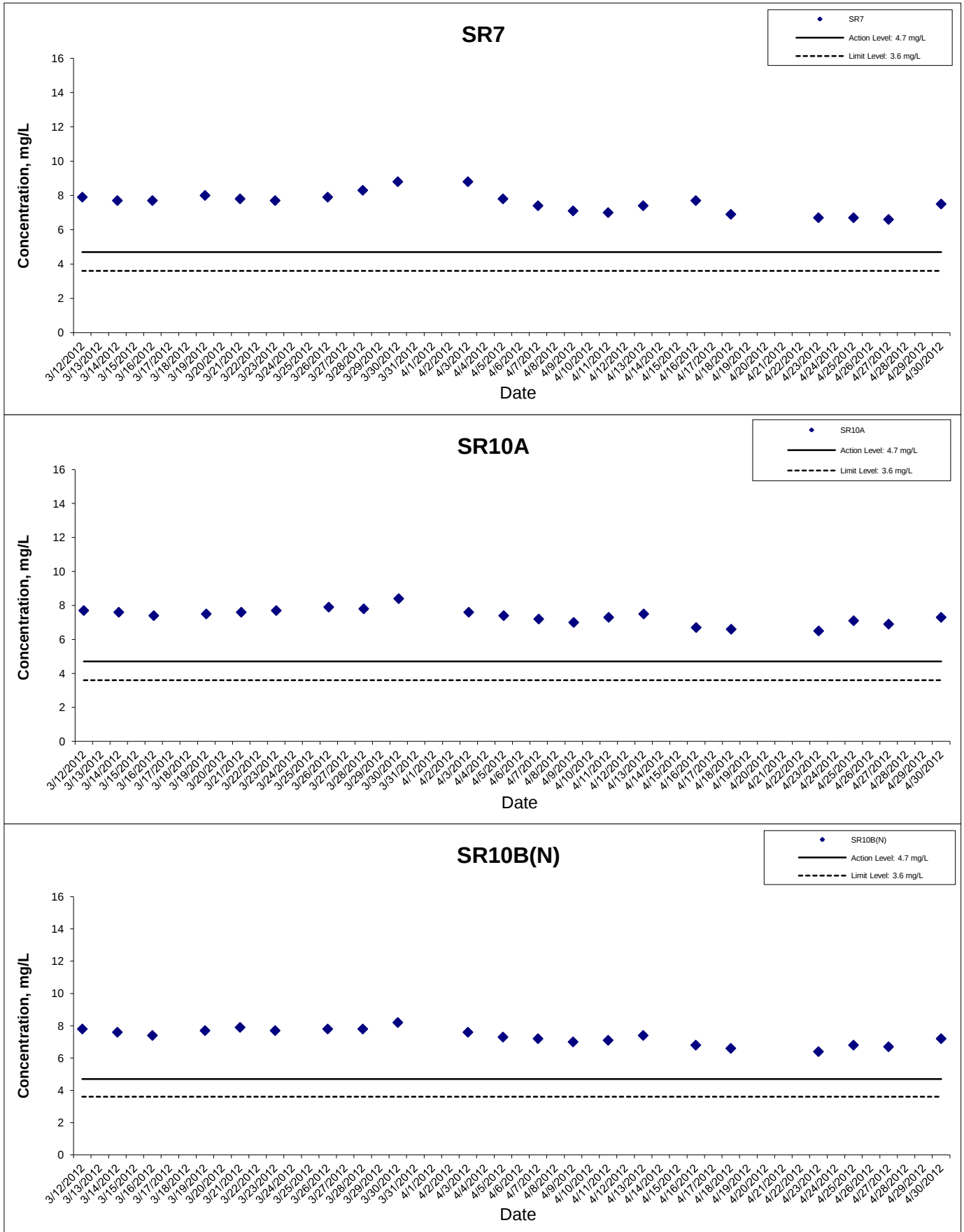


Due to safety concern and presence of Airport Approach Restricted Areas, alternative impact water quality monitoring station SR5(N) was adopted, which is in vicinity of SR5 and could be reachable, for the period from 12 to 28 March 2012.



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Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

**Graphical Presentation of Impact Water Quality
Monitoring Results**

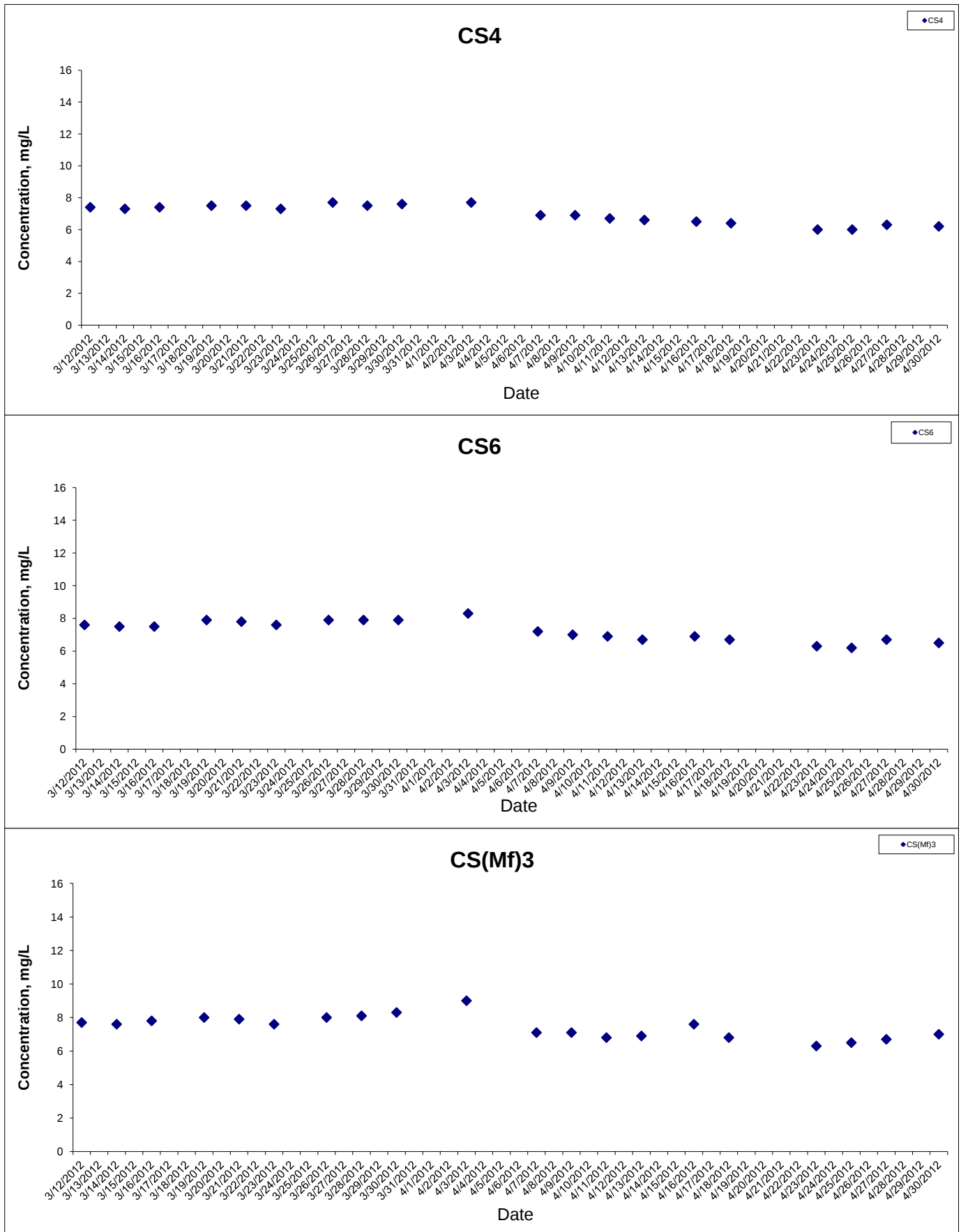


Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

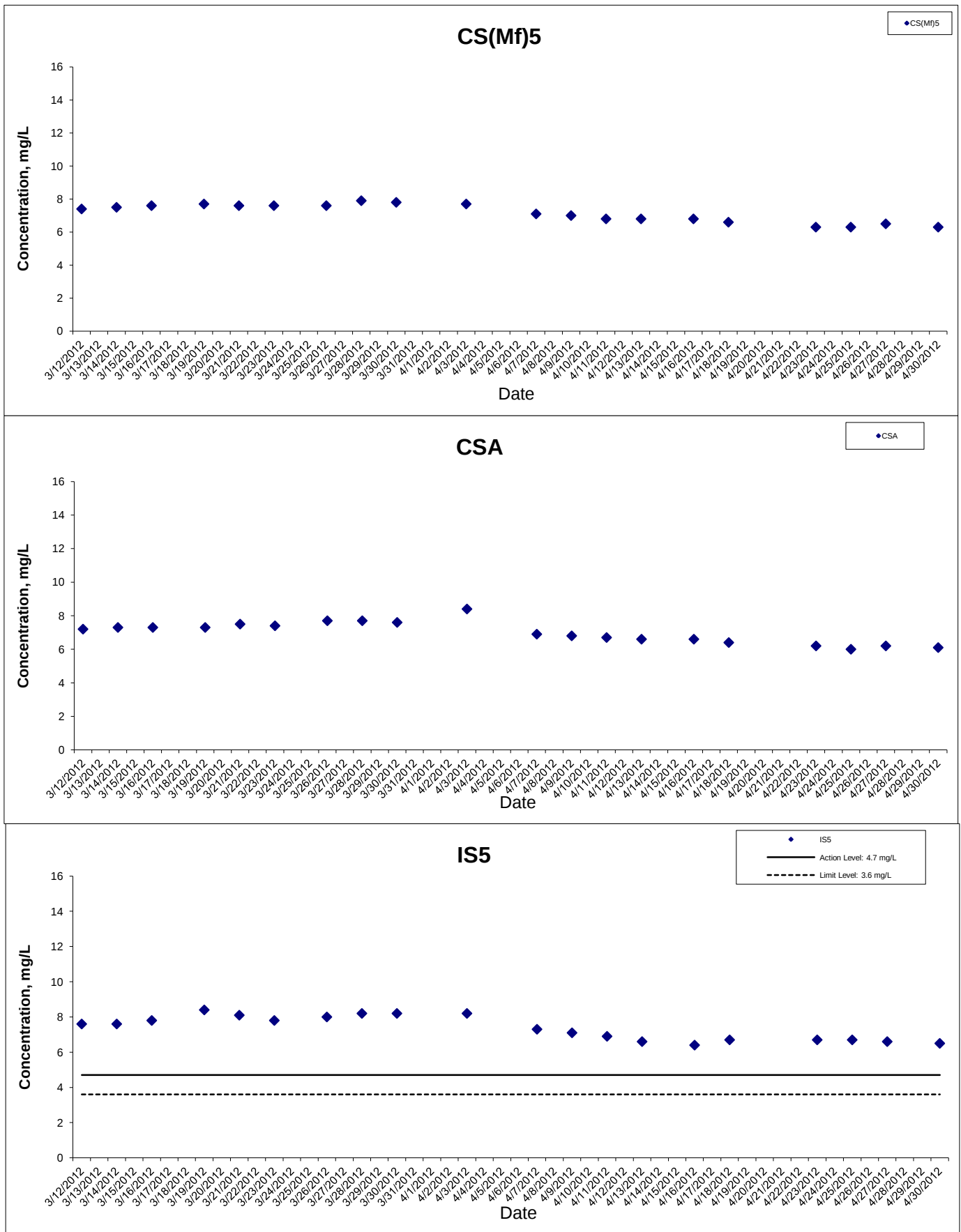
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Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

**Graphical Presentation of Impact Water Quality
Monitoring Results**

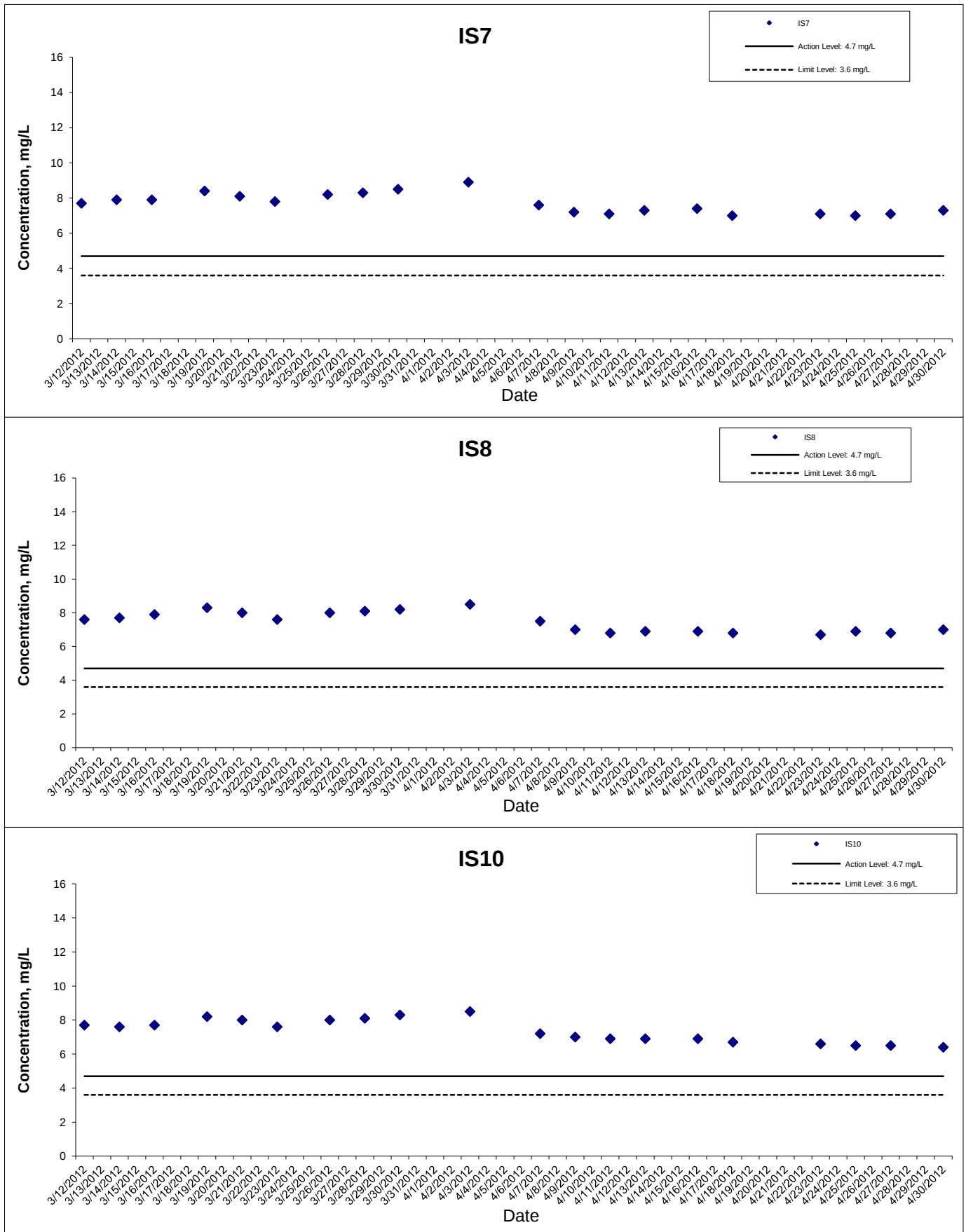


Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

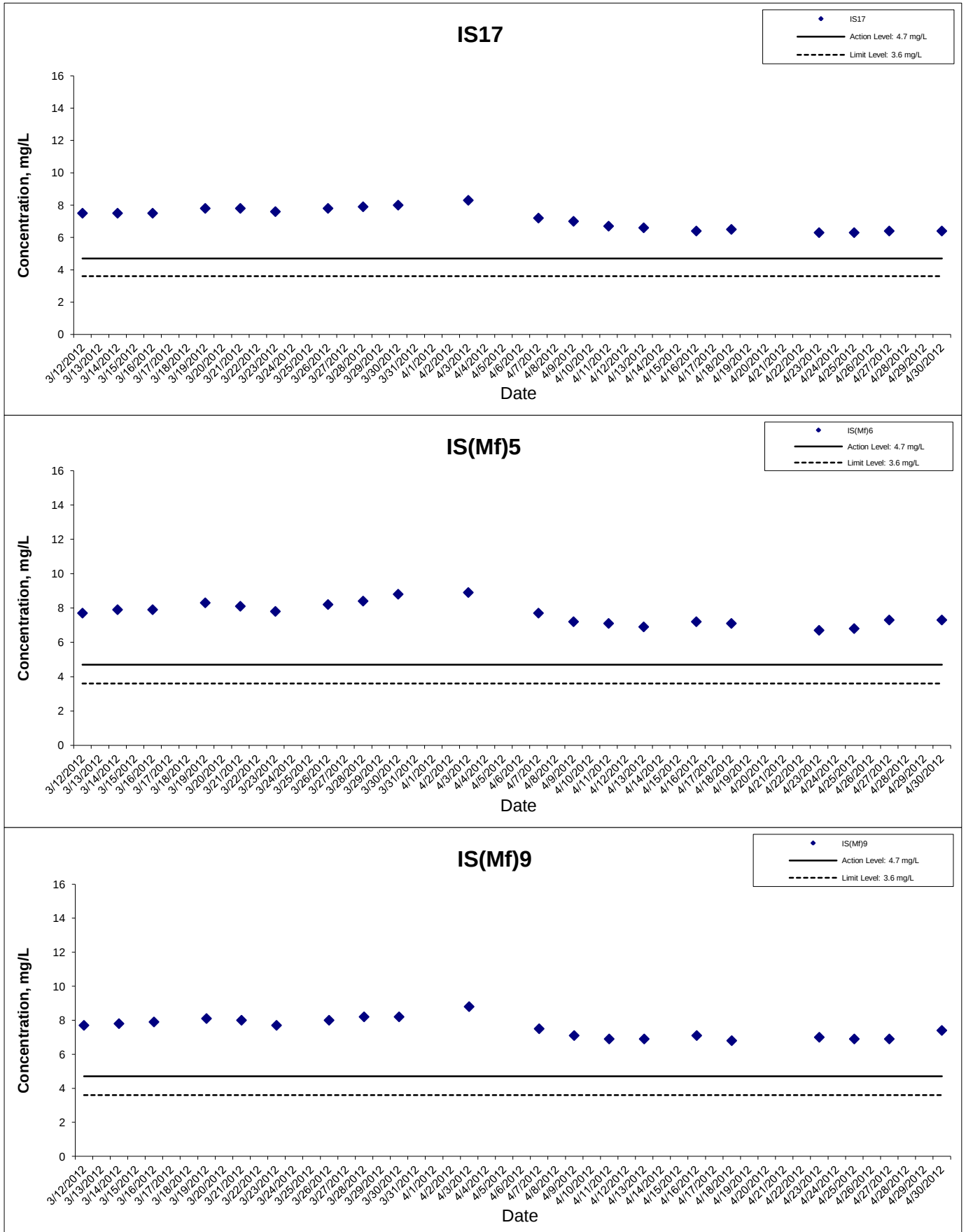
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Project No.: 60249820

Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

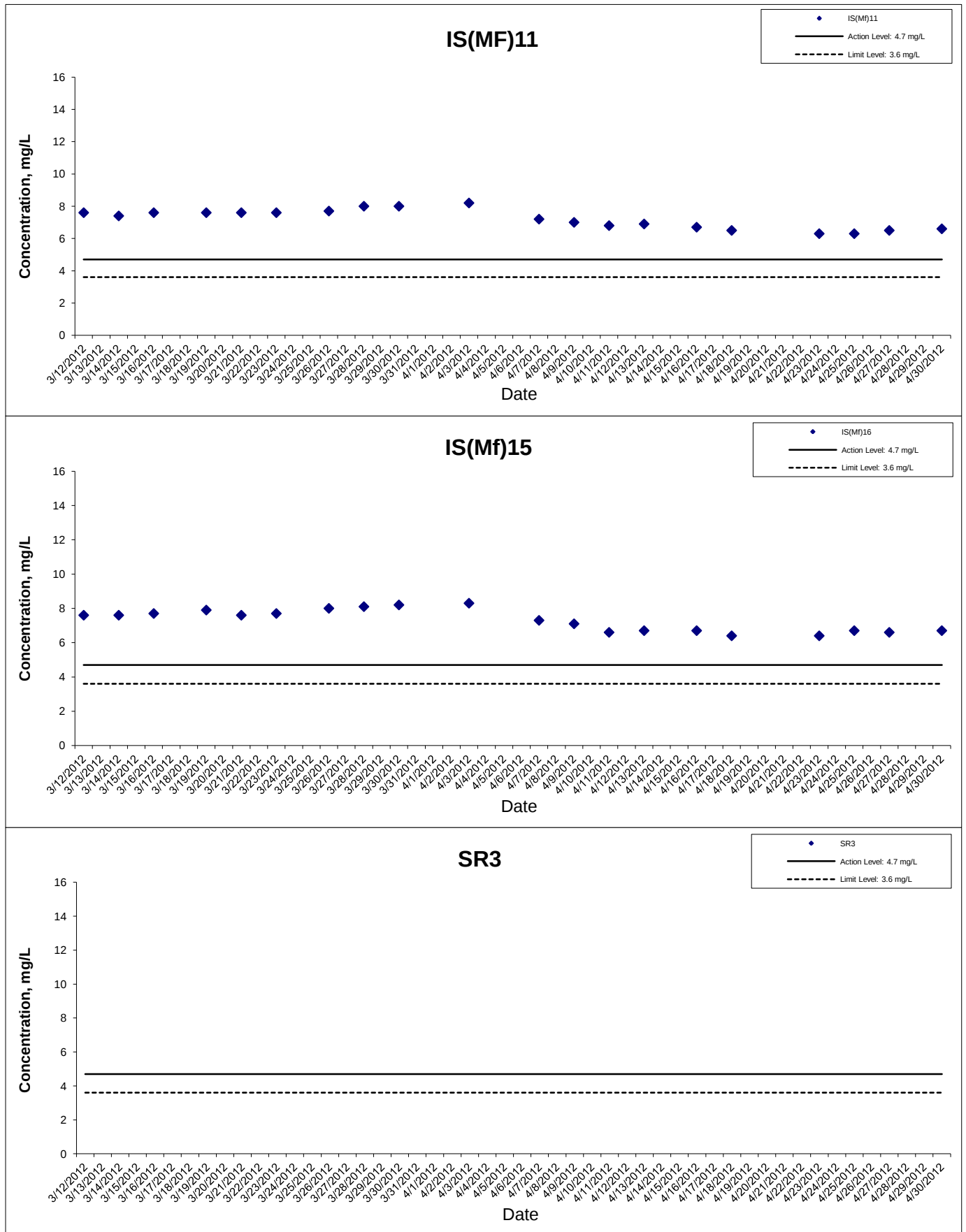
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Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

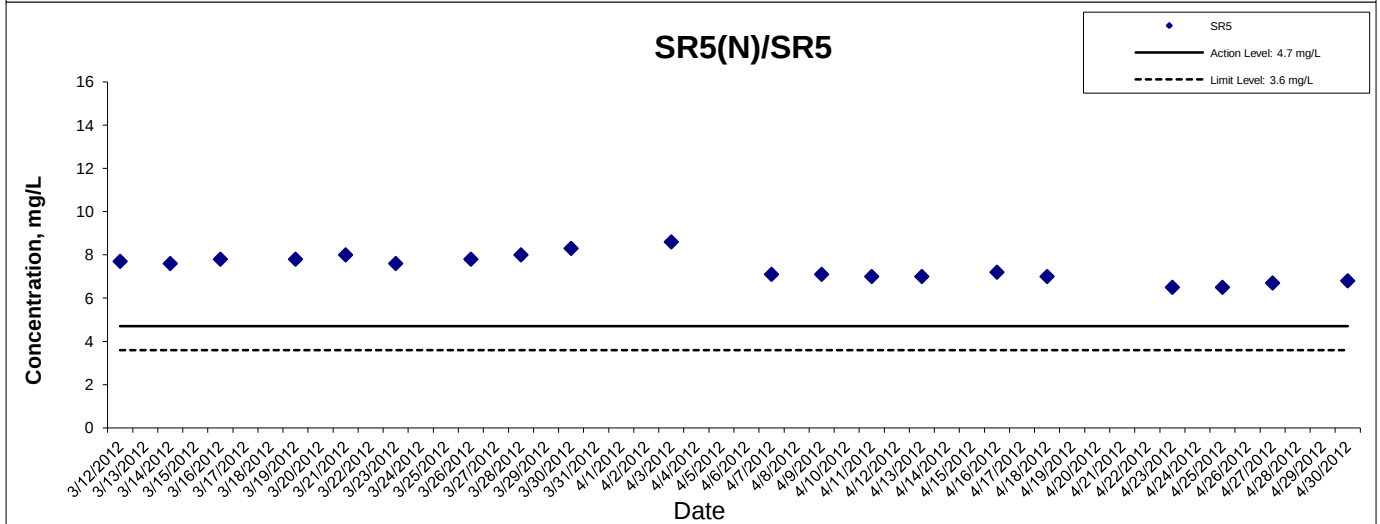
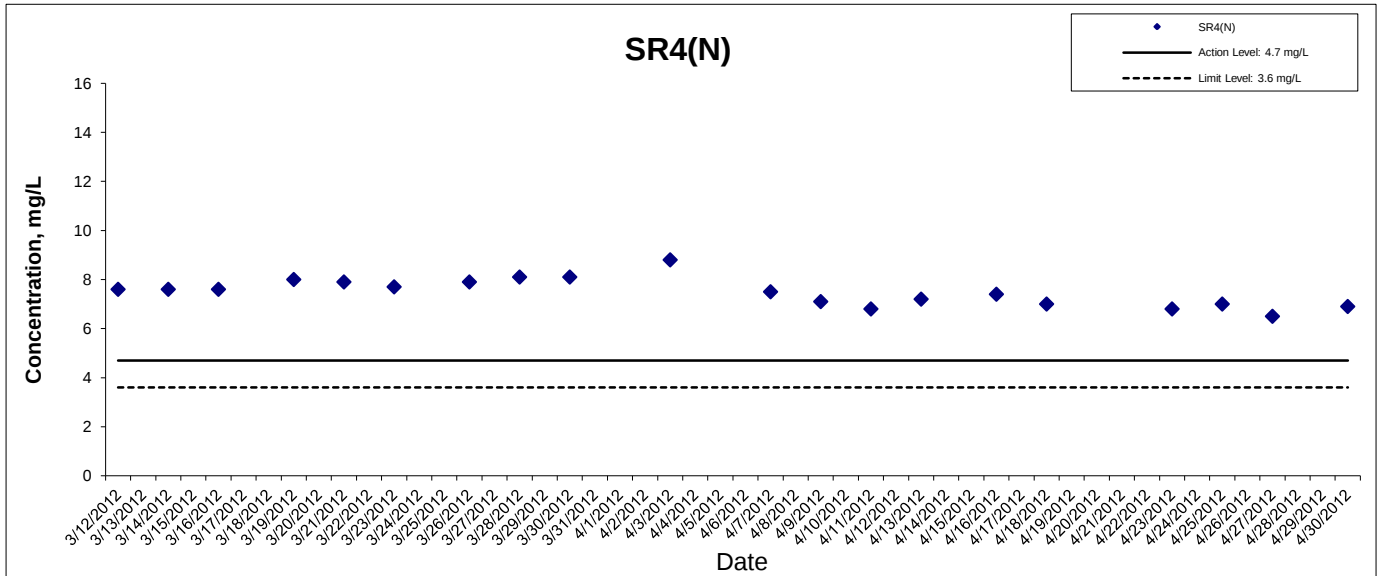
AECOM

Project No.: 60249820

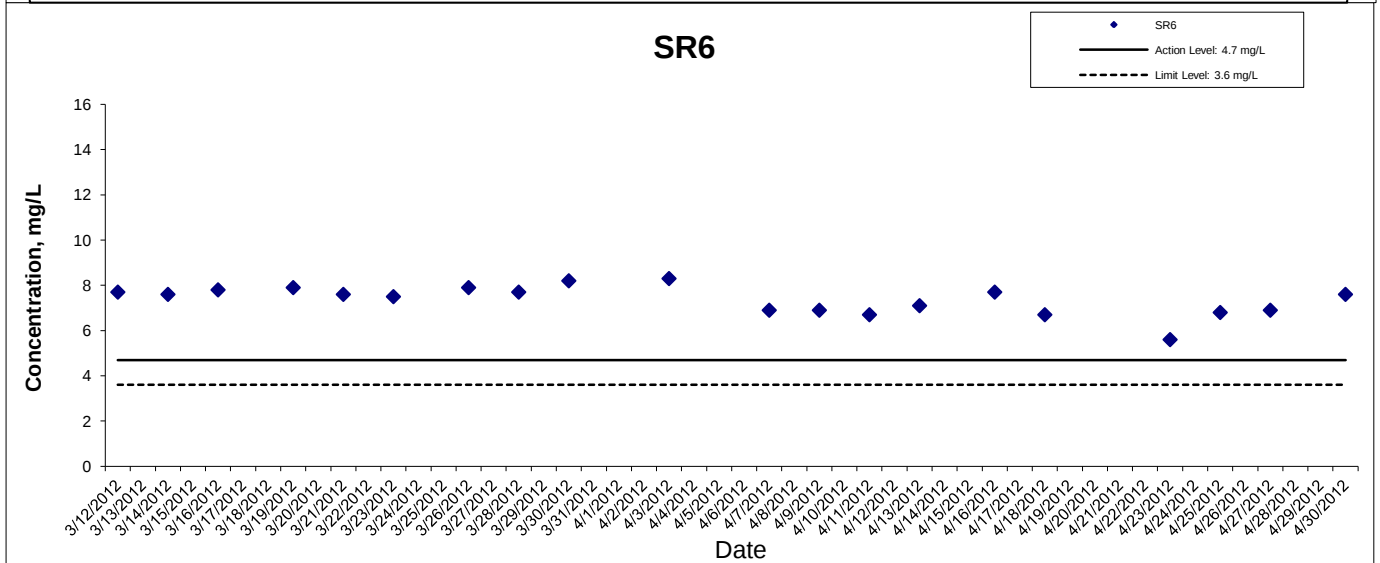
Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



Due to safety concern and presence of Airport Approach Restricted Areas, alternative impact water quality monitoring station SR5(N) was adopted, which is in vicinity of SR5 and could be reachable, for the period from 12 to 28 March 2012.



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

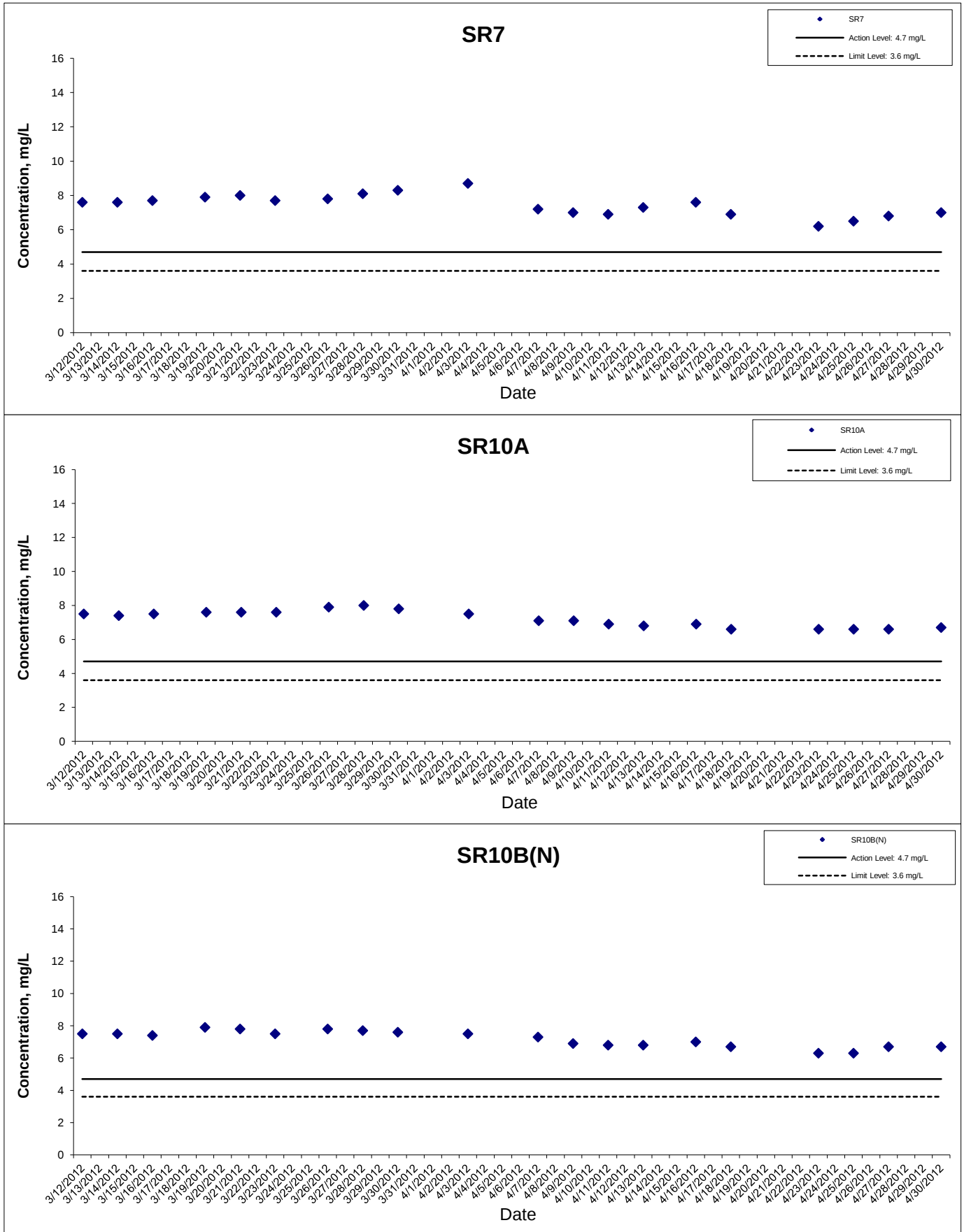
AECOM

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Date: May 2012

Appendix J

Dissolved Oxygen (Bottom) at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

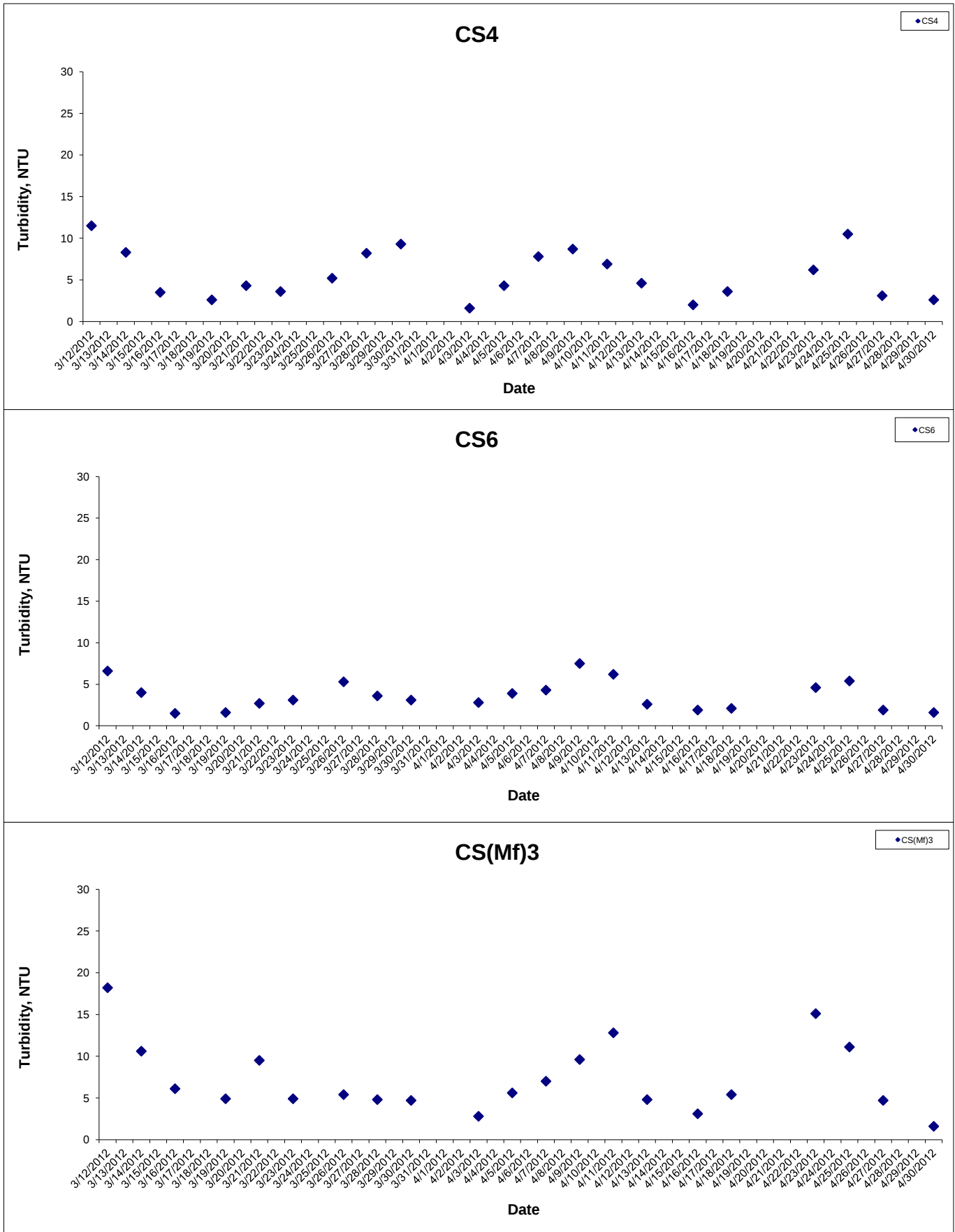
AECOM

Project No.: 60249820

Date: May 2012

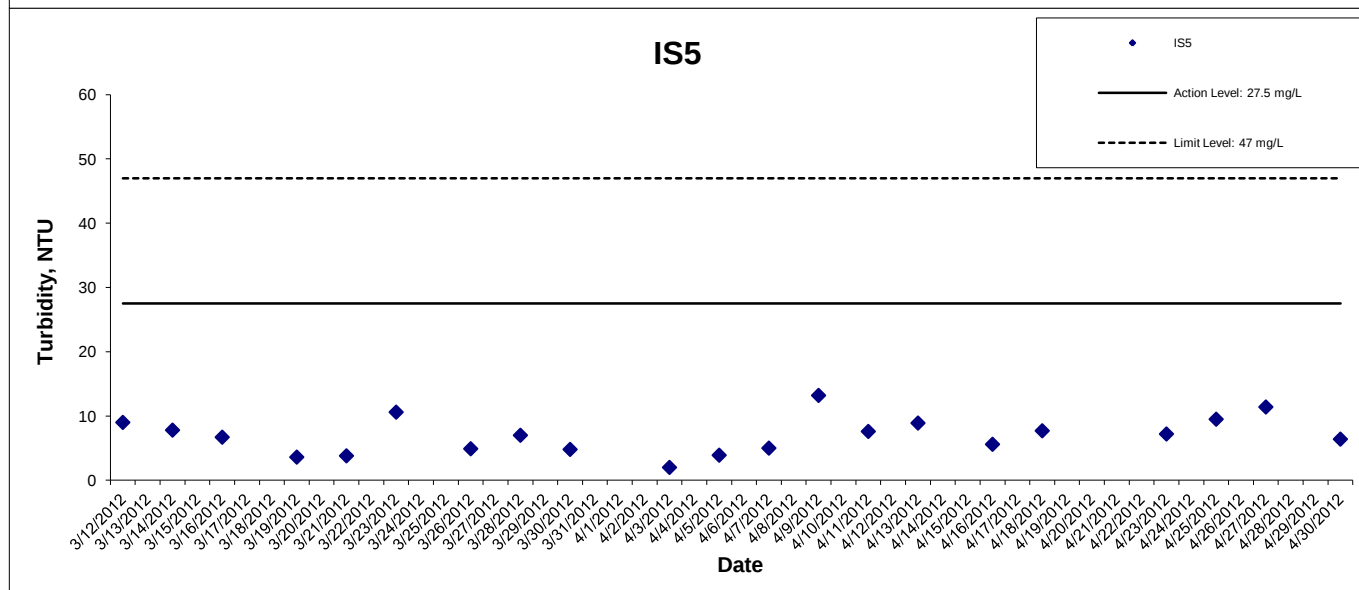
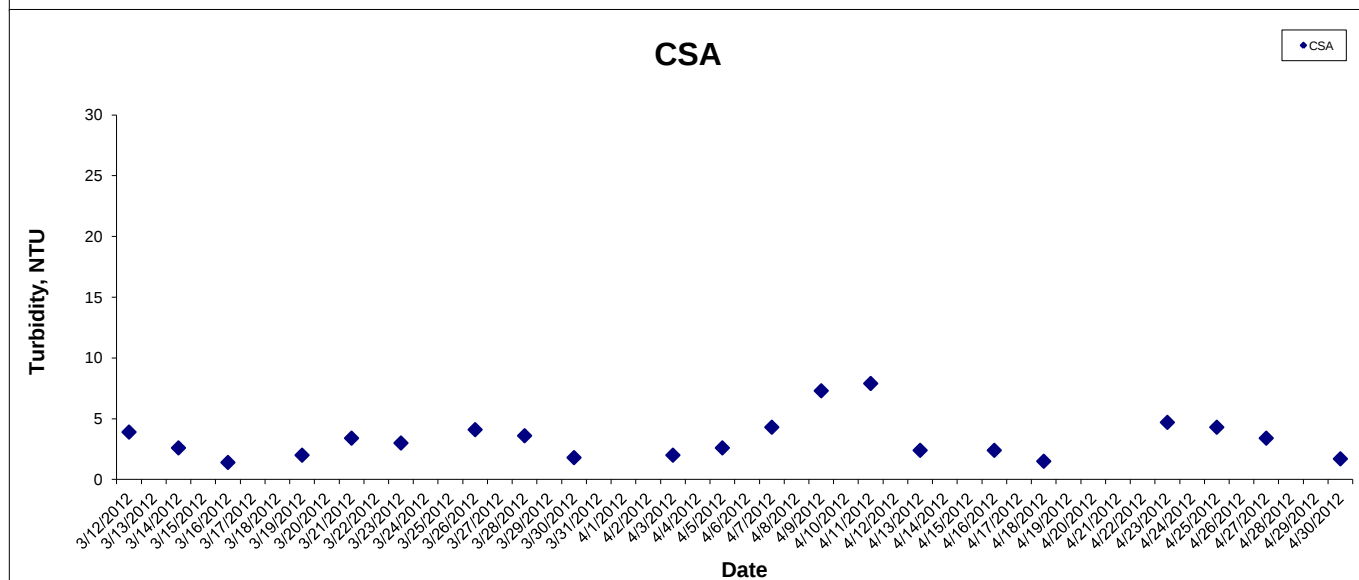
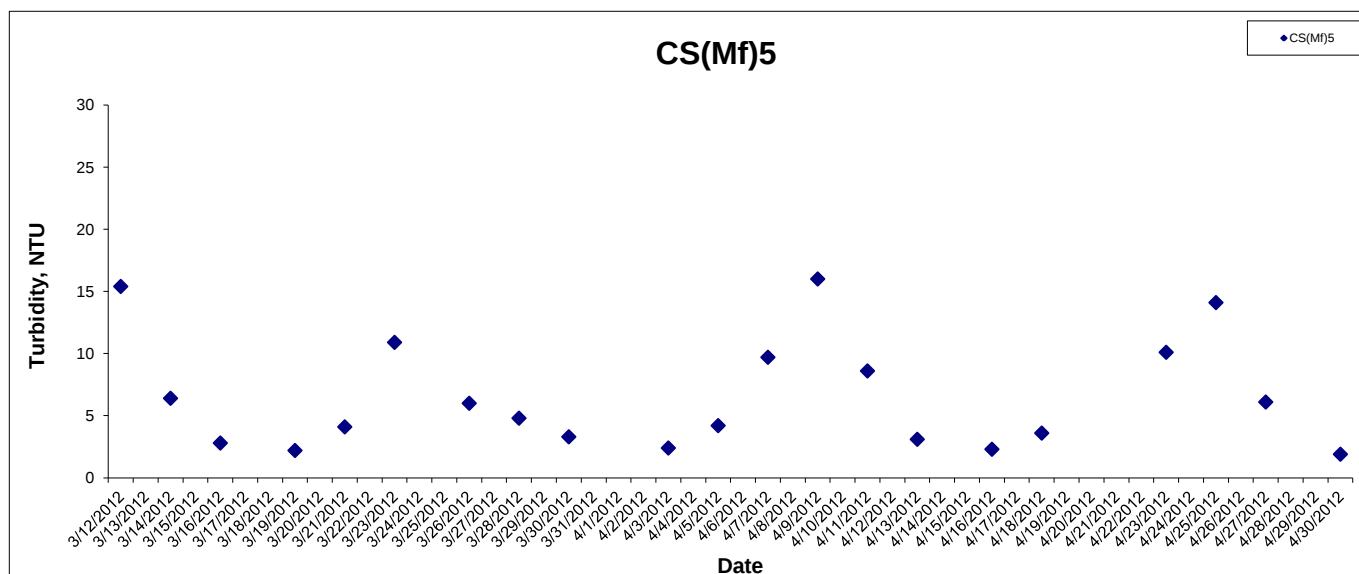
Appendix J

Turbidity at Mid-Ebb Tide



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Turbidity at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
 HONG KONG BOUNDARY CROSSING FACILITIES
 - RECLAMATION WORKS

Graphical Presentation of Impact Water Quality Monitoring Results

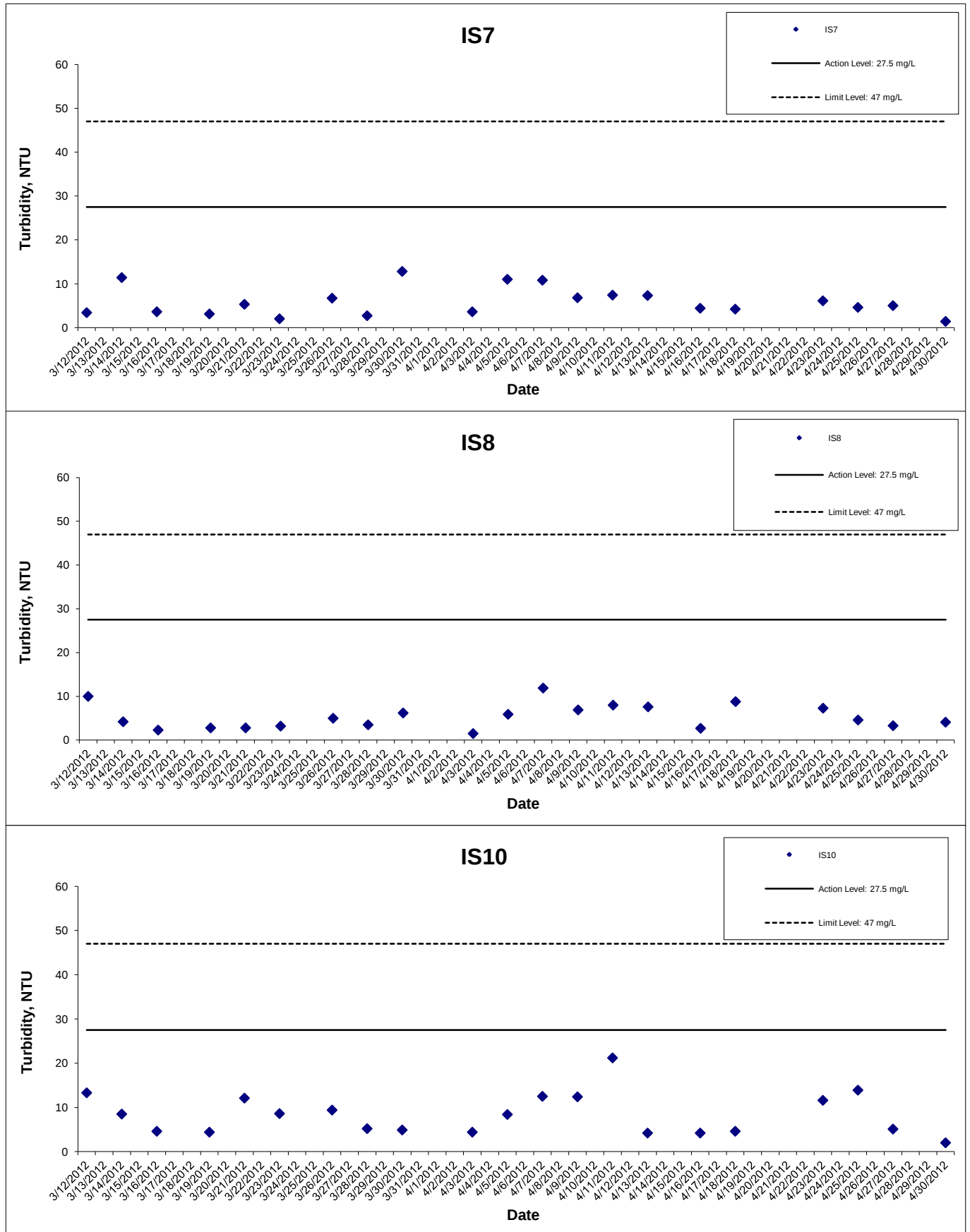


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Appendix J

Turbidity at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

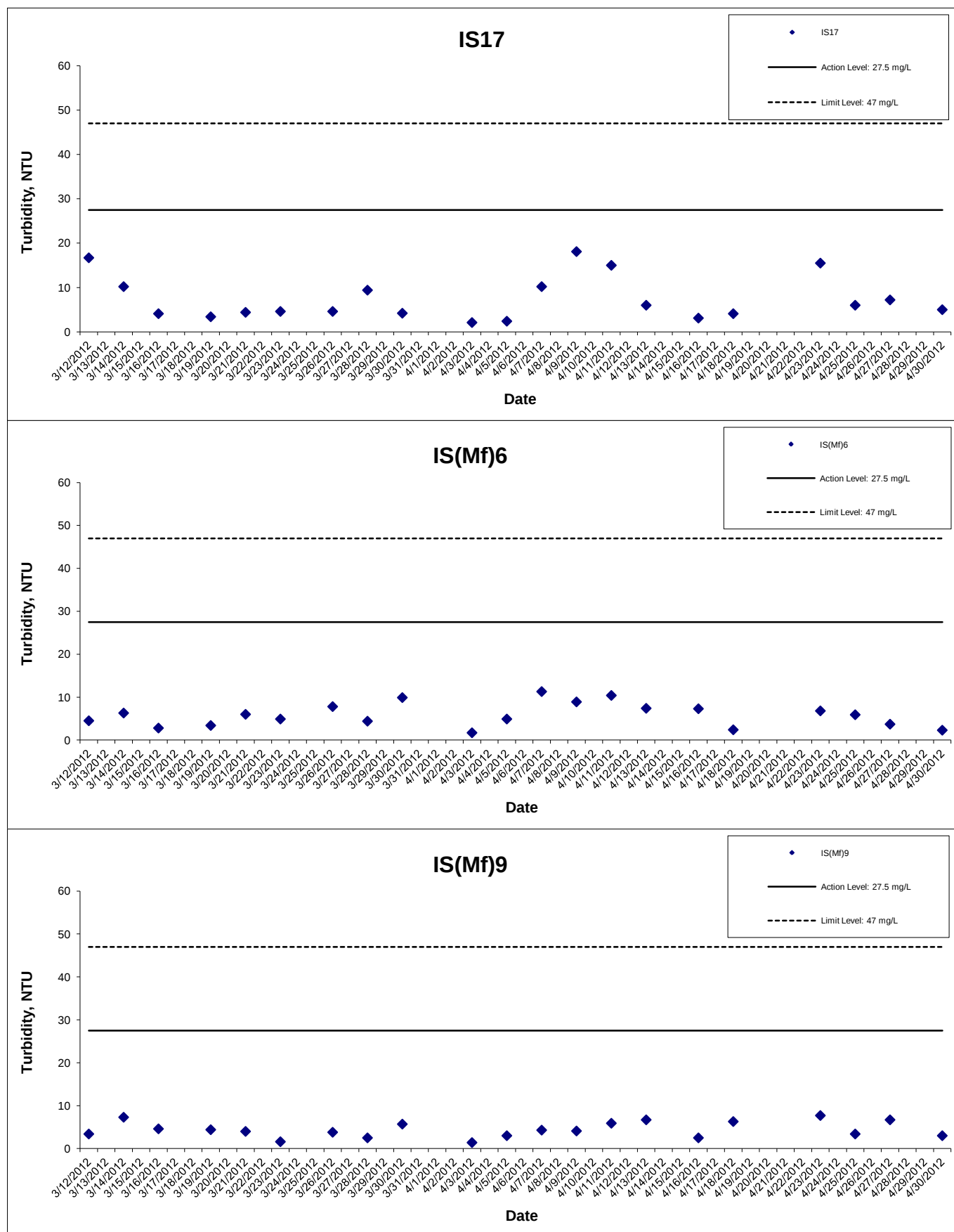
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Project No.: 60249820

Date: May 2012

Appendix J

Turbidity at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

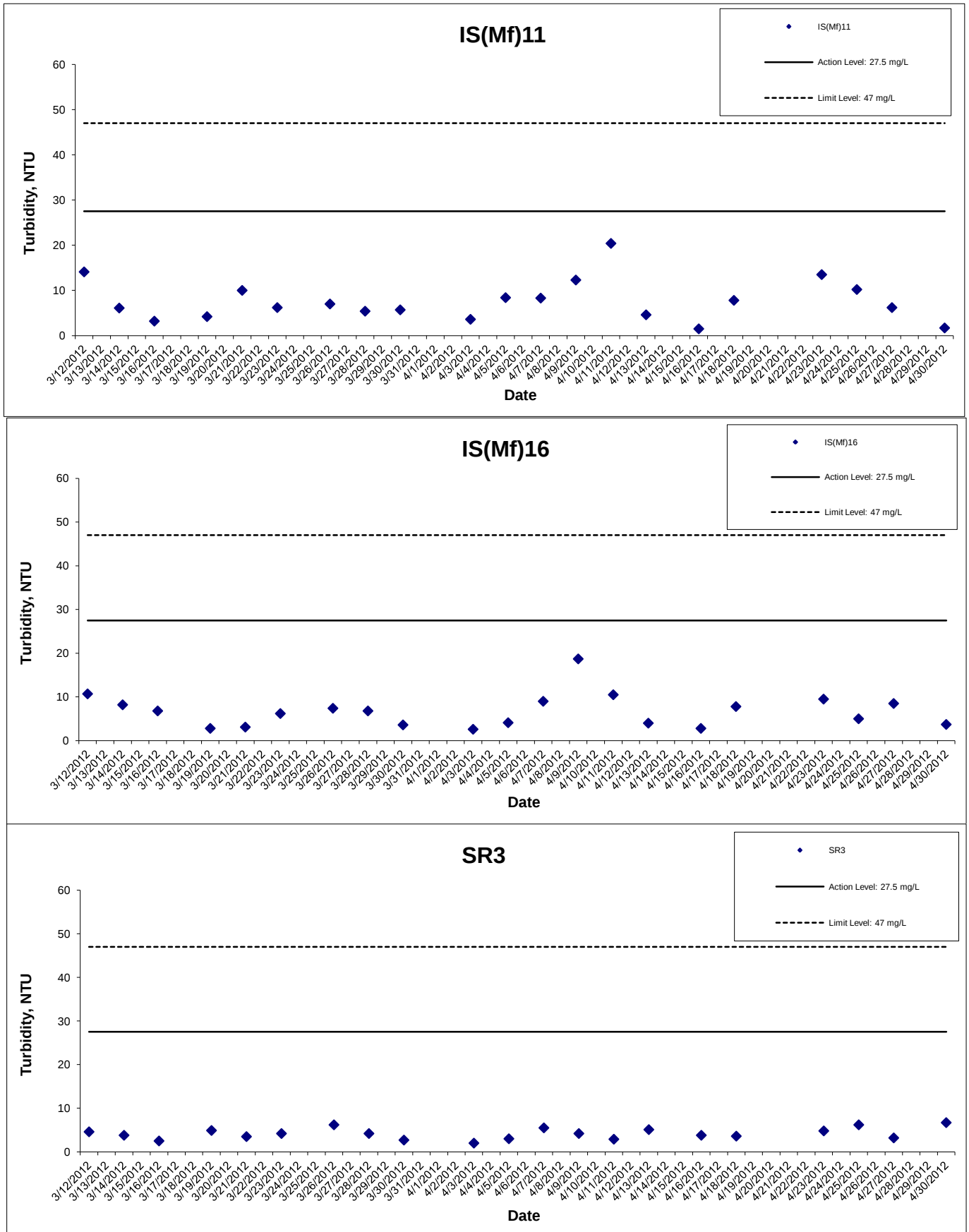
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Date: May 2012

Appendix J

Turbidity at Mid-Ebb Tide



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HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

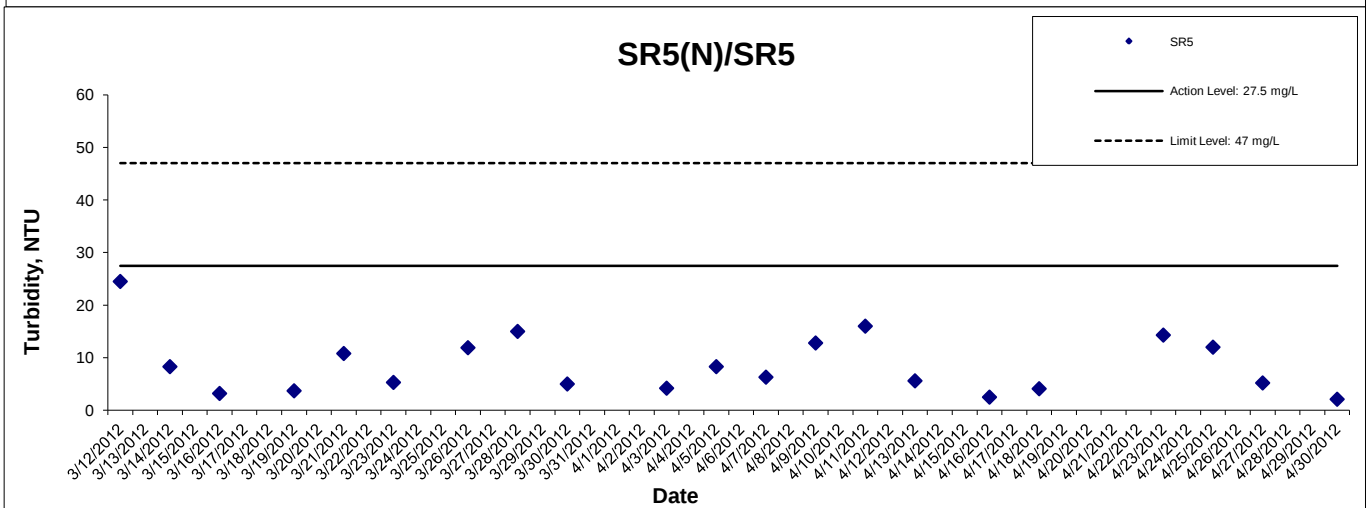
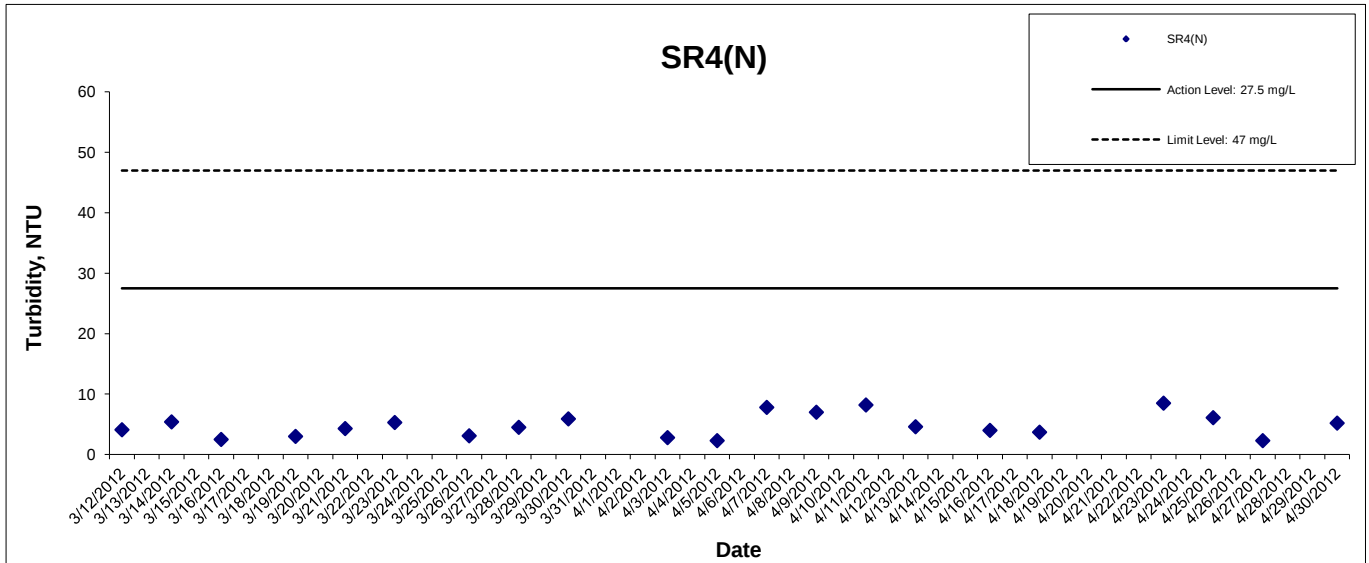
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Project No.: 60249820

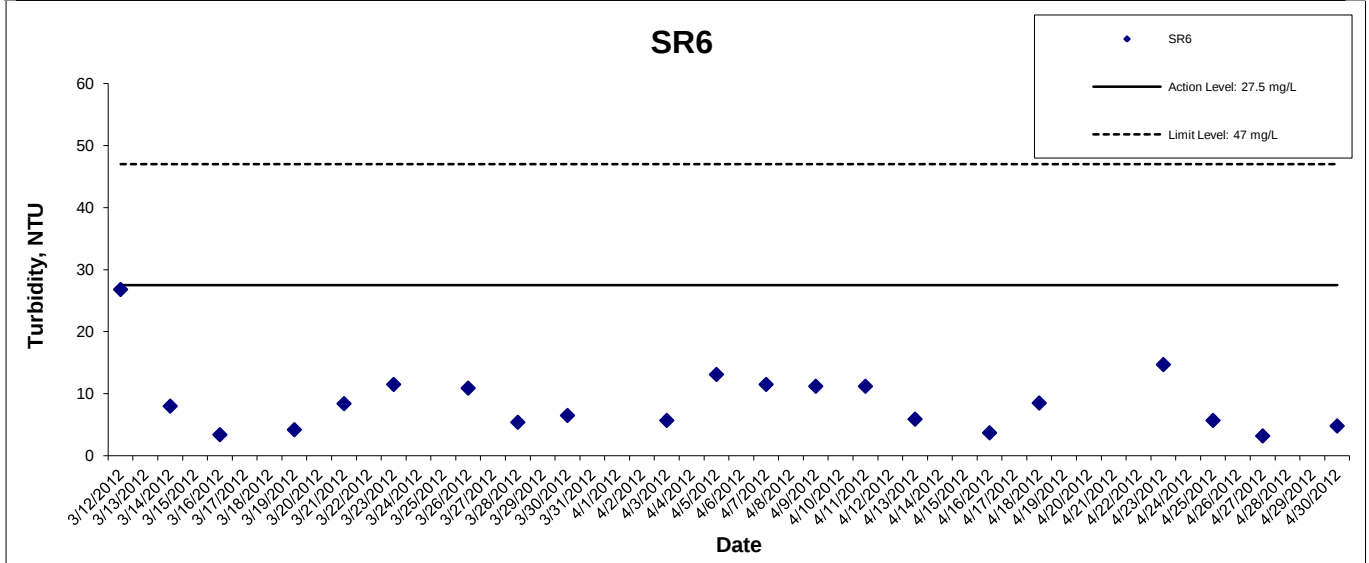
Date: May 2012

Appendix J

Turbidity at Mid-Ebb Tide

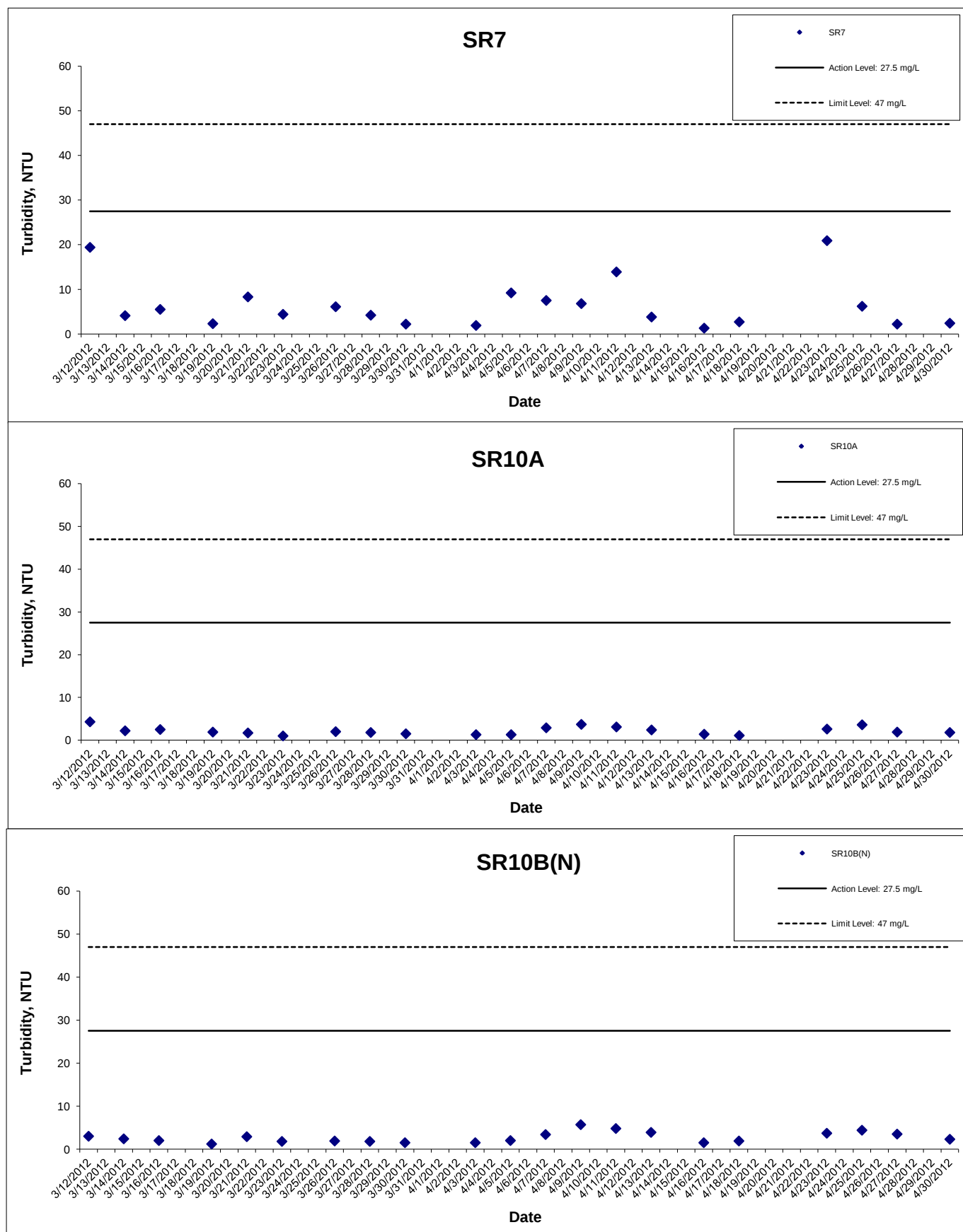


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Turbidity at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

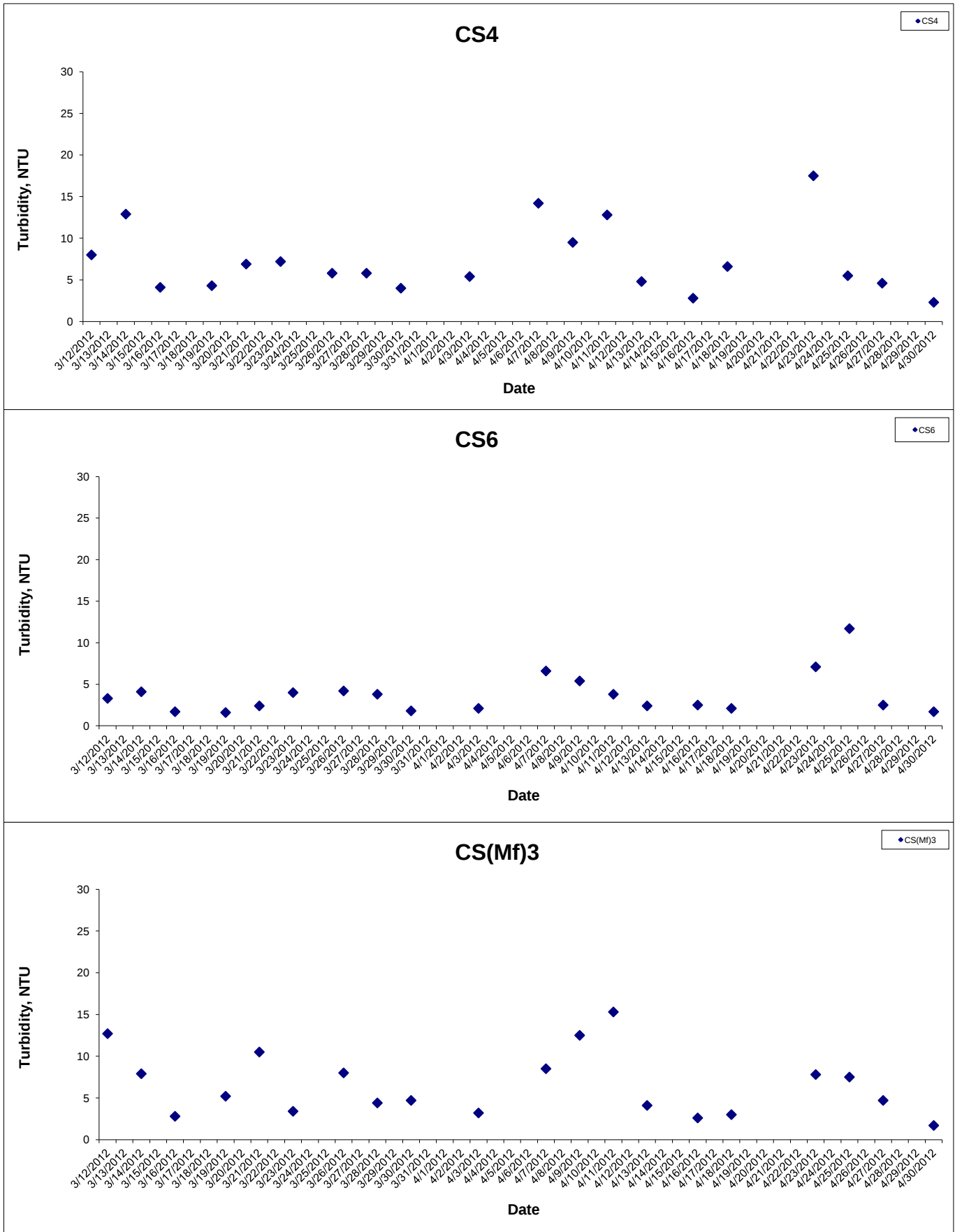
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Project No.: 60249820

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Appendix J

Turbidity at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

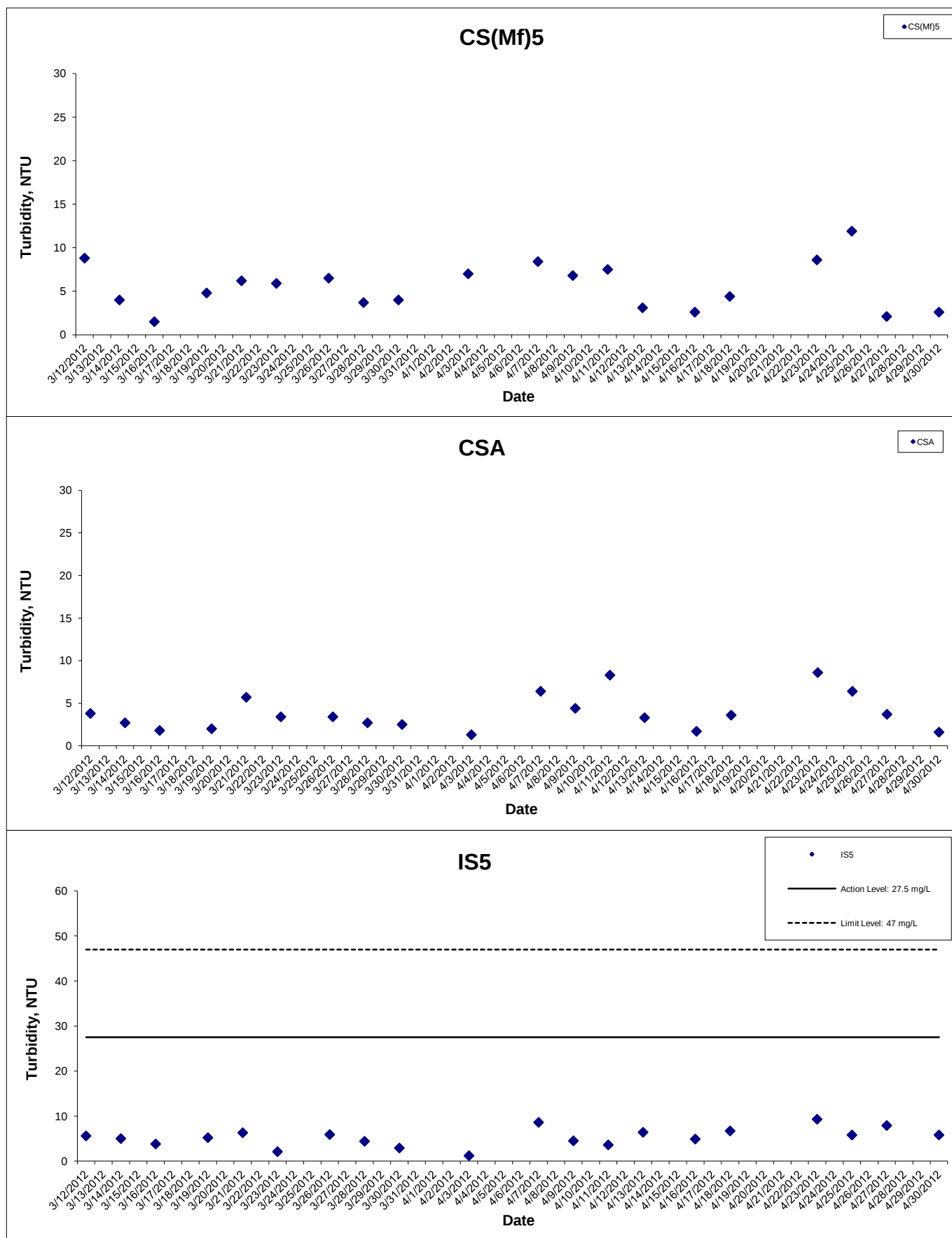
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Appendix J

Turbidity at Mid-Flood Tide



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HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

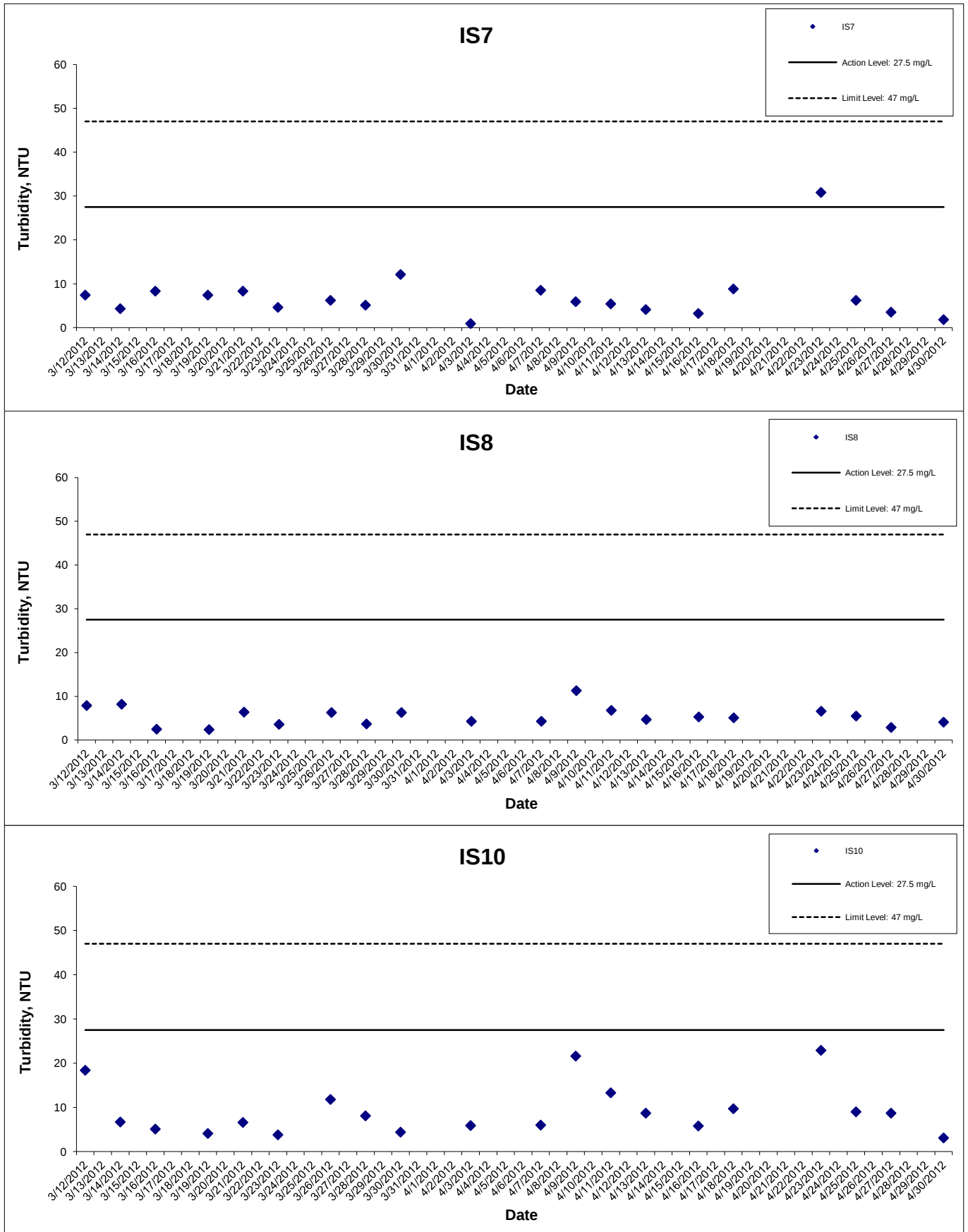


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Date: May 2012

Appendix J

Turbidity at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

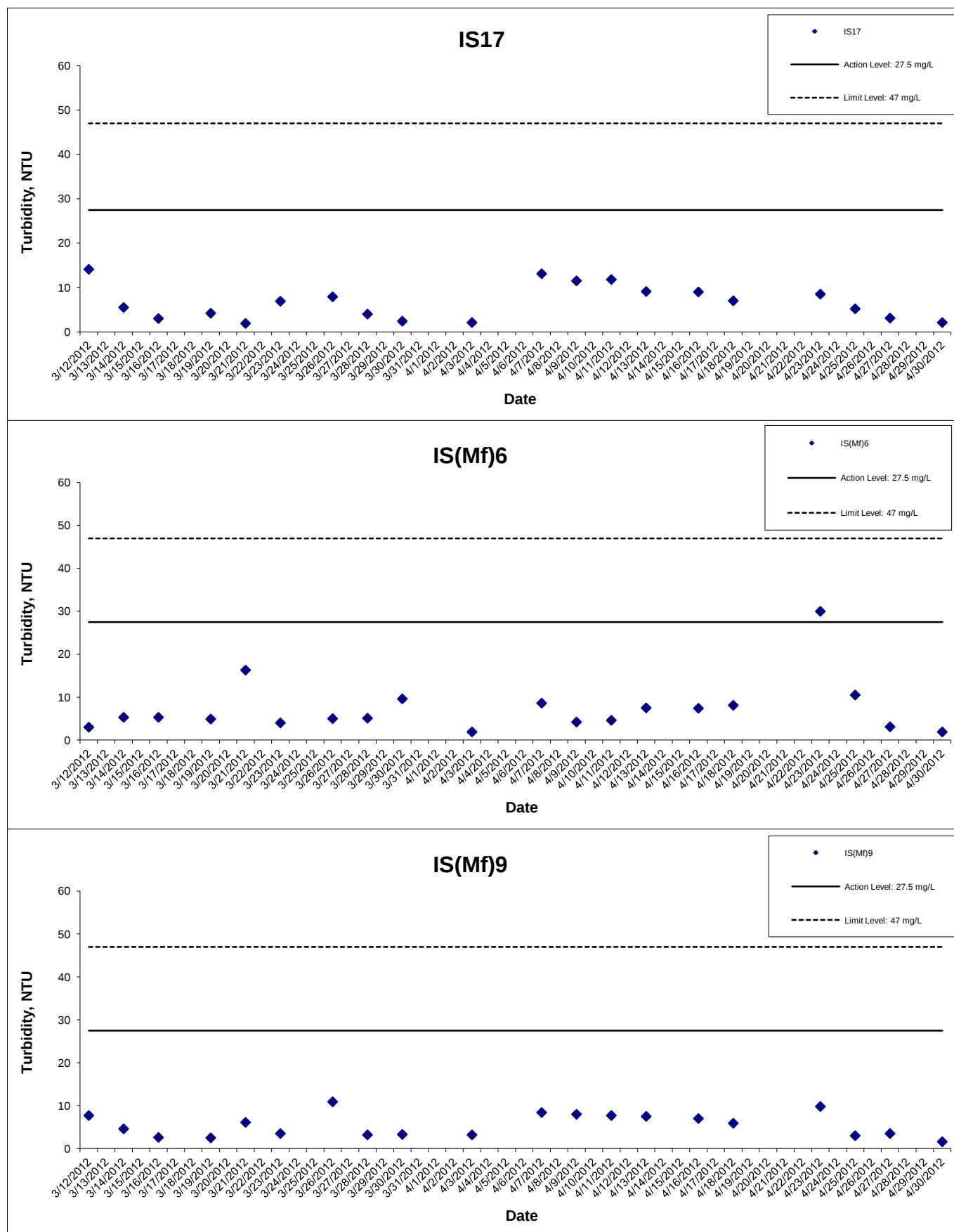
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Project No.: 60249820

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Appendix J

Turbidity at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality Monitoring Results

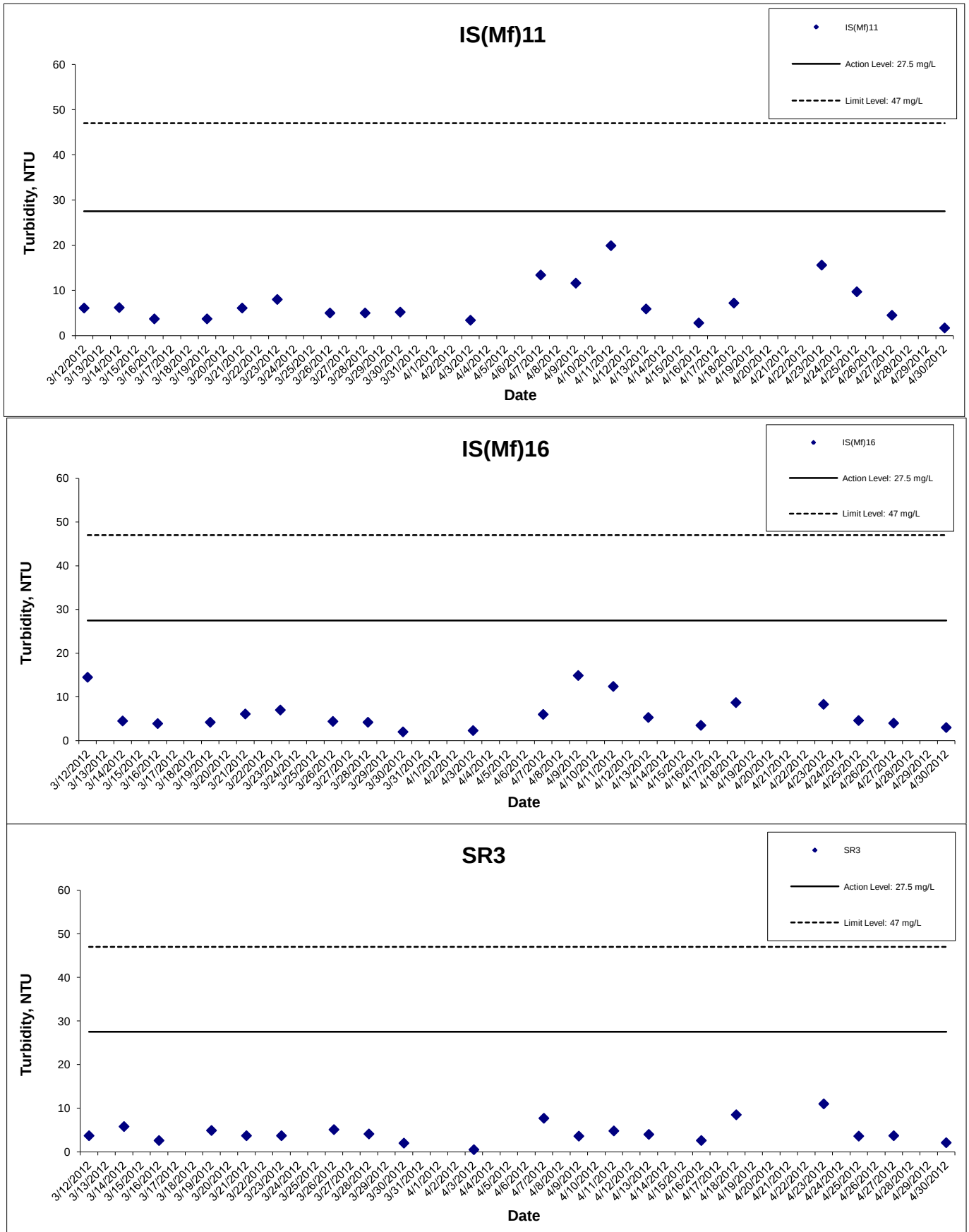


Project No.: 60249820

Date: May 2012

Appendix J

Turbidity at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality Monitoring Results

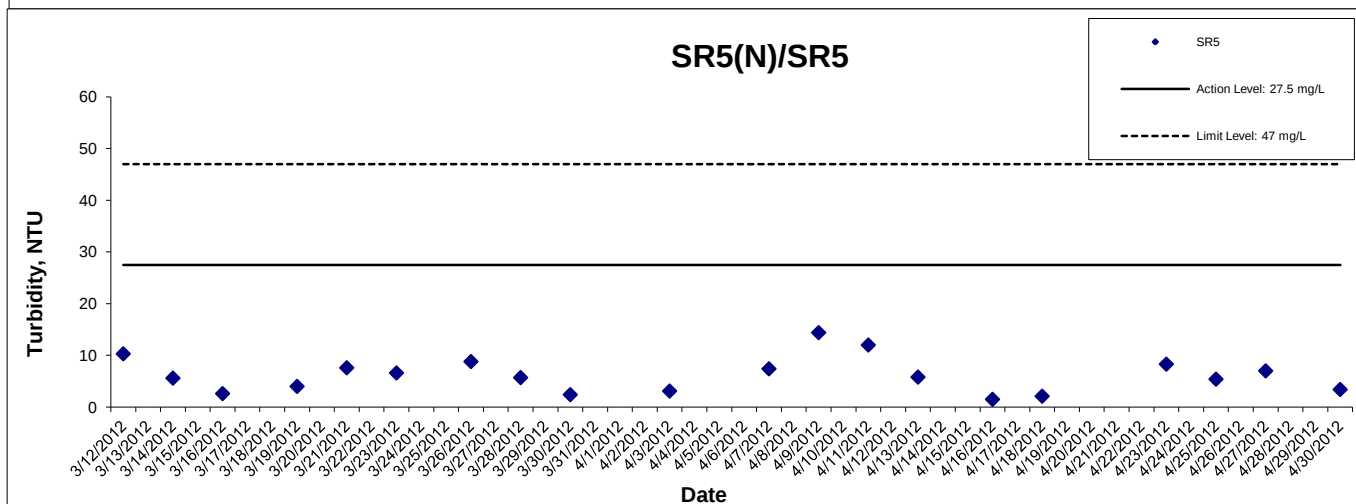
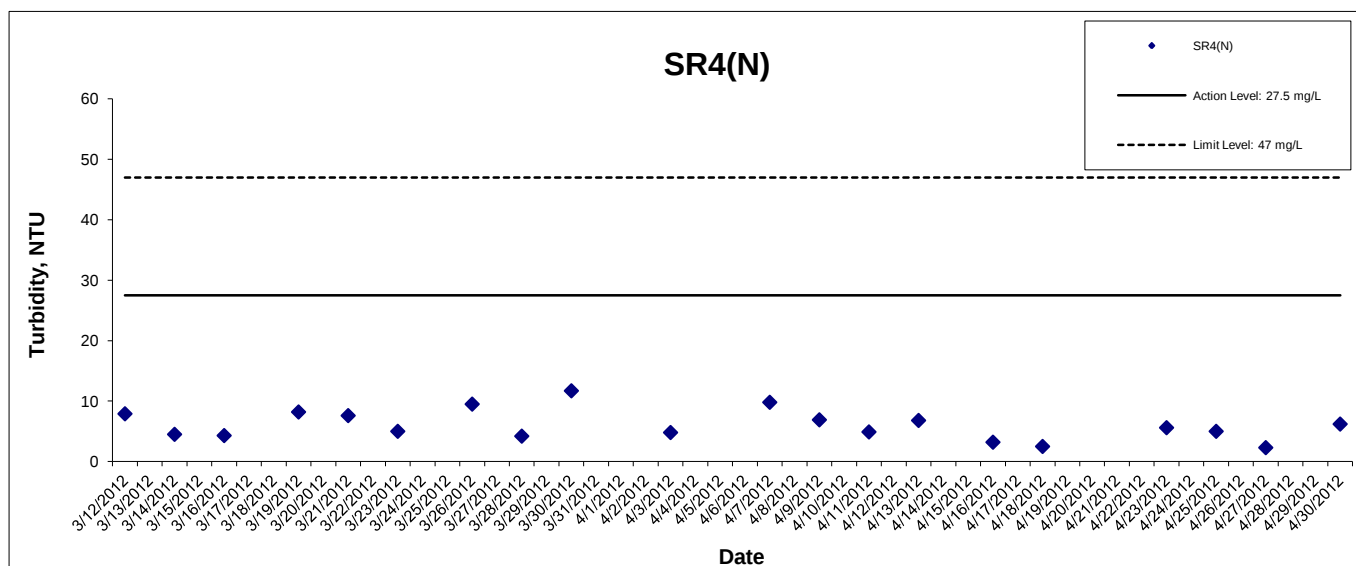


Project No.: 60249820

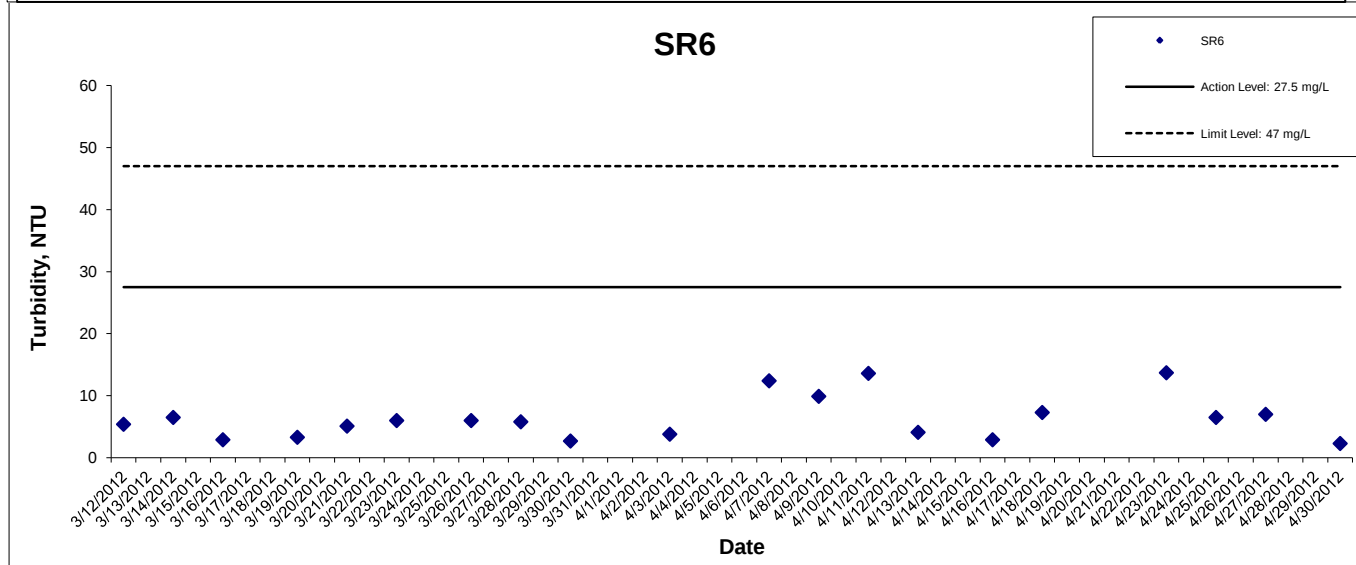
Date: May 2012

Appendix J

Turbidity at Mid-Flood Tide

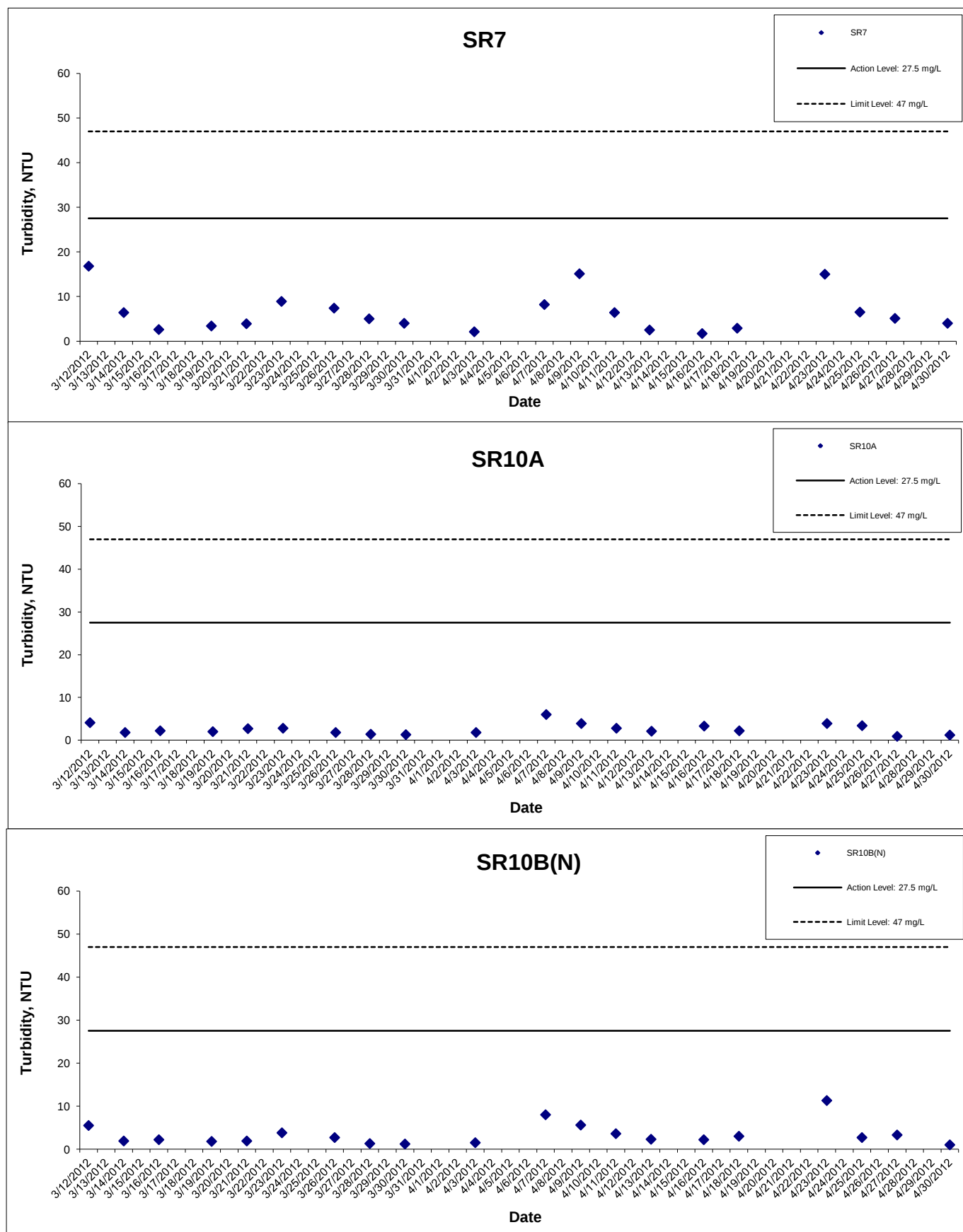


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Turbidity at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

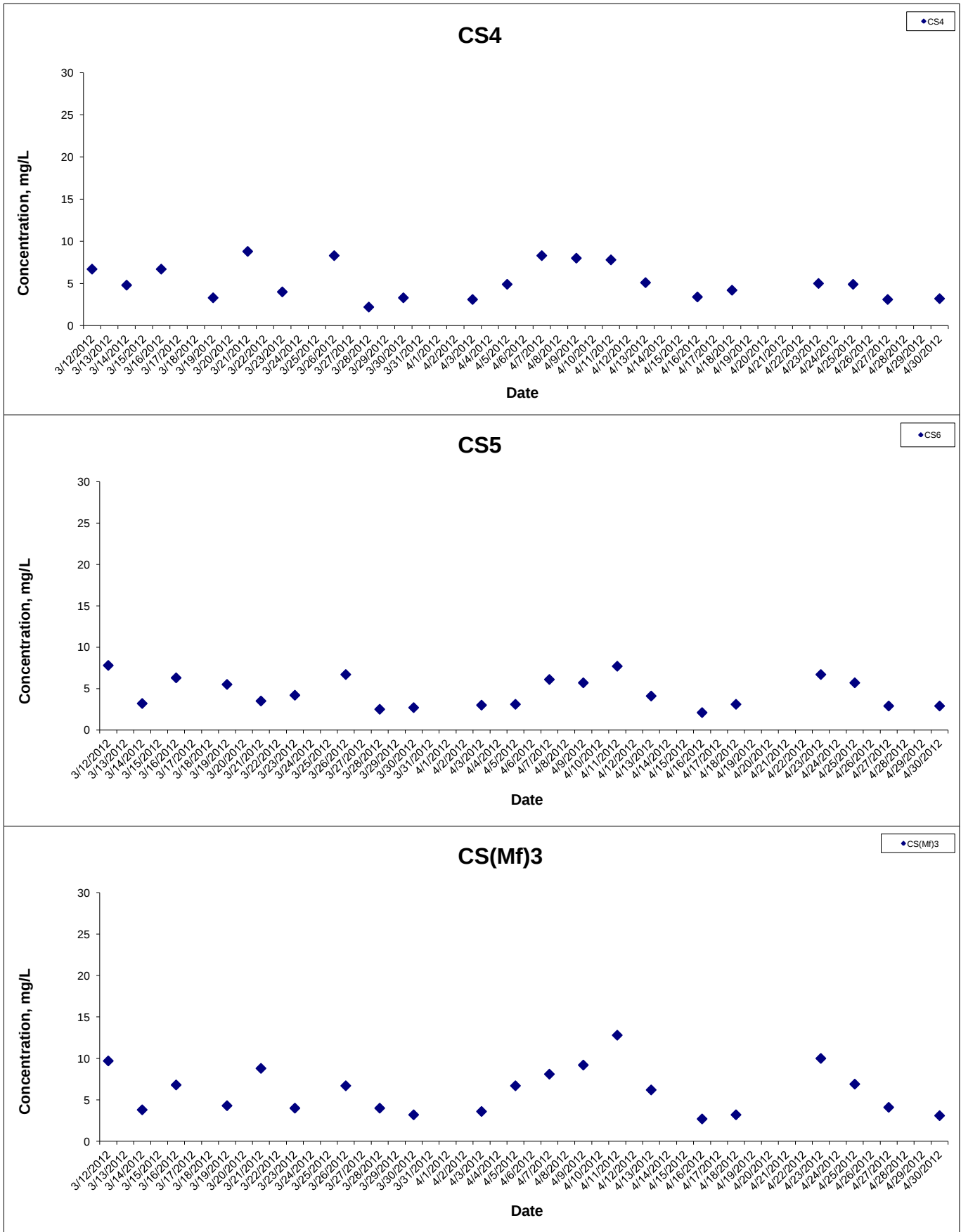
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Date: May 2012

Appendix J

Suspended Solids at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

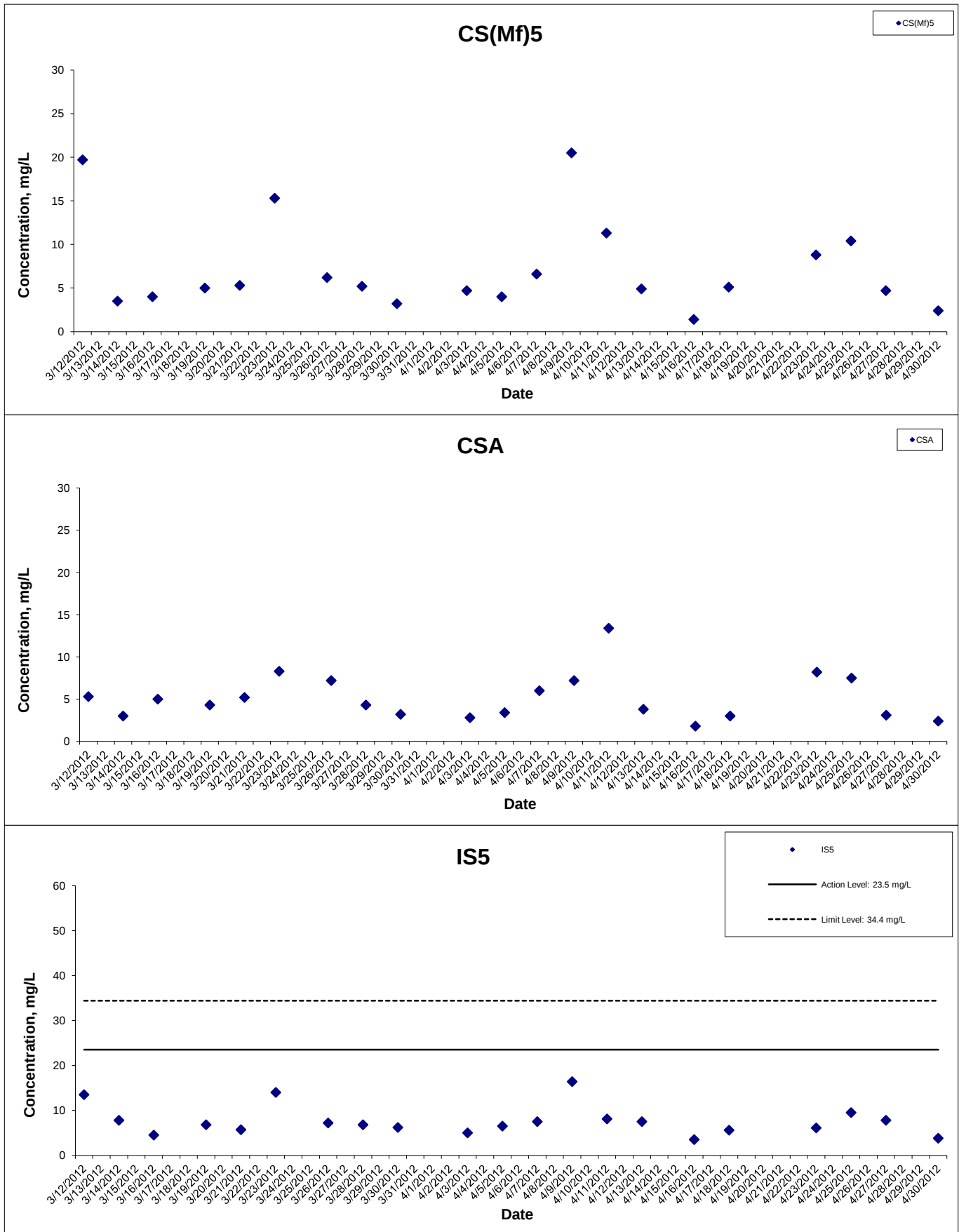
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Project No.: 60249820

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Appendix J

Suspended Solids at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

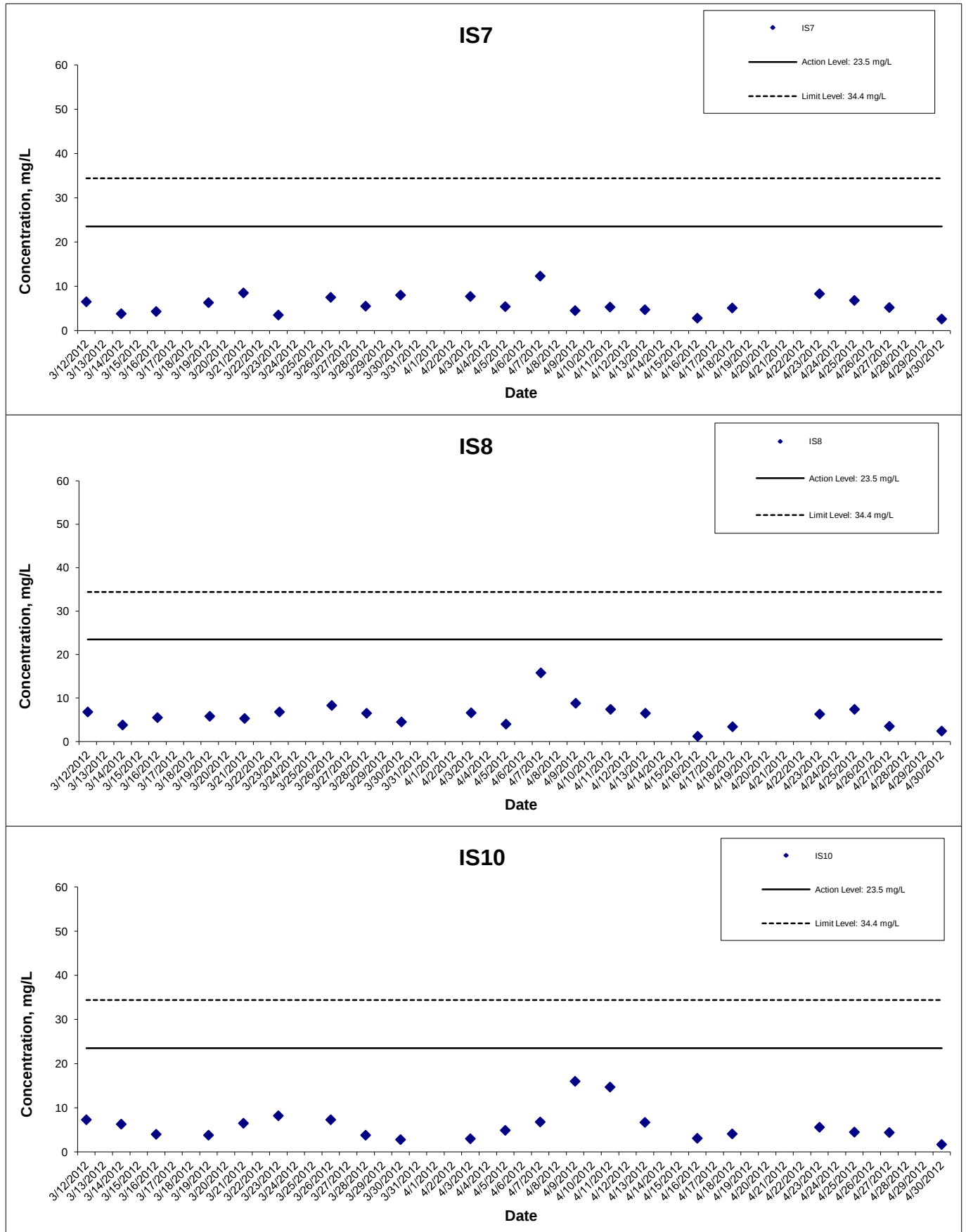
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Appendix J

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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

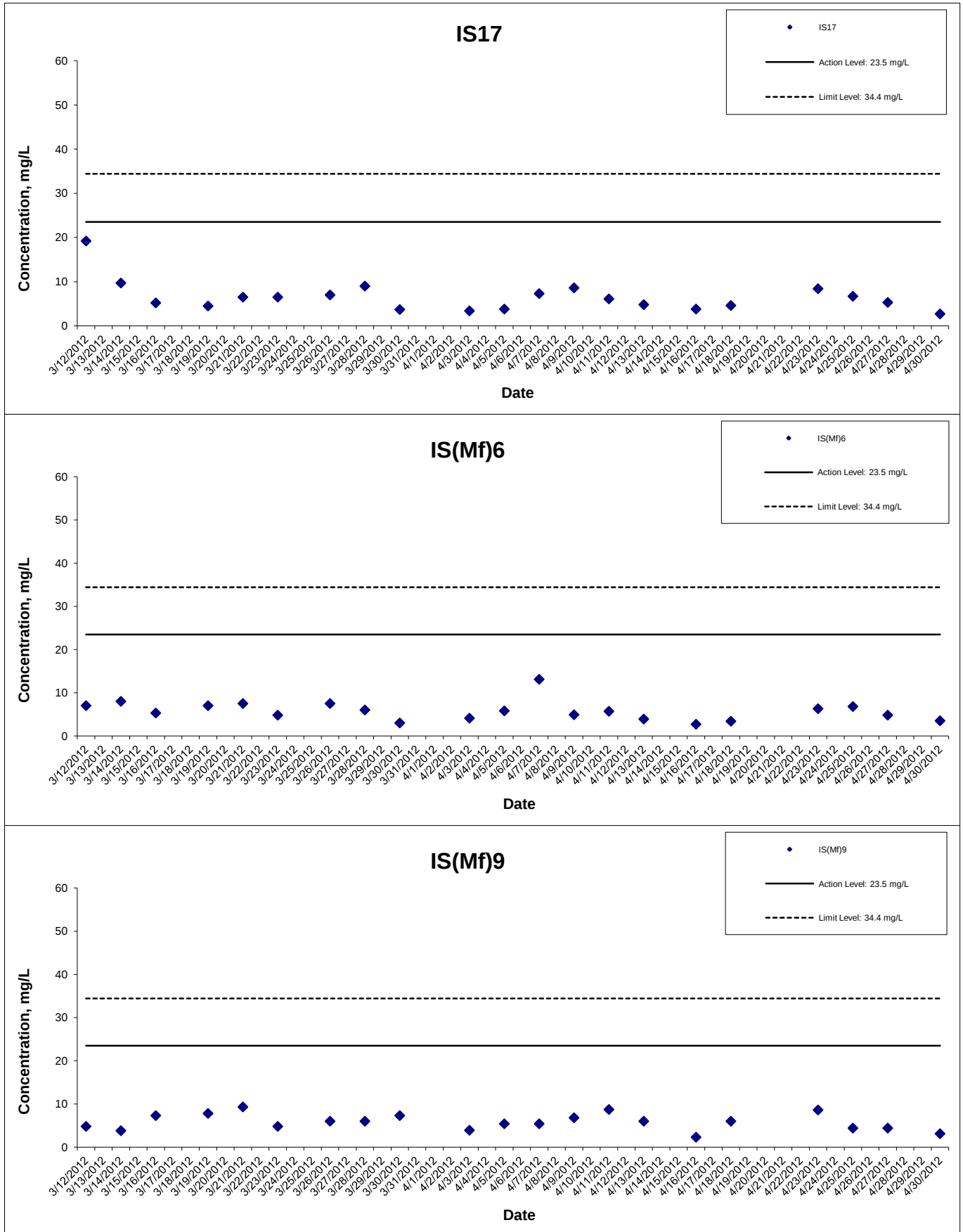
AECOM

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Appendix J

Suspended Solids at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

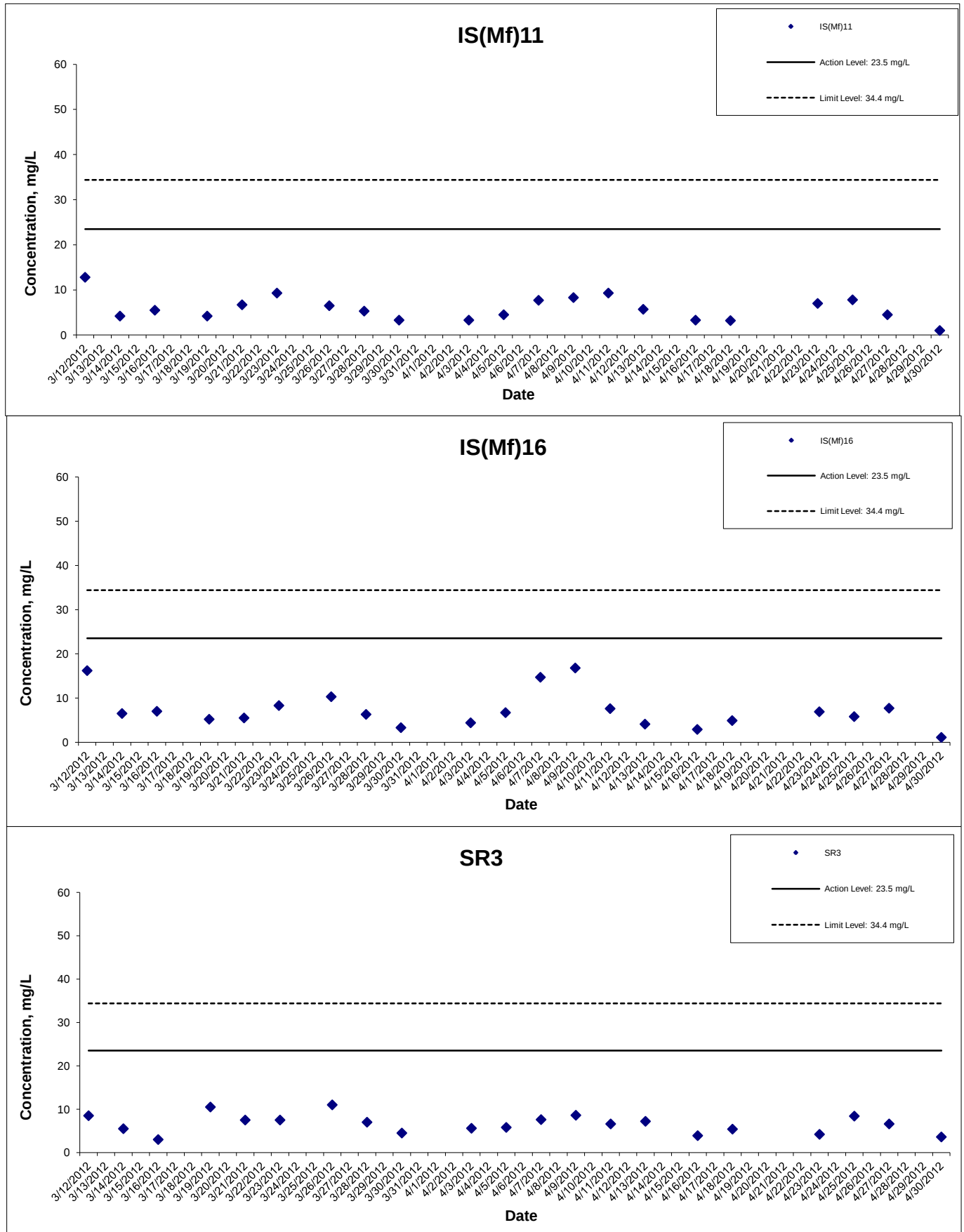
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Appendix J

Suspended Solids at Mid-Ebb Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

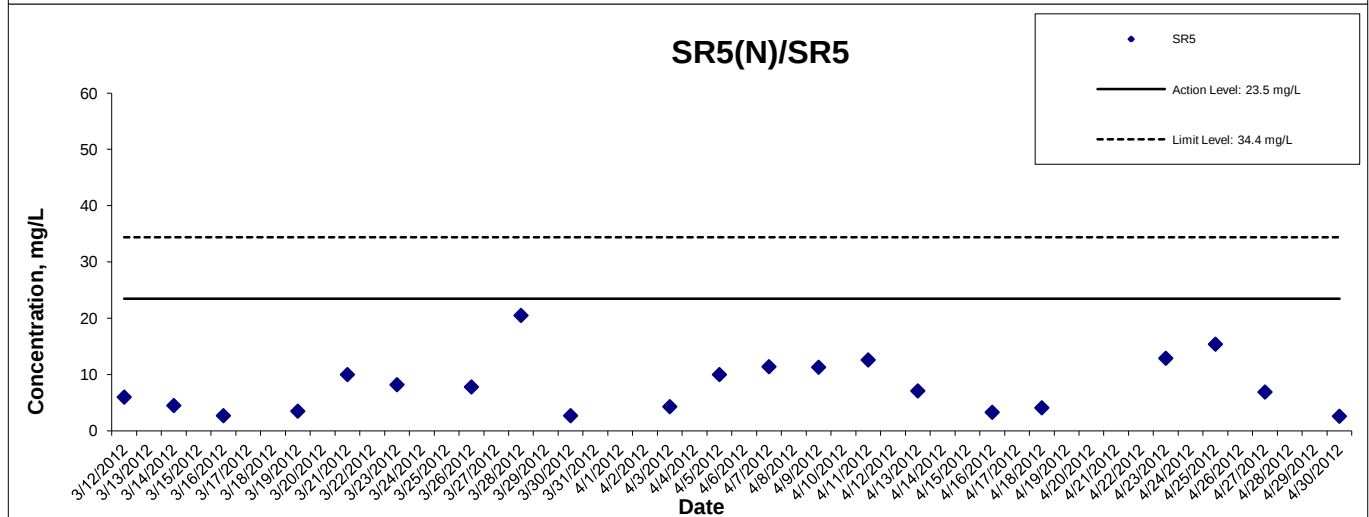
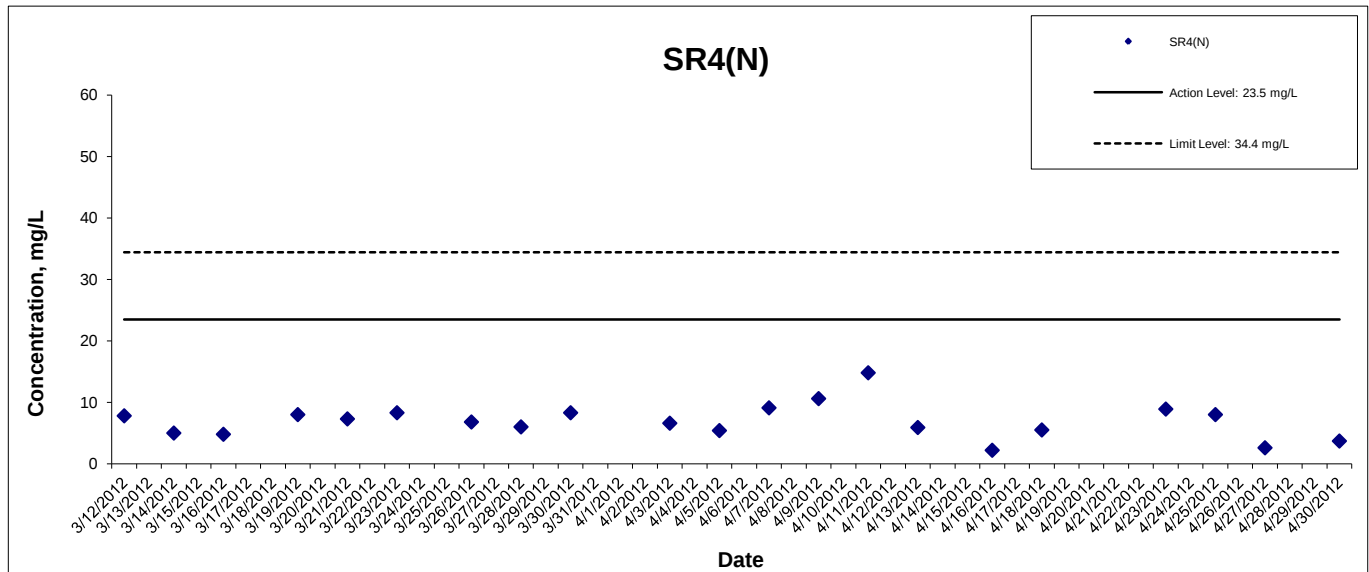
AECOM

Project No.: 60249820

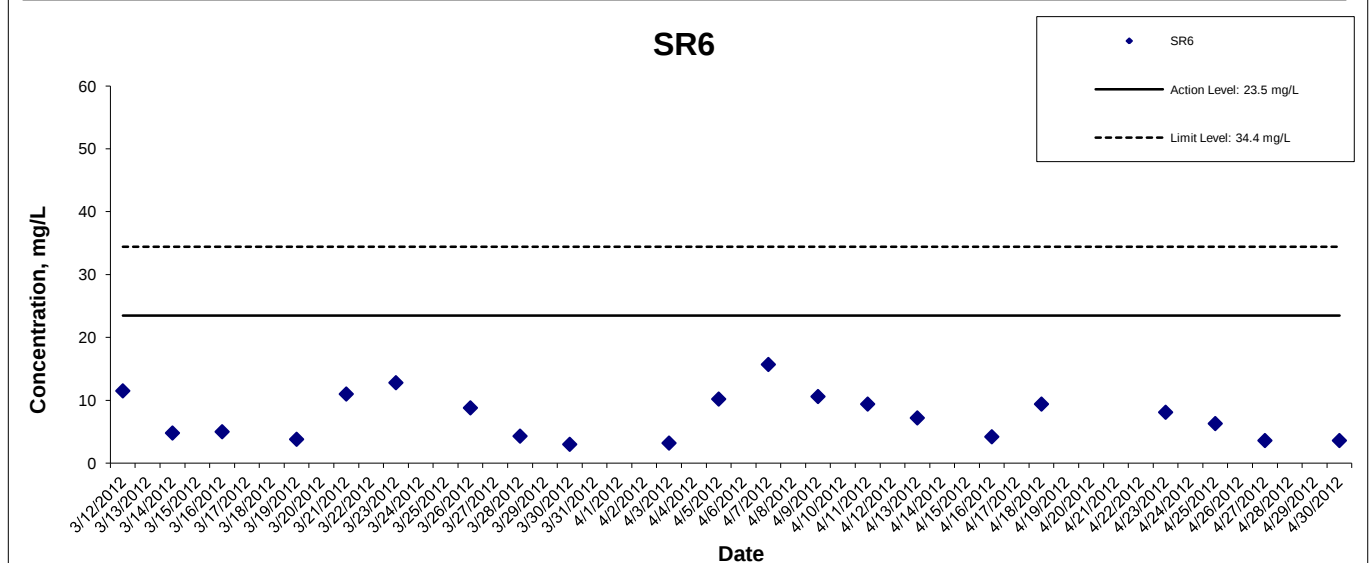
Date: May 2012

Appendix J

Suspended Solids at Mid-Ebb Tide



Due to safety concern and presence of Airport Approach Restricted Areas, alternative impact water quality monitoring station SR5(N) was adopted, which is in vicinity of SR5 and could be reachable, for the period from 12 to 28 March 2012.



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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

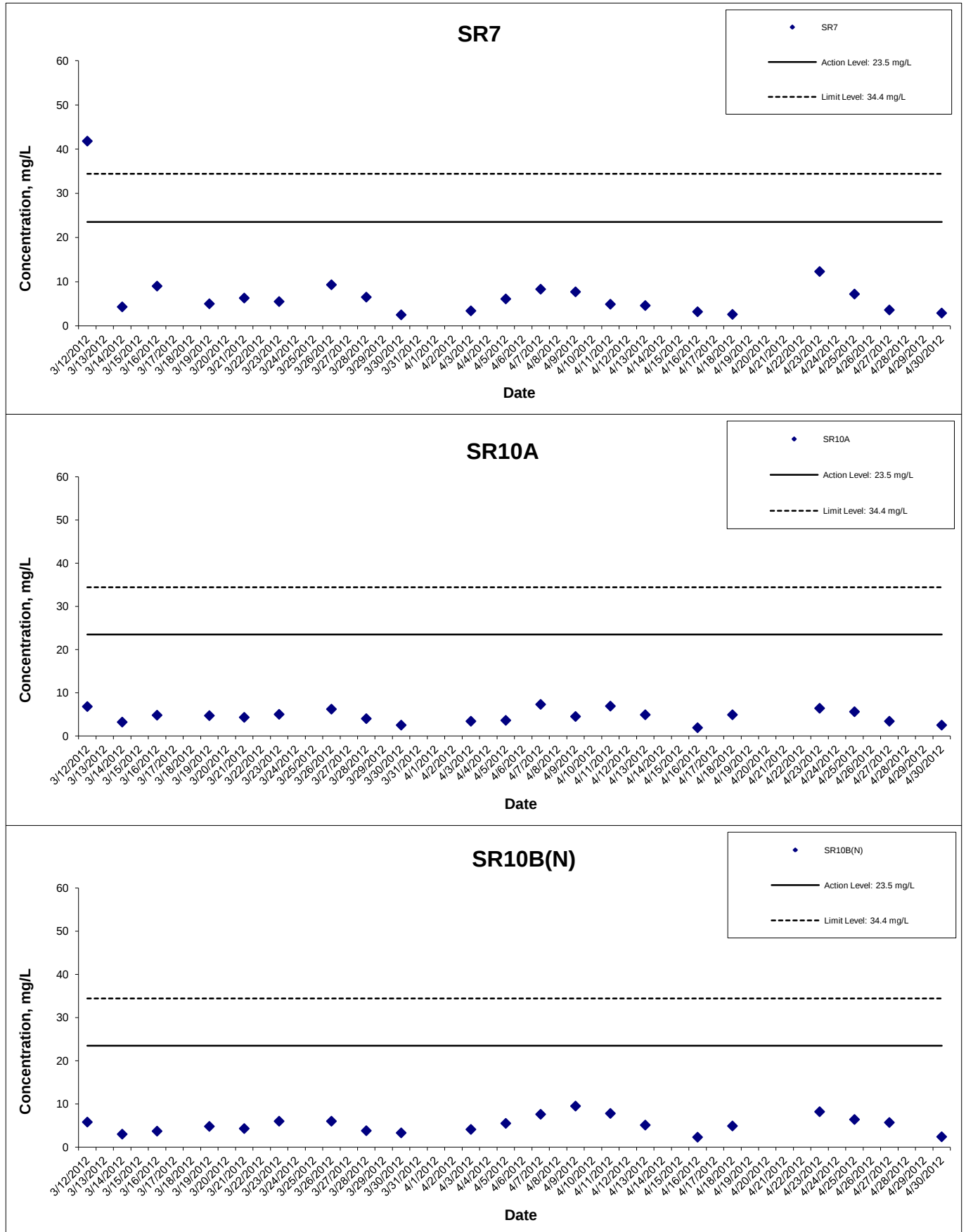
AECOM

Project No.: 60249820

Date: May 2012

Appendix J

Suspended Solids at Mid-Ebb Tide



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HONG KONG BOUNDARY CORSSING FACILITIES
- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

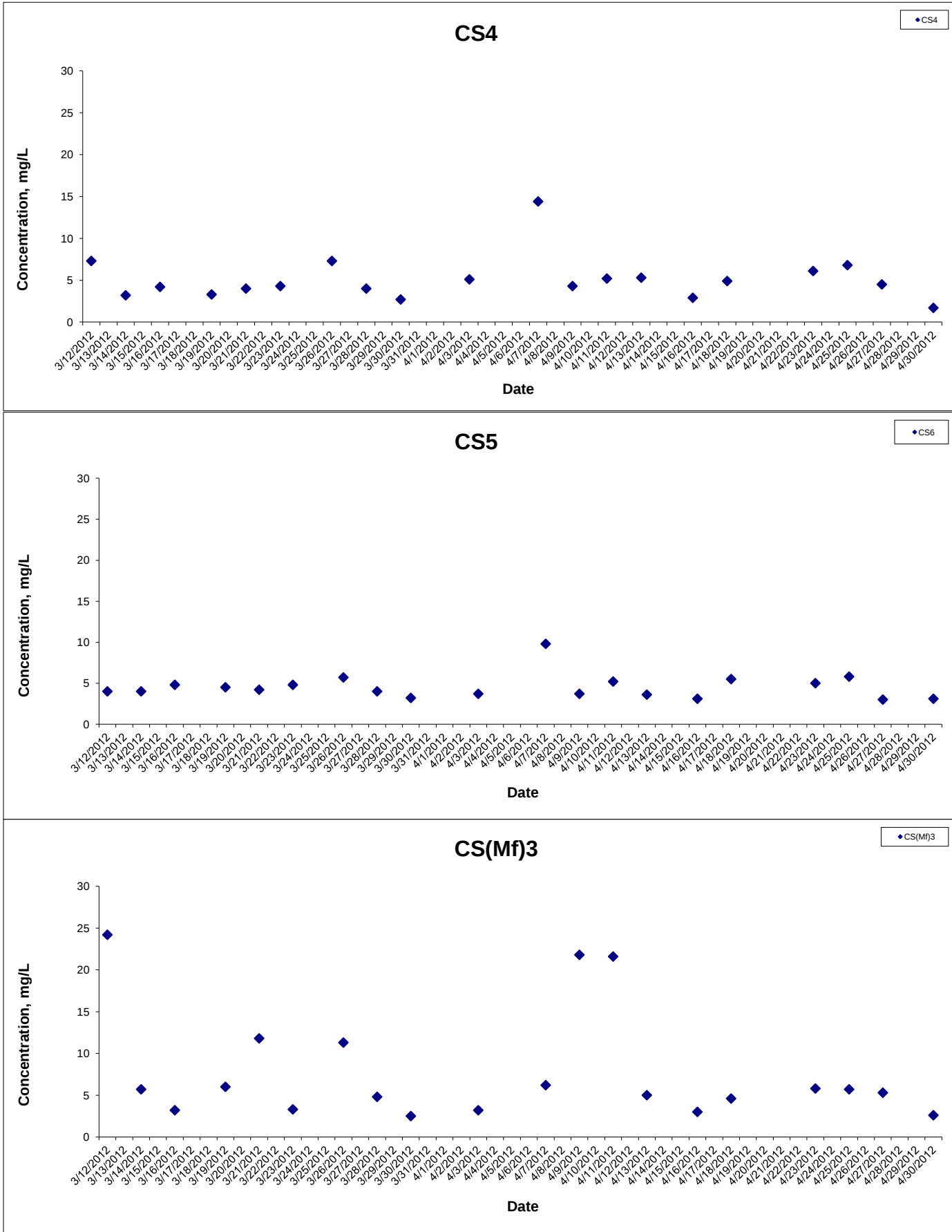
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Project No.: 60249820

Date: May 2012

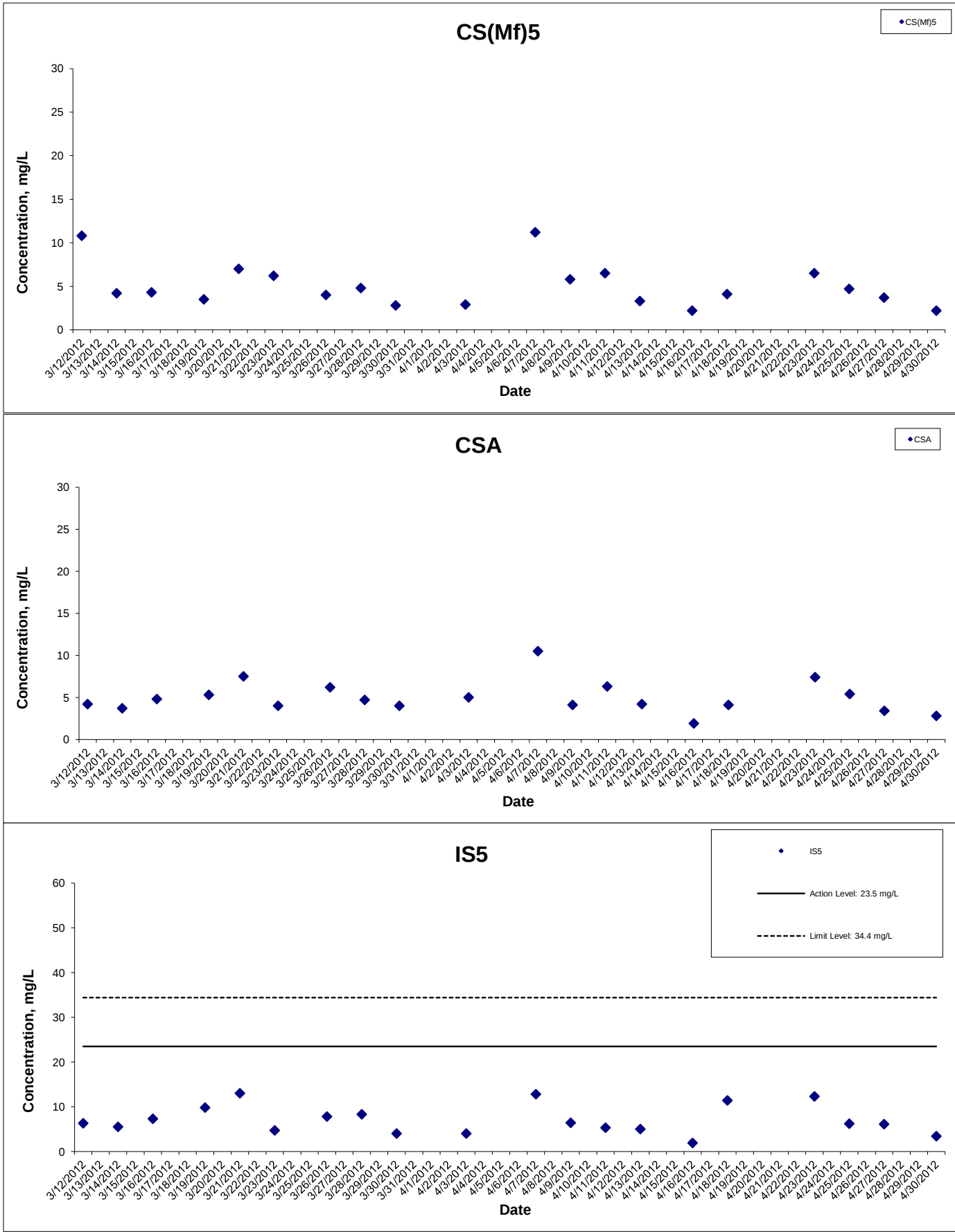
Appendix J

Suspended Solids at Mid-Flood Tide



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Suspended Solids at Mid-Flood Tide



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HONG KONG - ZHUHAI - MACAO BRIDGE

HONG KONG BOUNDARY CORSSING FACILITIES

- RECLAMATION WORKS

Graphical Presentation of Impact Water Quality
Monitoring Results

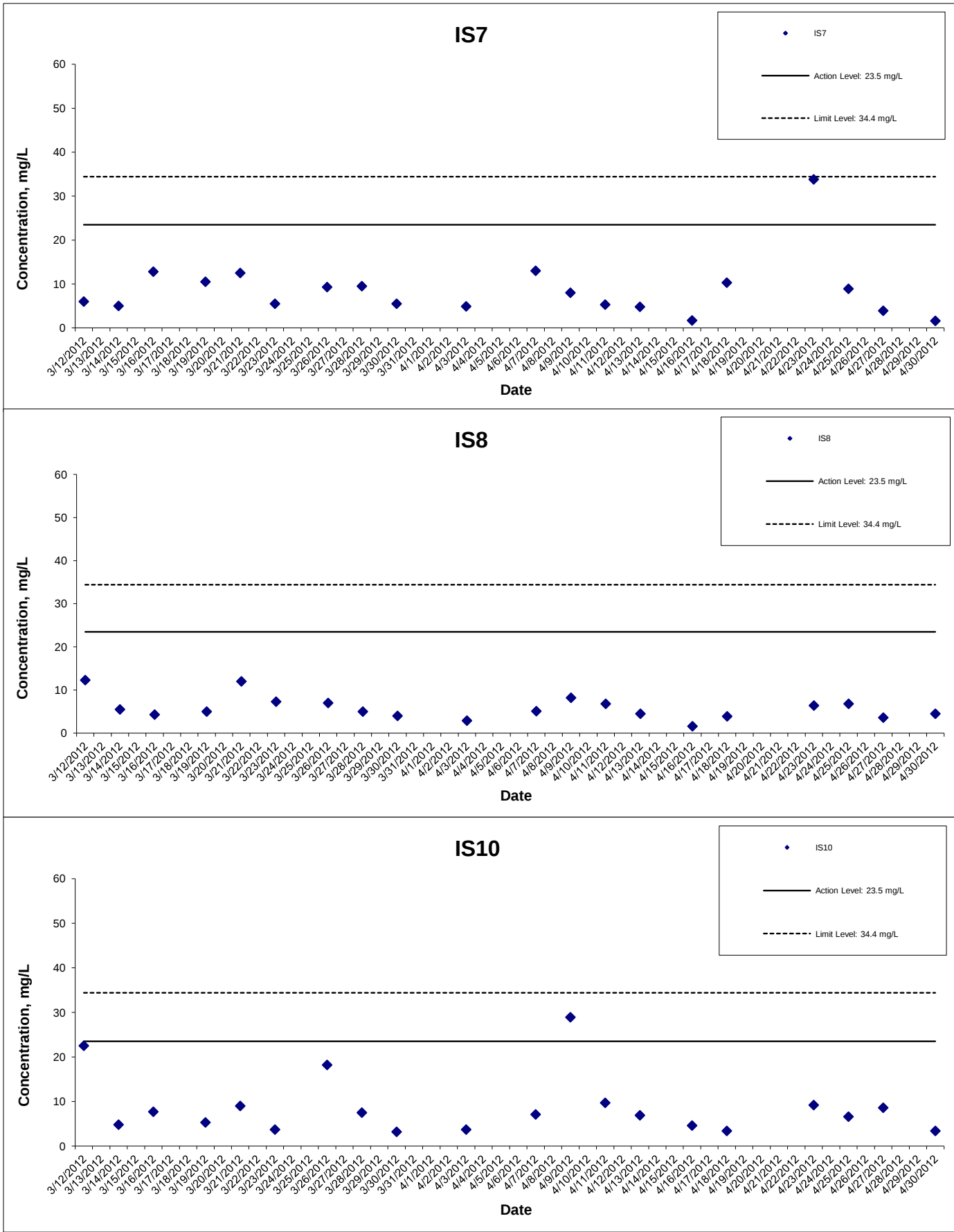


Project No.: 60249820

Date: May 2012

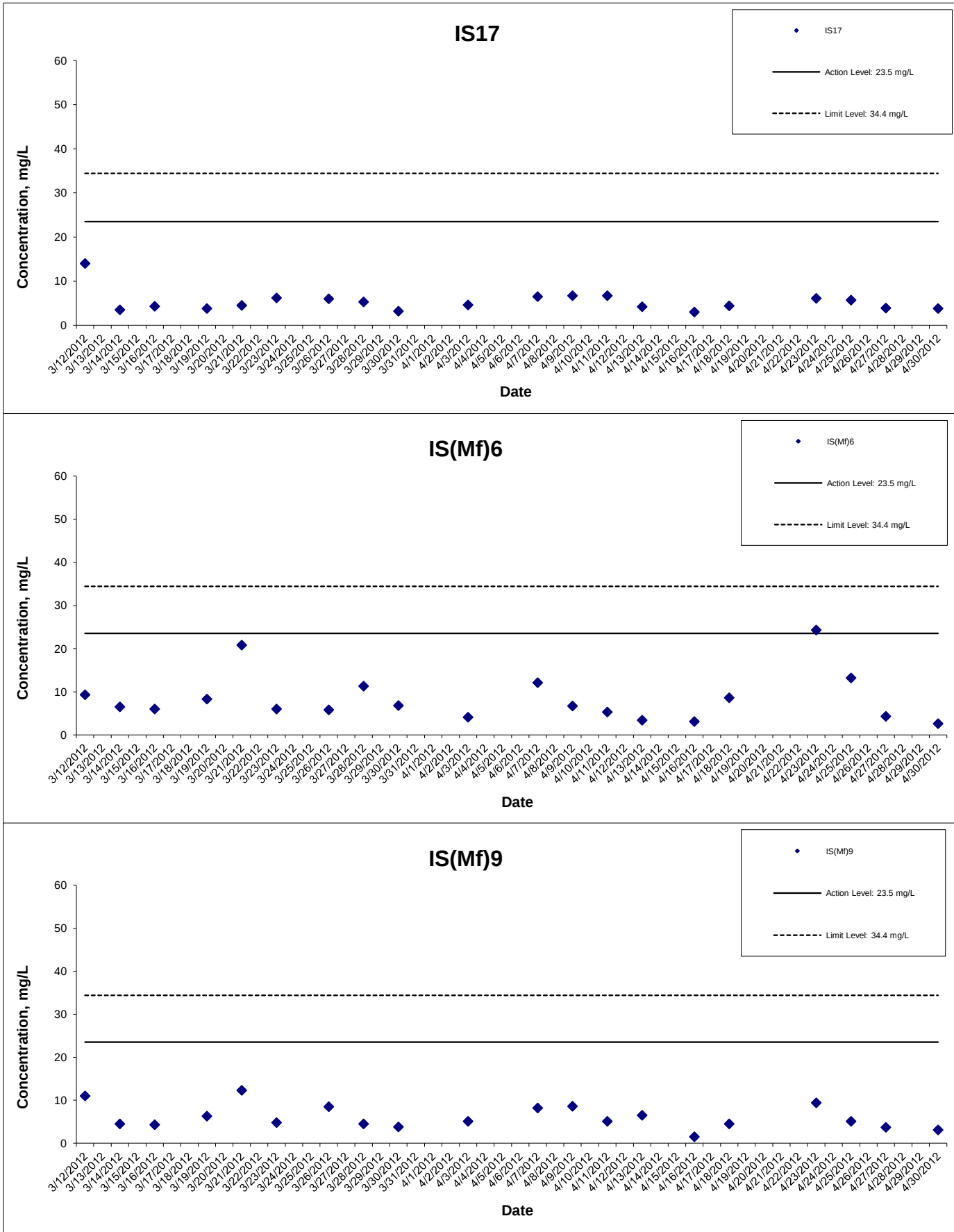
Appendix J

Suspended Solids at Mid-Flood Tide



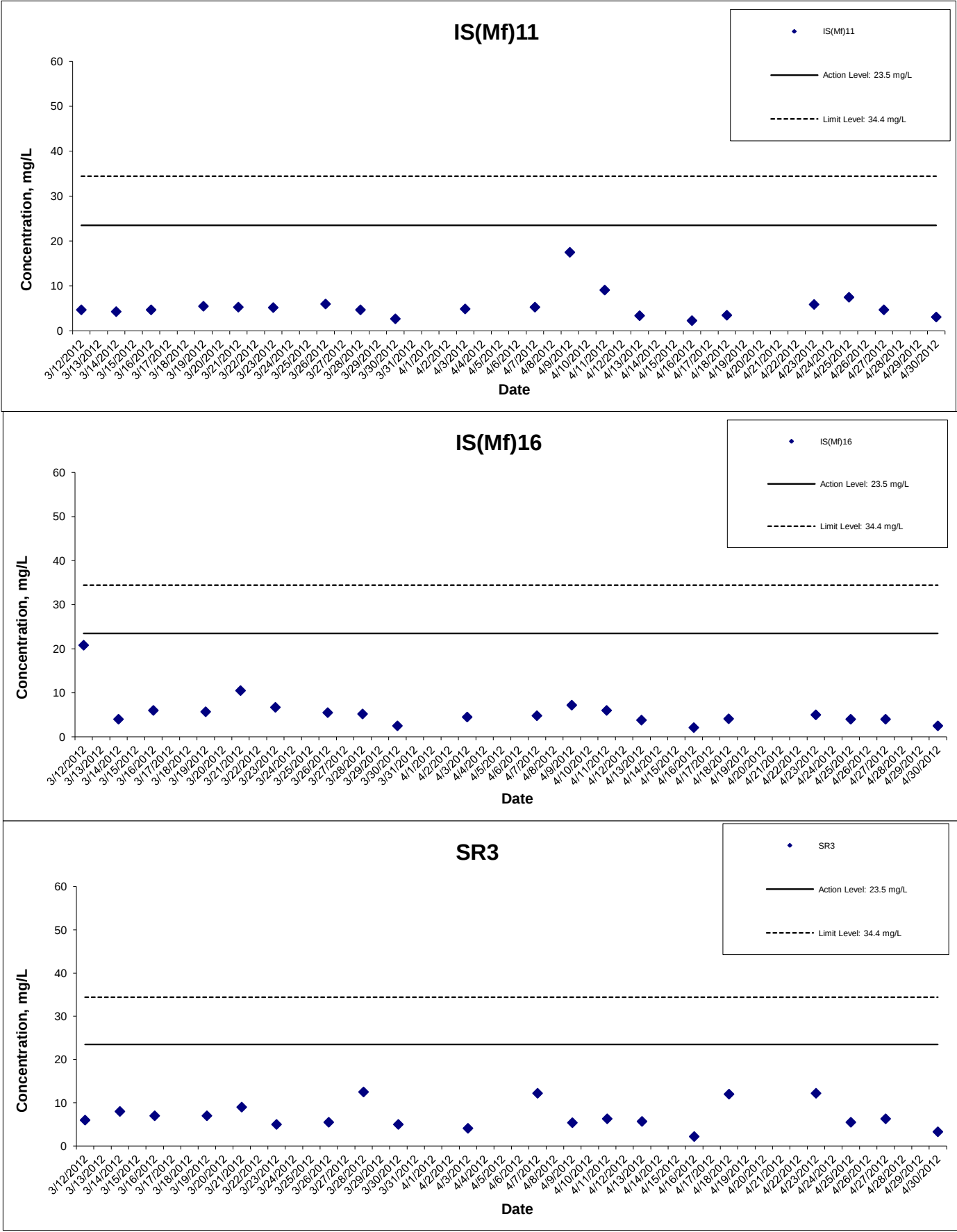
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Suspended Solids at Mid-Flood Tide



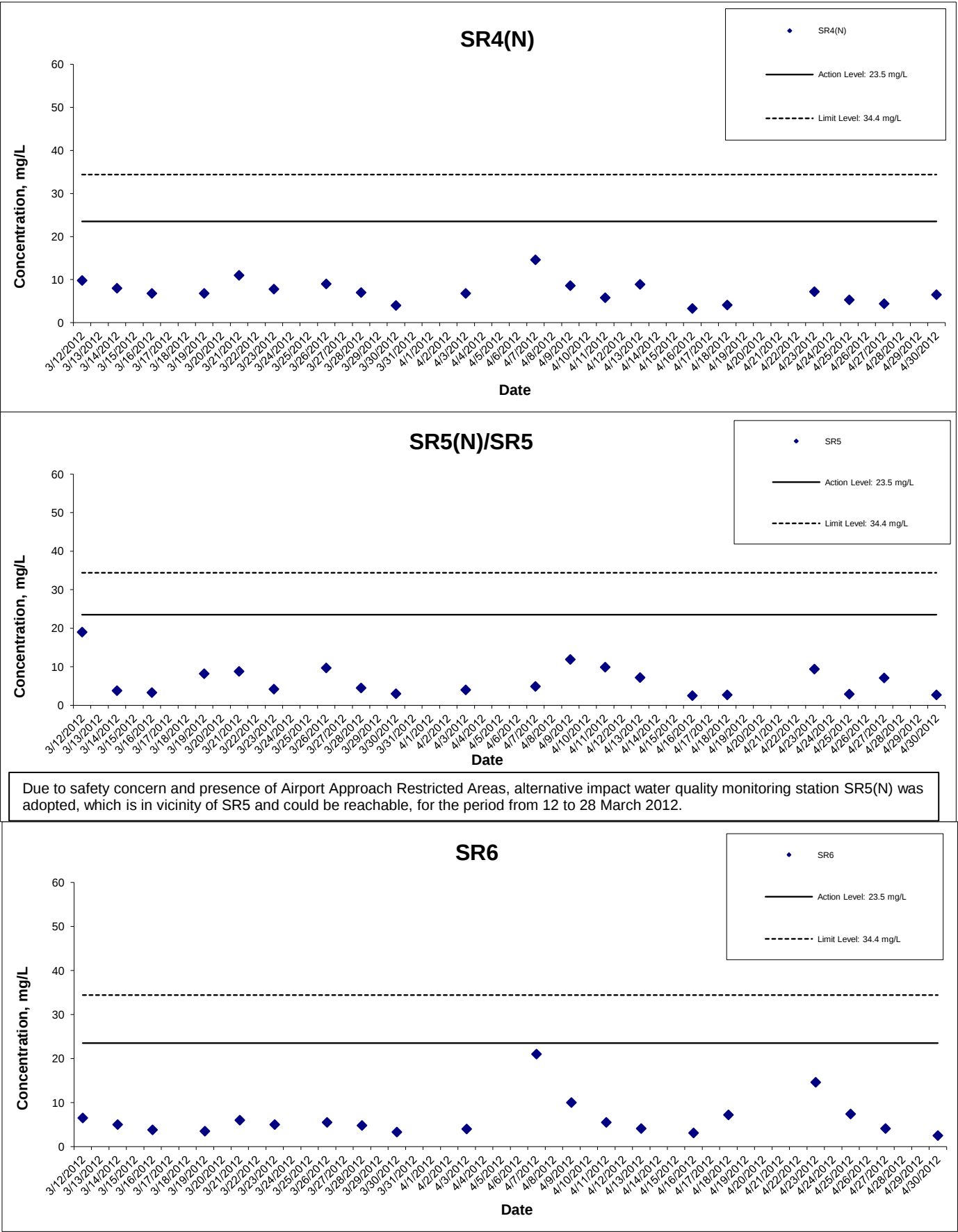
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Suspended Solids at Mid-Flood Tide



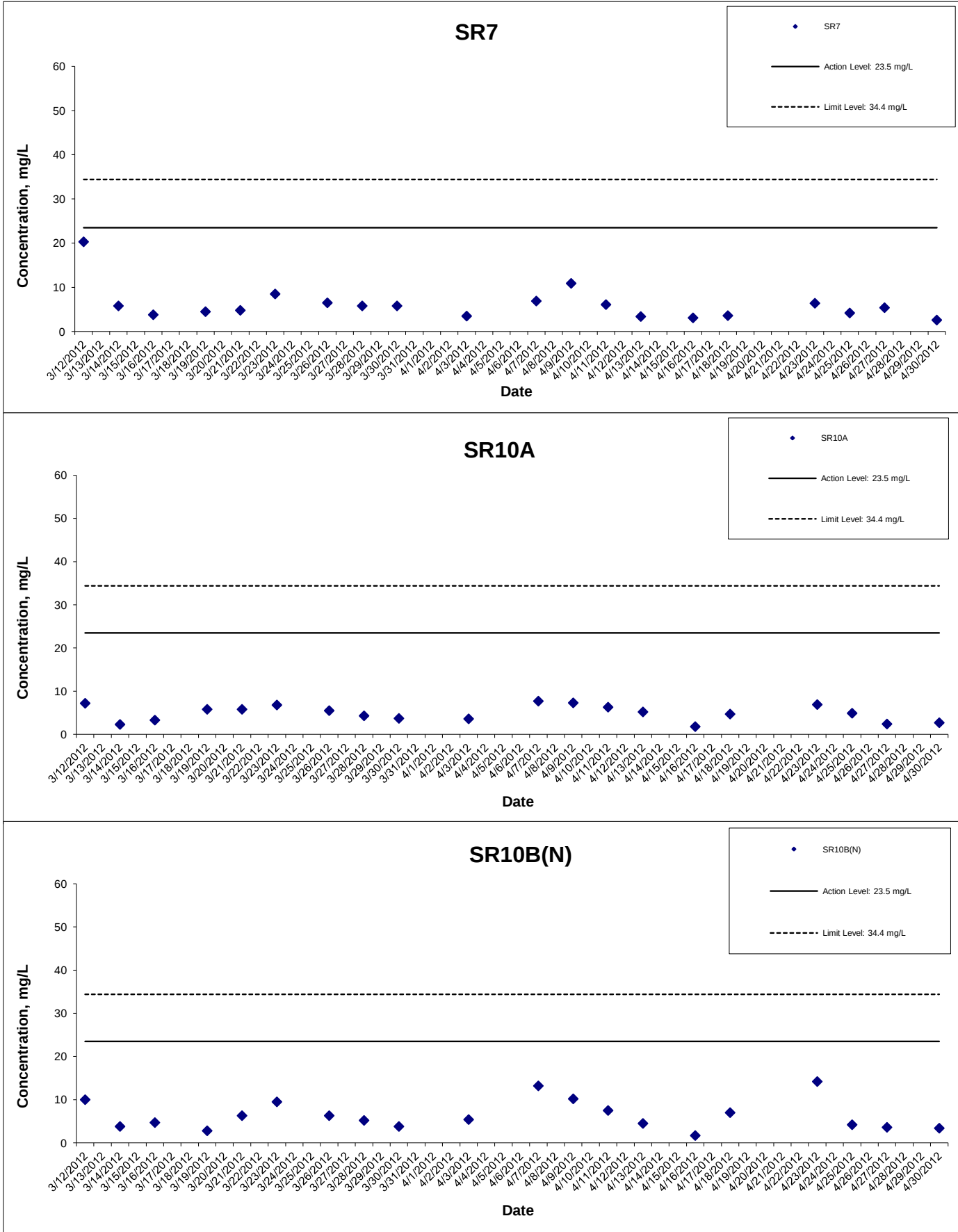
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