

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 02 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	10:57	Surface	0.9	26.2 26.1	26.2	8.4 8.4	8.4	31.7 31.9	31.8	91.0 88.0	89.5	7.0 6.7	6.8	6.8	2.3 2.7	2.5	3.1	6.7 7.1	6.9	12.5
				Middle	8.9	26.0 26.0	26.0	8.4 8.4	8.4	32.5 32.5	32.5	87.8 87.4	87.6	6.7 6.7	6.7	6.7	3.4 3.2	3.3		7.2 7.4	7.3	
				Bottom	17.0	25.7 25.4	25.6	8.5 8.4	8.5	33.5 34.4	34.0	88.2 88.1	88.2	6.8 6.7	6.7	6.7	3.3 3.7	3.5		23.2 23.5	23.4	
C2	Sunny	Calm	10:00	Surface	1.0	26.5 26.4	26.4	8.6 8.6	8.6	30.7 30.8	30.7	91.5 88.5	90.0	7.0 6.8	6.9	6.8	2.9 3.2	3.1	4.7	41.4 40.6	41.0	33.6
				Middle	15.9	25.9 25.8	25.8	8.6 8.6	8.6	32.9 33.1	33.0	86.8 87.6	87.2	6.7 6.7	6.7	6.7	5.4 5.3	5.4		28.6 29.7	29.2	
				Bottom	31.0	25.8 25.8	25.8	8.6 8.6	8.6	33.1 33.1	33.1	87.2 87.6	87.4	6.7 6.7	6.7	6.7	5.6 5.4	5.5		31.1 30.1	30.6	
G1	Sunny	Calm	10:26	Surface	0.9	26.1 26.1	26.1	8.5 8.4	8.5	32.2 32.3	32.2	100.3 96.6	98.5	7.6 7.3	7.4	7.4	1.7 1.9	1.8	1.8	33.6 33.4	33.5	17.5
				Middle	3.9	26.1 26.1	26.1	8.5 8.4	8.5	32.5 32.6	32.5	95.7 97.0	96.4	7.3 7.3	7.3	7.3	1.5 1.8	1.6		11.7 11.3	11.5	
				Bottom	7.0	26.0 26.0	26.0	8.5 8.4	8.4	32.9 32.8	32.9	94.7 95.2	95.0	7.2 7.2	7.2	7.2	1.8 2.1	1.9		7.6 7.4	7.5	
G2	Sunny	Calm	10:17	Surface	1.0	26.2 26.1	26.1	8.6 8.6	8.6	32.6 32.8	32.7	98.9 94.4	96.7	7.5 7.2	7.3	7.3	2.4 2.3	2.3	2.3	5.8 5.8	5.8	14.0
				Middle	5.0	26.1 26.0	26.0	8.5 8.6	8.6	32.8 33.0	32.9	96.4 93.7	95.1	7.3 7.1	7.2	7.2	2.3 2.1	2.2		7.1 7.2	7.2	
				Bottom	8.9	25.9 25.9	25.9	8.6 8.5	8.5	33.2 33.2	33.2	93.7 92.6	93.2	7.1 7.0	7.1	7.1	2.6 2.3	2.4		29.0 29.1	29.1	
G3	Sunny	Calm	10:29	Surface	1.0	26.4 26.0	26.2	8.5 8.5	8.5	31.3 31.6	31.4	99.9 96.7	98.3	7.5 7.4	7.5	7.4	1.8 2.0	1.9	1.6	28.5 27.9	28.2	17.4
				Middle	4.0	26.0 26.0	26.0	8.5 8.5	8.5	32.7 32.7	32.7	98.7 96.8	97.8	7.5 7.3	7.4	7.4	1.2 1.2	1.2		15.6 15.2	15.4	
				Bottom	7.0	25.9 25.9	25.9	8.5 8.5	8.5	33.1 33.0	33.0	91.1 90.6	90.9	6.9 6.9	6.9	6.9	1.7 1.6	1.6		8.4 8.8	8.6	
G4	Sunny	Calm	10:40	Surface	1.0	26.0 26.3	26.2	8.3 8.3	8.3	32.2 31.2	31.7	98.7 100.7	99.7	7.5 7.6	7.5	7.4	2.8 2.4	2.6	2.9	10.9 10.9	10.9	8.7
				Middle	4.5	26.0 26.0	26.0	8.3 8.3	8.3	32.6 32.8	32.7	96.9 96.6	96.8	7.3 7.3	7.3	7.3	2.7 2.8	2.8		5.2 5.2	5.2	
				Bottom	7.0	25.9 25.9	25.9	8.3 8.3	8.3	33.0 33.2	33.1	91.8 90.0	90.9	7.0 6.9	6.9	6.9	3.0 3.6	3.3		10.1 9.7	9.9	
M1	Sunny	Calm	10:21	Surface	1.0	26.4 26.0	26.2	8.5 8.5	8.5	31.8 32.8	32.3	99.9 92.3	96.1	7.5 7.0	7.3	7.2	3.1 3.3	3.2	3.2	5.1 4.9	5.0	6.1
				Middle	3.0	26.2 26.1	26.1	8.5 8.5	8.5	32.3 32.6	32.4	96.6 93.1	94.9	7.3 7.1	7.2	7.2	3.0 3.0	3.0		5.5 5.7	5.6	
				Bottom	4.9	26.0 26.0	26.0	8.5 8.5	8.5	32.9 32.8	32.9	92.1 91.8	92.0	7.0 7.0	7.0	7.0	3.3 3.7	3.5		7.9 7.6	7.8	
M2	Sunny	Calm	10:13	Surface	0.9	26.3 26.0	26.1	8.6 8.6	8.6	32.4 33.0	32.7	100.4 94.1	97.3	7.6 7.1	7.3	7.3	1.3 1.3	1.3	1.6	4.6 4.8	4.7	4.9
				Middle	6.0	25.9 26.0	26.0	8.7 8.6	8.6	33.1 32.9	33.0	95.3 95.7	95.5	7.2 7.2	7.2	7.2	0.7 0.9	0.8		4.5 4.6	4.6	
				Bottom	11.0	25.7 25.7	25.7	8.7 8.6	8.6	33.8 34.0	33.9	92.9 90.8	91.9	7.1 6.9	7.0	7.0	2.6 3.0	2.8		5.6 5.4	5.5	
M3	Sunny	Calm	10:36	Surface	1.0	26.1 26.0	26.0	8.4 8.4	8.4	31.8 32.7	32.2	98.7 95.1	96.9	7.5 7.2	7.3	7.2	3.1 2.8	2.9	2.8	4.3 4.3	4.3	4.9
				Middle	3.9	26.0 26.0	26.0	8.4 8.4	8.4	32.7 32.7	32.7	92.5 90.9	91.7	7.0 6.9	7.0	7.0	2.5 2.7	2.6		3.7 3.5	3.6	
				Bottom	7.0	25.9 25.9	25.9	8.4 8.4	8.4	33.0 33.2	33.1	91.7 89.2	90.5	7.0 6.8	6.9	6.9	3.1 3.0	3.0		6.8 7.0	6.9	
M4	Sunny	Calm	10:07	Surface	1.0	26.4 26.1	26.2	8.6 8.6	8.6	31.5 32.0	31.7	93.2 87.4	90.3	7.1 6.7	6.9	6.8	3.9 3.7	3.8	3.8	10.2 10.3	10.3	17.8
				Middle	4.9	26.0 26.0	26.0	8.6 8.6	8.6	32.2 32.4	32.3	87.8 87.6	87.7	6.7 6.7	6.7	6.7	3.4 3.8	3.6		9.8 9.7	9.8	
				Bottom	8.9	25.9 26.0	26.0	8.6 8.6	8.6	32.7 32.7	32.7	89.4 89.4	89.4	6.8 6.8	6.8	6.8	4.2 3.8	4.0		33.2 33.7	33.5	
M5	Sunny	Calm	10:52	Surface	1.0	26.3 26.1	26.2	8.4 8.4	8.4	32.0 32.1	32.0	94.3 88.4	91.4	7.2 6.8	7.0	6.9	3.0 2.7	2.8	2.6	12.1 12.4	12.3	21.8
				Middle	6.0	26.1 26.1	26.1	8.4 8.4	8.4	32.1 32.2	32.1	89.9 88.2	89.1	6.9 6.8	6.8	6.8	2.7 2.3	2.5		28.2 28.9	28.6	
				Bottom	11.0	26.1 26.1	26.1	8.4 8.4	8.4	32.1 32.2	32.2	88.4 88.2	88.3	6.8 6.8	6.8	6.8	2.4 2.7	2.6		25.2 24.1	24.7	
M6	Sunny	Calm	10:45	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	24.4	
				Middle	2.0	26.2 26.0	26.1	8.3 8.3	8.3	31.9 32.7	32.3	100.1 96.9	98.5	7.6 7.3	7.4	7.4	1.8 2.0		1.9	24.4 24.3		24.4
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 2 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 6.6 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 7.2 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 49.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 53.3 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 49.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 53.3 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 36.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 39.8 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 02 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	17:16	Surface	1.1	26.0 26.0	26.0	8.4 8.4	8.4	32.8 32.8	32.8	97.2 92.9	95.1	7.2 6.9	7.1	7.0	1.8 1.8	1.8	3.4	5.0 5.0	5.0	6.0
				Middle	8.5	25.7 25.8	25.7	8.5 8.5	8.5	33.6 33.4	33.5	93.7 93.0	93.4	7.0 6.9	7.0		1.9 1.9	1.9		6.6 6.7	6.7	
				Bottom	16.1	25.7 25.7	25.7	8.5 8.5	8.5	33.7 33.7	33.7	93.3 92.9	93.1	7.0 6.9	6.9		6.5 6.5	6.5		6.3 6.5	6.4	
C2	Sunny	Calm	16:15	Surface	1.1	26.0 26.0	26.0	8.6 8.7	8.6	32.0 32.0	32.0	92.2 91.4	91.8	6.9 6.8	6.9	6.9	2.3 2.3	2.3	2.2	8.9 8.5	8.7	18.5
				Middle	16.5	25.7 25.7	25.7	8.6 8.6	8.6	33.8 33.6	33.7	92.4 92.5	92.5	6.9 6.9	6.9		2.1 2.1	2.1		21.6 21.5	21.6	
				Bottom	31.0	25.7 25.6	25.7	8.6 8.6	8.6	33.6 33.9	33.8	92.4 92.2	92.3	6.9 6.9	6.9		2.1 2.1	2.1		25.1 25.4	25.3	
G1	Sunny	Calm	16:41	Surface	1.0	25.9 25.9	25.9	8.6 8.6	8.6	33.0 33.0	33.0	98.8 97.3	98.1	7.3 7.2	7.3	7.3	1.6 1.6	1.6	1.6	21.0 21.5	21.3	17.6
				Middle	3.7	25.9 25.9	25.9	8.6 8.6	8.6	33.0 33.0	33.0	97.9 97.5	97.7	7.3 7.2	7.2		1.7 1.7	1.7		24.7 25.6	25.2	
				Bottom	6.5	25.9 25.9	25.9	8.6 8.6	8.6	33.1 33.1	33.1	97.0 96.7	96.9	7.2 7.2	7.2		1.4 1.8	1.6		6.3 6.4	6.4	
G2	Sunny	Calm	16:30	Surface	1.0	25.8 25.8	25.8	8.6 8.6	8.6	33.1 33.3	33.2	103.0 95.9	99.5	7.6 7.1	7.4	7.3	1.8 1.7	1.7	1.5	9.4 9.7	9.6	19.3
				Middle	5.1	25.8 25.8	25.8	8.7 8.6	8.6	33.2 33.2	33.2	98.4 96.6	97.5	7.3 7.2	7.2		1.3 1.3	1.3		22.5 22.5	22.5	
				Bottom	9.0	25.6 25.7	25.7	8.6 8.6	8.6	34.0 33.8	33.9	94.9 94.9	94.9	7.1 7.1	7.1		1.5 1.5	1.5		26.1 25.6	25.9	
G3	Sunny	Calm	16:46	Surface	1.1	25.9 25.9	25.9	8.5 8.5	8.5	31.9 32.7	32.3	95.9 93.7	94.8	7.2 7.0	7.1	7.0	1.6 1.7	1.6	1.5	27.4 28.9	28.2	13.9
				Middle	3.7	25.9 26.0	25.9	8.5 8.5	8.5	33.0 32.6	32.8	93.8 93.4	93.6	7.0 7.0	7.0		1.3 1.3	1.3		9.8 9.7	9.8	
				Bottom	6.5	25.6 25.9	25.8	8.6 8.5	8.5	34.0 33.1	33.6	93.9 93.0	93.5	7.0 6.9	7.0		1.4 1.4	1.4		3.7 3.6	3.7	
G4	Sunny	Calm	16:58	Surface	1.1	26.0 25.9	25.9	8.5 8.5	8.5	31.5 32.5	32.0	100.2 95.2	97.7	7.5 7.1	7.3	7.1	1.7 1.7	1.7	1.5	4.4 4.6	4.5	6.2
				Middle	3.7	25.9 25.9	25.9	8.5 8.5	8.5	32.9 33.1	33.0	93.3 92.6	93.0	7.0 6.9	6.9		0.9 0.9	0.9		4.3 4.2	4.3	
				Bottom	6.5	25.8 25.7	25.7	8.5 8.5	8.5	33.6 33.9	33.7	93.0 93.3	93.2	6.9 6.9	6.9		1.9 2.0	2.0		9.9 9.8	9.9	
M1	Sunny	Calm	16:36	Surface	1.0	26.0 25.9	25.9	8.6 8.6	8.6	32.2 32.9	32.6	98.0 96.2	97.1	7.3 7.2	7.2	7.2	2.0 2.0	2.0	2.1	27.2 27.5	27.4	20.8
				Middle	3.0	25.9 25.9	25.9	8.6 8.6	8.6	32.6 32.8	32.7	97.0 95.9	96.5	7.2 7.1	7.2		2.0 2.0	2.0		26.3 25.2	25.8	
				Bottom	5.0	25.8 25.8	25.8	8.6 8.6	8.6	33.2 33.2	33.2	96.4 96.0	96.2	7.2 7.1	7.2		2.2 2.2	2.2		9.3 9.5	9.4	
M2	Sunny	Calm	16:25	Surface	1.0	25.8 25.8	25.8	8.6 8.6	8.6	33.3 33.3	33.3	99.3 96.1	97.7	7.4 7.1	7.2	7.2	1.1 1.0	1.1	0.9	7.1 7.0	7.1	15.3
				Middle	5.2	25.6 25.8	25.7	8.6 8.6	8.6	34.1 33.6	33.8	94.9 95.7	95.3	7.1 7.1	7.1		0.9 0.8	0.9		4.8 4.7	4.8	
				Bottom	9.5	25.6 25.6	25.6	8.7 8.7	8.7	34.2 34.2	34.2	94.8 95.0	94.9	7.1 7.1	7.1		0.9 0.9	0.9		33.6 34.6	34.1	
M3	Sunny	Calm	16:54	Surface	1.0	25.9 25.9	25.9	8.5 8.5	8.5	31.6 33.0	32.3	96.0 93.1	94.6	7.2 6.9	7.1	7.0	1.7 1.8	1.8	1.0	24.7 25.6	25.2	23.2
				Middle	3.7	25.9 25.9	25.9	8.5 8.5	8.5	33.0 32.7	32.9	93.3 92.8	93.1	7.0 6.9	6.9		0.4 0.4	0.4		23.3 24.2	23.8	
				Bottom	6.5	25.7 25.7	25.7	8.5 8.5	8.5	33.9 34.0	33.9	92.7 92.7	92.7	6.9 6.9	6.9		1.0 1.0	1.0		20.7 20.9	20.8	
M4	Sunny	Calm	16:20	Surface	1.0	25.9 25.8	25.9	8.6 8.6	8.6	32.5 33.2	32.8	92.8 93.4	93.1	6.9 7.0	7.0	7.0	0.6 0.7	0.7	1.1	6.7 6.7	6.7	6.5
				Middle	5.0	25.8 25.8	25.8	8.6 8.6	8.6	33.4 33.3	33.4	93.4 93.2	93.3	7.0 7.0	7.0		1.1 1.2	1.2		6.0 5.8	5.9	
				Bottom	9.0	25.7 25.7	25.7	8.6 8.6	8.6	33.5 33.6	33.6	93.4 94.1	93.8	7.0 7.0	7.0		1.6 1.6	1.6		6.8 6.8	6.8	
M5	Sunny	Calm	17:10	Surface	1.0	25.9 25.9	25.9	8.5 8.5	8.5	33.0 33.1	33.0	97.3 94.3	95.8	7.2 7.0	7.1	7.1	1.1 1.1	1.1	1.4	10.3 10.3	10.3	22.8
				Middle	5.5	25.8 25.8	25.8	8.5 8.5	8.5	33.1 33.1	33.1	94.6 94.1	94.4	7.0 7.0	7.0		1.5 1.5	1.5		34.8 35.4	35.1	
				Bottom	10.0	25.8 25.8	25.8	8.5 8.5	8.5	33.3 33.2	33.3	93.9 93.7	93.8	7.0 7.0	7.0		1.7 1.7	1.7		22.4 23.3	22.9	
M6	Sunny	Calm	17:04	Surface	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	2.3	-	-	9.9
				Middle	2.0	25.9 25.9	25.9	8.5 8.5	8.5	32.4 32.4	32.4	99.6 97.9	98.8	7.4 7.3	7.3		8.0 8.0	8.0		9.8 9.9	9.9	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 2 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 7.8 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 8.4 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 6.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 6.5 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 6.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 6.5 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 7.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 8.3 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 04 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Fine	Calm	10:58	Surface	1.1	26.8 26.8	26.8	8.5 8.5	8.5	30.8 30.8	30.8	101.4 101.9	101.7	6.8 6.9	6.8	6.5	0.8 0.8	0.8	1.2	4.5 4.3	4.4	6.3
				Middle	9.1	25.5 25.5	25.5	8.5 8.5	8.5	31.7 31.8	31.8	90.5 89.6	90.1	6.2 6.1	6.2		0.9 1.0	1.0		6.4 6.4	6.4	
				Bottom	17.0	23.1 23.1	23.1	8.4 8.4	8.4	34.5 34.6	34.5	57.8 57.9	57.9	4.1 4.1	4.1		1.8 1.8	1.8		8.0 8.3	8.2	
C2	Fine	Calm	10:27	Surface	1.1	25.7 25.8	25.8	8.5 8.5	8.5	31.4 31.4	31.4	100.0 99.9	100.0	6.8 6.8	6.8	6.2	2.8 2.5	2.6	1.8	6.8 7.2	7.0	6.9
				Middle	16.1	24.2 24.2	24.2	8.5 8.5	8.5	33.1 33.2	33.2	81.2 81.3	81.3	5.6 5.6	5.6		1.3 1.4	1.3		6.7 6.2	6.5	
				Bottom	31.0	22.8 22.8	22.8	8.4 8.4	8.4	34.8 34.8	34.8	70.0 69.1	69.6	4.9 4.9	4.9		1.4 1.5	1.5		7.4 7.0	7.2	
G1	Fine	Calm	10:36	Surface	1.2	25.9 26.0	25.9	8.5 8.5	8.5	31.4 31.3	31.3	93.3 98.1	95.7	6.4 6.7	6.5	5.6	1.2 1.2	1.2	1.7	5.5 5.8	5.7	6.7
				Middle	4.1	22.9 22.9	22.9	8.4 8.4	8.4	34.6 34.6	34.6	65.3 65.1	65.2	4.6 4.6	4.6		1.4 1.5	1.5		8.8 8.5	8.7	
				Bottom	7.0	22.1 22.1	22.1	8.4 8.4	8.4	35.5 35.5	35.5	62.9 62.6	62.8	4.5 4.5	4.5		2.5 2.6	2.5		5.7 5.7	5.7	
G2	Fine	Calm	10:32	Surface	1.0	25.6 25.7	25.7	8.5 8.5	8.5	31.5 31.4	31.4	95.3 96.0	95.7	6.5 6.6	6.5	5.6	1.2 1.2	1.2	1.6	5.4 5.3	5.4	6.0
				Middle	5.0	22.9 23.0	23.0	8.4 8.4	8.4	34.7 34.6	34.6	66.2 66.4	66.3	4.7 4.7	4.7		1.3 1.3	1.3		6.9 6.9	6.9	
				Bottom	9.0	22.1 22.1	22.1	8.4 8.4	8.4	35.5 35.5	35.5	63.3 63.2	63.3	4.5 4.5	4.5		2.4 2.6	2.5		5.7 5.6	5.7	
G3	Fine	Calm	10:42	Surface	1.1	26.0 25.9	25.9	8.5 8.5	8.5	31.2 31.3	31.3	97.6 96.1	96.9	6.6 6.5	6.6	6.3	1.4 1.3	1.3	1.1	5.1 5.4	5.3	15.4
				Middle	4.0	25.6 25.7	25.6	8.5 8.5	8.5	31.8 31.6	31.7	87.2 88.0	87.6	6.0 6.0	6.0		1.0 1.1	1.1		10.9 10.4	10.7	
				Bottom	7.0	23.6 23.5	23.6	8.5 8.5	8.5	33.5 33.8	33.7	75.1 68.8	72.0	5.3 4.8	5.0		1.0 1.1	1.0		30.9 29.7	30.3	
G4	Fine	Calm	10:55	Surface	1.0	26.7 26.8	26.8	8.5 8.6	8.5	30.9 30.9	30.9	104.3 104.9	104.6	7.0 7.1	7.0	6.6	0.9 0.9	0.9	1.2	8.7 8.9	8.8	7.2
				Middle	4.1	25.4 25.4	25.4	8.5 8.5	8.5	31.8 31.9	31.8	90.0 88.7	89.4	6.2 6.1	6.1		1.0 1.0	1.0		7.5 7.9	7.7	
				Bottom	7.1	23.2 23.3	23.2	8.4 8.4	8.4	34.3 34.3	34.3	60.5 60.6	60.6	4.2 4.3	4.2		1.6 1.6	1.6		5.1 5.1	5.1	
M1	Fine	Calm	10:34	Surface	1.1	26.6 26.8	26.7	8.5 8.5	8.5	31.1 31.0	31.0	106.1 106.3	106.2	7.2 7.2	7.2	7.0	0.9 0.8	0.8	1.0	6.9 7.4	7.2	5.6
				Middle	3.1	26.1 26.4	26.2	8.5 8.5	8.5	31.3 31.2	31.2	100.7 101.1	100.9	6.8 6.8	6.8		0.9 0.9	0.9		3.4 3.3	3.4	
				Bottom	5.1	23.1 23.1	23.1	8.4 8.4	8.4	34.5 34.5	34.5	72.8 71.4	72.1	5.1 5.0	5.1		1.3 1.3	1.3		6.5 6.0	6.3	
M2	Fine	Calm	10:30	Surface	1.0	25.7 26.0	25.8	8.5 8.5	8.5	31.4 31.2	31.3	95.9 101.4	98.7	6.6 6.9	6.7	5.9	1.1 1.0	1.1	1.5	7.8 7.9	7.9	8.0
				Middle	6.1	23.1 23.1	23.1	8.4 8.4	8.4	34.5 34.4	34.5	73.0 74.3	73.7	5.1 5.2	5.2		1.4 1.3	1.4		7.6 7.2	7.4	
				Bottom	11.1	22.3 22.2	22.3	8.4 8.4	8.4	35.3 35.4	35.4	65.0 64.4	64.7	4.6 4.6	4.6		2.0 2.0	2.0		8.6 8.6	8.6	
M3	Fine	Calm	10:53	Surface	1.0	26.7 26.7	26.7	8.6 8.6	8.6	30.9 30.9	30.9	107.2 107.2	107.2	7.2 7.2	7.2	6.8	0.9 0.9	0.9	1.4	3.5 3.6	3.6	12.2
				Middle	4.1	25.4 25.3	25.3	8.5 8.5	8.5	31.9 31.9	31.9	94.5 93.9	94.2	6.5 6.4	6.5		1.0 0.9	1.0		5.0 5.1	5.1	
				Bottom	7.1	22.5 22.5	22.5	8.4 8.4	8.4	35.2 35.2	35.2	62.5 62.1	62.3	4.4 4.4	4.4		2.3 2.3	2.3		28.0 28.1	28.1	
M4	Fine	Calm	10:29	Surface	1.0	25.4 25.4	25.4	8.5 8.5	8.5	31.8 31.6	31.7	89.3 91.1	90.2	6.1 6.2	6.2	5.4	1.2 1.1	1.2	1.4	24.2 23.8	24.0	11.6
				Middle	5.5	22.9 22.9	22.9	8.4 8.4	8.4	34.7 34.7	34.7	65.8 65.7	65.8	4.6 4.6	4.6		1.3 1.3	1.3		4.6 4.8	4.7	
				Bottom	9.0	22.5 22.4	22.5	8.4 8.4	8.4	35.2 35.2	35.2	64.0 63.8	63.9	4.5 4.5	4.5		1.8 1.8	1.8		6.0 6.1	6.1	
M5	Fine	Calm	10:57	Surface	1.0	26.8 26.7	26.7	8.6 8.6	8.6	30.9 30.9	30.9	106.2 106.0	106.1	7.1 7.1	7.1	7.0	0.8 0.8	0.8	1.2	6.4 6.4	6.4	6.5
				Middle	6.1	25.8 26.0	25.9	8.6 8.6	8.6	31.6 31.4	31.5	99.8 100.0	99.9	6.8 6.8	6.8		0.8 0.8	0.8		7.3 7.3	7.3	
				Bottom	11.1	22.8 22.8	22.8	8.4 8.4	8.4	35.0 35.0	35.0	59.4 58.8	59.1	4.2 4.1	4.2		1.8 1.9	1.8		5.9 5.8	5.9	
M6	Fine	Calm	10:57	Surface	-	-	-	-	-	-	-	-	-	-	7.1	-	-	0.9	-	-	4.7	
				Middle	2.3	26.2 26.2	26.2	8.6 8.6	8.6	31.2 31.2	31.2	105.0 105.1	105.1	7.1 7.1		7.1	0.9 0.9		0.9	4.7 4.6		4.7
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 4 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 1.7 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 1.9 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.1 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.1 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.6 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.4 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 04 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Fine	Calm	19:17	Surface	1.1	26.8 26.8	26.8	8.5 8.5	8.5	30.8 30.8	30.8	102.7 103.5	103.1	6.9 7.0	6.9	6.4	0.8 0.8	0.8	1.3	7.2 7.6	7.4	7.0
				Middle	9.1	25.5 25.5	25.5	8.5 8.5	8.5	31.9 32.1	32.0	88.0 85.2	86.6	6.0 5.8	5.9		1.1 1.2	1.2		8.4 8.8	8.6	
				Bottom	17.1	23.0 23.1	23.0	8.4 8.4	8.4	34.7 34.6	34.6	57.0 57.4	57.2	4.0 4.0	4.0		2.0 1.8	1.9		4.8 4.9	4.9	
C2	Fine	Calm	18:46	Surface	1.1	25.8 25.8	25.8	8.5 8.5	8.5	31.4 31.4	31.4	99.9 99.9	99.9	6.8 6.8	6.8	6.2	2.4 2.2	2.3	1.7	4.2 4.2	4.2	4.5
				Middle	16.1	24.3 24.3	24.3	8.4 8.4	8.4	33.0 33.1	33.0	80.9 81.1	81.0	5.6 5.6	5.6		1.2 1.3	1.3		4.4 4.3	4.4	
				Bottom	31.1	22.8 22.8	22.8	8.4 8.4	8.4	34.8 34.8	34.8	68.1 66.9	67.5	4.8 4.7	4.8		1.5 1.5	1.5		5.0 4.8	4.9	
G1	Fine	Calm	18:55	Surface	1.1	26.1 26.2	26.1	8.5 8.5	8.5	31.1 31.1	31.1	99.9 100.8	100.4	6.8 6.9	6.8	5.7	1.1 1.0	1.0	1.6	7.9 8.4	8.2	8.5
				Middle	4.0	22.9 23.0	23.0	8.4 8.4	8.4	34.6 34.6	34.6	65.7 65.5	65.6	4.6 4.6	4.6		1.4 1.4	1.4		9.6 9.8	9.7	
				Bottom	7.1	22.1 22.1	22.1	8.4 8.4	8.4	35.5 35.5	35.5	62.6 62.7	62.7	4.5 4.5	4.5		2.6 2.4	2.5		7.7 7.6	7.7	
G2	Fine	Calm	18:51	Surface	1.0	25.8 25.7	25.7	8.5 8.5	8.5	31.4 31.4	31.4	96.5 97.4	97.0	6.6 6.7	6.6	5.6	1.1 1.1	1.1	1.8	6.8 6.9	6.9	5.1
				Middle	5.1	22.9 22.9	22.9	8.4 8.4	8.4	34.7 34.7	34.7	65.8 66.0	65.9	4.6 4.6	4.6		1.5 1.4	1.4		5.2 5.0	5.1	
				Bottom	9.0	22.1 22.1	22.1	8.4 8.4	8.4	35.5 35.5	35.5	63.2 63.1	63.2	4.5 4.5	4.5		2.8 2.8	2.8		3.1 3.4	3.3	
G3	Fine	Calm	19:00	Surface	1.0	26.0 25.9	25.9	8.5 8.5	8.5	31.3 31.3	31.3	97.3 96.8	97.1	6.6 6.6	6.6	6.3	1.4 1.5	1.4	1.2	3.1 3.0	3.1	3.8
				Middle	4.1	25.4 25.5	25.4	8.5 8.5	8.5	31.9 31.9	31.9	86.6 86.8	86.7	5.9 5.9	5.9		0.9 1.0	0.9		4.0 3.9	4.0	
				Bottom	7.1	23.5 23.5	23.5	8.4 8.4	8.4	34.0 34.2	34.1	66.5 65.8	66.2	4.7 4.6	4.6		1.2 1.2	1.2		4.3 4.2	4.3	
G4	Fine	Calm	19:14	Surface	1.1	26.8 26.8	26.8	8.6 8.6	8.6	30.9 30.9	30.9	105.3 105.7	105.5	7.1 7.1	7.1	6.7	0.9 0.9	0.9	1.1	6.8 6.9	6.9	5.6
				Middle	4.1	25.5 25.5	25.5	8.5 8.5	8.5	31.6 31.7	31.7	91.6 90.9	91.3	6.3 6.2	6.2		1.1 1.0	1.0		4.4 4.4	4.4	
				Bottom	7.1	23.3 23.3	23.3	8.4 8.4	8.4	34.3 34.3	34.3	60.7 60.6	60.7	4.3 4.3	4.3		1.5 1.5	1.5		5.5 5.5	5.5	
M1	Fine	Calm	18:53	Surface	1.1	27.0 26.9	27.0	8.5 8.5	8.5	31.0 31.0	31.0	106.6 106.8	106.7	7.1 7.2	7.2	7.0	0.8 0.8	0.8	1.0	2.9 2.8	2.9	5.6
				Middle	3.1	25.5 25.7	25.6	8.5 8.5	8.5	31.6 31.5	31.5	99.3 100.1	99.7	6.8 6.8	6.8		1.0 1.0	1.0		5.3 5.2	5.3	
				Bottom	5.0	23.2 23.2	23.2	8.4 8.4	8.4	34.4 34.4	34.4	70.4 69.7	70.1	4.9 4.9	4.9		1.3 1.3	1.3		8.5 8.8	8.7	
M2	Fine	Calm	18:49	Surface	1.2	26.0 26.0	26.0	8.5 8.5	8.5	31.2 31.2	31.2	101.6 101.7	101.7	6.9 6.9	6.9	6.0	1.0 1.0	1.0	1.5	26.4 26.1	26.3	21.5
				Middle	6.1	23.0 23.0	23.0	8.4 8.4	8.4	34.6 34.6	34.6	70.5 72.1	71.3	5.0 5.1	5.0		1.4 1.5	1.4		29.8 31.9	30.9	
				Bottom	11.0	22.2 22.2	22.2	8.4 8.4	8.4	35.5 35.5	35.5	64.2 64.1	64.2	4.6 4.5	4.5		2.1 2.1	2.1		7.2 7.4	7.3	
M3	Fine	Calm	19:12	Surface	1.1	26.7 26.7	26.7	8.6 8.6	8.6	30.9 30.9	30.9	107.2 107.2	107.2	7.2 7.2	7.2	6.8	0.9 0.8	0.8	1.3	4.7 4.4	4.6	4.4
				Middle	4.1	25.3 25.3	25.3	8.5 8.6	8.5	32.0 32.0	32.0	93.7 93.3	93.5	6.4 6.4	6.4		0.9 0.9	0.9		4.6 4.4	4.5	
				Bottom	7.1	22.5 22.5	22.5	8.4 8.4	8.4	35.2 35.2	35.2	63.4 63.1	63.3	4.5 4.5	4.5		2.2 2.2	2.2		4.0 4.3	4.2	
M4	Fine	Calm	18:47	Surface	1.0	25.5 25.5	25.5	8.5 8.5	8.5	31.6 31.5	31.6	94.6 95.0	94.8	6.5 6.5	6.5	5.6	1.1 1.1	1.1	1.4	6.9 7.1	7.0	5.3
				Middle	5.0	22.9 22.9	22.9	8.4 8.4	8.4	34.7 34.7	34.7	65.8 65.9	65.9	4.6 4.6	4.6		1.4 1.3	1.3		4.1 3.8	4.0	
				Bottom	9.0	22.6 22.5	22.6	8.4 8.4	8.4	35.0 35.1	35.0	64.5 64.2	64.4	4.6 4.5	4.5		1.7 1.8	1.7		4.8 4.8	4.8	
M5	Fine	Calm	19:16	Surface	1.1	26.7 26.6	26.7	8.6 8.6	8.6	30.9 30.9	30.9	105.7 105.6	105.7	7.1 7.1	7.1	7.0	0.8 0.7	0.8	1.2	4.7 4.6	4.7	5.0
				Middle	6.2	25.5 25.6	25.5	8.6 8.6	8.6	31.8 31.8	31.8	99.1 99.6	99.4	6.8 6.8	6.8		0.9 0.9	0.9		5.2 5.3	5.3	
				Bottom	11.1	22.8 22.8	22.8	8.4 8.4	8.4	35.0 35.0	35.0	58.0 57.6	57.8	4.1 4.1	4.1		1.9 2.1	2.0		5.2 4.9	5.1	
M6	Fine	Calm	19:15	Surface	-	-	-	-	-	-	-	-	-	-	6.8	-	-	0.9	-	-	8.8	
				Middle	2.2	26.0 25.9	25.9	8.6 8.6	8.6	31.4 31.4	31.4	101.1 100.2	100.7	6.9 6.8		6.8	8.0 8.0		8.0	8.9 8.6		8.8
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 4 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.3 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.5 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 8.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 9.6 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 8.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 9.6 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 5.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 6.3 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 06 July 2020

(Only Mid-Ebb Tide***)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	14:42	Surface	1.0	26.0	26.0	8.5	8.5	29.6	29.6	91.1	91.3	6.3	6.3	5.8	3.4	3.4	3.0	28.3	28.5	13.4
				Middle	9.1	24.0	24.0	8.5	8.5	32.6	32.6	77.2	76.8	5.4	5.4		3.0	3.0		6.1	6.2	
				Bottom	17.0	23.4	23.4	8.5	8.5	33.7	33.7	71.4	71.4	5.0	5.0		2.6	2.6		5.7	5.6	
C2	Sunny	Calm	13:38	Surface	1.1	26.0	26.0	8.6	8.6	31.7	31.7	134.2	134.4	9.1	9.1	8.2	1.6	1.5	1.6	7.5	7.4	6.3
				Middle	16.0	24.9	24.9	8.5	8.5	32.1	32.1	106.9	106.8	7.4	7.4		1.6	1.6		5.2	5.2	
				Bottom	31.0	24.4	24.4	8.5	8.5	32.7	32.7	96.5	96.2	6.7	6.7		1.6	1.6		6.4	6.4	
G1	Sunny	Calm	14:11	Surface	1.0	26.3	26.3	8.7	8.7	31.3	31.3	131.1	135.7	8.9	9.2	8.9	1.3	1.3	1.3	3.4	3.4	6.4
				Middle	4.1	25.6	25.6	8.7	8.7	31.8	31.8	127.9	127.1	8.7	8.7		1.4	1.4		10.3	10.3	
				Bottom	7.0	25.2	25.2	8.6	8.6	32.2	32.2	115.8	116.0	8.0	8.0		1.4	1.4		5.5	5.4	
G2	Sunny	Calm	13:57	Surface	1.1	25.9	25.9	8.6	8.6	31.9	31.9	133.4	133.6	9.1	9.1	8.5	1.4	1.4	1.5	7.4	7.2	6.6
				Middle	5.0	25.2	25.2	8.6	8.6	32.1	32.1	116.6	116.4	8.0	8.0		1.5	1.5		6.1	6.1	
				Bottom	9.0	24.6	24.4	8.6	8.5	32.6	32.8	95.4	93.6	6.6	6.5		1.5	1.5		6.5	6.5	
G3	Sunny	Calm	14:17	Surface	1.0	26.1	26.1	8.7	8.7	31.4	31.5	142.0	142.5	9.6	9.7	9.0	1.2	1.2	1.3	6.9	6.9	5.8
				Middle	4.1	25.4	25.4	8.7	8.7	31.9	31.9	125.2	122.8	8.6	8.4		1.4	1.4		5.2	5.2	
				Bottom	7.0	25.2	25.2	8.6	8.6	32.2	32.2	116.4	116.6	8.0	8.0		1.4	1.4		5.2	5.3	
G4	Sunny	Calm	14:29	Surface	1.1	26.0	26.0	8.7	8.7	31.5	31.5	145.4	145.7	9.9	9.9	9.0	1.3	1.3	1.4	5.3	5.3	4.3
				Middle	4.1	25.4	25.4	8.6	8.6	31.9	31.9	119.6	119.5	8.2	8.2		1.5	1.4		3.3	3.3	
				Bottom	7.0	25.1	25.1	8.6	8.6	32.2	32.2	114.9	114.8	7.9	7.9		1.3	1.4		4.4	4.4	
M1	Sunny	Calm	14:04	Surface	1.0	25.6	25.6	8.6	8.6	31.8	31.8	123.5	123.6	8.4	8.4	8.5	1.8	1.8	1.7	7.7	7.7	8.4
				Middle	3.0	25.6	25.6	8.6	8.6	31.8	31.8	124.7	124.7	8.5	8.5		1.7	1.7		7.1	7.1	
				Bottom	5.0	25.2	25.2	8.6	8.6	32.0	32.0	115.9	115.9	8.0	7.9		1.5	1.5		10.5	10.6	
M2	Sunny	Calm	13:50	Surface	1.0	26.1	26.1	8.6	8.6	31.9	31.9	135.5	135.7	9.2	9.2	8.4	1.4	1.4	1.5	8.4	8.4	6.6
				Middle	6.0	25.1	25.0	8.6	8.6	32.2	32.2	113.0	112.1	7.8	7.7		1.5	1.5		5.4	5.5	
				Bottom	11.0	23.8	23.8	8.5	8.5	33.5	33.5	86.2	85.9	6.0	6.0		1.6	1.6		5.8	6.0	
M3	Sunny	Calm	14:23	Surface	1.1	26.0	26.0	8.7	8.7	31.5	31.5	144.0	144.4	9.8	9.8	9.0	1.2	1.3	1.3	6.1	6.1	8.1
				Middle	4.0	25.4	25.4	8.7	8.7	31.9	31.9	119.9	119.8	8.2	8.2		1.4	1.4		7.3	7.3	
				Bottom	7.1	25.1	25.1	8.6	8.6	32.1	32.1	115.4	115.3	7.9	7.9		1.3	1.3		10.6	10.8	
M4	Sunny	Calm	13:45	Surface	1.1	26.1	26.1	8.6	8.6	31.9	31.9	136.9	137.1	9.3	9.3	8.6	1.3	1.3	1.4	8.0	8.2	8.9
				Middle	5.0	25.1	25.1	8.6	8.6	32.2	32.2	117.0	116.7	8.0	8.0		1.5	1.5		10.7	10.9	
				Bottom	9.0	23.9	23.9	8.4	8.4	33.4	33.4	86.5	86.3	6.0	6.0		1.5	1.5		7.5	7.6	
M5	Sunny	Calm	14:38	Surface	1.1	25.9	25.9	8.5	8.5	29.7	29.7	90.1	90.3	6.2	6.2	5.8	3.5	3.5	3.0	8.7	8.8	8.1
				Middle	6.1	24.0	24.0	8.5	8.5	32.4	32.5	78.4	78.2	5.5	5.5		3.1	3.1		4.6	4.7	
				Bottom	11.0	23.4	23.4	8.5	8.5	33.6	33.6	71.8	71.7	5.0	5.0		2.6	2.6		10.8	10.7	
M6	Sunny	Calm	14:36	Surface	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	1.6	-	-	29.3
				Middle	2.0	25.0	25.0	8.6	8.6	32.2	32.2	108.8	108.3	7.5	7.5		1.7	1.6		28.6	29.3	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.
 ***: Monitoring was conducted at ebb tide only on 06 July 2020.

Appendix I - Action and Limit Levels for Marine Water Quality on 6 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 1.9 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.1 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.6 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.6 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 7.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 8.3 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 08 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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	Value	Average	DA*	Value	Average	DA*	Value
C1	Fine	Calm	14:49	Surface	1.1	21.1 21.0	21.1	8.5 8.5	8.5	32.0 32.0	32.0	90.4 89.7	90.1	6.3 6.2	6.2	6.1	2.0 2.0	2.0	2.1	6.4 6.4	6.4	18.0
				Middle	9.0	20.9 21.1	21.0	8.5 8.5	8.5	32.3 32.3	32.3	84.8 85.4	85.1	5.9 5.9	5.9		2.2 2.1	2.1		19.8 20.6	20.2	
				Bottom	17.0	20.9 20.9	20.9	8.5 8.5	8.5	32.4 32.5	32.5	84.1 83.7	83.9	5.9 5.8	5.8		2.1 2.2	2.1		27.2 27.5	27.4	
C2	Fine	Calm	13:04	Surface	1.0	21.5 20.9	21.2	8.4 8.4	8.4	30.1 30.2	30.2	97.6 97.1	97.4	6.7 6.7	6.7	6.4	1.4 1.3	1.4	1.8	9.0 9.0	9.0	7.3
				Middle	16.6	20.9 20.9	20.9	8.4 8.4	8.4	30.7 30.6	30.7	89.0 89.6	89.3	6.1 6.2	6.2		1.7 1.5	1.6		5.4 5.4	5.4	
				Bottom	32.1	20.9 20.9	20.9	8.4 8.4	8.4	33.0 33.0	33.0	77.6 77.3	77.5	5.4 5.4	5.4		2.3 2.3	2.3		7.3 7.4	7.4	
G1	Fine	Calm	13:42	Surface	1.1	21.3 20.9	21.1	8.7 8.7	8.7	31.9 31.9	31.9	137.6 137.1	137.4	9.4 9.3	9.3	9.2	1.3 1.3	1.3	1.9	7.3 7.2	7.3	7.3
				Middle	4.1	20.9 20.9	20.9	8.7 8.7	8.7	32.1 32.1	32.1	132.7 134.0	133.4	9.1 9.2	9.1		1.2 1.3	1.3		7.1 6.9	7.0	
				Bottom	7.1	20.8 20.7	20.8	8.5 8.5	8.5	35.1 35.2	35.1	75.3 73.5	74.4	5.3 5.2	5.3		3.1 3.4	3.3		7.4 7.6	7.5	
G2	Fine	Calm	13:22	Surface	1.1	21.4 20.9	21.2	8.7 8.7	8.7	32.2 32.2	32.2	125.3 126.4	125.9	8.6 8.6	8.6	7.0	1.3 1.3	1.3	1.7	10.9 10.9	10.9	8.1
				Middle	5.0	20.9 20.9	20.9	8.5 8.5	8.5	34.9 34.8	34.8	76.8 78.0	77.4	5.4 5.5	5.5		1.6 1.6	1.6		5.9 6.1	6.0	
				Bottom	9.1	20.8 20.9	20.8	8.5 8.5	8.5	35.2 35.3	35.2	69.4 68.8	69.1	4.9 4.9	4.9		2.1 2.2	2.2		7.4 7.2	7.3	
G3	Fine	Calm	13:49	Surface	1.1	21.0 20.9	21.0	8.7 8.7	8.7	31.7 31.7	31.7	148.9 149.9	149.4	10.1 10.2	10.1	10.2	1.3 1.3	1.3	1.4	6.3 6.3	6.3	9.4
				Middle	4.1	20.9 20.9	20.9	8.7 8.7	8.7	31.8 31.8	31.8	149.0 149.8	149.4	10.1 10.2	10.2		1.4 1.4	1.4		13.5 13.3	13.4	
				Bottom	7.0	20.7 20.8	20.8	8.4 8.4	8.4	34.6 34.8	34.7	76.4 71.5	74.0	5.4 5.0	5.2		1.5 1.5	1.5		8.4 8.3	8.4	
G4	Fine	Calm	14:03	Surface	1.1	21.6 21.0	21.3	8.7 8.7	8.7	31.4 31.4	31.4	146.9 148.4	147.7	9.9 10.0	10.0	9.7	1.1 1.2	1.1	1.2	7.7 7.4	7.6	9.2
				Middle	4.0	21.0 21.0	21.0	8.7 8.7	8.7	32.0 31.9	31.9	137.2 138.0	137.6	9.4 9.4	9.4		1.2 1.2	1.2		9.2 8.9	9.1	
				Bottom	7.1	20.9 20.9	20.9	8.5 8.5	8.5	32.9 32.8	32.9	101.3 102.0	101.7	7.0 7.1	7.0		1.2 1.3	1.3		11.0 11.2	11.1	
M1	Fine	Calm	13:30	Surface	1.1	21.3 21.1	21.2	8.7 8.7	8.7	32.1 32.1	32.1	130.9 131.1	131.0	8.9 9.0	8.9	8.9	1.4 1.4	1.4	1.4	9.0 9.0	9.0	8.8
				Middle	3.0	20.9 21.0	20.9	8.7 8.7	8.7	32.2 32.2	32.2	130.0 130.8	130.4	8.9 8.9	8.9		1.4 1.4	1.4		7.8 8.1	8.0	
				Bottom	5.0	20.8 20.8	20.8	8.6 8.6	8.6	32.4 32.5	32.4	116.3 115.7	116.0	8.0 7.9	8.0		1.5 1.5	1.5		9.3 9.5	9.4	
M2	Fine	Calm	13:17	Surface	1.1	21.6 20.9	21.3	8.6 8.6	8.6	32.6 32.6	32.6	119.0 119.2	119.1	8.2 8.2	8.2	8.2	1.4 1.5	1.5	1.4	8.6 8.5	8.6	7.5
				Middle	5.5	20.8 20.8	20.8	8.6 8.6	8.6	32.7 32.7	32.7	118.0 118.3	118.2	8.1 8.1	8.1		1.4 1.4	1.4		6.4 6.3	6.4	
				Bottom	10.0	20.8 20.8	20.8	8.6 8.6	8.6	32.6 32.6	32.6	121.5 121.4	121.5	8.3 8.4	8.3		1.4 1.4	1.4		7.5 7.4	7.5	
M3	Fine	Calm	13:56	Surface	1.0	21.6 21.0	21.3	8.7 8.7	8.7	31.8 31.7	31.7	143.8 145.1	144.5	9.8 9.9	9.8	9.9	1.2 1.2	1.2	1.4	5.9 5.9	5.9	6.0
				Middle	4.1	20.9 20.9	20.9	8.7 8.7	8.7	31.9 31.9	31.9	144.7 145.3	145.0	9.9 9.9	9.9		1.5 1.5	1.5		6.5 6.7	6.6	
				Bottom	7.0	20.7 20.8	20.7	8.7 8.7	8.7	32.0 32.1	32.0	128.2 125.2	126.7	8.8 8.6	8.7		1.4 1.3	1.3		5.3 5.4	5.4	
M4	Fine	Calm	13:11	Surface	1.0	22.0 21.0	21.5	8.5 8.5	8.5	32.5 32.5	32.5	94.5 94.2	94.4	6.6 6.5	6.5	6.5	2.0 2.1	2.0	2.1	8.0 8.4	8.2	7.2
				Middle	5.0	20.9 20.9	20.9	8.5 8.5	8.5	32.9 32.9	32.9	91.6 91.8	91.7	6.4 6.4	6.4		2.2 2.2	2.2		6.3 6.3	6.3	
				Bottom	9.1	20.8 20.8	20.8	8.5 8.5	8.5	33.8 33.8	33.8	83.5 83.3	83.4	5.8 5.8	5.8		1.9 1.9	1.9		7.1 7.2	7.2	
M5	Fine	Calm	14:38	Surface	1.0	21.0 21.0	21.0	8.6 8.6	8.6	32.3 32.3	32.3	91.6 90.7	91.2	6.4 6.3	6.3	6.2	2.0 2.0	2.0	2.3	5.9 5.8	5.9	6.8
				Middle	6.0	20.9 21.9	21.4	8.5 8.5	8.5	32.4 32.4	32.4	88.2 88.5	88.4	6.1 6.2	6.1		2.1 2.2	2.1		7.2 7.1	7.2	
				Bottom	11.1	20.9 20.9	20.9	8.5 8.5	8.5	33.3 33.6	33.5	78.4 77.5	78.0	5.5 5.4	5.5		2.6 2.8	2.7		7.4 7.3	7.4	
M6	Fine	Calm	14:18	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	8.7	- -	-	1.5	- -	-	7.4
				Middle	2.2	21.5 20.9	21.2	8.7 8.7	8.7	32.0 32.0	32.0	126.6 126.8	126.7	8.7 8.7	8.7		1.5 1.5	1.5		7.3 7.4	7.4	
				Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 8 July 2020 (Mid-Ebb Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.8 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 3.0 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 10.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 11.7 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 10.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 11.7 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.6 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 08 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Fine	Calm	9:22	Surface	1.1	24.6	24.6	8.5	8.5	32.0	32.0	89.2	89.0	6.2	6.2	6.1	2.0	2.0	2.1	8.1	8.1	7.4
				Middle	8.6	24.4	24.4	8.5	8.5	32.2	32.2	86.0	86.3	6.0	6.0		2.1	2.1		6.8	6.9	
				Bottom	16.1	24.2	24.1	8.5	8.5	32.5	32.6	83.3	83.0	5.8	5.8		2.2	2.1		7.3	7.2	
C2	Fine	Calm	7:55	Surface	1.1	25.9	25.9	8.4	8.4	30.0	30.0	98.8	98.5	6.8	6.8	6.4	1.5	1.5	1.9	7.4	7.4	7.1
				Middle	16.0	25.0	25.1	8.4	8.4	31.2	31.0	87.6	88.0	6.1	6.1		2.1	1.9		7.7	7.6	
				Bottom	31.0	24.2	24.1	8.4	8.4	32.4	32.6	78.4	77.9	5.5	5.4		2.4	2.4		6.2	6.3	
G1	Fine	Calm	8:33	Surface	1.1	25.6	25.6	8.7	8.7	32.0	32.0	136.5	136.3	9.3	9.3	9.3	1.3	1.3	2.0	7.1	7.1	6.9
				Middle	3.7	25.5	25.6	8.7	8.7	32.1	32.0	135.3	135.7	9.2	9.3		1.3	1.3		5.7	5.7	
				Bottom	6.6	22.4	22.4	8.5	8.5	35.2	35.2	72.4	71.6	5.1	5.1		3.6	3.6		7.9	8.0	
G2	Fine	Calm	8:17	Surface	1.0	25.4	25.4	8.7	8.7	32.2	32.2	127.4	127.7	8.7	8.7	7.3	1.3	1.3	1.8	11.2	11.3	8.2
				Middle	5.0	22.6	22.7	8.5	8.5	34.7	34.5	80.5	87.7	5.7	5.9		1.5	1.5		6.7	6.6	
				Bottom	9.1	22.2	22.2	8.5	8.5	35.3	35.3	68.4	68.1	4.9	4.8		2.4	2.5		6.6	6.6	
G3	Fine	Calm	8:40	Surface	1.0	26.0	26.0	8.7	8.7	31.6	31.6	148.1	148.3	10.1	10.1	10.0	1.2	1.2	1.3	7.7	7.8	7.8
				Middle	3.7	25.7	25.7	8.7	8.7	31.9	31.9	146.5	147.3	10.0	10.0		1.4	1.4		9.0	9.0	
				Bottom	6.5	22.7	22.7	8.5	8.5	34.3	34.4	97.3	87.5	6.9	6.5		1.4	1.4		6.8	6.7	
G4	Fine	Calm	8:54	Surface	1.0	26.5	26.5	8.7	8.7	31.3	31.4	144.4	144.9	9.7	9.8	9.5	1.1	1.1	1.2	12.8	13.1	9.8
				Middle	3.8	25.4	25.4	8.7	8.7	32.1	32.0	135.9	136.2	9.3	9.3		1.3	1.3		8.6	8.5	
				Bottom	6.6	24.4	24.4	8.5	8.5	32.9	33.0	96.7	96.7	6.7	6.7		1.2	1.2		8.0	8.0	
M1	Fine	Calm	8:22	Surface	1.0	25.5	25.5	8.6	8.6	32.1	32.1	130.3	130.5	8.9	8.9	8.9	1.4	1.4	1.4	6.5	6.7	6.1
				Middle	3.0	25.3	25.3	8.7	8.7	32.2	32.2	128.1	128.6	8.8	8.8		1.5	1.5		4.9	4.9	
				Bottom	5.1	25.2	25.2	8.6	8.6	32.3	32.3	118.7	117.0	8.1	8.1		1.5	1.5		6.8	6.9	
M2	Fine	Calm	8:09	Surface	1.1	25.0	25.0	8.6	8.6	32.6	32.6	117.8	118.1	8.1	8.1	8.1	1.4	1.4	1.4	7.9	8.1	8.9
				Middle	5.2	24.9	24.9	8.6	8.6	32.7	32.7	117.9	117.9	8.1	8.1		1.4	1.4		8.6	8.6	
				Bottom	9.5	25.0	25.0	8.6	8.6	32.6	32.6	121.3	121.4	8.3	8.3		1.4	1.4		9.8	9.9	
M3	Fine	Calm	8:48	Surface	1.0	25.9	25.9	8.7	8.7	31.6	31.6	145.8	146.2	9.9	9.9	10.0	1.2	1.2	1.4	6.2	6.2	8.5
				Middle	3.7	25.6	25.6	8.7	8.7	31.9	31.9	146.0	146.7	10.0	10.0		1.6	1.6		12.2	12.3	
				Bottom	6.5	25.3	25.2	8.7	8.7	32.1	32.2	123.7	122.9	8.5	8.5		1.3	1.3		7.1	7.1	
M4	Fine	Calm	8:03	Surface	1.0	24.5	24.5	8.5	8.5	32.4	32.4	94.0	94.0	6.5	6.5	6.5	2.1	2.1	2.1	6.5	6.4	6.2
				Middle	5.0	24.2	24.2	8.5	8.5	32.9	32.8	92.2	92.7	6.4	6.4		2.3	2.3		5.4	5.5	
				Bottom	9.0	23.5	23.5	8.5	8.5	33.8	33.8	83.2	83.2	5.8	5.8		1.9	1.9		6.6	6.6	
M5	Fine	Calm	9:11	Surface	1.0	24.5	24.5	8.6	8.6	32.3	32.3	92.2	92.5	6.4	6.4	6.3	2.0	2.0	2.1	7.0	7.1	7.4
				Middle	5.6	24.3	24.3	8.5	8.5	32.4	32.4	87.6	87.9	6.1	6.1		2.1	2.1		8.3	8.5	
				Bottom	10.0	24.0	24.0	8.5	8.5	32.8	33.0	80.3	79.4	5.6	5.5		2.3	2.3		6.6	6.6	
M6	Fine	Calm	9:01	Surface	-	-	-	-	-	-	-	-	-	-	8.7	-	-	1.4	-	-	8.1	
				Middle	2.0	25.4	25.4	8.7	8.7	32.0	32.0	126.6	126.3	8.7		8.7	8.0		8.0	8.0		8.1
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 8 July 2020 (Mid-Flood Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.5 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.8 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.5 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.5 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 8.6 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 9.4 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 10 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	16:55	Surface	1.1	25.3	25.3	8.5	8.5	30.7	30.8	91.0	90.7	6.3	6.3	5.8	1.9	1.9	2.7	27.5	28.5	21.0
				Middle	9.1	23.4	23.4	8.5	8.5	33.5	33.5	77.3	77.1	5.4	5.4		3.0	3.0		8.6	8.9	
				Bottom	17.1	22.7	22.8	8.5	8.5	34.3	34.3	73.6	73.7	5.2	5.2		3.3	3.2		25.2	25.5	
C2	Sunny	Calm	15:50	Surface	1.0	25.8	25.8	8.6	8.6	32.0	32.0	143.2	143.6	9.7	9.8	9.7	1.1	1.1	1.4	20.2	20.4	10.5
				Middle	16.1	25.6	25.7	8.6	8.6	32.1	32.1	141.7	141.9	9.7	9.7		1.4	1.3		4.7	4.7	
				Bottom	31.0	23.8	23.8	8.5	8.5	33.5	33.5	94.0	93.6	6.6	6.5		1.7	1.7		6.5	6.5	
G1	Sunny	Calm	16:21	Surface	1.0	25.9	25.9	8.7	8.7	31.6	31.6	139.5	139.7	9.5	9.5	9.3	1.3	1.3	1.4	9.2	9.5	7.0
				Middle	4.0	25.5	25.5	8.7	8.7	31.7	31.7	134.7	134.2	9.2	9.2		1.5	1.5		5.3	5.5	
				Bottom	7.0	25.5	25.5	8.6	8.6	31.8	31.8	125.1	125.7	8.6	8.6		1.4	1.4		6.0	6.0	
G2	Sunny	Calm	16:09	Surface	1.1	25.9	25.9	8.6	8.6	32.0	32.0	151.1	151.5	10.3	10.3	9.6	1.3	1.2	1.4	7.6	7.6	7.7
				Middle	5.1	25.3	25.3	8.6	8.6	32.2	32.2	131.8	130.5	9.0	8.9		1.4	1.4		6.9	6.9	
				Bottom	9.0	23.7	23.7	8.5	8.5	33.6	33.6	90.0	89.6	6.3	6.3		1.5	1.5		8.6	8.5	
G3	Sunny	Calm	16:26	Surface	1.1	25.9	25.8	8.7	8.7	31.6	31.6	140.7	141.3	9.6	9.6	9.3	1.4	1.4	1.4	7.9	7.8	8.8
				Middle	4.1	25.5	25.5	8.7	8.7	31.7	31.7	132.7	132.2	9.1	9.1		1.5	1.5		11.2	11.5	
				Bottom	7.0	25.5	25.5	8.6	8.6	31.8	31.8	126.9	127.2	8.7	8.7		1.4	1.4		7.0	7.1	
G4	Sunny	Calm	16:38	Surface	1.1	25.8	25.8	8.7	8.7	31.6	31.6	144.0	144.1	9.8	9.8	9.4	1.3	1.3	1.4	7.6	7.8	7.5
				Middle	4.0	25.5	25.5	8.7	8.7	31.7	31.7	132.5	132.5	9.1	9.1		1.4	1.4		8.1	8.3	
				Bottom	7.1	25.4	25.5	8.6	8.6	31.8	31.8	126.4	124.7	8.7	8.6		1.4	1.4		6.3	6.4	
M1	Sunny	Calm	16:16	Surface	1.0	25.7	25.7	8.7	8.7	31.8	31.8	135.3	135.9	9.2	9.3	9.2	1.4	1.4	1.5	4.7	4.7	6.2
				Middle	3.0	25.5	25.5	8.7	8.7	31.9	31.9	135.0	134.2	9.2	9.2		1.5	1.5		7.5	7.6	
				Bottom	5.0	25.4	25.4	8.6	8.6	32.0	32.0	130.0	129.6	8.9	8.9		1.6	1.6		6.2	6.4	
M2	Sunny	Calm	16:02	Surface	1.1	25.8	25.8	8.6	8.6	32.0	32.0	149.9	150.2	10.2	10.2	9.8	1.3	1.2	1.4	7.7	7.7	6.9
				Middle	6.1	25.5	25.5	8.6	8.6	32.1	32.1	141.4	138.4	9.6	9.4		1.3	1.3		7.2	7.2	
				Bottom	11.0	23.7	23.7	8.5	8.5	33.6	33.6	91.6	91.2	6.4	6.4		1.6	1.5		5.5	5.7	
M3	Sunny	Calm	16:31	Surface	1.1	25.8	25.8	8.7	8.7	31.7	31.6	143.3	143.4	9.8	9.8	9.4	1.3	1.3	1.4	6.8	6.9	7.6
				Middle	4.0	25.5	25.5	8.7	8.7	31.7	31.7	132.2	132.3	9.1	9.1		1.4	1.5		7.1	6.9	
				Bottom	7.0	25.5	25.5	8.6	8.6	31.8	31.8	128.0	127.7	8.7	8.7		1.4	1.3		9.0	9.0	
M4	Sunny	Calm	15:57	Surface	1.1	25.8	25.8	8.6	8.6	32.0	32.0	148.3	148.7	10.1	10.1	9.9	1.2	1.2	1.4	6.9	7.0	9.3
				Middle	5.0	25.6	25.6	8.6	8.6	32.1	32.1	142.4	142.3	9.7	9.7		1.3	1.3		12.8	13.3	
				Bottom	9.0	23.8	23.8	8.5	8.5	33.6	33.6	92.6	92.4	6.5	6.4		1.6	1.6		7.7	7.8	
M5	Sunny	Calm	16:49	Surface	1.0	25.5	25.5	8.5	8.5	30.5	30.5	97.1	96.9	6.7	6.7	6.1	1.7	1.7	2.7	8.2	8.4	6.3
				Middle	6.0	23.4	23.4	8.5	8.5	33.4	33.4	78.6	78.2	5.5	5.5		3.0	3.0		5.8	5.8	
				Bottom	11.1	22.5	22.6	8.5	8.5	34.6	34.5	73.5	73.4	5.2	5.2		3.3	3.3		4.8	4.8	
M6	Sunny	Calm	16:44	Surface	-	-	-	-	-	-	-	-	-	-	8.7	-	-	1.5	-	-	8.0	
				Middle	2.1	25.4	25.4	8.7	8.7	31.7	31.7	127.5	127.0	8.7		8.7	1.5		1.5	8.3		8.0
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 10 July 2020 (Mid-Ebb Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.1 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.2 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 24.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 26.5 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 24.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 26.5 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 0.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 0.0 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 10 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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	Value	Average	DA*	Value	Average	DA*	Value
C1	Sunny	Calm	9:30	Surface	1.1	25.4 25.4	25.4	8.5 8.5	8.5	30.5 30.6	30.6	96.4 92.5	94.5	6.7 6.4	6.5	6.0	1.8 1.9	1.8	2.7	8.0 8.3	8.2	7.3
				Middle	9.1	23.4 23.4	23.4	8.5 8.5	8.5	33.5 33.5	33.5	77.5 77.1	77.3	5.5 5.4	5.4		3.0 3.1	3.0		5.8 5.8	5.8	
				Bottom	17.1	22.7 22.7	22.7	8.5 8.5	8.5	34.4 34.4	34.4	73.5 73.5	73.5	5.2 5.2	5.2		3.3 3.3	3.3		8.0 7.8	7.9	
C2	Sunny	Calm	8:30	Surface	1.1	25.8 25.8	25.8	8.6 8.6	8.6	32.0 32.0	32.0	142.4 144.7	143.6	9.7 9.8	9.8	9.7	1.2 1.1	1.1	1.4	6.8 6.6	6.7	7.1
				Middle	16.1	25.6 25.7	25.6	8.6 8.6	8.6	32.1 32.1	32.1	141.4 142.4	141.9	9.6 9.7	9.7		1.4 1.3	1.3		6.8 6.7	6.8	
				Bottom	31.0	24.0 23.9	23.9	8.6 8.5	8.6	33.3 33.4	33.4	104.5 100.9	102.7	7.3 7.0	7.2		1.7 1.7	1.7		7.9 7.9	7.9	
G1	Sunny	Calm	8:57	Surface	1.0	25.9 25.9	25.9	8.6 8.6	8.6	31.6 31.6	31.6	138.3 138.9	138.6	9.4 9.5	9.4	9.3	1.3 1.3	1.3	1.4	6.6 6.6	6.6	6.8
				Middle	4.1	25.5 25.5	25.5	8.7 8.7	8.7	31.7 31.7	31.7	135.1 134.2	134.7	9.2 9.2	9.2		1.5 1.5	1.5		6.6 6.3	6.5	
				Bottom	7.1	25.4 25.4	25.4	8.6 8.6	8.6	31.9 31.9	31.9	122.0 123.0	122.5	8.4 8.4	8.4		1.4 1.4	1.4		7.4 7.2	7.3	
G2	Sunny	Calm	8:45	Surface	1.1	25.8 25.9	25.9	8.6 8.6	8.6	32.0 32.0	32.0	150.8 151.4	151.1	10.2 10.3	10.3	9.6	1.3 1.3	1.3	1.4	10.2 10.7	10.5	6.9
				Middle	5.1	25.5 25.3	25.4	8.6 8.6	8.6	32.2 32.2	32.2	133.1 130.4	131.8	9.1 8.9	9.0		1.3 1.4	1.4		5.5 5.4	5.5	
				Bottom	9.0	23.7 23.7	23.7	8.5 8.5	8.5	33.6 33.6	33.6	90.4 89.5	90.0	6.3 6.3	6.3		1.5 1.5	1.5		5.0 4.7	4.9	
G3	Sunny	Calm	9:02	Surface	1.1	25.9 25.8	25.9	8.7 8.7	8.7	31.6 31.6	31.6	140.3 141.3	140.8	9.6 9.6	9.6	9.3	1.4 1.4	1.4	1.4	8.3 8.8	8.6	8.7
				Middle	4.1	25.5 25.5	25.5	8.7 8.7	8.7	31.7 31.7	31.7	133.1 132.4	132.8	9.1 9.1	9.1		1.5 1.5	1.5		7.0 6.5	6.8	
				Bottom	7.0	25.4 25.5	25.4	8.6 8.6	8.6	31.9 31.8	31.8	123.7 124.2	124.0	8.5 8.5	8.5		1.4 1.3	1.3		10.7 10.7	10.7	
G4	Sunny	Calm	9:13	Surface	1.1	25.8 25.8	25.8	8.7 8.7	8.7	31.6 31.6	31.6	143.6 143.8	143.7	9.8 9.8	9.8	9.4	1.3 1.3	1.3	1.3	7.0 6.5	6.8	7.1
				Middle	4.0	25.5 25.5	25.5	8.7 8.7	8.7	31.7 31.7	31.7	132.4 132.5	132.5	9.1 9.1	9.1		1.4 1.4	1.4		7.9 7.7	7.8	
				Bottom	7.1	25.5 25.5	25.5	8.6 8.6	8.6	31.8 31.8	31.8	127.1 125.6	126.4	8.7 8.6	8.7		1.3 1.3	1.3		6.8 6.8	6.8	
M1	Sunny	Calm	8:52	Surface	1.0	25.7 25.7	25.7	8.7 8.7	8.7	31.8 31.8	31.8	134.7 136.0	135.4	9.2 9.3	9.2	9.2	1.5 1.5	1.5	1.5	5.6 5.9	5.8	6.5
				Middle	3.0	25.6 25.5	25.5	8.7 8.7	8.7	31.9 31.9	31.9	135.8 134.1	135.0	9.3 9.2	9.2		1.5 1.6	1.5		6.7 6.6	6.7	
				Bottom	5.0	25.4 25.4	25.4	8.6 8.6	8.6	32.0 32.0	32.0	130.3 129.8	130.1	8.9 8.9	8.9		1.5 1.5	1.5		7.2 7.1	7.2	
M2	Sunny	Calm	8:39	Surface	1.1	25.8 25.8	25.8	8.6 8.6	8.6	32.0 32.0	32.0	149.5 150.2	149.9	10.2 10.2	10.2	9.9	1.2 1.2	1.2	1.3	9.4 9.5	9.5	9.5
				Middle	6.1	25.6 25.5	25.6	8.6 8.6	8.6	32.1 32.1	32.1	141.8 140.8	141.3	9.7 9.6	9.6		1.3 1.3	1.3		8.2 8.4	8.3	
				Bottom	11.0	23.7 23.7	23.7	8.5 8.5	8.5	33.6 33.6	33.6	91.8 91.3	91.6	6.4 6.4	6.4		1.6 1.6	1.6		10.6 10.7	10.7	
M3	Sunny	Calm	9:08	Surface	1.1	25.8 25.8	25.8	8.7 8.7	8.7	31.6 31.7	31.6	142.3 142.5	142.4	9.7 9.7	9.7	9.4	1.5 1.5	1.5	1.4	10.6 10.9	10.8	8.8
				Middle	4.0	25.5 25.5	25.5	8.7 8.7	8.7	31.7 31.7	31.7	132.2 132.2	132.2	9.1 9.1	9.1		1.4 1.4	1.5		9.2 9.0	9.1	
				Bottom	7.0	25.5 25.5	25.5	8.6 8.6	8.6	31.8 31.8	31.8	127.8 128.0	127.9	8.7 8.8	8.8		1.4 1.3	1.3		6.5 6.4	6.5	
M4	Sunny	Calm	8:35	Surface	1.1	25.8 25.8	25.8	8.6 8.6	8.6	32.0 32.0	32.0	146.7 147.5	147.1	10.0 10.0	10.0	9.8	1.1 1.2	1.1	1.4	7.3 6.9	7.1	6.7
				Middle	5.1	25.7 25.7	25.7	8.6 8.6	8.6	32.1 32.1	32.1	142.5 142.5	142.5	9.7 9.7	9.7		1.3 1.4	1.3		7.2 7.2	7.2	
				Bottom	9.0	23.9 23.9	23.9	8.5 8.5	8.5	33.4 33.5	33.4	96.7 95.1	95.9	6.7 6.6	6.7		1.8 1.8	1.8		5.7 5.6	5.7	
M5	Sunny	Calm	9:24	Surface	1.1	25.5 25.5	25.5	8.5 8.5	8.5	30.6 30.5	30.5	97.5 96.9	97.2	6.7 6.7	6.7	6.1	1.7 1.7	1.7	2.7	6.4 6.4	6.4	7.3
				Middle	6.0	23.4 23.4	23.4	8.5 8.5	8.5	33.4 33.4	33.4	80.5 78.2	79.4	5.7 5.5	5.6		3.2 3.0	3.1		10.1 9.5	9.8	
				Bottom	11.1	22.6 22.6	22.6	8.5 8.5	8.5	34.6 34.5	34.5	73.7 73.4	73.6	5.2 5.2	5.2		3.2 3.3	3.3		5.7 5.6	5.7	
M6	Sunny	Calm	9:18	Surface	-	-	-	-	-	-	-	-	-	-	-	8.8	-	-	1.5	-	-	7.3
				Middle	2.0	25.4 25.4	25.4	8.7 8.7	8.7	31.7 31.7	31.7	129.0 128.3	128.7	8.8 8.8	8.8		8.0 8.0	8.0		7.4 7.2	7.3	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 10 July 2020 (Mid-Flood Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 3.9 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 4.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.6 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.6 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.5 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.3 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

**Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 13 July 2020**

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Moderate	18:09	Surface	1.0	26.9 26.4	26.6	8.2 8.2	8.2	34.8 34.8	34.8	91.4 91.4	91.4	6.5 6.5	6.5	6.5	0.8 0.8	0.8	1.3	8.4 8.3	8.4	7.3
				Middle	8.5	21.9 22.0	22.0	8.2 8.2	8.2	34.9 34.9	34.9	91.1 91.1	91.1	6.5 6.5	6.5		1.5 1.5	1.5		6.7 6.7	6.7	
				Bottom	16.0	21.9 21.9	21.9	8.2 8.2	8.2	34.9 34.9	34.9	90.8 90.7	90.8	6.5 6.5	6.5		1.6 1.6	1.6		6.7 6.8	6.8	
C2	Sunny	Moderate	16:27	Surface	1.1	26.6 26.6	26.6	8.2 8.2	8.2	34.9 34.9	34.9	90.8 90.9	90.9	6.5 6.5	6.5	6.5	0.8 0.8	0.8	1.3	7.7 7.6	7.7	7.8
				Middle	16.1	21.7 21.7	21.7	8.2 8.2	8.2	34.8 34.8	34.8	91.0 91.1	91.1	6.5 6.5	6.5		1.3 1.4	1.4		6.6 6.3	6.5	
				Bottom	31.1	21.5 21.5	21.5	8.2 8.2	8.2	35.1 35.0	35.1	90.1 90.0	90.1	6.4 6.4	6.4		1.7 1.8	1.7		9.1 9.4	9.3	
G1	Sunny	Moderate	17:06	Surface	1.1	26.8 26.8	26.8	8.2 8.2	8.2	34.8 34.8	34.8	93.2 93.3	93.3	6.7 6.7	6.7	6.7	0.8 0.8	0.8	1.1	6.2 6.1	6.2	6.1
				Middle	3.8	23.0 23.0	23.0	8.2 8.2	8.2	34.8 34.8	34.8	92.9 93.0	93.0	6.6 6.7	6.6		1.2 1.1	1.1		6.6 6.6	6.6	
				Bottom	6.6	22.2 21.9	22.1	8.2 8.2	8.2	35.0 35.0	35.0	89.0 88.7	88.9	6.3 6.3	6.3		1.5 1.4	1.4		5.6 5.6	5.6	
G2	Sunny	Moderate	16:46	Surface	1.0	26.2 26.1	26.1	8.2 8.2	8.2	34.9 34.8	34.8	91.9 91.8	91.9	6.6 6.6	6.6	6.5	0.9 0.9	0.9	1.2	6.3 6.4	6.4	7.0
				Middle	5.1	22.8 22.8	22.8	8.2 8.2	8.2	34.8 34.9	34.8	91.0 91.1	91.1	6.5 6.5	6.5		1.2 1.2	1.2		6.7 6.5	6.6	
				Bottom	9.1	21.8 21.6	21.7	8.2 8.2	8.2	35.1 35.1	35.1	88.9 88.8	88.9	6.3 6.3	6.3		1.6 1.6	1.6		7.9 7.9	7.9	
G3	Sunny	Moderate	17:13	Surface	1.0	27.0 27.3	27.2	8.2 8.2	8.2	34.8 34.8	34.8	90.7 90.9	90.8	6.5 6.5	6.5	6.5	0.8 0.8	0.8	1.3	5.8 5.7	5.8	9.1
				Middle	3.7	22.9 23.1	23.0	8.2 8.2	8.2	34.8 34.8	34.8	91.8 92.0	91.9	6.6 6.6	6.6		1.4 1.3	1.4		11.7 11.4	11.6	
				Bottom	6.6	22.3 22.0	22.2	8.2 8.2	8.2	35.0 35.0	35.0	91.0 90.6	90.8	6.5 6.5	6.5		1.7 1.6	1.6		10.0 9.8	9.9	
G4	Sunny	Moderate	17:26	Surface	1.1	27.1 27.1	27.1	8.2 8.2	8.2	34.8 34.8	34.8	92.3 92.6	92.5	6.6 6.6	6.6	6.6	1.2 1.2	1.2	1.5	10.8 10.8	10.8	8.5
				Middle	3.7	23.3 23.4	23.4	8.2 8.2	8.2	34.8 34.8	34.8	91.9 92.1	92.0	6.6 6.6	6.6		1.6 1.6	1.6		8.1 8.6	8.4	
				Bottom	6.5	21.9 21.9	21.9	8.2 8.2	8.2	34.9 34.9	34.9	91.4 91.2	91.3	6.5 6.5	6.5		1.8 1.8	1.8		6.3 6.3	6.3	
M1	Sunny	Moderate	16:52	Surface	1.0	27.2 27.2	27.2	8.2 8.2	8.2	34.8 34.8	34.8	90.9 90.9	90.9	6.5 6.5	6.5	6.5	0.7 0.8	0.7	1.4	5.5 5.6	5.6	15.8
				Middle	3.0	25.6 25.9	25.7	8.2 8.2	8.2	34.8 34.8	34.8	90.9 90.9	90.9	6.5 6.5	6.5		1.5 1.5	1.5		10.0 10.3	10.2	
				Bottom	5.1	22.5 22.3	22.4	8.2 8.2	8.2	35.1 35.1	35.1	90.8 90.7	90.8	6.5 6.5	6.5		2.0 1.9	2.0		31.3 32.1	31.7	
M2	Sunny	Moderate	16:40	Surface	1.1	26.4 26.5	26.4	8.2 8.2	8.2	34.8 34.9	34.8	91.8 91.9	91.9	6.6 6.6	6.6	6.5	0.8 0.9	0.9	1.2	30.0 31.1	30.6	15.5
				Middle	5.3	22.0 22.1	22.0	8.2 8.2	8.2	34.9 34.9	34.9	91.3 91.4	91.4	6.5 6.5	6.5		1.3 1.4	1.3		9.2 9.1	9.2	
				Bottom	9.5	21.5 21.5	21.5	8.2 8.2	8.2	35.0 35.0	35.0	90.9 90.8	90.9	6.5 6.5	6.5		1.5 1.6	1.5		6.8 7.0	6.9	
M3	Sunny	Moderate	17:21	Surface	1.0	26.8 27.0	26.9	8.2 8.2	8.2	34.8 34.8	34.8	91.9 92.0	92.0	6.6 6.6	6.6	6.5	0.8 0.8	0.8	1.1	9.9 10.2	10.1	8.5
				Middle	3.7	23.0 22.9	23.0	8.2 8.2	8.2	34.8 34.8	34.8	91.3 91.3	91.3	6.5 6.5	6.5		1.2 1.2	1.2		9.0 8.8	8.9	
				Bottom	6.6	22.0 22.0	22.0	8.2 8.2	8.2	35.0 34.8	34.9	89.4 89.1	89.3	6.3 6.3	6.3		1.4 1.5	1.4		6.6 6.6	6.6	
M4	Sunny	Moderate	16:33	Surface	1.1	26.4 26.4	26.4	8.2 8.2	8.2	34.9 34.9	34.9	90.7 90.7	90.7	6.5 6.5	6.5	6.5	0.8 0.8	0.8	1.3	7.4 7.4	7.4	23.1
				Middle	5.1	23.0 23.0	23.0	8.2 8.2	8.2	34.9 34.9	34.9	90.7 90.7	90.7	6.5 6.5	6.5		1.5 1.4	1.4		26.9 26.5	26.7	
				Bottom	9.0	21.6 21.6	21.6	8.2 8.2	8.2	35.0 35.0	35.0	90.7 90.8	90.8	6.5 6.5	6.5		1.7 1.7	1.7		34.9 35.3	35.1	
M5	Sunny	Moderate	17:59	Surface	1.0	26.0 26.0	26.0	8.2 8.2	8.2	34.9 34.8	34.8	91.1 91.4	91.3	6.5 6.5	6.5	6.5	0.9 0.9	0.9	1.3	30.7 30.5	30.6	12.9
				Middle	5.5	24.8 24.8	24.8	8.2 8.2	8.2	34.9 34.8	34.9	90.7 90.7	90.7	6.5 6.5	6.5		1.4 1.4	1.4		4.1 4.2	4.2	
				Bottom	10.0	21.8 21.8	21.8	8.2 8.3	8.2	35.0 35.0	35.0	91.5 91.4	91.5	6.5 6.5	6.5		1.6 1.6	1.6		3.9 4.0	4.0	
M6	Sunny	Moderate	17:41	Surface	-	-	-	-	-	-	-	-	-	-	6.5	-	-	0.8	-	-	7.2	
				Middle	2.0	25.5 25.6	25.6	8.2 8.2	8.2	34.8 34.8	34.8	91.7 91.8	91.8	6.5 6.6		6.5	0.8 0.8		0.8	7.2 7.2		7.2
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 13 July 2020 (Mid-Ebb Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.1 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 9.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.9 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 9.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.9 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 11.1 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 12.0 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 13 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*	
C1	Sunny	Moderate	12:00	Surface	1.1	25.5 26.7	26.1	8.2 8.2	8.2	35.0 35.0	35.0	91.3 91.3	91.3	6.7 6.7	6.7	6.7	6.7	0.8 0.8	0.8	1.5	8.9 9.0	9.0	6.5
				Middle	9.1	22.0 22.1	22.0	8.2 8.2	8.2	35.0 35.0	35.0	91.0 91.0	91.0	6.7 6.6	6.6	1.6 1.7		1.6	5.5 5.6		5.6		
				Bottom	17.0	21.9 21.9	21.9	8.2 8.2	8.2	35.1 35.1	35.1	90.9 90.8	90.9	6.7 6.6	6.6	2.0 2.0		2.0	4.8 5.0		4.9		
C2	Sunny	Moderate	10:31	Surface	1.1	26.7 26.7	26.7	8.1 8.1	8.1	35.0 35.0	35.0	91.3 91.2	91.3	6.7 6.7	6.7	6.7	1.0 0.9	1.0	1.7	7.0 7.1	7.1	6.9	
				Middle	16.5	21.7 21.7	21.7	8.2 8.2	8.2	35.0 35.0	35.0	91.5 91.5	91.5	6.7 6.7	6.7		1.9 1.9	1.9		6.3 6.4	6.4		
				Bottom	32.0	21.5 21.5	21.5	8.2 8.2	8.2	35.2 35.2	35.2	90.3 90.1	90.2	6.6 6.6	6.6		2.2 2.2	2.2		7.4 7.3	7.4		
G1	Sunny	Moderate	11:07	Surface	1.0	26.9 26.8	26.9	8.2 8.2	8.2	35.0 35.0	35.0	92.8 92.9	92.9	6.7 6.8	6.8	6.8	0.9 0.9	0.9	1.3	9.5 9.8	9.7	7.8	
				Middle	4.0	23.0 23.0	23.0	8.2 8.2	8.2	35.0 35.0	35.0	92.1 92.3	92.2	6.8 6.8	6.8		1.5 1.5	1.5		7.9 7.7	7.8		
				Bottom	7.1	22.4 22.0	22.2	8.2 8.2	8.2	35.1 35.1	35.1	91.3 90.9	91.1	6.7 6.7	6.7		1.6 1.6	1.6		5.9 6.0	6.0		
G2	Sunny	Moderate	10:50	Surface	1.0	26.1 26.2	26.1	8.2 8.2	8.2	35.0 35.0	35.0	92.0 91.9	92.0	6.7 6.7	6.7	6.7	1.0 1.0	1.0	1.7	9.9 9.7	9.8	6.7	
				Middle	5.0	22.8 22.8	22.8	8.2 8.2	8.2	35.0 35.0	35.0	91.0 91.0	91.0	6.7 6.7	6.7		1.9 1.9	1.9		5.4 5.2	5.3		
				Bottom	9.1	22.0 21.7	21.8	8.2 8.2	8.2	35.2 35.2	35.2	89.5 89.0	89.3	6.5 6.5	6.5		2.2 2.4	2.3		5.0 5.2	5.1		
G3	Sunny	Moderate	11:13	Surface	1.0	27.0 27.2	27.1	8.2 8.2	8.2	35.0 35.0	35.0	90.7 90.8	90.8	6.5 6.6	6.6	6.7	0.9 0.9	0.9	1.0	6.0 6.0	6.0	6.2	
				Middle	4.1	23.0 23.2	23.1	8.2 8.2	8.2	35.0 35.0	35.0	91.8 91.9	91.9	6.7 6.7	6.7		1.0 1.0	1.0		5.5 5.5	5.5		
				Bottom	7.1	22.6 22.1	22.4	8.2 8.2	8.2	35.1 35.2	35.1	90.1 89.9	90.0	6.6 6.6	6.6		1.1 1.2	1.1		7.1 7.3	7.2		
G4	Sunny	Moderate	11:29	Surface	1.0	27.0 27.1	27.1	8.2 8.2	8.2	35.0 35.0	35.0	92.5 92.7	92.6	6.6 6.8	6.7	6.7	0.8 0.9	0.8	1.4	9.9 9.6	9.8	8.1	
				Middle	4.1	23.3 23.4	23.4	8.2 8.2	8.2	35.0 35.0	35.0	92.1 92.3	92.2	6.7 6.8	6.8		1.6 1.6	1.6		7.1 7.3	7.2		
				Bottom	7.1	21.9 21.9	21.9	8.2 8.2	8.2	35.0 35.0	35.0	90.5 90.1	90.3	6.6 6.6	6.6		1.7 1.7	1.7		7.3 7.5	7.4		
M1	Sunny	Moderate	10:57	Surface	1.1	27.1 27.2	27.2	8.2 8.2	8.2	35.0 35.0	35.0	91.1 91.1	91.1	6.6 6.6	6.6	6.6	0.9 0.9	0.9	1.4	8.6 8.9	8.8	8.4	
				Middle	3.0	25.7 26.2	26.0	8.2 8.2	8.2	35.0 35.0	35.0	91.1 91.1	91.1	6.7 6.7	6.7		1.5 1.6	1.5		8.9 8.7	8.8		
				Bottom	5.0	22.6 22.4	22.5	8.2 8.2	8.2	35.2 35.2	35.2	90.8 90.8	90.8	6.7 6.7	6.7		1.6 1.6	1.6		7.9 7.5	7.7		
M2	Sunny	Moderate	10:42	Surface	1.0	26.3 26.4	26.3	8.2 8.2	8.2	35.0 35.0	35.0	91.9 92.0	92.0	6.7 6.8	6.7	6.7	1.0 1.0	1.0	1.4	33.9 34.0	34.0	18.2	
				Middle	5.6	22.0 22.1	22.1	8.2 8.2	8.2	35.0 35.0	35.0	91.6 91.7	91.7	6.7 6.7	6.7		1.6 1.6	1.6		10.2 10.3	10.3		
				Bottom	10.0	21.5 21.5	21.5	8.2 8.2	8.2	35.2 35.2	35.2	90.3 89.9	90.1	6.6 6.6	6.6		1.8 1.8	1.8		10.4 10.3	10.4		
M3	Sunny	Moderate	11:21	Surface	1.1	26.9 26.9	26.9	8.2 8.2	8.2	35.0 35.0	35.0	91.5 91.5	91.5	6.6 6.7	6.6	6.7	0.9 0.9	0.9	1.4	6.7 6.8	6.8	6.5	
				Middle	4.1	23.0 23.0	23.0	8.2 8.2	8.2	35.0 35.0	35.0	91.1 91.0	91.1	6.7 6.7	6.7		1.5 1.5	1.5		7.5 7.5	7.5		
				Bottom	7.0	22.1 22.0	22.0	8.2 8.2	8.2	35.0 35.0	35.0	89.5 89.3	89.4	6.6 6.5	6.5		1.8 1.7	1.7		5.1 5.1	5.1		
M4	Sunny	Moderate	10:37	Surface	1.0	26.3 26.4	26.4	8.2 8.2	8.2	35.0 35.0	35.0	91.2 91.2	91.2	6.5 6.7	6.6	6.6	1.0 0.9	1.0	1.6	7.9 8.1	8.0	7.7	
				Middle	5.0	23.4 23.3	23.3	8.2 8.2	8.2	35.0 35.0	35.0	91.0 91.0	91.0	6.7 6.7	6.7		1.8 1.7	1.7		4.6 4.6	4.6		
				Bottom	9.1	21.6 21.6	21.6	8.2 8.2	8.2	35.2 35.2	35.2	91.0 91.1	91.1	6.7 6.7	6.7		2.0 2.1	2.1		10.5 10.3	10.4		
M5	Sunny	Moderate	11:47	Surface	1.1	26.1 26.0	26.0	8.2 8.2	8.2	35.0 35.0	35.0	91.5 91.6	91.6	6.7 6.7	6.7	6.6	1.1 1.0	1.1	1.7	29.6 29.8	29.7	17.4	
				Middle	6.1	24.8 24.2	24.5	8.2 8.2	8.2	35.1 35.0	35.1	90.8 91.0	90.9	6.6 6.5	6.6		1.9 1.9	1.9		16.7 16.7	16.7		
				Bottom	11.0	21.8 21.8	21.8	8.2 8.2	8.2	35.1 35.1	35.1	91.3 91.2	91.3	6.7 6.7	6.7		2.1 2.1	2.1		5.8 5.7	5.8		
M6	Sunny	Moderate	11:35	Surface	-	-	-	-	-	-	-	-	-	-	6.7	-	-	0.9	-	-	11.7		
				Middle	2.2	25.5 25.6	25.5	8.2 8.2	8.2	35.0 35.0	35.0	91.6 91.8	91.7	6.7 6.7		6.7	8.0 8.0		8.0	11.6 11.7		11.7	
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 13 July 2020 (Mid-Flood Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.4 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.6 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 10.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 11.6 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 10.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 11.6 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 5.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 6.4 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

**Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 15 July 2020**

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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	Value	Average	DA*	Value	Average	DA*	Value
C1	Sunny	Calm	10:04	Surface	1.1	25.7 26.9	26.3	8.8 8.8	8.8	31.3 30.0	30.6	132.0 132.2	132.1	9.0 8.9	9.0	7.4	1.7 1.7	1.7	1.5	8.9 8.8	8.9	8.4
				Middle	9.0	22.2 22.3	22.2	8.6 8.6	8.6	35.2 35.3	35.2	81.9 84.7	83.3	5.8 6.0	5.9		1.4 1.4	1.4		5.9 5.8	5.9	
				Bottom	17.1	22.1 22.1	22.1	8.5 8.5	8.5	35.3 35.3	35.3	75.3 75.0	75.2	5.4 5.3	5.3		1.5 1.5	1.5		10.5 10.7	10.6	
C2	Sunny	Calm	9:27	Surface	1.1	26.9 26.9	26.9	8.8 8.8	8.8	32.7 32.7	32.7	161.8 164.4	163.1	10.8 10.9	10.8	8.0	1.1 1.1	1.1	1.8	9.9 10.1	10.0	7.8
				Middle	16.1	21.9 21.9	21.9	8.5 8.5	8.5	35.5 35.5	35.5	72.7 73.0	72.9	5.2 5.2	5.2		1.4 1.4	1.4		6.8 6.6	6.7	
				Bottom	31.0	21.7 21.7	21.7	8.5 8.5	8.5	35.6 35.6	35.6	69.1 68.2	68.7	4.9 4.9	4.9		2.8 3.0	2.9		6.6 6.5	6.6	
G1	Sunny	Calm	9:48	Surface	1.1	27.1 27.0	27.1	8.9 8.9	8.9	32.4 32.4	32.4	172.0 174.2	173.1	11.4 11.6	11.5	9.5	1.3 1.3	1.3	1.5	7.8 7.7	7.8	8.7
				Middle	4.1	23.2 23.2	23.2	8.6 8.6	8.6	34.7 34.9	34.8	105.9 111.5	108.7	7.4 7.8	7.6		1.4 1.4	1.4		9.4 9.5	9.5	
				Bottom	7.0	22.6 22.2	22.4	8.4 8.4	8.4	35.0 35.3	35.2	75.2 71.8	73.5	5.3 5.1	5.2		1.8 2.0	1.9		8.9 9.1	9.0	
G2	Sunny	Calm	9:37	Surface	1.1	26.3 26.4	26.4	8.8 8.8	8.8	32.4 32.4	32.4	161.4 164.4	162.9	10.9 11.0	10.9	9.0	1.5 1.5	1.5	1.5	9.6 9.4	9.5	7.9
				Middle	5.1	23.0 23.0	23.0	8.6 8.6	8.6	34.9 34.9	34.9	95.0 104.8	99.9	6.7 7.4	7.0		1.5 1.5	1.5		5.6 5.8	5.7	
				Bottom	9.0	22.2 21.9	22.0	8.5 8.5	8.5	35.3 35.5	35.4	74.2 72.3	73.3	5.3 5.2	5.2		1.4 1.5	1.5		8.4 8.4	8.4	
G3	Sunny	Calm	9:49	Surface	1.0	27.2 27.4	27.3	8.9 8.9	8.9	32.3 32.2	32.2	177.5 178.6	178.1	11.8 11.8	11.8	9.8	1.3 1.3	1.3	1.6	8.1 8.2	8.2	7.6
				Middle	4.0	23.2 23.4	23.3	8.6 8.6	8.6	34.6 34.7	34.7	104.8 116.0	110.4	7.3 8.1	7.7		1.5 1.7	1.6		9.7 9.9	9.8	
				Bottom	7.0	22.8 22.4	22.6	8.5 8.4	8.4	34.9 35.2	35.1	79.0 69.3	74.2	5.6 4.9	5.2		1.7 2.1	1.9		4.7 4.7	4.7	
G4	Sunny	Calm	9:52	Surface	1.0	27.3 27.3	27.3	8.9 8.9	8.9	32.3 32.2	32.3	181.4 181.5	181.5	12.0 12.0	12.0	10.0	1.2 1.2	1.2	2.0	6.6 6.7	6.7	6.0
				Middle	4.1	23.6 23.6	23.6	8.6 8.6	8.6	34.5 34.5	34.5	115.4 116.5	116.0	8.0 8.1	8.1		1.3 1.4	1.3		7.0 6.8	6.9	
				Bottom	7.0	22.1 22.1	22.1	8.4 8.4	8.4	35.5 35.4	35.5	64.5 57.5	61.0	4.6 4.1	4.3		3.0 3.7	3.3		4.3 4.3	4.3	
M1	Sunny	Calm	9:41	Surface	1.1	27.3 27.4	27.4	8.8 8.8	8.8	32.6 32.6	32.6	146.3 151.6	149.0	9.7 10.0	9.8	9.5	1.3 1.3	1.3	2.8	7.1 6.9	7.0	8.3
				Middle	3.2	25.9 26.4	26.2	8.8 8.8	8.8	33.4 33.2	33.3	135.0 139.2	137.1	9.1 9.3	9.2		2.7 2.8	2.8		7.7 7.8	7.8	
				Bottom	5.1	22.8 22.7	22.7	8.5 8.5	8.5	35.5 35.3	35.4	95.9 78.8	87.4	6.7 5.6	6.1		4.5 4.3	4.4		10.3 10.1	10.2	
M2	Sunny	Calm	9:35	Surface	1.1	26.5 26.6	26.6	8.8 8.8	8.8	32.4 32.4	32.4	153.2 164.9	159.1	10.3 11.0	10.7	8.3	1.6 1.5	1.5	1.6	4.5 4.3	4.4	6.3
				Middle	6.1	22.2 22.3	22.3	8.5 8.5	8.5	35.2 35.2	35.2	81.7 85.5	83.6	5.8 6.1	5.9		1.4 1.5	1.5		5.6 5.8	5.7	
				Bottom	11.0	21.7 21.8	21.8	8.5 8.5	8.5	35.6 35.6	35.6	66.0 65.3	65.7	4.7 4.7	4.7		1.7 1.8	1.8		8.6 9.0	8.8	
M3	Sunny	Calm	9:51	Surface	1.0	27.1 27.1	27.1	8.9 8.9	8.9	32.3 32.4	32.3	179.2 182.5	180.9	11.9 12.1	12.0	9.5	1.2 1.3	1.3	1.6	11.5 11.6	11.6	9.1
				Middle	4.1	23.2 23.3	23.2	8.6 8.6	8.6	34.7 34.7	34.7	99.6 97.9	98.8	7.0 6.8	6.9		1.5 1.4	1.4		6.2 6.5	6.4	
				Bottom	7.1	22.3 22.2	22.2	8.4 8.4	8.4	35.3 35.3	35.3	60.9 58.3	59.6	4.3 4.1	4.2		2.0 2.1	2.0		9.2 9.5	9.4	
M4	Sunny	Calm	9:33	Surface	1.0	26.5 26.6	26.6	8.9 8.9	8.9	32.4 32.4	32.4	166.7 166.9	166.8	11.2 11.2	11.2	9.4	2.1 2.3	2.2	1.8	9.2 9.7	9.5	9.2
				Middle	5.1	23.6 23.5	23.5	8.6 8.6	8.6	34.5 34.7	34.6	111.6 107.1	109.4	7.8 7.5	7.6		1.7 1.7	1.7		11.1 11.0	11.1	
				Bottom	9.1	21.8 21.8	21.8	8.5 8.5	8.5	35.5 35.5	35.5	75.4 74.7	75.1	5.4 5.3	5.4		1.4 1.5	1.4		7.1 7.0	7.1	
M5	Sunny	Calm	10:03	Surface	1.1	26.3 26.2	26.2	8.8 8.8	8.8	30.4 30.4	30.4	124.2 123.8	124.0	8.5 8.4	8.4	8.2	1.6 1.7	1.6	1.5	6.2 6.1	6.2	7.4
				Middle	6.0	25.0 24.4	24.7	8.7 8.6	8.7	33.2 33.5	33.4	124.5 107.7	116.1	8.5 7.6	8.0		1.4 1.4	1.4		6.1 6.4	6.3	
				Bottom	11.0	22.0 22.0	22.0	8.6 8.6	8.6	35.4 35.4	35.4	78.4 76.8	77.6	5.6 5.5	5.5		1.5 1.5	1.5		9.7 9.6	9.7	
M6	Sunny	Calm	9:56	Surface	-	-	-	-	-	-	-	-	-	-	9.9	-	-	1.8	-	-	7.1	
				Middle	2.2	25.7 25.8	25.7	8.8 8.9	8.9	32.9 32.9	32.9	137.2 155.4	146.3	9.3 10.5		9.9	1.8 1.8		1.8	7.1 7.1		7.1
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 15 July 2020 (Mid-Ebb Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 3.5 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 3.8 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 12.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 13.0 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 12.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 13.0 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 7.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 8.5 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 15 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	14:54	Surface	1.2	27.1 26.6	26.9	8.8 8.8	8.8	30.1 29.9	30.0	132.0 135.7	133.9	8.8 9.2	9.0	7.4	1.7 1.7	1.7	1.5	9.7 9.9	9.8	7.9
				Middle	9.1	22.1 22.2	22.2	8.6 8.6	8.6	35.3 35.3	35.3	81.1 82.9	82.0	5.8 5.9	5.8		1.5 1.4	1.4		8.4 8.2	8.3	
				Bottom	17.1	22.1 22.1	22.1	8.5 8.5	8.5	35.3 35.3	35.3	75.1 74.8	75.0	5.3 5.3	5.3		1.5 1.5	1.5		5.7 5.7	5.7	
C2	Sunny	Calm	14:18	Surface	1.2	26.8 26.8	26.8	8.8 8.8	8.8	32.7 32.7	32.7	167.2 168.4	167.8	11.1 11.2	11.2	8.3	1.4 1.4	1.4	2.5	6.8 6.6	6.7	8.7
				Middle	16.1	21.9 22.0	21.9	8.5 8.5	8.5	35.5 35.5	35.5	74.3 75.9	75.1	5.3 5.4	5.4		1.5 1.4	1.5		7.8 8.0	7.9	
				Bottom	31.0	21.7 21.7	21.7	8.4 8.4	8.4	35.6 35.6	35.6	65.6 65.3	65.5	4.7 4.7	4.7		4.6 4.8	4.7		11.7 11.5	11.6	
G1	Sunny	Calm	14:37	Surface	1.1	27.0 27.1	27.0	8.9 8.9	8.9	32.4 32.4	32.4	173.1 176.2	174.7	11.5 11.7	11.6	9.5	1.3 1.3	1.3	1.5	8.6 8.7	8.7	8.1
				Middle	4.2	23.2 23.2	23.2	8.6 8.6	8.6	34.7 34.7	34.7	104.9 107.3	106.1	7.3 7.5	7.4		1.4 1.4	1.4		6.7 6.8	6.8	
				Bottom	7.0	22.4 22.1	22.3	8.4 8.4	8.4	35.2 35.4	35.3	73.1 67.8	70.5	5.2 4.8	5.0		1.9 2.0	2.0		8.8 9.0	8.9	
G2	Sunny	Calm	14:26	Surface	1.1	26.4 26.3	26.3	8.8 8.8	8.8	32.4 32.4	32.4	162.8 166.9	164.9	10.9 11.2	11.1	8.9	1.5 1.6	1.5	1.5	10.1 10.2	10.2	8.0
				Middle	5.1	23.0 23.0	23.0	8.6 8.6	8.6	34.9 35.0	34.9	93.5 97.8	95.7	6.6 6.9	6.7		1.5 1.5	1.5		6.9 7.1	7.0	
				Bottom	9.0	22.0 21.8	21.9	8.5 8.5	8.5	35.4 35.5	35.4	73.1 71.9	72.5	5.2 5.1	5.2		1.5 1.6	1.5		6.8 6.9	6.9	
G3	Sunny	Calm	14:39	Surface	1.0	27.2 27.5	27.4	8.9 8.9	8.9	32.3 32.1	32.2	178.1 179.4	178.8	11.8 11.8	11.8	9.6	1.3 1.3	1.3	1.6	7.8 8.0	7.9	7.3
				Middle	4.1	23.2 23.3	23.2	8.6 8.6	8.6	34.7 34.6	34.7	103.7 107.5	105.6	7.3 7.5	7.4		1.4 1.8	1.6		8.7 8.8	8.8	
				Bottom	7.0	22.6 22.2	22.4	8.4 8.4	8.4	35.1 35.3	35.2	72.1 63.8	68.0	5.1 4.5	4.8		1.9 2.3	2.1		5.2 5.2	5.2	
G4	Sunny	Calm	14:42	Surface	1.0	27.3 27.3	27.3	8.9 8.9	8.9	32.3 32.2	32.2	181.2 182.1	181.7	12.0 12.1	12.0	10.0	1.2 1.2	1.2	2.0	6.4 6.5	6.5	6.5
				Middle	4.1	23.5 23.6	23.6	8.6 8.6	8.6	34.5 34.5	34.5	115.1 115.5	115.3	8.0 8.0	8.0		1.3 1.3	1.3		6.1 6.3	6.2	
				Bottom	7.0	22.1 22.1	22.1	8.4 8.4	8.4	35.5 35.4	35.4	59.4 55.7	57.6	4.2 4.0	4.1		3.3 3.9	3.6		6.7 6.8	6.8	
M1	Sunny	Calm	14:30	Surface	1.1	27.4 27.4	27.4	8.8 8.8	8.8	32.6 32.6	32.6	149.6 153.0	151.3	9.9 10.1	10.0	9.5	1.3 1.3	1.3	3.0	6.8 6.8	6.8	6.9
				Middle	3.2	25.8 26.1	26.0	8.8 8.8	8.8	33.5 33.3	33.4	129.3 136.3	132.8	8.7 9.1	8.9		3.4 3.4	3.4		6.7 6.6	6.7	
				Bottom	5.1	22.7 22.6	22.6	8.5 8.5	8.5	35.4 35.2	35.3	83.5 69.8	76.7	5.9 4.9	5.4		4.4 4.4	4.4		7.3 7.3	7.3	
M2	Sunny	Calm	14:24	Surface	1.1	26.6 26.7	26.6	8.8 8.8	8.8	32.4 32.4	32.4	161.5 165.6	163.6	10.8 11.1	10.9	8.4	1.5 1.4	1.5	1.5	6.5 6.4	6.5	12.2
				Middle	6.1	22.2 22.3	22.2	8.5 8.5	8.5	35.3 35.2	35.2	80.6 83.3	82.0	5.7 5.9	5.8		1.4 1.5	1.5		7.0 7.3	7.2	
				Bottom	11.1	21.7 21.8	21.8	8.5 8.5	8.5	35.6 35.6	35.6	65.8 65.4	65.6	4.7 4.7	4.7		1.5 1.6	1.5		23.0 23.2	23.1	
M3	Sunny	Calm	14:40	Surface	1.0	27.0 27.2	27.1	8.9 8.9	8.9	32.4 32.3	32.3	181.4 183.3	182.4	12.1 12.1	12.1	9.5	1.3 1.2	1.3	1.9	7.5 7.7	7.6	7.6
				Middle	4.0	23.2 23.2	23.2	8.6 8.6	8.6	34.6 34.7	34.7	99.9 99.2	99.6	7.0 7.0	7.0		1.5 1.4	1.5		8.6 8.7	8.7	
				Bottom	7.0	22.2 22.2	22.2	8.4 8.4	8.4	35.3 35.3	35.3	59.4 57.4	58.4	4.2 4.1	4.1		2.9 3.1	3.0		6.5 6.6	6.6	
M4	Sunny	Calm	14:23	Surface	1.0	26.6 26.6	26.6	8.9 8.9	8.9	32.4 32.4	32.4	167.0 166.9	167.0	11.2 11.2	11.2	9.1	2.3 2.4	2.4	1.8	7.8 7.9	7.9	6.7
				Middle	5.1	23.2 23.2	23.2	8.6 8.6	8.6	34.8 34.7	34.8	99.2 100.7	100.0	6.9 7.0	7.0		1.5 1.6	1.6		7.4 7.5	7.5	
				Bottom	9.0	21.8 21.8	21.8	8.5 8.5	8.5	35.5 35.5	35.5	74.0 73.1	73.6	5.3 5.2	5.3		1.5 1.5	1.5		5.0 4.8	4.9	
M5	Sunny	Calm	14:52	Surface	1.1	26.2 26.2	26.2	8.8 8.8	8.8	30.4 30.4	30.4	124.0 123.8	123.9	8.4 8.4	8.4	8.4	1.7 1.6	1.6	1.5	9.3 9.5	9.4	9.0
				Middle	6.1	25.0 25.0	25.0	8.7 8.7	8.7	33.1 33.2	33.2	126.9 118.0	122.5	8.7 8.1	8.4		1.4 1.4	1.4		8.9 8.8	8.9	
				Bottom	11.1	22.0 22.0	22.0	8.6 8.6	8.6	35.4 35.4	35.4	77.5 76.3	76.9	5.5 5.4	5.5		1.5 1.5	1.5		8.6 8.9	8.8	
M6	Sunny	Calm	14:45	Surface	-	-	-	-	-	-	-	-	-	-	-	10.5	-	-	1.8	-	-	8.5
				Middle	2.2	25.7 25.8	25.8	8.9 8.9	8.9	32.9 32.9	32.9	149.8 159.8	154.8	10.1 10.8	10.5		8.0 8.0	8.0		8.6 8.4	8.5	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 15 July 2020 (Mid-Flood Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 1.8 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 1.9 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 11.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 12.7 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 11.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 12.7 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 6.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 7.4 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

**Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 17 July 2020**

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Cloudy	Moderate	10:43	Surface	1.1	26.6 26.6	26.6	8.7 8.7	8.7	28.2 28.3	28.3	107.4 109.3	108.4	7.4 7.5	7.4	6.2	1.7 1.7	1.7	2.7	4.7 4.7	4.7	6.8
				Middle	9.1	22.9 22.9	22.9	8.5 8.5	8.5	34.2 34.2	34.2	75.2 67.5	71.4	5.3 4.8	5.0		3.0 2.9	2.9		7.5 7.1	7.3	
				Bottom	17.0	22.4 22.3	22.4	8.5 8.5	8.5	34.9 35.0	34.9	61.5 60.9	61.2	4.4 4.3	4.3		3.5 3.6	3.5		8.3 8.6	8.5	
C2	Cloudy	Moderate	9:45	Surface	1.0	26.7 26.7	26.7	8.8 8.8	8.8	30.4 30.4	30.4	139.6 139.4	139.5	9.4 9.4	9.4	8.5	1.3 1.3	1.3	1.4	10.8 10.6	10.7	8.3
				Middle	16.1	23.9 24.1	24.0	8.6 8.6	8.6	33.7 33.5	33.6	107.3 109.0	108.2	7.5 7.6	7.5		1.3 1.2	1.3		7.8 7.5	7.7	
				Bottom	31.1	22.6 22.5	22.5	8.5 8.5	8.5	34.9 35.0	34.9	75.2 74.4	74.8	5.3 5.3	5.3		1.5 1.6	1.5		6.6 6.6	6.6	
G1	Cloudy	Moderate	10:12	Surface	1.0	26.8 26.8	26.8	8.8 8.8	8.8	30.8 30.8	30.8	124.8 125.8	125.3	8.4 8.5	8.4	8.5	1.3 1.3	1.3	1.8	9.8 9.9	9.9	8.4
				Middle	4.1	26.0 25.9	25.9	8.8 8.8	8.8	31.3 31.5	31.4	127.0 126.6	126.8	8.6 8.6	8.6		1.5 1.5	1.5		9.1 9.2	9.2	
				Bottom	7.1	22.0 22.0	22.0	8.5 8.5	8.5	35.5 35.5	35.5	58.7 57.6	58.2	4.2 4.1	4.1		2.6 2.7	2.6		6.2 6.3	6.3	
G2	Cloudy	Moderate	10:01	Surface	1.0	27.1 27.0	27.1	8.8 8.8	8.8	30.9 30.9	30.9	140.8 141.3	141.1	9.4 9.5	9.4	7.5	1.4 1.4	1.4	1.8	7.7 7.6	7.7	15.0
				Middle	5.1	22.5 22.3	22.4	8.5 8.5	8.5	34.9 35.2	35.0	83.8 74.2	79.0	5.9 5.3	5.6		1.5 1.5	1.5		5.3 5.1	5.2	
				Bottom	9.0	21.9 21.9	21.9	8.5 8.5	8.5	35.6 35.6	35.6	65.8 65.2	65.5	4.7 4.6	4.7		2.5 2.5	2.5		32.3 31.7	32.0	
G3	Cloudy	Moderate	10:17	Surface	1.1	26.9 27.0	27.0	8.8 8.8	8.8	30.7 30.7	30.7	130.3 130.5	130.4	8.8 8.8	8.8	8.6	1.4 1.4	1.4	1.8	11.3 11.2	11.3	7.7
				Middle	4.0	26.4 26.1	26.3	8.8 8.8	8.8	31.2 31.4	31.3	125.6 125.3	125.5	8.5 8.5	8.5		1.5 1.5	1.5		7.6 7.4	7.5	
				Bottom	7.0	22.1 22.1	22.1	8.5 8.5	8.5	35.5 35.4	35.5	63.9 59.3	61.6	4.5 4.2	4.4		2.4 2.4	2.4		4.2 4.2	4.2	
G4	Cloudy	Moderate	10:29	Surface	1.0	27.3 27.5	27.4	8.8 8.8	8.8	30.7 30.7	30.7	147.5 148.7	148.1	9.8 9.9	9.9	9.1	1.4 1.3	1.3	1.8	4.9 4.8	4.9	6.1
				Middle	4.0	25.2 25.1	25.2	8.7 8.7	8.7	32.2 32.5	32.3	122.6 119.6	121.1	8.4 8.2	8.3		1.6 1.8	1.7		6.0 6.4	6.2	
				Bottom	7.0	22.2 22.2	22.2	8.5 8.5	8.5	35.0 35.3	35.1	84.5 68.0	76.3	6.0 4.8	5.4		2.5 2.4	2.5		7.2 7.0	7.1	
M1	Cloudy	Moderate	10:07	Surface	1.0	27.9 27.9	27.9	8.9 8.9	8.9	30.8 30.8	30.8	153.6 153.6	153.6	10.1 10.2	10.1	9.7	1.2 1.2	1.2	1.9	7.9 7.7	7.8	7.0
				Middle	3.1	26.1 26.2	26.2	8.9 8.8	8.8	31.6 31.5	31.6	136.3 135.7	136.0	9.2 9.2	9.2		1.5 1.4	1.4		6.9 7.0	7.0	
				Bottom	5.0	23.5 23.3	23.4	8.6 8.6	8.6	34.0 34.3	34.2	87.9 82.0	85.0	6.2 5.7	5.9		2.9 3.0	3.0		6.3 6.3	6.3	
M2	Cloudy	Moderate	9:56	Surface	1.0	26.8 26.7	26.7	8.8 8.8	8.8	31.0 31.1	31.0	138.4 138.7	138.6	9.3 9.3	9.3	7.2	1.4 1.4	1.4	1.8	9.4 9.6	9.5	8.8
				Middle	6.1	22.4 22.4	22.4	8.5 8.5	8.5	35.1 35.1	35.1	74.5 69.7	72.1	5.3 4.9	5.1		1.5 1.5	1.5		7.5 7.7	7.6	
				Bottom	11.0	21.9 21.9	21.9	8.4 8.4	8.4	35.6 35.6	35.6	65.0 64.6	64.8	4.6 4.6	4.6		2.5 2.6	2.5		9.2 9.3	9.3	
M3	Cloudy	Moderate	10:22	Surface	1.1	27.2 27.2	27.2	8.8 8.8	8.8	30.7 30.7	30.7	131.1 137.7	134.4	8.8 9.2	9.0	8.7	1.4 1.4	1.4	1.9	7.3 7.5	7.4	7.5
				Middle	4.0	25.0 25.1	25.0	8.8 8.8	8.8	32.3 32.4	32.4	121.4 120.7	121.1	8.4 8.3	8.3		1.7 1.7	1.7		5.9 5.8	5.9	
				Bottom	7.1	22.4 22.3	22.4	8.5 8.5	8.5	35.2 35.2	35.2	69.1 65.4	67.3	4.9 4.6	4.8		2.5 2.5	2.5		9.5 9.1	9.3	
M4	Cloudy	Moderate	9:50	Surface	1.1	27.1 27.1	27.1	8.8 8.8	8.8	30.8 30.8	30.8	146.1 146.5	146.3	9.8 9.8	9.8	8.5	1.3 1.3	1.3	1.7	8.5 8.6	8.6	6.8
				Middle	5.1	23.6 23.5	23.5	8.6 8.6	8.6	33.9 34.1	34.0	107.3 97.0	102.2	7.5 6.8	7.1		1.3 1.3	1.3		4.6 4.7	4.7	
				Bottom	9.0	21.9 21.9	21.9	8.5 8.5	8.5	35.6 35.6	35.6	69.2 67.8	68.5	4.9 4.8	4.9		2.4 2.4	2.4		7.3 7.2	7.3	
M5	Cloudy	Moderate	10:38	Surface	1.1	26.9 27.1	27.0	8.8 8.8	8.8	27.8 27.5	27.6	124.8 125.4	125.1	8.5 8.6	8.5	6.8	1.5 1.6	1.5	2.6	7.1 7.1	7.1	18.1
				Middle	7.5	22.4 22.4	22.4	8.5 8.5	8.5	34.8 34.8	34.8	72.9 68.8	70.9	5.2 4.9	5.0		2.7 2.7	2.7		8.0 8.0	8.0	
				Bottom	11.0	22.1 22.0	22.0	8.5 8.5	8.5	35.3 35.4	35.3	62.2 62.0	62.1	4.4 4.4	4.4		3.5 3.5	3.5		39.1 39.3	39.2	
M6	Cloudy	Moderate	10:32	Surface	-	-	-	-	-	-	-	-	-	-	9.3	-	-	1.4	-	-	35.4	
				Middle	2.0	26.8 26.6	26.7	8.9 8.9	8.9	30.9 30.9	30.9	137.7 137.6	137.7	9.3 9.3		9.3	1.4 1.4		1.4	35.0 35.8		35.4
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 17 July 2020 (Mid-Ebb Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 1.9 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.0 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 12.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 13.9 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 12.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 13.9 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 7.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 8.6 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

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 Water Quality Monitoring Results on 17 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Cloudy	Moderate	17:03	Surface	1.0	26.7 26.6	26.6	8.7 8.7	8.7	28.2 28.3	28.3	108.3 113.6	111.0	7.4 7.8	7.6	6.2	1.7 1.7	1.7	2.6	11.7 11.9	11.8	8.8
				Middle	9.0	22.9 22.9	22.9	8.5 8.5	8.5	34.2 34.2	34.2	72.6 66.4	69.5	5.1 4.7	4.9		2.6 2.6	2.6		8.7 8.7	8.7	
				Bottom	17.1	22.3 22.4	22.3	8.5 8.5	8.5	35.0 34.9	34.9	61.1 60.8	61.0	4.3 4.3	4.3		3.5 3.5	3.5		5.7 6.0	5.9	
C2	Cloudy	Moderate	15:55	Surface	1.1	26.9 27.0	26.9	8.8 8.8	8.8	30.8 30.7	30.8	145.0 145.8	145.4	9.7 9.8	9.8	8.3	1.4 1.4	1.4	1.4	5.6 5.5	5.6	6.2
				Middle	16.1	23.4 23.6	23.5	8.6 8.6	8.6	34.1 34.0	34.1	97.7 98.4	98.1	6.8 6.9	6.9		1.2 1.2	1.2		8.3 8.2	8.3	
				Bottom	31.0	22.3 22.3	22.3	8.5 8.5	8.5	35.2 35.2	35.2	75.4 73.6	74.5	5.4 5.2	5.3		1.6 1.6	1.6		4.8 4.7	4.8	
G1	Cloudy	Moderate	16:22	Surface	1.0	26.8 26.9	26.8	8.8 8.8	8.8	30.8 30.8	30.8	126.5 131.4	129.0	8.5 8.8	8.7	8.7	1.3 1.3	1.3	1.9	8.7 8.8	8.8	16.7
				Middle	4.1	25.9 25.8	25.8	8.8 8.8	8.8	31.6 31.7	31.6	126.9 127.0	127.0	8.6 8.7	8.6		1.5 1.5	1.5		12.2 11.6	11.9	
				Bottom	7.1	21.9 21.9	21.9	8.5 8.5	8.5	35.5 35.5	35.5	56.9 56.2	56.6	4.1 4.0	4.0		2.8 2.9	2.9		29.3 29.6	29.5	
G2	Cloudy	Moderate	16:10	Surface	1.1	27.0 27.0	27.0	8.8 8.8	8.8	31.0 30.9	31.0	141.2 143.0	142.1	9.5 9.6	9.5	7.4	1.4 1.3	1.3	1.8	8.0 7.9	8.0	8.5
				Middle	5.0	22.4 22.3	22.3	8.5 8.5	8.5	35.1 35.2	35.1	75.4 72.9	74.2	5.3 5.2	5.3		1.5 1.4	1.5		6.2 6.2	6.2	
				Bottom	9.1	21.9 21.9	21.9	8.5 8.4	8.4	35.6 35.6	35.6	65.6 64.6	65.1	4.7 4.6	4.6		2.5 2.5	2.5		11.6 11.1	11.4	
G3	Cloudy	Moderate	16:28	Surface	1.0	27.0 26.9	27.0	8.8 8.8	8.8	30.7 30.7	30.7	130.4 130.4	130.4	8.8 8.8	8.8	8.6	1.4 1.4	1.4	1.9	9.7 9.4	9.6	21.3
				Middle	4.1	25.8 25.6	25.7	8.8 8.8	8.8	31.7 32.0	31.8	125.0 124.6	124.8	8.5 8.5	8.5		1.5 1.6	1.6		28.5 28.5	28.5	
				Bottom	7.1	22.1 22.1	22.1	8.4 8.4	8.4	35.4 35.4	35.4	56.6 56.0	56.3	4.0 4.0	4.0		2.8 2.8	2.8		26.0 25.8	25.9	
G4	Cloudy	Moderate	16:41	Surface	1.1	27.4 27.5	27.5	8.8 8.8	8.8	30.7 30.7	30.7	148.3 148.9	148.6	9.9 9.9	9.9	9.1	1.3 1.3	1.3	2.0	32.4 33.6	33.0	24.5
				Middle	4.0	25.1 25.1	25.1	8.7 8.7	8.7	32.3 32.5	32.4	120.7 119.9	120.3	8.3 8.2	8.2		1.8 1.9	1.8		15.5 15.9	15.7	
				Bottom	7.0	22.2 22.2	22.2	8.5 8.5	8.5	35.1 35.4	35.3	76.6 65.4	71.0	5.4 4.6	5.0		2.9 2.9	2.9		24.9 24.9	24.9	
M1	Cloudy	Moderate	16:14	Surface	1.0	27.8 27.8	27.8	8.9 8.9	8.9	30.8 30.8	30.8	153.7 153.7	153.7	10.2 10.2	10.2	9.7	1.2 1.2	1.2	2.0	6.2 6.3	6.3	5.9
				Middle	3.1	26.2 26.2	26.2	8.8 8.8	8.8	31.5 31.5	31.5	135.5 134.6	135.1	9.2 9.1	9.1		1.5 1.5	1.5		3.6 3.7	3.7	
				Bottom	5.0	23.2 23.1	23.1	8.6 8.5	8.5	34.6 34.6	34.6	79.1 73.3	76.2	5.5 5.1	5.3		3.3 3.4	3.4		7.7 7.8	7.8	
M2	Cloudy	Moderate	16:06	Surface	1.0	26.8 26.6	26.7	8.8 8.8	8.8	31.0 31.2	31.1	138.8 138.2	138.5	9.3 9.3	9.3	7.2	1.4 1.5	1.4	1.9	8.4 8.7	8.6	8.9
				Middle	6.1	22.4 22.2	22.3	8.5 8.5	8.5	35.0 35.2	35.1	73.8 68.5	71.2	5.2 4.9	5.0		1.4 1.7	1.6		9.1 9.0	9.1	
				Bottom	11.0	21.9 21.9	21.9	8.4 8.4	8.4	35.6 35.6	35.6	64.8 64.2	64.5	4.6 4.6	4.6		2.5 2.6	2.6		8.8 9.1	9.0	
M3	Cloudy	Moderate	16:35	Surface	1.1	27.2 27.2	27.2	8.8 8.8	8.8	30.7 30.7	30.7	138.5 139.2	138.9	9.3 9.3	9.3	8.8	1.4 1.4	1.4	2.0	9.2 9.2	9.2	9.1
				Middle	4.0	25.2 25.3	25.3	8.8 8.8	8.8	32.4 32.3	32.4	121.1 121.8	121.5	8.3 8.3	8.3		1.8 1.8	1.8		6.7 6.7	6.7	
				Bottom	7.1	22.4 22.3	22.4	8.5 8.5	8.5	35.2 35.3	35.2	67.0 61.0	64.0	4.7 4.3	4.5		2.8 2.7	2.8		11.3 11.3	11.3	
M4	Cloudy	Moderate	16:01	Surface	1.1	27.0 26.8	26.9	8.8 8.8	8.8	30.9 31.1	31.0	140.5 136.5	138.5	9.4 9.2	9.3	8.1	1.3 1.3	1.3	1.6	7.7 7.9	7.8	7.0
				Middle	5.0	23.6 23.4	23.5	8.6 8.6	8.6	33.9 34.2	34.0	105.4 93.3	99.4	7.4 6.5	6.9		1.3 1.2	1.2		6.6 6.7	6.7	
				Bottom	9.1	21.9 21.9	21.9	8.5 8.5	8.5	35.6 35.6	35.6	68.6 66.9	67.8	4.9 4.8	4.8		2.4 2.3	2.3		6.5 6.4	6.5	
M5	Cloudy	Moderate	16:52	Surface	1.0	26.9 27.1	27.0	8.8 8.8	8.8	27.8 27.4	27.6	125.9 124.8	125.4	8.6 8.5	8.6	6.7	1.5 1.6	1.5	2.7	8.5 8.5	8.5	7.7
				Middle	6.0	22.4 22.4	22.4	8.5 8.5	8.5	34.9 34.9	34.9	70.5 67.6	69.1	5.0 4.8	4.9		3.0 2.9	3.0		6.6 6.5	6.6	
				Bottom	11.0	22.0 22.0	22.0	8.5 8.5	8.5	35.3 35.3	35.3	62.1 61.9	62.0	4.4 4.4	4.4		3.5 3.5	3.5		7.9 8.0	8.0	
M6	Cloudy	Moderate	16:45	Surface	-	-	-	-	-	-	-	-	-	-	9.3	-	-	1.4	-	-	11.1	
				Middle	2.0	26.5 26.5	26.5	8.9 8.8	8.8	30.9 30.9	30.9	137.6 137.4	137.5	9.3 9.3		9.3	8.0 8.0		8.0	11.0 11.1		11.1
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged

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

Appendix I - Action and Limit Levels for Marine Water Quality on 17 July 2020 (Mid-Flood Tide)

<u>Parameter (unit)</u>	<u>Depth</u>	<u>Action Level</u>	<u>Limit Level</u>
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 4.2 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 4.5 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 14.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 15.3 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 14.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 15.3 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 4.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 5.1 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

**Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 20 July 2020**

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	12:12	Surface	1.1	25.1 25.0	25.0	8.7 8.7	8.7	32.0 32.2	32.1	115.9 115.4	115.7	8.0 7.9	8.0	7.3	2.2 2.1	2.1	2.5	11.5 11.6	11.6	8.5
				Middle	9.0	24.3 24.2	24.3	8.6 8.6	8.6	32.8 32.9	32.8	96.4 92.1	94.3	6.7 6.4	6.5		2.2 2.2	2.2		7.6 7.5	7.6	
				Bottom	17.0	23.2 23.2	23.2	8.5 8.5	8.5	34.0 33.9	33.9	65.5 66.4	66.0	4.6 4.7	4.6		3.1 3.0	3.1		6.4 6.3	6.4	
C2	Sunny	Calm	11:03	Surface	1.1	25.3 25.3	25.3	8.5 8.5	8.5	30.8 30.9	30.8	100.1 99.5	99.8	6.9 6.9	6.9	6.5	1.7 1.7	1.7	2.0	8.8 9.0	8.9	7.6
				Middle	16.1	23.9 23.9	23.9	8.5 8.5	8.5	33.3 33.3	33.3	87.3 86.3	86.8	6.1 6.0	6.0		2.0 2.1	2.0		8.1 8.2	8.2	
				Bottom	31.0	23.5 23.4	23.5	8.5 8.5	8.5	33.7 33.8	33.8	75.0 74.3	74.7	5.3 5.2	5.2		2.4 2.3	2.4		5.7 5.6	5.7	
G1	Sunny	Calm	11:37	Surface	1.1	25.5 25.5	25.5	8.7 8.7	8.7	32.1 32.1	32.1	129.3 129.2	129.3	8.8 8.8	8.8	8.0	1.8 1.7	1.7	2.2	6.0 6.2	6.1	7.3
				Middle	4.0	24.7 24.5	24.6	8.6 8.6	8.6	32.4 32.5	32.5	103.7 101.1	102.4	7.2 7.0	7.1		2.4 2.4	2.4		9.9 10.0	10.0	
				Bottom	7.0	22.9 22.9	22.9	8.5 8.5	8.5	34.5 34.5	34.5	68.6 67.6	68.1	4.8 4.8	4.8		2.6 2.6	2.6		6.0 5.9	6.0	
G2	Sunny	Calm	11:22	Surface	1.1	25.2 25.2	25.2	8.5 8.5	8.5	31.1 31.0	31.1	98.0 97.8	97.9	6.8 6.8	6.8	6.4	1.9 1.9	1.9	2.2	8.6 8.7	8.7	7.8
				Middle	5.0	24.0 24.0	24.0	8.5 8.5	8.5	33.2 33.2	33.2	85.6 85.4	85.5	6.0 6.0	6.0		2.2 2.2	2.2		6.8 6.7	6.8	
				Bottom	9.0	23.3 23.3	23.3	8.4 8.4	8.4	33.9 33.9	33.9	70.7 70.3	70.5	5.0 4.9	5.0		2.7 2.7	2.7		7.8 8.0	7.9	
G3	Sunny	Calm	11:42	Surface	1.1	25.5 25.5	25.5	8.7 8.7	8.7	32.1 32.1	32.1	129.4 129.7	129.6	8.8 8.9	8.9	7.8	1.8 1.8	1.8	2.3	7.1 7.0	7.1	7.6
				Middle	4.0	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	96.8 96.2	96.5	6.7 6.7	6.7		2.5 2.6	2.6		7.5 7.6	7.6	
				Bottom	7.1	23.2 23.4	23.3	8.5 8.5	8.5	34.0 33.8	33.9	70.5 73.3	71.9	5.0 5.1	5.0		2.7 2.6	2.6		8.1 8.1	8.1	
G4	Sunny	Calm	11:55	Surface	1.0	25.3 25.4	25.3	8.7 8.7	8.7	32.2 32.1	32.1	125.0 129.4	127.2	8.6 8.9	8.7	7.6	1.7 1.6	1.6	2.2	6.8 7.1	7.0	7.8
				Middle	4.1	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	95.1 94.9	95.0	6.6 6.6	6.6		2.4 2.4	2.4		7.9 8.0	8.0	
				Bottom	7.1	24.1 24.1	24.1	8.5 8.5	8.5	32.9 32.9	32.9	79.5 80.3	79.9	5.5 5.6	5.6		2.6 2.5	2.5		8.2 8.7	8.5	
M1	Sunny	Calm	11:29	Surface	1.1	25.2 25.2	25.2	8.7 8.7	8.7	32.3 32.3	32.3	117.0 117.8	117.4	8.0 8.1	8.1	8.0	2.1 2.1	2.1	2.3	5.2 5.2	5.2	7.1
				Middle	3.1	25.0 24.9	25.0	8.7 8.7	8.7	32.4 32.5	32.4	116.1 115.3	115.7	8.0 7.9	8.0		2.0 2.0	2.0		7.8 7.8	7.8	
				Bottom	5.0	24.7 24.4	24.6	8.6 8.6	8.6	32.7 32.9	32.8	102.5 93.8	98.2	7.1 6.5	6.8		2.9 2.9	2.9		8.2 8.4	8.3	
M2	Sunny	Calm	11:16	Surface	1.1	25.1 25.1	25.1	8.5 8.5	8.5	31.1 31.1	31.1	98.4 98.2	98.3	6.8 6.8	6.8	6.4	1.8 1.9	1.8	2.2	7.3 7.1	7.2	6.6
				Middle	6.0	24.0 24.0	24.0	8.5 8.5	8.5	33.2 33.2	33.2	85.9 85.7	85.8	6.0 6.0	6.0		2.1 2.1	2.1		6.0 6.0	6.0	
				Bottom	11.0	23.3 23.3	23.3	8.4 8.4	8.4	33.9 33.9	33.9	72.3 71.6	72.0	5.1 5.0	5.0		2.6 2.7	2.6		6.6 6.7	6.7	
M3	Sunny	Calm	11:49	Surface	1.1	25.4 25.3	25.3	8.7 8.7	8.7	32.1 32.2	32.1	128.5 126.5	127.5	8.8 8.7	8.7	7.7	1.8 1.7	1.7	2.3	6.5 6.6	6.6	6.7
				Middle	4.1	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	95.8 95.6	95.7	6.6 6.6	6.6		2.5 2.4	2.5		6.2 6.4	6.3	
				Bottom	7.1	24.0 24.0	24.0	8.5 8.5	8.5	33.1 33.0	33.0	76.5 77.1	76.8	5.3 5.4	5.4		2.8 2.8	2.8		7.2 7.3	7.3	
M4	Sunny	Calm	11:09	Surface	1.0	25.2 25.2	25.2	8.5 8.5	8.5	31.0 31.1	31.0	99.1 98.9	99.0	6.8 6.8	6.8	6.4	1.8 1.8	1.8	2.2	11.6 11.6	11.6	9.2
				Middle	5.0	23.9 24.0	24.0	8.5 8.5	8.5	33.3 33.2	33.3	86.0 86.0	86.0	6.0 6.0	6.0		2.1 2.2	2.1		8.9 9.0	9.0	
				Bottom	9.0	23.3 23.3	23.3	8.5 8.4	8.4	33.9 33.9	33.9	73.4 73.1	73.3	5.2 5.1	5.1		2.6 2.6	2.6		6.9 7.0	7.0	
M5	Sunny	Calm	12:05	Surface	1.1	25.2 25.2	25.2	8.7 8.7	8.7	31.7 31.8	31.8	113.7 114.3	114.0	7.8 7.9	7.8	7.2	2.0 2.1	2.0	2.2	8.0 8.0	8.0	9.2
				Middle	6.0	23.9 24.2	24.0	8.6 8.6	8.6	33.2 32.9	33.1	91.1 96.3	93.7	6.4 6.7	6.5		2.3 2.2	2.2		8.6 8.7	8.7	
				Bottom	11.0	23.2 23.1	23.1	8.5 8.5	8.5	34.0 34.0	34.0	69.7 68.0	68.9	4.9 4.8	4.8		2.3 2.3	2.3		10.9 11.0	11.0	
M6	Sunny	Calm	11:59	Surface	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	1.6	-	-	9.6
				Middle	2.0	24.5 24.5	24.5	8.7 8.7	8.7	32.7 32.7	32.7	105.8 105.0	105.4	7.3 7.3	7.3		1.7 1.6	1.6		9.6 9.5	9.6	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 20 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.8 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 3.1 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 10.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 11.6 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 10.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 11.6 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 6.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 7.3 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 20 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	19:10	Surface	1.1	25.0 24.9	25.0	8.7 8.7	8.7	32.1 32.3	32.2	115.7 115.0	115.4	8.0 7.9	7.9	7.2	2.2 2.2	2.2	2.5	3.9 3.9	3.9	4.1
				Middle	9.1	24.3 24.1	24.2	8.6 8.6	8.6	32.8 33.0	32.9	95.9 90.4	93.2	6.7 6.3	6.5	7.2	2.2 2.3	2.2		4.3 4.4	4.4	
				Bottom	16.0	23.2 23.1	23.2	8.5 8.5	8.5	33.9 34.0	33.9	66.0 66.3	66.2	4.6 4.7	4.7	4.7	3.0 3.1	3.1		3.9 4.0	4.0	
C2	Sunny	Calm	18:04	Surface	1.1	25.2 25.2	25.2	8.5 8.5	8.5	31.0 31.0	31.0	97.6 97.4	97.5	6.7 6.7	6.7	6.3	1.9 1.9	1.9	2.3	5.8 5.9	5.9	7.0
				Middle	16.1	24.0 23.9	23.9	8.5 8.5	8.5	33.2 33.3	33.2	85.1 84.8	85.0	5.9 5.9	5.9	6.3	2.2 2.2	2.2		9.0 9.0	9.0	
				Bottom	31.0	23.3 23.3	23.3	8.4 8.4	8.4	33.9 33.9	33.9	70.0 69.7	69.9	4.9 4.9	4.9	4.9	2.7 2.7	2.7		6.0 6.1	6.1	
G1	Sunny	Calm	18:37	Surface	1.1	25.5 25.5	25.5	8.7 8.7	8.7	32.1 32.1	32.1	129.0 129.2	129.1	8.8 8.8	8.8	7.9	1.8 1.7	1.7	2.1	7.1 7.2	7.2	11.4
				Middle	4.0	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	101.9 100.3	101.1	7.1 7.0	7.0	7.9	2.3 2.2	2.2		15.7 15.9	15.8	
				Bottom	7.0	22.9 23.0	23.0	8.5 8.5	8.5	34.4 34.3	34.4	66.8 66.0	66.4	4.7 4.6	4.7	4.7	2.4 2.4	2.4		11.2 11.3	11.3	
G2	Sunny	Calm	18:24	Surface	1.1	25.5 25.6	25.6	8.5 8.5	8.5	30.3 30.1	30.2	99.7 100.5	100.1	6.9 6.9	6.9	6.4	1.9 1.8	1.9	2.1	10.3 10.1	10.2	7.7
				Middle	5.1	23.9 23.9	23.9	8.5 8.5	8.5	33.3 33.3	33.3	83.7 83.6	83.7	5.8 5.8	5.8	6.4	2.0 2.0	2.0		7.1 6.9	7.0	
				Bottom	9.0	23.3 23.3	23.3	8.4 8.4	8.4	33.9 33.9	33.9	68.7 68.5	68.6	4.8 4.8	4.8	4.8	2.5 2.5	2.5		5.9 6.0	6.0	
G3	Sunny	Calm	18:43	Surface	1.1	25.5 25.4	25.4	8.7 8.7	8.7	32.1 32.1	32.1	129.7 129.2	129.5	8.9 8.8	8.8	7.8	1.8 1.8	1.8	2.3	5.7 5.8	5.8	5.8
				Middle	4.1	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	96.5 96.0	96.3	6.7 6.7	6.7	7.8	2.5 2.6	2.6		6.2 6.4	6.3	
				Bottom	7.1	23.6 23.8	23.7	8.5 8.5	8.5	33.5 33.3	33.4	74.6 75.7	75.2	5.2 5.3	5.3	5.3	2.6 2.6	2.6		5.2 5.3	5.3	
G4	Sunny	Calm	18:53	Surface	1.1	25.3 25.4	25.4	8.7 8.7	8.7	32.1 32.1	32.1	124.8 131.1	128.0	8.5 9.0	8.8	7.7	1.6 1.6	1.6	2.2	6.1 6.3	6.2	5.3
				Middle	4.1	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	95.0 94.9	95.0	6.6 6.6	6.6	7.7	2.4 2.4	2.4		5.3 5.2	5.3	
				Bottom	7.1	24.1 24.2	24.1	8.5 8.5	8.5	32.9 32.8	32.8	81.0 81.7	81.4	5.6 5.7	5.7	5.7	2.5 2.5	2.5		4.4 4.4	4.4	
M1	Sunny	Calm	18:31	Surface	1.1	25.2 25.2	25.2	8.7 8.7	8.7	32.3 32.3	32.3	117.4 118.2	117.8	8.0 8.1	8.1	8.0	2.1 2.1	2.1	2.5	6.9 7.0	7.0	6.9
				Middle	3.1	24.9 24.9	24.9	8.7 8.7	8.7	32.5 32.5	32.5	114.3 113.6	114.0	7.9 7.8	7.8	8.0	2.1 2.2	2.2		7.3 7.3	7.3	
				Bottom	5.0	24.6 24.3	24.5	8.6 8.6	8.6	32.7 33.0	32.8	101.3 91.6	96.5	7.0 6.4	6.7	6.7	3.1 3.1	3.1		6.6 6.5	6.6	
M2	Sunny	Calm	18:17	Surface	1.1	25.4 25.4	25.4	8.5 8.5	8.5	30.6 30.5	30.5	98.0 98.7	98.4	6.8 6.8	6.8	6.3	1.8 1.9	1.9	2.2	7.9 8.0	8.0	14.3
				Middle	6.1	23.9 23.9	23.9	8.5 8.5	8.5	33.3 33.3	33.3	84.1 83.9	84.0	5.9 5.8	5.9	6.3	2.1 2.1	2.1		23.5 23.7	23.6	
				Bottom	11.0	23.3 23.3	23.3	8.4 8.4	8.4	33.9 33.9	33.9	69.1 68.9	69.0	4.9 4.8	4.8	4.8	2.6 2.6	2.6		11.1 11.5	11.3	
M3	Sunny	Calm	18:48	Surface	1.1	25.3 25.3	25.3	8.7 8.7	8.7	32.1 32.2	32.2	127.5 125.6	126.6	8.7 8.6	8.7	7.6	1.7 1.7	1.7	2.3	25.5 25.1	25.3	13.2
				Middle	4.1	24.5 24.5	24.5	8.6 8.6	8.6	32.5 32.5	32.5	95.7 95.4	95.6	6.6 6.6	6.6	7.6	2.5 2.4	2.4		8.1 8.1	8.1	
				Bottom	7.1	24.1 24.1	24.1	8.5 8.5	8.5	32.9 32.9	32.9	77.8 78.5	78.2	5.4 5.5	5.4	5.4	2.6 2.6	2.6		6.1 6.1	6.1	
M4	Sunny	Calm	18:11	Surface	1.1	25.2 25.3	25.3	8.5 8.5	8.5	30.9 30.8	30.8	97.4 97.6	97.5	6.7 6.7	6.7	6.3	1.9 1.9	1.9	2.3	6.0 6.0	6.0	7.8
				Middle	5.1	23.9 23.9	23.9	8.5 8.5	8.5	33.3 33.3	33.3	84.5 84.3	84.4	5.9 5.9	5.9	6.3	2.2 2.2	2.2		5.9 6.0	6.0	
				Bottom	9.0	23.3 23.3	23.3	8.4 8.4	8.4	33.9 34.0	33.9	69.5 69.3	69.4	4.9 4.9	4.9	4.9	2.7 2.7	2.7		11.4 11.4	11.4	
M5	Sunny	Calm	19:02	Surface	1.1	25.2 25.1	25.2	8.7 8.7	8.7	31.8 31.9	31.9	115.2 115.8	115.5	7.9 8.0	7.9	7.3	2.1 2.1	2.1	2.4	5.4 5.4	5.4	6.0
				Middle	6.0	24.0 24.3	24.2	8.6 8.6	8.6	33.1 32.8	33.0	95.5 96.5	96.0	6.7 6.7	6.7	7.3	2.3 2.3	2.3		5.0 4.8	4.9	
				Bottom	11.1	23.2 23.1	23.1	8.5 8.5	8.5	34.0 34.0	34.0	68.7 65.1	66.9	4.8 4.6	4.7	4.7	2.8 2.8	2.8		7.5 7.6	7.6	
M6	Sunny	Calm	18:57	Surface	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	1.6	-	-	6.8
				Middle	2.0	24.7 24.8	24.8	8.6 8.6	8.6	32.5 32.5	32.5	113.6 114.3	114.0	7.8 7.9	7.9	7.9	8.0 8.0	8.0		6.7 6.8	6.8	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 20 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 3.7 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 4.0 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 4.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 5.1 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 4.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 5.1 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 4.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 5.1 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 22 July 2020

(Only Mid-Ebb Tide*)**

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	14:32	Surface	1.1	21.2 21.0	21.1	8.5 8.5	8.5	33.4 33.4	33.4	79.4 78.2	78.8	5.5 5.5	5.5	5.2	3.6 3.5	3.5	3.6	7.8 8.1	8.0	11.9
				Middle	9.1	20.9 21.6	21.3	8.5 8.5	8.5	34.3 34.2	34.2	70.0 70.2	70.1	4.9 4.9	4.9		3.7 3.8	3.7		12.3 12.3	12.3	
				Bottom	17.1	20.9 20.9	20.9	8.5 8.5	8.5	34.4 34.4	34.4	69.0 68.8	68.9	4.8 4.8	4.8		3.5 3.5	3.5		15.4 15.2	15.3	
C2	Sunny	Calm	12:47	Surface	1.0	21.0 20.9	21.0	8.4 8.4	8.4	33.8 33.8	33.8	72.6 72.3	72.5	5.1 5.1	5.1	5.0	3.7 3.9	3.8	4.4	8.1 8.2	8.2	9.6
				Middle	16.6	20.9 20.9	20.9	8.4 8.4	8.4	34.1 34.0	34.0	69.9 70.4	70.2	4.9 4.9	4.9		4.2 4.3	4.2		5.9 6.0	6.0	
				Bottom	32.1	20.9 20.9	20.9	8.4 8.4	8.4	34.8 34.9	34.8	65.6 65.1	65.4	4.6 4.6	4.6		5.1 5.2	5.2		14.3 14.8	14.6	
G1	Sunny	Calm	13:26	Surface	1.1	21.9 20.9	21.4	8.5 8.5	8.5	33.9 33.9	33.9	79.0 79.1	79.1	5.5 5.5	5.5	5.5	1.1 1.2	1.1	1.8	10.5 10.6	10.6	12.2
				Middle	4.1	20.9 20.9	20.9	8.5 8.5	8.5	34.5 34.4	34.5	80.0 80.6	80.3	5.6 5.6	5.6		2.0 1.9	2.0		12.8 12.3	12.6	
				Bottom	7.0	20.8 20.7	20.8	8.5 8.5	8.5	34.6 34.7	34.7	71.3 70.1	70.7	5.0 4.9	4.9		2.3 2.5	2.4		13.6 13.4	13.5	
G2	Sunny	Calm	13:09	Surface	1.0	21.4 20.9	21.2	8.5 8.6	8.5	34.0 34.0	34.0	96.5 96.5	96.5	6.6 6.6	6.6	6.2	1.6 1.6	1.6	1.8	17.9 18.1	18.0	15.5
				Middle	5.1	20.9 20.9	20.9	8.5 8.5	8.5	34.5 34.4	34.4	81.2 82.0	81.6	5.7 5.7	5.7		1.8 1.8	1.8		13.0 12.9	13.0	
				Bottom	9.0	20.8 20.9	20.9	8.5 8.5	8.5	34.6 34.8	34.7	71.7 66.6	69.2	5.0 4.7	4.8		2.1 2.3	2.2		15.6 15.3	15.5	
G3	Sunny	Calm	13:34	Surface	1.1	21.9 20.9	21.4	8.5 8.5	8.5	34.1 34.1	34.1	81.6 81.1	81.4	5.6 5.6	5.6	5.5	1.6 1.5	1.6	2.2	7.8 7.8	7.8	19.7
				Middle	4.0	20.8 20.9	20.9	8.5 8.5	8.5	34.5 34.6	34.6	77.4 75.9	76.7	5.4 5.3	5.4		2.2 2.4	2.3		12.5 12.1	12.3	
				Bottom	7.0	20.7 20.8	20.8	8.5 8.5	8.5	34.8 34.8	34.8	64.9 64.7	64.8	4.6 4.6	4.6		2.7 2.6	2.6		38.5 39.3	38.9	
G4	Sunny	Calm	13:49	Surface	1.0	21.7 21.0	21.4	8.5 8.5	8.5	34.1 34.1	34.1	89.0 89.8	89.4	6.1 6.2	6.2	5.6	1.8 1.8	1.8	2.1	8.2 8.3	8.3	8.2
				Middle	4.1	21.0 20.9	21.0	8.5 8.5	8.5	34.6 34.6	34.6	75.5 71.2	73.4	5.3 5.0	5.1		2.3 2.2	2.2		7.5 7.7	7.6	
				Bottom	7.1	20.9 20.9	20.9	8.5 8.5	8.5	34.6 34.6	34.6	70.4 70.5	70.5	4.9 4.9	4.9		2.2 2.2	2.2		8.8 8.9	8.9	
M1	Sunny	Calm	13:14	Surface	1.1	21.4 21.1	21.2	8.5 8.5	8.5	34.1 34.1	34.1	92.9 92.2	92.6	6.3 6.3	6.3	6.1	1.3 1.4	1.4	1.7	7.4 7.5	7.5	8.8
				Middle	3.1	20.9 21.0	20.9	8.5 8.5	8.5	34.6 34.7	34.7	85.0 86.1	85.6	5.9 5.9	5.9		1.5 1.5	1.5		6.7 6.7	6.7	
				Bottom	5.1	20.8 20.8	20.8	8.5 8.5	8.5	34.5 34.5	34.5	73.7 73.2	73.5	5.1 5.1	5.1		2.2 2.3	2.2		12.0 12.4	12.2	
M2	Sunny	Calm	13:02	Surface	1.0	21.2 20.9	21.1	8.5 8.5	8.5	34.0 34.0	34.0	86.1 86.9	86.5	6.0 6.0	6.0	6.0	1.9 1.9	1.9	2.1	13.6 13.7	13.7	12.4
				Middle	5.5	20.9 20.9	20.9	8.5 8.5	8.5	34.2 34.1	34.1	87.5 87.8	87.7	6.1 6.1	6.1		1.8 1.9	1.9		11.4 11.4	11.4	
				Bottom	10.0	20.8 20.8	20.8	8.5 8.5	8.5	34.9 35.0	34.9	68.7 68.3	68.5	4.8 4.8	4.8		2.5 2.6	2.5		12.0 12.1	12.1	
M3	Sunny	Calm	13:42	Surface	1.0	21.3 21.0	21.1	8.5 8.5	8.5	33.8 33.9	33.9	96.1 95.9	96.0	6.5 6.5	6.5	6.3	1.8 1.8	1.8	2.3	10.6 10.9	10.8	10.1
				Middle	4.1	20.9 20.9	20.9	8.6 8.6	8.6	34.6 34.6	34.6	86.1 87.1	86.6	6.0 6.1	6.0		2.0 1.9	2.0		9.5 9.6	9.6	
				Bottom	7.1	20.7 20.8	20.7	8.5 8.5	8.5	34.7 34.8	34.7	71.7 67.5	69.6	5.0 4.7	4.9		2.7 3.3	3.0		10.1 10.0	10.1	
M4	Sunny	Calm	12:55	Surface	1.0	21.5 21.0	21.2	8.5 8.5	8.5	34.0 34.0	34.0	88.3 88.1	88.2	6.1 6.1	6.1	6.1	2.0 2.0	2.0	1.9	14.5 14.5	14.5	10.2
				Middle	5.0	20.9 20.9	20.9	8.5 8.5	8.5	34.2 34.2	34.2	86.6 86.9	86.8	6.0 6.0	6.0		1.7 1.8	1.8		8.5 8.6	8.6	
				Bottom	9.0	20.8 20.9	20.9	8.5 8.5	8.5	34.5 34.6	34.5	76.9 75.8	76.4	5.4 5.3	5.3		1.8 1.7	1.8		7.3 7.5	7.4	
M5	Sunny	Calm	14:20	Surface	1.0	21.0 20.9	21.0	8.5 8.5	8.5	33.9 33.9	33.9	77.2 76.7	77.0	5.4 5.3	5.4	5.3	3.0 3.1	3.0	3.0	7.9 7.9	7.9	9.7
				Middle	6.1	20.9 21.9	21.4	8.5 8.5	8.5	33.9 33.9	33.9	75.3 75.5	75.4	5.2 5.3	5.3		3.1 3.1	3.1		9.4 9.3	9.4	
				Bottom	11.1	20.9 20.9	20.9	8.5 8.5	8.5	34.0 34.0	34.0	74.4 74.3	74.4	5.2 5.2	5.2		3.0 3.0	3.0		11.7 11.9	11.8	
M6	Sunny	Calm	14:03	Surface	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	2.5	-	-	8.9
				Middle	2.2	21.8 20.9	21.4	8.5 8.5	8.5	34.3 34.3	34.3	89.3 88.6	89.0	6.2 6.1	6.2		2.6 2.4	2.5		8.9 8.9	8.9	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.
 ***: Monitoring was conducted at ebb tide only on 22 July 2020

Appendix I - Action and Limit Levels for Marine Water Quality on 22 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 6.2 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 6.7 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 9.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 10.6 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 9.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 10.6 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 17.5 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 18.9 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 24 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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	Value	Average	DA*	Value	Average	DA*	Value
C1	Sunny	Calm	17:21	Surface	1.1	26.0 26.0	26.0	8.4 8.4	8.4	32.8 32.7	32.7	97.2 92.9	95.1	7.2 6.9	7.0	7.0	1.7 1.8	1.8	3.4	7.8 7.5	7.7	7.4
				Middle	9.1	25.7 25.8	25.7	8.5 8.4	8.4	33.5 33.4	33.4	93.7 93.0	93.4	7.0 6.9	6.9		1.8 1.9	1.9		6.2 6.1	6.2	
				Bottom	17.0	25.7 25.7	25.7	8.5 8.4	8.4	33.7 33.7	33.7	93.3 92.9	93.1	6.9 6.9	6.9		6.4 6.5	6.5		8.2 8.4	8.3	
C2	Sunny	Calm	16:20	Surface	1.1	26.0 26.0	26.0	8.6 8.6	8.6	31.9 32.0	32.0	92.2 91.4	91.8	6.9 6.8	6.9	6.9	2.3 2.3	2.3	2.2	7.9 8.2	8.1	7.7
				Middle	16.5	25.7 25.7	25.7	8.6 8.6	8.6	33.7 33.6	33.7	92.4 92.5	92.5	6.9 6.9	6.9		2.1 2.1	2.1		9.1 9.1	9.1	
				Bottom	31.0	25.7 25.6	25.7	8.6 8.6	8.6	33.6 33.9	33.7	92.4 92.2	92.3	6.9 6.9	6.9		2.1 2.1	2.1		6.0 5.9	6.0	
G1	Sunny	Calm	16:46	Surface	1.0	25.9 25.9	25.9	8.6 8.6	8.6	33.0 33.0	33.0	98.8 97.3	98.1	7.3 7.2	7.3	7.2	1.6 1.6	1.6	1.6	13.1 13.7	13.4	10.3
				Middle	3.7	25.9 25.9	25.9	8.6 8.6	8.6	33.0 33.0	33.0	97.9 97.5	97.7	7.2 7.2	7.2		1.7 1.7	1.7		6.9 7.0	7.0	
				Bottom	6.5	25.9 25.9	25.9	8.6 8.6	8.6	33.1 33.1	33.1	97.0 96.7	96.9	7.2 7.2	7.2		1.3 1.8	1.6		10.6 10.5	10.6	
G2	Sunny	Calm	16:35	Surface	1.0	25.8 25.8	25.8	8.6 8.6	8.6	33.1 33.3	33.2	103.0 95.9	99.5	7.6 7.1	7.4	7.3	1.8 1.6	1.7	1.5	9.5 9.9	9.7	9.0
				Middle	5.1	25.8 25.8	25.8	8.7 8.6	8.6	33.2 33.2	33.2	98.4 96.6	97.5	7.3 7.2	7.2		1.3 1.3	1.3		7.4 7.2	7.3	
				Bottom	9.0	25.6 25.7	25.7	8.6 8.6	8.6	34.0 33.8	33.9	94.9 94.9	94.9	7.0 7.0	7.0		1.5 1.5	1.5		9.9 10.2	10.1	
G3	Sunny	Calm	16:51	Surface	1.1	25.9 25.9	25.9	8.5 8.5	8.5	31.9 32.7	32.3	95.9 93.7	94.8	7.1 7.0	7.1	7.0	1.6 1.7	1.6	1.4	10.1 10.2	10.2	10.0
				Middle	3.7	25.9 25.9	25.9	8.5 8.5	8.5	33.0 32.6	32.8	93.8 93.4	93.6	7.0 7.0	7.0		1.3 1.3	1.3		12.0 11.6	11.8	
				Bottom	6.5	25.6 25.9	25.8	8.5 8.5	8.5	34.0 33.1	33.5	93.9 93.0	93.5	7.0 6.9	6.9		1.4 1.4	1.4		7.9 7.9	7.9	
G4	Sunny	Calm	17:03	Surface	1.1	26.0 25.9	25.9	8.4 8.5	8.5	31.5 32.5	32.0	100.2 95.2	97.7	7.4 7.1	7.3	7.1	1.6 1.6	1.6	1.5	7.9 7.9	7.9	7.3
				Middle	3.7	25.9 25.9	25.9	8.4 8.4	8.4	32.8 33.1	32.9	93.3 92.6	93.0	6.9 6.9	6.9		0.9 0.9	0.9		7.0 6.9	7.0	
				Bottom	6.5	25.8 25.7	25.7	8.5 8.5	8.5	33.5 33.9	33.7	93.0 93.3	93.2	6.9 6.9	6.9		1.9 2.0	1.9		6.9 7.0	7.0	
M1	Sunny	Calm	16:41	Surface	1.0	26.0 25.9	25.9	8.6 8.6	8.6	32.2 32.9	32.5	98.0 96.2	97.1	7.3 7.1	7.2	7.2	2.0 2.0	2.0	2.0	9.2 9.1	9.2	7.7
				Middle	3.0	25.9 25.9	25.9	8.6 8.6	8.6	32.6 32.8	32.7	97.0 95.9	96.5	7.2 7.1	7.2		2.0 2.0	2.0		9.0 9.1	9.1	
				Bottom	5.0	25.8 25.8	25.8	8.6 8.6	8.6	33.1 33.2	33.2	96.4 96.0	96.2	7.1 7.1	7.1		2.1 2.1	2.1		5.0 4.9	5.0	
M2	Sunny	Calm	16:30	Surface	1.0	25.8 25.8	25.8	8.6 8.6	8.6	33.2 33.3	33.3	99.3 96.1	97.7	7.3 7.1	7.2	7.1	1.1 1.0	1.0	0.9	8.4 8.7	8.6	6.7
				Middle	5.2	25.6 25.8	25.7	8.6 8.6	8.6	34.0 33.5	33.8	94.9 95.7	95.3	7.0 7.1	7.1		0.9 0.8	0.8		6.1 6.2	6.2	
				Bottom	9.5	25.6 25.6	25.6	8.6 8.7	8.6	34.2 34.2	34.2	94.8 95.0	94.9	7.0 7.0	7.0		0.9 0.9	0.9		5.3 5.4	5.4	
M3	Sunny	Calm	16:59	Surface	1.0	25.9 25.9	25.9	8.5 8.5	8.5	31.6 33.0	32.3	96.0 93.1	94.6	7.2 6.9	7.0	7.0	1.7 1.8	1.7	1.0	9.4 9.6	9.5	10.3
				Middle	3.7	25.9 25.9	25.9	8.5 8.5	8.5	33.0 32.7	32.9	93.3 92.8	93.1	6.9 6.9	6.9		0.4 0.3	0.4		10.8 10.6	10.7	
				Bottom	6.5	25.7 25.7	25.7	8.5 8.5	8.5	33.9 33.9	33.9	92.7 92.7	92.7	6.9 6.9	6.9		0.9 1.0	1.0		10.8 10.8	10.8	
M4	Sunny	Calm	16:25	Surface	1.0	25.9 25.8	25.9	8.6 8.6	8.6	32.5 33.2	32.8	92.8 93.4	93.1	6.9 7.0	6.9	6.9	0.6 0.7	0.6	1.1	7.9 8.1	8.0	7.2
				Middle	5.0	25.8 25.8	25.8	8.6 8.6	8.6	33.4 33.3	33.3	93.4 93.2	93.3	6.9 6.9	6.9		1.1 1.2	1.2		7.6 7.5	7.6	
				Bottom	9.0	25.7 25.7	25.7	8.6 8.6	8.6	33.5 33.6	33.5	93.4 94.1	93.8	6.9 7.0	7.0		1.6 1.6	1.6		6.0 6.1	6.1	
M5	Sunny	Calm	17:15	Surface	1.0	25.9 25.9	25.9	8.4 8.4	8.4	33.0 33.0	33.0	97.3 94.3	95.8	7.2 7.0	7.1	7.1	1.1 1.1	1.1	1.4	8.2 8.2	8.2	8.9
				Middle	6.1	25.8 25.8	25.8	8.4 8.4	8.4	33.1 33.1	33.1	94.6 94.1	94.4	7.0 7.0	7.0		1.5 1.5	1.5		10.5 10.6	10.6	
				Bottom	11.0	25.8 25.8	25.8	8.5 8.4	8.4	33.3 33.2	33.2	93.9 93.7	93.8	7.0 7.0	7.0		1.7 1.7	1.7		7.8 8.0	7.9	
M6	Sunny	Calm	17:09	Surface	-	-	-	-	-	-	-	-	-	-	7.3	-	-	2.2	-	-	9.6	
				Middle	2.0	25.9 25.9	25.9	8.4 8.4	8.4	32.4 32.4	32.4	99.6 97.9	98.8	7.4 7.3		7.3	2.2 2.2		2.2	9.5 9.6		9.6
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 24 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.5 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.7 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 9.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 10.5 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 9.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 10.5 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 7.1 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 7.7 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 Water Quality Monitoring Results on 24 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	11:29	Surface	1.1	26.2 26.1	26.2	8.4 8.4	8.4	31.7 31.9	31.8	91.0 88.0	89.5	6.9 6.7	6.8	6.8	2.3 2.6	2.4	3.1	8.3 8.3	8.3	8.2
				Middle	9.1	26.0 26.0	26.0	8.4 8.4	8.4	32.5 32.5	32.5	87.8 87.4	87.6	6.7 6.7	6.7	6.7	3.4 3.2	3.3		9.1 8.9	9.0	
				Bottom	17.0	25.7 25.4	25.6	8.5 8.4	8.4	33.5 34.4	33.9	88.2 88.1	88.2	6.7 6.7	6.7	6.7	3.3 3.7	3.5		7.1 7.3	7.2	
C2	Sunny	Calm	10:32	Surface	1.0	26.5 26.4	26.4	8.6 8.6	8.6	30.7 30.7	30.7	91.5 88.5	90.0	7.0 6.8	6.9	6.8	2.9 3.2	3.0	4.6	7.6 7.8	7.7	7.3
				Middle	15.9	25.9 25.8	25.8	8.6 8.6	8.6	32.9 33.1	33.0	86.8 87.6	87.2	6.6 6.7	6.7	6.7	5.4 5.3	5.4		7.1 7.1	7.1	
				Bottom	31.0	25.8 25.8	25.8	8.6 8.6	8.6	33.1 33.1	33.1	87.2 87.6	87.4	6.7 6.7	6.7	6.7	5.6 5.4	5.5		7.0 7.1	7.1	
G1	Sunny	Calm	10:58	Surface	0.9	26.1 26.1	26.1	8.4 8.4	8.4	32.1 32.3	32.2	100.3 96.6	98.5	7.6 7.3	7.4	7.4	1.7 1.9	1.8	1.8	9.3 9.3	9.3	8.3
				Middle	3.9	26.1 26.1	26.1	8.4 8.4	8.4	32.5 32.5	32.5	95.7 97.0	96.4	7.2 7.3	7.3	7.3	1.4 1.8	1.6		9.7 9.7	9.7	
				Bottom	7.0	26.0 26.0	26.0	8.4 8.4	8.4	32.9 32.8	32.8	94.7 95.2	95.0	7.2 7.2	7.2	7.2	1.8 2.1	1.9		5.9 5.8	5.9	
G2	Sunny	Calm	10:49	Surface	1.0	26.2 26.0	26.1	8.5 8.6	8.5	32.6 32.8	32.7	98.9 94.4	96.7	7.4 7.1	7.3	7.2	2.4 2.3	2.3	2.3	10.4 10.4	10.4	9.8
				Middle	5.0	26.1 26.0	26.0	8.5 8.5	8.5	32.8 33.0	32.9	96.4 93.7	95.1	7.3 7.1	7.2	7.2	2.3 2.1	2.2		7.5 7.3	7.4	
				Bottom	8.9	25.9 25.9	25.9	8.5 8.5	8.5	33.1 33.2	33.2	93.7 92.6	93.2	7.1 7.0	7.0	7.0	2.5 2.3	2.4		11.6 11.6	11.6	
G3	Sunny	Calm	11:01	Surface	1.0	26.4 26.0	26.2	8.4 8.5	8.4	31.3 31.6	31.4	99.9 96.7	98.3	7.5 7.3	7.4	7.4	1.8 2.0	1.9	1.6	6.1 6.2	6.2	7.2
				Middle	4.0	26.0 26.0	26.0	8.5 8.5	8.5	32.6 32.7	32.7	98.7 96.8	97.8	7.4 7.3	7.4	7.4	1.2 1.2	1.2		7.5 7.6	7.6	
				Bottom	7.0	25.9 25.9	25.9	8.4 8.5	8.4	33.1 33.0	33.0	91.1 90.6	90.9	6.9 6.9	6.9	6.9	1.6 1.6	1.6		8.0 7.8	7.9	
G4	Sunny	Calm	11:12	Surface	1.0	26.0 26.3	26.2	8.3 8.3	8.3	32.2 31.1	31.7	98.7 100.7	99.7	7.4 7.6	7.5	7.4	2.8 2.4	2.6	2.9	13.7 13.4	13.6	9.5
				Middle	4.5	26.0 26.0	26.0	8.3 8.3	8.3	32.6 32.8	32.7	96.9 96.6	96.8	7.3 7.3	7.3	7.3	2.7 2.8	2.8		6.4 6.3	6.4	
				Bottom	7.0	25.9 25.9	25.9	8.3 8.3	8.3	33.0 33.2	33.1	91.8 90.0	90.9	7.0 6.8	6.9	6.9	3.0 3.6	3.3		8.7 8.3	8.5	
M1	Sunny	Calm	10:53	Surface	0.9	26.4 26.0	26.2	8.5 8.5	8.5	31.8 32.7	32.3	99.9 92.3	96.1	7.5 7.0	7.3	7.2	3.0 3.3	3.2	3.2	8.8 8.9	8.9	6.7
				Middle	2.9	26.2 26.1	26.1	8.5 8.5	8.5	32.3 32.6	32.4	96.6 93.1	94.9	7.3 7.1	7.2	7.2	2.9 3.0	3.0		5.2 5.1	5.2	
				Bottom	4.9	26.0 26.0	26.0	8.5 8.5	8.5	32.9 32.8	32.8	92.1 91.8	92.0	7.0 7.0	7.0	7.0	3.2 3.7	3.5		6.2 6.0	6.1	
M2	Sunny	Calm	10:45	Surface	0.9	26.3 26.0	26.1	8.6 8.6	8.6	32.4 32.9	32.7	100.4 94.1	97.3	7.5 7.1	7.3	7.3	1.3 1.3	1.3	1.6	7.5 7.6	7.6	9.5
				Middle	6.0	25.9 26.0	26.0	8.6 8.6	8.6	33.1 32.9	33.0	95.3 95.7	95.5	7.2 7.2	7.2	7.2	0.7 0.9	0.8		11.5 11.4	11.5	
				Bottom	11.0	25.7 25.6	25.7	8.6 8.6	8.6	33.8 33.9	33.8	92.9 90.8	91.9	7.0 6.9	7.0	7.0	2.5 2.9	2.7		9.5 9.3	9.4	
M3	Sunny	Calm	11:08	Surface	1.0	26.1 26.0	26.0	8.4 8.4	8.4	31.8 32.7	32.2	98.7 95.1	96.9	7.5 7.2	7.3	7.1	3.0 2.8	2.9	2.8	7.4 7.2	7.3	8.7
				Middle	3.9	26.0 26.0	26.0	8.4 8.4	8.4	32.7 32.6	32.6	92.5 90.9	91.7	7.0 6.9	7.0	7.0	2.5 2.7	2.6		7.4 7.1	7.3	
				Bottom	7.0	25.9 25.9	25.9	8.4 8.4	8.4	33.0 33.2	33.1	91.7 89.2	90.5	7.0 6.8	6.9	6.9	3.1 2.9	3.0		11.7 11.5	11.6	
M4	Sunny	Calm	10:39	Surface	1.0	26.4 26.1	26.2	8.6 8.6	8.6	31.5 31.9	31.7	93.2 87.4	90.3	7.1 6.7	6.9	6.8	3.9 3.7	3.8	3.8	9.8 10.2	10.0	7.6
				Middle	4.9	26.0 26.0	26.0	8.6 8.6	8.6	32.1 32.4	32.3	87.8 87.6	87.7	6.7 6.7	6.7	6.7	3.4 3.8	3.6		7.8 7.5	7.7	
				Bottom	8.9	25.9 26.0	26.0	8.6 8.6	8.6	32.7 32.7	32.7	89.4 89.4	89.4	6.8 6.8	6.8	6.8	4.2 3.8	4.0		5.2 5.1	5.2	
M5	Sunny	Calm	11:24	Surface	1.0	26.3 26.1	26.2	8.3 8.4	8.3	31.9 32.1	32.0	94.3 88.4	91.4	7.1 6.7	6.9	6.9	3.0 2.7	2.8	2.6	5.5 5.4	5.5	7.3
				Middle	6.1	26.1 26.1	26.1	8.4 8.4	8.4	32.1 32.1	32.1	89.9 88.2	89.1	6.8 6.7	6.8	6.8	2.7 2.2	2.5		7.3 7.6	7.5	
				Bottom	11.0	26.1 26.1	26.1	8.4 8.4	8.4	32.1 32.2	32.1	88.4 88.2	88.3	6.7 6.7	6.7	6.7	2.4 2.7	2.6		9.1 9.1	9.1	
M6	Sunny	Calm	11:17	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	9.5	
				Middle	2.0	26.2 26.0	26.1	8.3 8.3	8.3	31.9 32.6	32.3	100.1 96.9	98.5	7.5 7.3	7.4	7.4	8.0 8.0		8.0	9.5 9.5		9.5
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-

Remarks: *DA: Depth-Averaged

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

Appendix I - Action and Limit Levels for Marine Water Quality on 24 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 4.2 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 4.6 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 10.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.8 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 10.0 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.8 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 8.6 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 9.4 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 27 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Moderate	18:06	Surface	1.0	25.4 24.4	24.9	8.2 8.2	8.2	34.8 34.8	34.8	91.4 91.4	91.4	6.5 6.5	6.5	6.5	0.9 0.9	0.9	1.4	7.5 7.5	7.5	6.9
				Middle	9.1	22.3 21.9	22.1	8.2 8.2	8.2	34.9 34.9	34.9	91.1 91.1	91.1	6.5 6.5	6.5		1.6 1.6	1.6		7.9 8.0	8.0	
				Bottom	17.0	22.1 22.0	22.0	8.2 8.2	8.2	34.9 34.9	34.9	90.8 90.7	90.8	6.5 6.5	6.5		1.6 1.7	1.6		5.2 5.2	5.2	
C2	Sunny	Moderate	16:24	Surface	1.0	25.9 25.6	25.7	8.2 8.2	8.2	34.9 34.9	34.9	90.8 90.9	90.9	6.5 6.5	6.5	6.5	0.9 0.9	0.9	1.4	9.5 9.6	9.6	8.7
				Middle	16.5	23.5 22.8	23.2	8.2 8.2	8.2	34.8 34.8	34.8	91.0 91.1	91.1	6.5 6.5	6.5		1.4 1.5	1.4		7.4 7.4	7.4	
				Bottom	32.0	22.4 22.5	22.5	8.2 8.2	8.2	35.1 35.0	35.1	90.1 90.0	90.1	6.4 6.4	6.4		1.8 1.8	1.8		9.1 8.9	9.0	
G1	Sunny	Moderate	17:02	Surface	1.0	27.0 26.9	27.0	8.2 8.2	8.2	34.8 34.8	34.8	93.2 93.3	93.3	6.7 6.7	6.7	6.7	0.8 0.8	0.8	1.2	8.4 8.1	8.3	6.6
				Middle	4.0	26.8 26.5	26.6	8.2 8.2	8.2	34.8 34.8	34.8	92.9 93.0	93.0	6.6 6.7	6.6		1.2 1.2	1.2		6.2 6.3	6.3	
				Bottom	7.1	22.8 22.8	22.8	8.2 8.2	8.2	35.0 35.0	35.0	89.0 88.7	88.9	6.3 6.3	6.3		1.5 1.5	1.5		5.2 5.1	5.2	
G2	Sunny	Moderate	16:43	Surface	1.0	26.8 26.9	26.9	8.2 8.2	8.2	34.9 34.8	34.8	91.9 91.8	91.9	6.6 6.6	6.6	6.5	1.0 1.0	1.0	1.3	6.1 6.2	6.2	7.0
				Middle	5.0	23.2 23.0	23.1	8.2 8.2	8.2	34.8 34.9	34.8	91.0 91.1	91.1	6.5 6.5	6.5		1.3 1.3	1.3		8.5 8.3	8.4	
				Bottom	9.0	22.6 22.5	22.6	8.2 8.2	8.2	35.1 35.1	35.1	88.9 88.8	88.9	6.3 6.3	6.3		1.6 1.6	1.6		6.2 6.4	6.3	
G3	Sunny	Moderate	17:09	Surface	1.0	27.2 27.4	27.3	8.2 8.2	8.2	34.8 34.8	34.8	90.7 90.9	90.8	6.5 6.5	6.5	6.5	0.8 0.8	0.8	1.3	7.3 7.2	7.3	16.7
				Middle	4.0	25.4 24.9	25.1	8.2 8.2	8.2	34.8 34.8	34.8	91.8 92.0	91.9	6.6 6.6	6.6		1.4 1.4	1.4		35.1 36.0	35.6	
				Bottom	7.1	23.1 22.8	23.0	8.2 8.2	8.2	35.0 35.0	35.0	91.0 90.6	90.8	6.5 6.5	6.5		1.7 1.7	1.7		7.3 7.2	7.3	
G4	Sunny	Moderate	17:23	Surface	1.0	26.9 26.8	26.8	8.2 8.2	8.2	34.8 34.8	34.8	92.3 92.6	92.5	6.6 6.6	6.6	6.6	1.2 1.2	1.2	1.6	6.6 6.9	6.8	7.2
				Middle	4.1	26.5 26.4	26.5	8.2 8.2	8.2	34.8 34.8	34.8	91.9 92.1	92.0	6.6 6.6	6.6		1.7 1.6	1.6		6.3 6.4	6.4	
				Bottom	7.1	22.8 22.6	22.7	8.2 8.2	8.2	34.9 34.9	34.9	91.4 91.2	91.3	6.5 6.5	6.5		1.8 1.9	1.8		8.5 8.4	8.5	
M1	Sunny	Moderate	16:48	Surface	1.1	26.7 26.7	26.7	8.2 8.2	8.2	34.8 34.8	34.8	90.9 90.9	90.9	6.5 6.5	6.5	6.5	0.8 0.8	0.8	1.5	8.2 8.3	8.3	7.4
				Middle	3.0	26.6 26.6	26.6	8.2 8.2	8.2	34.8 34.8	34.8	90.9 90.9	90.9	6.5 6.5	6.5		1.6 1.6	1.6		8.1 8.2	8.2	
				Bottom	5.0	23.7 23.7	23.7	8.2 8.2	8.2	35.1 35.1	35.1	90.8 90.7	90.8	6.5 6.5	6.5		2.1 2.0	2.0		5.6 5.7	5.7	
M2	Sunny	Moderate	16:36	Surface	1.0	26.7 26.7	26.7	8.2 8.2	8.2	34.8 34.9	34.8	91.8 91.9	91.9	6.6 6.6	6.6	6.5	0.9 1.0	0.9	1.3	5.4 5.5	5.5	7.1
				Middle	5.6	22.2 22.3	22.2	8.2 8.2	8.2	34.9 34.9	34.9	91.3 91.4	91.4	6.5 6.5	6.5		1.4 1.4	1.4		5.0 5.0	5.0	
				Bottom	10.0	22.0 22.1	22.0	8.2 8.2	8.2	35.0 35.0	35.0	90.9 90.8	90.9	6.5 6.5	6.5		1.6 1.6	1.6		11.1 10.8	11.0	
M3	Sunny	Moderate	17:17	Surface	1.0	27.2 27.3	27.3	8.2 8.2	8.2	34.8 34.8	34.8	91.9 92.0	92.0	6.6 6.6	6.6	6.5	0.8 0.9	0.9	1.2	6.5 6.4	6.5	6.3
				Middle	4.1	25.1 27.3	26.2	8.2 8.2	8.2	34.8 34.8	34.8	91.3 91.3	91.3	6.5 6.5	6.5		1.2 1.3	1.3		6.6 6.7	6.7	
				Bottom	7.0	23.2 22.8	23.0	8.2 8.2	8.2	35.0 34.8	34.9	89.4 89.1	89.3	6.3 6.3	6.3		1.5 1.5	1.5		5.8 5.8	5.8	
M4	Sunny	Moderate	16:30	Surface	1.0	25.8 25.8	25.8	8.2 8.2	8.2	34.9 34.9	34.9	90.7 90.7	90.7	6.5 6.5	6.5	6.5	0.8 0.9	0.9	1.4	7.3 7.7	7.5	7.8
				Middle	5.0	23.4 23.5	23.4	8.2 8.2	8.2	34.9 34.9	34.9	90.7 90.7	90.7	6.5 6.5	6.5		1.5 1.5	1.5		7.6 7.6	7.6	
				Bottom	9.1	23.8 23.1	23.4	8.2 8.2	8.2	35.0 35.0	35.0	90.7 90.8	90.8	6.5 6.5	6.5		1.7 1.8	1.7		8.2 8.2	8.2	
M5	Sunny	Moderate	17:56	Surface	1.1	25.3 25.2	25.2	8.2 8.2	8.2	34.9 34.8	34.8	91.1 91.4	91.3	6.5 6.5	6.5	6.5	1.0 0.9	0.9	1.4	7.0 7.1	7.1	8.2
				Middle	6.1	22.4 22.5	22.4	8.2 8.2	8.2	34.9 34.8	34.9	90.7 90.7	90.7	6.5 6.5	6.5		1.5 1.5	1.5		6.4 6.6	6.5	
				Bottom	11.0	22.0 21.9	22.0	8.2 8.3	8.2	35.0 35.0	35.0	91.5 91.4	91.5	6.5 6.5	6.5		1.6 1.7	1.7		11.1 11.2	11.2	
M6	Sunny	Moderate	17:38	Surface	-	-	-	-	-	-	-	-	-	-	6.5	-	-	0.8	-	-	6.6	
				Middle	2.2	26.2 26.1	26.2	8.2 8.2	8.2	34.8 34.8	34.8	91.7 91.8	91.8	6.5 6.6		6.5	0.8 0.9		0.8	6.6 6.6		6.6
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 27 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.2 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 11.5 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 12.4 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 11.5 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 12.4 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 10.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 11.7 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 27 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*	
C1	Sunny	Moderate	11:42	Surface	1.0	25.5 24.6	25.0	8.2 8.2	8.2	35.0 35.0	35.0	91.3 91.3	91.3	6.7 6.7	6.7	6.7	6.7	0.9 0.9	0.9	1.6	6.3 6.1	6.2	5.9
				Middle	8.5	22.3 22.2	22.2	8.2 8.2	8.2	35.0 35.0	35.0	91.0 91.0	91.0	6.7 6.6	6.6	1.7 1.8		1.7	6.3 6.2		6.3		
				Bottom	16.0	22.0 22.0	22.0	8.2 8.2	8.2	35.1 35.1	35.1	90.9 90.8	90.9	6.7 6.6	6.6	2.1 2.1		2.1	5.3 5.3		5.3		
C2	Sunny	Moderate	10:14	Surface	1.1	26.0 25.6	25.8	8.1 8.1	8.1	35.0 35.0	35.0	91.3 91.2	91.3	6.7 6.7	6.7	6.7	1.1 1.0	1.1	2.1	6.3 6.3	6.3	5.4	
				Middle	16.1	23.0 23.2	23.1	8.2 8.2	8.2	35.0 35.0	35.0	91.5 91.5	91.5	6.7 6.7	6.7		3.0 3.0	3.0		5.3 5.3	5.3		
				Bottom	31.0	22.3 22.3	22.3	8.2 8.2	8.2	35.2 35.2	35.2	90.3 90.1	90.2	6.6 6.6	6.6		2.3 2.3	2.3		4.7 4.7	4.7		
G1	Sunny	Moderate	10:50	Surface	1.0	27.2 26.9	27.0	8.2 8.2	8.2	35.0 35.0	35.0	92.8 92.9	92.9	6.7 6.8	6.8	6.8	1.0 1.0	1.0	1.4	4.9 4.7	4.8	7.1	
				Middle	3.8	25.3 26.4	25.8	8.2 8.2	8.2	35.0 35.0	35.0	92.1 92.3	92.2	6.8 6.8	6.8		1.6 1.6	1.6		6.5 6.6	6.6		
				Bottom	6.5	23.1 22.8	22.9	8.2 8.2	8.2	35.1 35.1	35.1	91.3 90.9	91.1	6.7 6.7	6.7		1.7 1.7	1.7		9.8 9.8	9.8		
G2	Sunny	Moderate	10:32	Surface	1.0	27.0 26.8	26.9	8.2 8.2	8.2	35.0 35.0	35.0	92.0 91.9	92.0	6.7 6.7	6.7	6.7	1.1 1.1	1.1	1.8	10.7 10.6	10.7	8.9	
				Middle	5.1	22.5 23.4	23.0	8.2 8.2	8.2	35.0 35.0	35.0	91.0 91.0	91.0	6.7 6.7	6.7		2.0 2.0	2.0		6.3 6.4	6.4		
				Bottom	9.1	22.2 22.6	22.4	8.2 8.2	8.2	35.2 35.2	35.2	89.5 89.0	89.3	6.5 6.5	6.5		2.3 2.5	2.4		9.5 9.6	9.6		
G3	Sunny	Moderate	10:56	Surface	1.0	27.4 27.0	27.2	8.2 8.2	8.2	35.0 35.0	35.0	90.7 90.8	90.8	6.5 6.6	6.6	6.7	1.0 1.0	1.0	1.1	7.4 7.5	7.5	6.7	
				Middle	3.7	25.1 25.1	25.1	8.2 8.2	8.2	35.0 35.0	35.0	91.8 91.9	91.9	6.7 6.7	6.7		1.1 1.1	1.1		7.2 7.3	7.3		
				Bottom	6.6	22.9 22.9	22.9	8.2 8.2	8.2	35.1 35.2	35.1	90.1 89.9	90.0	6.6 6.6	6.6		1.2 1.3	1.2		5.5 5.5	5.5		
G4	Sunny	Moderate	11:12	Surface	1.1	26.9 26.9	26.9	8.2 8.2	8.2	35.0 35.0	35.0	92.5 92.7	92.6	6.6 6.8	6.7	6.7	0.9 1.0	0.9	1.5	9.3 9.7	9.5	9.9	
				Middle	3.7	26.7 26.7	26.7	8.2 8.2	8.2	35.0 35.0	35.0	92.1 92.3	92.2	6.7 6.8	6.8		1.7 1.7	1.7		10.6 11.2	10.9		
				Bottom	6.5	22.8 22.9	22.8	8.2 8.2	8.2	35.0 35.0	35.0	90.5 90.1	90.3	6.6 6.6	6.6		1.8 1.8	1.8		9.4 9.4	9.4		
M1	Sunny	Moderate	10:40	Surface	1.0	26.7 26.7	26.7	8.2 8.2	8.2	35.0 35.0	35.0	91.1 91.1	91.1	6.6 6.6	6.6	6.6	1.0 1.0	1.0	1.5	7.8 7.9	7.9	6.7	
				Middle	3.0	26.5 25.4	26.0	8.2 8.2	8.2	35.0 35.0	35.0	91.1 91.1	91.1	6.7 6.7	6.7		1.6 1.7	1.6		5.9 5.8	5.9		
				Bottom	5.1	23.6 23.6	23.6	8.2 8.2	8.2	35.2 35.2	35.2	90.8 90.8	90.8	6.7 6.7	6.7		1.7 1.7	1.7		6.5 6.3	6.4		
M2	Sunny	Moderate	10:25	Surface	1.0	26.8 26.2	26.5	8.2 8.2	8.2	35.0 35.0	35.0	91.9 92.0	92.0	6.7 6.8	6.7	6.7	1.1 1.1	1.1	1.5	4.4 4.4	4.4	15.7	
				Middle	5.2	22.5 22.4	22.4	8.2 8.2	8.2	35.0 35.0	35.0	91.6 91.7	91.7	6.7 6.7	6.7		1.7 1.7	1.7		4.4 4.2	4.3		
				Bottom	9.5	22.2 22.1	22.1	8.2 8.2	8.2	35.2 35.2	35.2	90.3 89.9	90.1	6.6 6.6	6.6		1.9 1.9	1.9		38.9 38.0	38.5		
M3	Sunny	Moderate	11:04	Surface	1.0	27.2 27.3	27.2	8.2 8.2	8.2	35.0 35.0	35.0	91.5 91.5	91.5	6.6 6.7	6.6	6.7	1.0 1.0	1.0	1.5	9.4 9.5	9.5	7.2	
				Middle	3.7	24.3 25.7	25.0	8.2 8.2	8.2	35.0 35.0	35.0	91.1 91.0	91.1	6.7 6.7	6.7		1.6 1.6	1.6		7.7 7.8	7.8		
				Bottom	6.6	22.6 22.6	22.6	8.2 8.2	8.2	35.0 35.0	35.0	89.5 89.3	89.4	6.6 6.5	6.5		1.9 1.8	1.8		4.3 4.3	4.3		
M4	Sunny	Moderate	10:20	Surface	1.1	25.9 25.7	25.8	8.2 8.2	8.2	35.0 35.0	35.0	91.2 91.2	91.2	6.5 6.7	6.6	6.6	1.1 1.0	1.1	1.7	7.9 8.1	8.0	6.6	
				Middle	5.1	23.4 23.4	23.4	8.2 8.2	8.2	35.0 35.0	35.0	91.0 91.0	91.0	6.7 6.7	6.7		1.9 1.8	1.8		6.3 6.4	6.4		
				Bottom	9.0	22.3 23.4	22.8	8.2 8.2	8.2	35.2 35.2	35.2	91.0 91.1	91.1	6.7 6.7	6.7		2.1 2.2	2.2		5.5 5.2	5.4		
M5	Sunny	Moderate	11:30	Surface	1.0	25.2 25.1	25.2	8.2 8.2	8.2	35.0 35.0	35.0	91.5 91.6	91.6	6.7 6.7	6.7	6.6	1.2 1.1	1.2	1.8	3.8 3.6	3.7	10.6	
				Middle	5.5	22.4 22.3	22.4	8.2 8.2	8.2	35.1 35.0	35.1	90.8 91.0	90.9	6.6 6.5	6.6		2.0 2.0	2.0		4.1 4.0	4.1		
				Bottom	10.0	22.0 22.0	22.0	8.2 8.2	8.2	35.1 35.1	35.1	91.3 91.2	91.3	6.7 6.7	6.7		2.2 2.2	2.2		24.1 23.7	23.9		
M6	Sunny	Moderate	11:18	Surface	-	-	-	-	-	-	-	-	-	-	6.7	-	-	1.0	-	-	8.9		
				Middle	2.0	26.3 26.3	26.3	8.2 8.2	8.2	35.0 35.0	35.0	91.6 91.8	91.7	6.7 6.7		6.7	8.0 8.0		8.0	8.8 9.0		8.9	
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 27 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.5 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.7 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 7.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 8.1 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 7.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 8.1 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 6.4 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 6.9 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 29 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Sunny	Calm	8:34	Surface	1.1	24.9 24.8	24.9	8.8 8.8	8.8	33.9 34.0	33.9	142.6 142.5	142.6	9.7 9.7	9.7	8.3	1.5 1.5	1.5	1.7	8.5 8.7	8.6	6.0
				Middle	8.5	23.1 23.1	23.1	8.6 8.6	8.6	34.9 34.9	34.9	94.6 99.8	97.2	6.6 6.8	6.8		1.7 1.7	1.7		4.8 4.8	4.8	
				Bottom	16.0	22.5 22.2	22.4	8.6 8.6	8.6	35.3 35.5	35.4	77.9 73.4	75.7	5.5 5.2	5.4		1.8 1.8	1.8		4.6 4.7	4.7	
C2	Sunny	Calm	7:01	Surface	1.1	25.2 25.2	25.2	8.7 8.7	8.7	33.9 33.9	33.9	128.9 129.5	129.2	8.8 8.8	8.8	7.5	1.2 1.2	1.2	1.8	7.1 7.4	7.3	6.5
				Middle	16.1	22.7 22.7	22.7	8.6 8.6	8.6	35.2 35.2	35.2	86.8 89.3	88.1	6.1 6.3	6.2		1.6 1.6	1.6		6.9 7.0	7.0	
				Bottom	31.0	22.4 22.4	22.4	8.6 8.6	8.6	35.4 35.4	35.4	75.1 74.5	74.8	5.3 5.3	5.3		2.5 2.7	2.6		5.4 5.4	5.4	
G1	Sunny	Calm	7:39	Surface	1.1	26.0 25.9	26.0	8.8 8.8	8.8	33.8 33.8	33.8	165.7 166.9	166.3	11.1 11.2	11.2	8.3	1.4 1.4	1.4	3.6	6.4 6.4	6.4	9.2
				Middle	3.7	23.4 23.3	23.3	8.5 8.5	8.5	34.9 34.9	34.9	78.4 78.1	78.3	5.5 5.5	5.5		3.3 3.5	3.4		14.7 15.0	14.9	
				Bottom	6.6	22.6 22.6	22.6	8.5 8.5	8.5	35.3 35.3	35.3	58.0 58.2	58.1	4.1 4.1	4.1		6.1 6.0	6.1		6.2 6.3	6.3	
G2	Sunny	Calm	7:21	Surface	1.0	25.9 25.8	25.9	8.7 8.7	8.7	33.7 33.7	33.7	139.9 140.6	140.3	9.4 9.5	9.4	7.3	1.5 1.5	1.5	2.3	5.9 6.0	6.0	5.5
				Middle	5.0	22.7 22.7	22.7	8.5 8.5	8.5	35.2 35.2	35.2	70.7 74.6	72.7	5.0 5.3	5.1		2.2 2.0	2.1		5.2 5.2	5.2	
				Bottom	9.0	22.3 22.3	22.3	8.5 8.5	8.5	35.5 35.5	35.5	70.3 69.8	70.1	5.0 4.9	5.0		3.3 3.2	3.3		5.3 5.4	5.4	
G3	Sunny	Calm	7:47	Surface	1.1	25.7 25.7	25.7	8.8 8.8	8.8	33.8 33.9	33.8	167.1 160.8	164.0	11.3 10.8	11.0	8.8	1.5 1.6	1.6	2.8	7.1 7.2	7.2	7.9
				Middle	3.7	23.6 23.6	23.6	8.6 8.6	8.6	34.9 34.9	34.9	95.0 96.4	95.7	6.6 6.7	6.6		2.6 2.5	2.5		6.8 7.0	6.9	
				Bottom	6.6	23.2 23.0	23.1	8.5 8.5	8.5	35.0 35.1	35.0	68.1 67.4	67.8	4.8 4.7	4.7		4.0 4.3	4.1		9.5 9.7	9.6	
G4	Sunny	Calm	8:03	Surface	1.1	26.4 26.4	26.4	8.8 8.8	8.8	33.5 33.7	33.6	147.1 149.0	148.1	9.8 9.9	9.9	8.7	1.5 1.5	1.5	2.1	11.1 11.2	11.2	8.7
				Middle	3.8	23.9 23.9	23.9	8.6 8.6	8.6	34.9 35.0	34.9	108.9 110.7	109.8	7.5 7.6	7.6		1.8 1.8	1.8		7.4 7.3	7.4	
				Bottom	6.5	23.6 23.5	23.5	8.6 8.6	8.6	34.9 34.9	34.9	82.7 79.3	81.0	5.7 5.5	5.6		2.8 3.0	2.9		7.6 7.7	7.7	
M1	Sunny	Calm	7:29	Surface	1.1	26.2 26.3	26.3	8.7 8.7	8.7	33.8 33.8	33.8	147.0 147.1	147.1	9.8 9.8	9.8	9.5	1.6 1.5	1.5	2.1	7.3 7.7	7.5	7.6
				Middle	3.1	25.6 25.6	25.6	8.7 8.7	8.7	34.0 34.0	34.0	137.4 138.1	137.8	9.3 9.3	9.3		1.8 1.7	1.7		9.0 8.6	8.8	
				Bottom	5.1	23.6 23.6	23.6	8.6 8.6	8.6	35.4 35.3	35.3	113.0 105.3	109.2	7.8 7.3	7.6		2.9 3.5	3.2		6.4 6.4	6.4	
M2	Sunny	Calm	7:14	Surface	1.0	26.0 26.0	26.0	8.7 8.7	8.7	33.7 33.7	33.7	135.0 135.7	135.4	9.1 9.1	9.1	7.2	1.5 1.5	1.5	2.0	11.2 11.0	11.1	8.3
				Middle	5.3	22.6 22.6	22.6	8.5 8.5	8.5	35.2 35.3	35.3	74.5 74.4	74.5	5.3 5.3	5.3		1.9 1.9	1.9		4.0 4.0	4.0	
				Bottom	9.5	22.4 22.4	22.4	8.5 8.5	8.5	35.4 35.4	35.4	75.5 74.8	75.2	5.3 5.3	5.3		2.6 2.7	2.6		9.8 9.7	9.8	
M3	Sunny	Calm	7:57	Surface	1.0	25.8 25.8	25.8	8.8 8.8	8.8	33.8 33.8	33.8	167.4 167.7	167.6	11.3 11.3	11.3	9.5	1.5 1.4	1.4	2.9	9.4 9.6	9.5	7.6
				Middle	3.8	24.6 24.6	24.6	8.7 8.7	8.7	34.3 34.2	34.3	112.9 112.2	112.6	7.7 7.7	7.7		2.2 2.3	2.2		7.6 7.7	7.7	
				Bottom	6.5	22.9 22.9	22.9	8.5 8.5	8.5	35.1 35.1	35.1	57.0 56.7	56.9	4.0 4.0	4.0		4.9 4.9	4.9		5.8 5.6	5.7	
M4	Sunny	Calm	7:08	Surface	1.1	26.3 26.4	26.3	8.7 8.7	8.7	33.7 33.7	33.7	142.3 142.5	142.4	9.5 9.5	9.5	9.1	1.3 1.4	1.3	1.7	11.6 11.9	11.8	11.5
				Middle	5.0	23.8 23.8	23.8	8.7 8.7	8.7	35.1 35.2	35.2	125.7 128.7	127.2	8.7 8.9	8.8		1.5 1.5	1.5		11.1 11.0	11.1	
				Bottom	9.0	22.7 22.6	22.7	8.5 8.5	8.5	35.2 35.3	35.2	81.8 81.0	81.4	5.8 5.7	5.7		2.3 2.3	2.3		11.6 11.6	11.6	
M5	Sunny	Calm	8:23	Surface	1.1	26.0 26.1	26.0	8.8 8.8	8.8	33.3 33.3	33.3	143.5 144.0	143.8	9.7 9.7	9.7	8.1	1.5 1.5	1.5	2.4	9.5 9.6	9.6	9.8
				Middle	5.5	23.2 23.3	23.3	8.6 8.6	8.6	34.8 34.8	34.8	89.5 94.8	92.2	6.3 6.6	6.4		1.9 1.9	1.9		10.5 10.2	10.4	
				Bottom	10.1	22.7 22.7	22.7	8.6 8.6	8.6	35.2 35.2	35.2	77.8 76.4	77.1	5.5 5.4	5.4		3.5 4.0	3.8		9.3 9.5	9.4	
M6	Sunny	Calm	8:11	Surface	-	-	-	-	-	-	-	-	-	-	9.5	-	-	1.7	-	-	7.3	
				Middle	2.0	24.9 24.8	24.9	8.8 8.8	8.8	34.5 34.4	34.5	139.4 138.7	139.1	9.5 9.5		9.5	1.6 1.7		1.7	7.4 7.2		7.3
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 29 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 3.1 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 3.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.4 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 8.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 9.4 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 6.5 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 7.0 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 29 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*	
C1	Sunny	Calm	14:47	Surface	1.0	21.2	21.1	8.8	8.8	33.8	33.8	143.0	142.7	142.9	9.7	9.7	8.1	1.5	1.5	1.7	8.1	8.1	7.6
				Middle	9.1	20.9	21.1	8.6	8.6	34.8	34.8	91.1	91.8	6.4	6.4	1.8		1.8	7.5		7.6		
				Bottom	17.0	20.9	20.9	8.6	8.6	35.1	35.1	79.7	79.7	5.6	5.6	1.8		1.8	6.9		7.1		
C2	Sunny	Calm	13:04	Surface	1.0	21.4	21.2	8.7	8.7	33.9	33.9	130.0	130.3	130.3	8.8	8.9	7.8	1.2	1.3	1.9	6.1	6.2	23.5
				Middle	16.6	20.9	20.9	8.6	8.6	35.3	35.3	94.7	95.9	6.7	6.7	1.5		1.5	31.3		31.7		
				Bottom	32.0	20.9	20.9	8.6	8.6	35.5	35.5	74.2	74.0	5.3	5.2	2.9		3.0	32.3		32.7		
G1	Sunny	Calm	13:42	Surface	1.0	21.1	21.0	8.8	8.8	33.8	33.8	159.1	164.2	161.7	10.6	10.8	8.2	1.3	1.3	3.5	9.2	9.3	9.2
				Middle	4.1	20.9	20.9	8.5	8.5	34.8	34.8	79.1	79.0	5.5	5.5	2.8		2.9	8.8		8.8		
				Bottom	7.1	20.8	20.8	8.5	8.5	35.3	35.3	57.3	57.5	4.0	4.1	6.1		6.1	9.6		9.6		
G2	Sunny	Calm	13:24	Surface	1.1	21.7	21.3	8.7	8.7	33.7	33.7	138.3	139.1	138.7	9.3	9.3	7.1	1.6	1.6	2.3	9.0	9.2	8.9
				Middle	5.1	20.9	20.9	8.5	8.5	35.2	35.2	69.5	69.7	4.9	4.9	2.4		2.3	10.2		10.4		
				Bottom	9.0	20.8	20.8	8.5	8.5	35.4	35.4	72.6	72.5	5.1	5.1	3.1		3.1	7.3		7.2		
G3	Sunny	Calm	13:50	Surface	1.0	21.5	21.2	8.8	8.8	33.9	33.9	158.6	156.7	157.7	10.7	10.6	8.9	1.6	1.7	2.9	8.1	8.1	7.9
				Middle	4.1	20.8	20.9	8.6	8.6	35.0	35.1	100.0	102.6	6.9	7.1	2.2		2.2	8.1		8.3		
				Bottom	7.0	20.7	20.8	8.5	8.5	35.2	35.2	66.4	66.2	4.7	4.7	4.9		5.0	7.4		7.4		
G4	Sunny	Calm	14:05	Surface	1.0	21.5	21.3	8.8	8.8	33.7	33.8	150.5	151.6	151.1	10.0	10.1	9.3	1.4	1.3	2.2	8.5	8.7	7.5
				Middle	4.1	21.0	21.0	8.6	8.6	35.0	35.1	116.9	122.6	8.1	8.4	1.8		1.7	6.2		6.1		
				Bottom	7.0	20.9	20.9	8.5	8.5	35.0	35.0	76.4	75.7	5.3	5.3	3.4		3.5	7.7		7.8		
M1	Sunny	Calm	13:30	Surface	1.0	21.2	21.1	8.7	8.7	33.8	33.8	147.0	147.1	147.1	9.8	9.8	9.6	1.5	1.5	2.5	8.2	8.3	8.7
				Middle	3.0	20.9	20.9	8.7	8.7	34.0	33.9	139.0	139.8	9.3	9.4	1.6		1.6	8.1		8.1		
				Bottom	5.0	20.8	20.8	8.6	8.6	35.3	35.3	98.1	95.7	6.8	6.6	4.0		4.5	9.6		9.8		
M2	Sunny	Calm	13:17	Surface	1.0	21.3	21.1	8.7	8.7	33.7	33.7	136.1	136.6	136.4	9.1	9.2	7.2	1.5	1.5	2.1	11.2	11.2	9.2
				Middle	5.6	20.8	20.8	8.5	8.5	35.3	35.3	74.3	74.3	5.2	5.2	2.0		2.0	7.4		7.5		
				Bottom	10.0	20.8	20.8	8.5	8.5	35.4	35.4	74.3	74.1	5.3	5.2	2.7		2.7	8.9		9.1		
M3	Sunny	Calm	13:57	Surface	1.1	21.2	21.1	8.8	8.8	33.9	33.9	166.6	167.1	166.9	11.2	11.2	9.5	1.5	1.5	2.9	8.3	8.4	11.6
				Middle	4.0	20.9	20.9	8.7	8.7	34.4	34.4	113.8	113.3	7.8	7.8	2.0		2.0	10.3		10.5		
				Bottom	7.1	20.7	20.7	8.5	8.5	35.2	35.1	58.0	57.8	4.1	4.1	5.1		5.1	15.8		15.8		
M4	Sunny	Calm	13:12	Surface	1.1	21.4	21.2	8.7	8.7	33.7	33.7	141.8	142.1	142.0	9.5	9.5	8.8	1.3	1.3	1.7	41.6	41.6	30.9
				Middle	5.1	20.9	20.9	8.7	8.7	34.8	34.9	116.6	117.7	8.1	8.1	1.6		1.6	36.4		36.7		
				Bottom	9.0	20.8	20.8	8.5	8.5	34.9	35.0	84.7	83.9	5.9	5.9	2.1		2.1	14.5		14.5		
M5	Sunny	Calm	14:36	Surface	1.1	21.0	21.0	8.8	8.8	33.2	33.8	145.3	137.1	141.2	9.7	9.6	8.3	1.5	1.6	2.7	6.0	6.1	6.6
				Middle	6.0	20.9	21.3	8.6	8.6	34.8	34.8	98.7	103.6	6.9	7.0	1.9		1.8	5.8		5.8		
				Bottom	11.1	20.9	20.9	8.6	8.6	35.3	35.3	75.6	75.3	5.3	5.3	4.5		4.8	7.7		7.8		
M6	Sunny	Calm	14:19	Surface	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	1.5	-	-	8.3	
				Middle	2.2	21.9	21.4	8.8	8.8	34.8	34.7	142.5	141.3	9.7	9.6		8.0	8.0		8.2	8.3		
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 29 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.1 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 2.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.5 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 9.7 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 10.5 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 8.5 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 9.2 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 31 July 2020

(Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Rainy	Moderate	11:26	Surface	1.1	25.2 25.1	25.1	8.4 8.4	8.4	31.7 31.8	31.8	91.0 88.0	89.5	6.9 6.7	6.8	6.7	2.3 2.7	2.5	3.1	5.6 5.6	5.6	7.1
				Middle	9.1	24.9 25.0	25.0	8.4 8.4	8.4	32.5 32.4	32.5	87.8 87.4	87.6	6.7 6.7	6.7		3.4 3.2	3.3		8.8 9.3	9.1	
				Bottom	17.0	24.7 24.4	24.6	8.4 8.4	8.4	33.5 34.4	33.9	88.2 88.1	88.1	6.7 6.7	6.7		3.3 3.7	3.5		6.6 6.9	6.8	
C2	Rainy	Moderate	10:29	Surface	1.0	25.5 25.4	25.4	8.6 8.6	8.6	30.7 30.7	30.7	91.5 88.5	90.0	6.9 6.8	6.8	6.7	2.9 3.2	3.1	4.7	9.9 10.0	10.0	8.6
				Middle	15.9	24.9 24.8	24.8	8.6 8.6	8.6	32.8 33.0	32.9	86.8 87.6	87.2	6.6 6.7	6.6		5.4 5.3	5.4		4.9 4.5	4.7	
				Bottom	31.0	24.8 24.8	24.8	8.6 8.5	8.5	33.1 33.0	33.1	87.2 87.6	87.4	6.6 6.7	6.7		5.6 5.4	5.5		10.9 11.1	11.0	
G1	Rainy	Moderate	10:55	Surface	0.9	25.1 25.1	25.1	8.4 8.4	8.4	32.1 32.3	32.2	100.3 96.6	98.4	7.5 7.3	7.4	7.3	1.7 1.9	1.8	1.7	5.6 5.7	5.7	7.2
				Middle	3.9	25.1 25.1	25.1	8.4 8.4	8.4	32.5 32.5	32.5	95.7 97.0	96.3	7.2 7.3	7.3		1.4 1.7	1.6		9.1 9.3	9.2	
				Bottom	7.0	25.0 25.0	25.0	8.4 8.4	8.4	32.9 32.7	32.8	94.7 95.2	94.9	7.1 7.2	7.2		1.7 2.1	1.9		6.7 6.7	6.7	
G2	Rainy	Moderate	10:46	Surface	1.0	25.2 25.0	25.1	8.5 8.5	8.5	32.5 32.8	32.7	98.9 94.4	96.6	7.4 7.1	7.3	7.2	2.3 2.2	2.3	2.3	8.2 8.1	8.2	7.3
				Middle	5.0	25.1 25.0	25.0	8.5 8.5	8.5	32.8 33.0	32.9	96.4 93.7	95.0	7.3 7.1	7.2		2.3 2.1	2.2		8.1 8.2	8.2	
				Bottom	8.9	24.9 24.9	24.9	8.5 8.5	8.5	33.1 33.2	33.2	93.7 92.6	93.1	7.1 7.0	7.0		2.5 2.2	2.4		5.7 5.5	5.6	
G3	Rainy	Moderate	10:58	Surface	1.0	25.4 25.0	25.2	8.4 8.4	8.4	31.3 31.5	31.4	99.9 96.7	98.3	7.5 7.3	7.4	7.4	1.8 2.0	1.9	1.5	6.6 7.1	6.9	15.4
				Middle	4.0	25.0 25.0	25.0	8.4 8.4	8.4	32.6 32.7	32.7	98.7 96.8	97.7	7.4 7.3	7.4		1.2 1.2	1.2		7.6 7.9	7.8	
				Bottom	7.0	24.9 24.9	24.9	8.4 8.4	8.4	33.1 32.9	33.0	91.1 90.6	90.8	6.9 6.9	6.9		1.6 1.5	1.6		32.4 30.7	31.6	
G4	Rainy	Moderate	11:09	Surface	1.0	25.0 25.3	25.2	8.3 8.3	8.3	32.2 31.1	31.6	98.7 100.7	99.7	7.4 7.6	7.5	7.4	2.8 2.4	2.6	2.9	11.5 11.9	11.7	8.2
				Middle	4.5	25.0 25.0	25.0	8.3 8.3	8.3	32.6 32.8	32.7	96.9 96.6	96.7	7.3 7.3	7.3		2.7 2.8	2.7		8.3 8.8	8.6	
				Bottom	7.0	24.9 24.9	24.9	8.3 8.3	8.3	33.0 33.2	33.1	91.8 90.0	90.9	6.9 6.8	6.9		3.0 3.5	3.3		4.2 4.3	4.3	
M1	Rainy	Moderate	10:50	Surface	1.0	25.4 25.0	25.2	8.5 8.5	8.5	31.8 32.7	32.2	99.9 92.3	96.1	7.5 7.0	7.2	7.2	3.0 3.3	3.1	3.2	7.2 7.6	7.4	5.9
				Middle	3.0	25.2 25.1	25.1	8.5 8.5	8.5	32.3 32.5	32.4	96.6 93.1	94.8	7.3 7.0	7.1		2.9 3.0	3.0		5.4 5.3	5.4	
				Bottom	4.9	25.0 25.0	25.0	8.5 8.5	8.5	32.8 32.8	32.8	92.1 91.8	91.9	7.0 6.9	7.0		3.2 3.7	3.4		5.1 5.0	5.1	
M2	Rainy	Moderate	10:42	Surface	0.9	25.3 25.0	25.1	8.6 8.6	8.6	32.4 32.9	32.6	100.4 94.1	97.2	7.5 7.1	7.3	7.2	1.3 1.3	1.3	1.6	5.8 5.7	5.8	6.1
				Middle	6.0	24.9 25.0	25.0	8.6 8.6	8.6	33.0 32.8	32.9	95.3 95.7	95.5	7.2 7.2	7.2		0.7 0.9	0.8		5.0 5.1	5.1	
				Bottom	11.0	24.7 24.6	24.7	8.6 8.6	8.6	33.7 33.9	33.8	92.9 90.8	91.8	7.0 6.9	6.9		2.5 2.9	2.7		7.3 7.4	7.4	
M3	Rainy	Moderate	11:05	Surface	1.0	25.1 25.0	25.0	8.4 8.4	8.4	31.7 32.6	32.2	98.7 95.1	96.9	7.4 7.2	7.3	7.1	3.0 2.8	2.9	2.8	4.3 4.2	4.3	6.2
				Middle	3.9	25.0 25.0	25.0	8.4 8.3	8.3	32.6 32.6	32.6	92.5 90.9	91.7	7.0 6.9	6.9		2.5 2.7	2.6		5.1 5.0	5.1	
				Bottom	7.0	24.9 24.9	24.9	8.4 8.3	8.4	32.9 33.1	33.0	91.7 89.2	90.4	6.9 6.8	6.9		3.0 2.9	3.0		9.5 9.0	9.3	
M4	Rainy	Moderate	10:36	Surface	1.0	25.4 25.1	25.2	8.6 8.5	8.5	31.5 31.9	31.7	93.2 87.4	90.3	7.0 6.7	6.9	6.8	3.8 3.7	3.8	3.8	10.7 10.1	10.4	17.3
				Middle	4.9	25.0 25.0	25.0	8.6 8.6	8.6	32.1 32.4	32.2	87.8 87.6	87.7	6.7 6.7	6.7		3.4 3.8	3.6		11.2 11.2	11.2	
				Bottom	8.9	24.9 25.0	25.0	8.6 8.6	8.6	32.7 32.6	32.7	89.4 89.4	89.4	6.8 6.8	6.8		4.2 3.8	4.0		29.8 30.6	30.2	
M5	Rainy	Moderate	11:21	Surface	1.0	25.3 25.1	25.2	8.3 8.3	8.3	31.9 32.1	32.0	94.3 88.4	91.3	7.1 6.7	6.9	6.8	2.9 2.7	2.8	2.6	37.7 36.2	37.0	18.5
				Middle	6.1	25.1 25.1	25.1	8.3 8.3	8.3	32.1 32.1	32.1	89.9 88.2	89.0	6.8 6.7	6.8		2.7 2.2	2.5		7.9 7.6	7.8	
				Bottom	11.0	25.1 25.1	25.1	8.3 8.3	8.3	32.1 32.2	32.1	88.4 88.2	88.3	6.7 6.7	6.7		2.4 2.7	2.5		10.9 10.9	10.9	
M6	Rainy	Moderate	11:14	Surface	-	-	-	-	-	-	-	-	-	-	7.4	-	-	1.9	-	-	5.5	
				Middle	2.0	25.2 25.0	25.1	8.3 8.3	8.3	31.9 32.6	32.2	100.1 96.9	98.5	7.5 7.3		7.4	1.8 1.9		1.9	5.5 5.5		5.5
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Appendix I - Action and Limit Levels for Marine Water Quality on 31 July 2020 (Mid-Ebb Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 6.6 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 7.2 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 11.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 12.9 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 11.9 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 12.9 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>C2: 13.2 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>C2: 14.3 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
Water Quality Monitoring Results on 31 July 2020

(Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	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*
C1	Rainy	Moderate	17:18	Surface	1.1	25.0 25.0	25.0	8.4 8.4	8.4	32.7 32.7	32.7	97.2 92.9	95.0	7.2 6.9	7.0	7.0	1.8 1.8	1.8	3.4	11.9 11.9	11.9	9.3
				Middle	9.1	24.7 24.8	24.7	8.4 8.4	8.4	33.5 33.3	33.4	93.7 93.0	93.3	6.9 6.9	6.9		1.9 1.9	1.9		6.3 6.2	6.3	
				Bottom	17.1	24.7 24.7	24.7	8.4 8.4	8.4	33.7 33.7	33.7	93.3 92.9	93.1	6.9 6.9	6.9		6.5 6.5	6.5		9.6 10.1	9.9	
C2	Rainy	Moderate	16:17	Surface	1.1	25.0 25.0	25.0	8.6 8.6	8.6	31.9 32.0	31.9	92.2 91.4	91.8	6.9 6.8	6.8	6.8	2.3 2.3	2.3	2.2	8.5 8.6	8.6	6.7
				Middle	16.5	24.7 24.7	24.7	8.5 8.6	8.6	33.7 33.6	33.6	92.4 92.5	92.4	6.9 6.9	6.9		2.1 2.1	2.1		6.6 6.7	6.7	
				Bottom	31.0	24.7 24.6	24.7	8.6 8.6	8.6	33.6 33.9	33.7	92.4 92.2	92.3	6.9 6.8	6.8		2.1 2.1	2.1		5.0 5.0	5.0	
G1	Rainy	Moderate	16:43	Surface	1.0	24.9 24.9	24.9	8.5 8.5	8.5	32.9 32.9	32.9	98.8 97.3	98.0	7.3 7.2	7.2	7.2	1.6 1.6	1.6	1.6	7.1 7.6	7.4	6.6
				Middle	3.7	24.9 24.9	24.9	8.5 8.5	8.5	33.0 33.0	33.0	97.9 97.5	97.7	7.2 7.2	7.2		1.7 1.7	1.7		5.6 6.0	5.8	
				Bottom	6.5	24.9 24.9	24.9	8.5 8.5	8.5	33.1 33.1	33.1	97.0 96.7	96.8	7.2 7.1	7.2		1.3 1.8	1.5		6.6 6.9	6.8	
G2	Rainy	Moderate	16:32	Surface	1.0	24.8 24.8	24.8	8.6 8.6	8.6	33.1 33.2	33.2	103.0 95.9	99.4	7.6 7.1	7.3	7.3	1.8 1.6	1.7	1.5	8.9 9.0	9.0	12.3
				Middle	5.1	24.8 24.8	24.8	8.6 8.6	8.6	33.2 33.2	33.2	98.4 96.6	97.5	7.3 7.1	7.2		1.3 1.3	1.3		8.3 8.2	8.3	
				Bottom	9.0	24.6 24.7	24.7	8.6 8.5	8.5	34.0 33.8	33.9	94.9 94.9	94.9	7.0 7.0	7.0		1.4 1.4	1.4		20.3 18.9	19.6	
G3	Rainy	Moderate	16:48	Surface	1.1	24.9 24.9	24.9	8.5 8.5	8.5	31.9 32.7	32.3	95.9 93.7	94.8	7.1 6.9	7.0	7.0	1.5 1.7	1.6	1.4	5.3 5.3	5.3	5.7
				Middle	3.7	24.9 24.9	24.9	8.5 8.5	8.5	33.0 32.6	32.8	93.8 93.4	93.6	6.9 6.9	6.9		1.3 1.3	1.3		6.2 6.1	6.2	
				Bottom	6.5	24.6 24.9	24.8	8.5 8.5	8.5	34.0 33.1	33.5	93.9 93.0	93.4	6.9 6.9	6.9		1.4 1.4	1.4		5.5 5.5	5.5	
G4	Rainy	Moderate	17:00	Surface	1.1	25.0 24.9	24.9	8.4 8.4	8.4	31.5 32.5	32.0	100.2 95.2	97.7	7.4 7.1	7.2	7.1	1.6 1.6	1.6	1.5	10.5 10.0	10.3	9.7
				Middle	3.7	24.9 24.9	24.9	8.4 8.4	8.4	32.8 33.0	32.9	93.3 92.6	92.9	6.9 6.9	6.9		0.9 0.9	0.9		5.1 5.2	5.2	
				Bottom	6.5	24.8 24.7	24.7	8.4 8.4	8.4	33.5 33.8	33.7	93.0 93.3	93.1	6.9 6.9	6.9		1.9 2.0	1.9		14.0 13.3	13.7	
M1	Rainy	Moderate	16:38	Surface	1.0	25.0 24.9	24.9	8.6 8.5	8.6	32.2 32.8	32.5	98.0 96.2	97.1	7.3 7.1	7.2	7.2	1.9 1.9	1.9	2.0	5.3 5.6	5.5	7.7
				Middle	3.0	24.9 24.9	24.9	8.6 8.5	8.6	32.5 32.7	32.6	97.0 95.9	96.4	7.2 7.1	7.1		2.0 2.0	2.0		9.0 9.0	9.0	
				Bottom	5.0	24.8 24.8	24.8	8.6 8.5	8.5	33.1 33.2	33.1	96.4 96.0	96.2	7.1 7.1	7.1		2.1 2.1	2.1		8.6 8.9	8.8	
M2	Rainy	Moderate	16:27	Surface	1.0	24.8 24.8	24.8	8.6 8.6	8.6	33.2 33.3	33.2	99.3 96.1	97.7	7.3 7.1	7.2	7.1	1.0 1.0	1.0	0.9	5.2 4.9	5.1	10.1
				Middle	5.2	24.6 24.8	24.7	8.6 8.6	8.6	34.0 33.5	33.8	94.9 95.7	95.3	7.0 7.1	7.0		0.8 0.8	0.8		10.2 10.4	10.3	
				Bottom	9.5	24.6 24.6	24.6	8.6 8.6	8.6	34.2 34.2	34.2	94.8 95.0	94.9	7.0 7.0	7.0		0.9 0.9	0.9		15.2 14.5	14.9	
M3	Rainy	Moderate	16:55	Surface	1.0	24.9 24.9	24.9	8.4 8.5	8.5	31.5 32.9	32.2	96.0 93.1	94.5	7.2 6.9	7.0	7.0	1.7 1.8	1.7	1.0	6.0 6.0	6.0	8.1
				Middle	3.7	24.9 24.9	24.9	8.5 8.5	8.5	33.0 32.7	32.8	93.3 92.8	93.0	6.9 6.9	6.9		0.4 0.3	0.3		10.3 10.0	10.2	
				Bottom	6.5	24.7 24.7	24.7	8.5 8.5	8.5	33.9 33.9	33.9	92.7 92.7	92.7	6.9 6.9	6.9		0.9 1.0	0.9		8.1 7.9	8.0	
M4	Rainy	Moderate	16:22	Surface	1.0	24.9 24.8	24.9	8.6 8.6	8.6	32.5 33.1	32.8	92.8 93.4	93.1	6.9 6.9	6.9	6.9	0.6 0.6	0.6	1.1	5.7 6.1	5.9	7.6
				Middle	5.0	24.8 24.8	24.8	8.6 8.6	8.6	33.4 33.3	33.3	93.4 93.2	93.3	6.9 6.9	6.9		1.1 1.2	1.1		7.6 8.1	7.9	
				Bottom	9.0	24.7 24.7	24.7	8.6 8.6	8.6	33.5 33.5	33.5	93.4 94.1	93.7	6.9 7.0	6.9		1.6 1.6	1.6		8.8 9.2	9.0	
M5	Rainy	Moderate	17:12	Surface	1.0	24.9 24.9	24.9	8.4 8.4	8.4	33.0 33.0	33.0	97.3 94.3	95.8	7.2 7.0	7.1	7.0	1.0 1.1	1.0	1.4	6.2 6.4	6.3	13.0
				Middle	6.1	24.8 24.8	24.8	8.4 8.4	8.4	33.1 33.1	33.1	94.6 94.1	94.3	7.0 7.0	7.0		1.4 1.5	1.5		8.8 8.5	8.7	
				Bottom	11.0	24.8 24.8	24.8	8.4 8.4	8.4	33.2 33.2	33.2	93.9 93.7	93.8	7.0 6.9	6.9		1.7 1.7	1.7		23.9 24.0	24.0	
M6	Rainy	Moderate	17:06	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	7.3	- -	-	2.2	- -	-	24.4
				Middle	2.0	24.9 24.9	24.9	8.4 8.4	8.4	32.3 32.3	32.3	99.6 97.9	98.7	7.4 7.2	7.3		8.0 8.0	8.0		24.6 24.2	24.4	
				Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-	

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

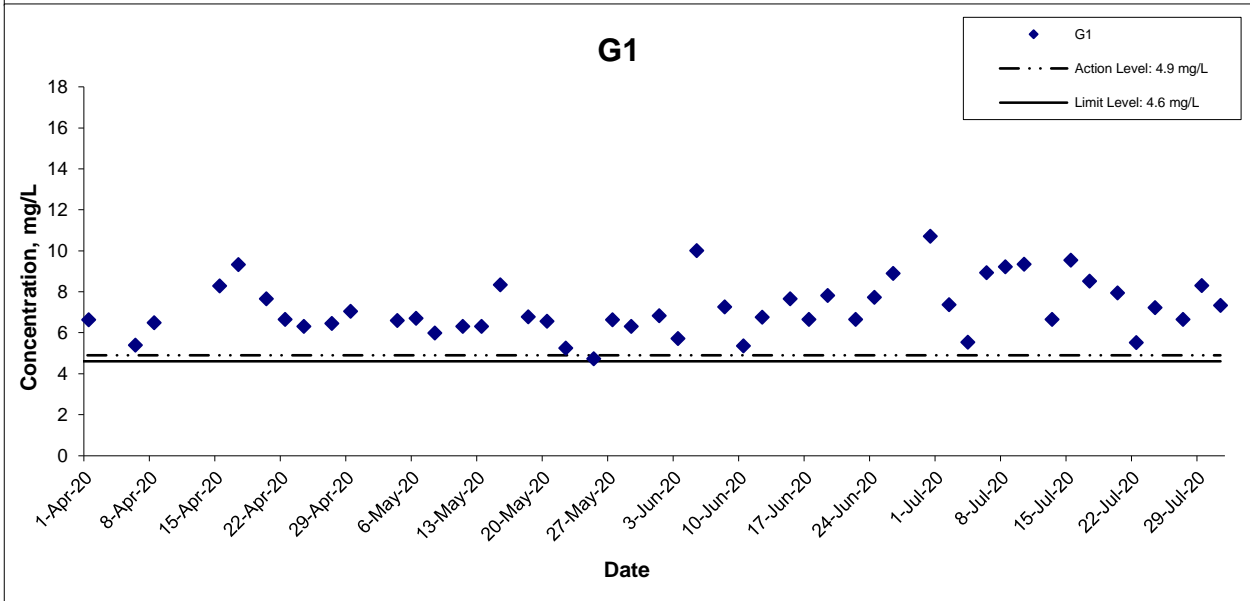
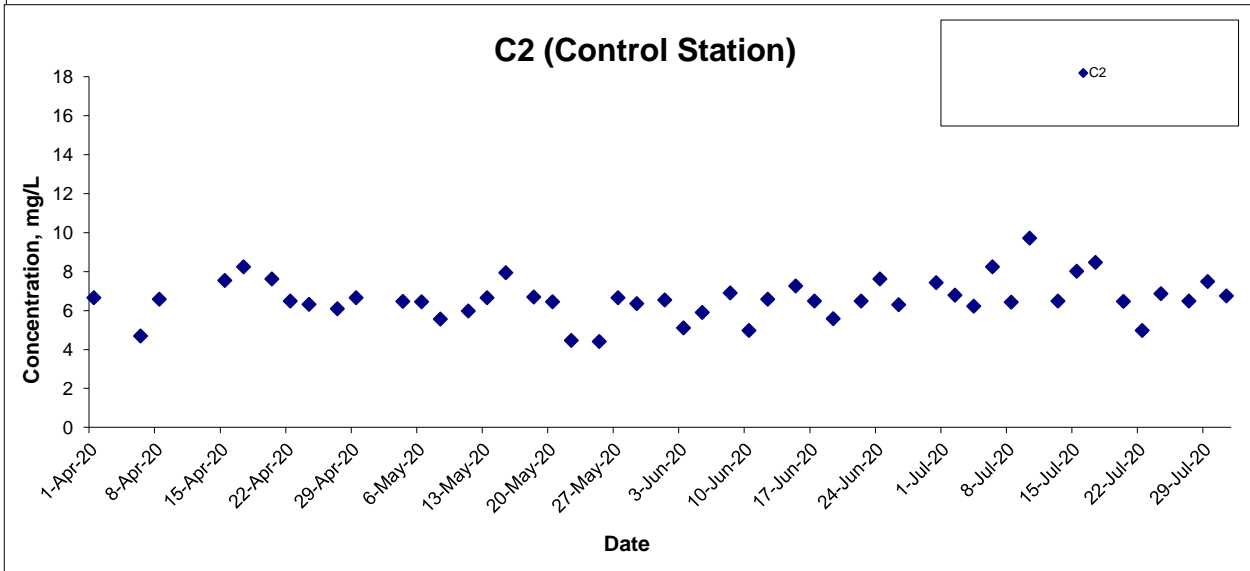
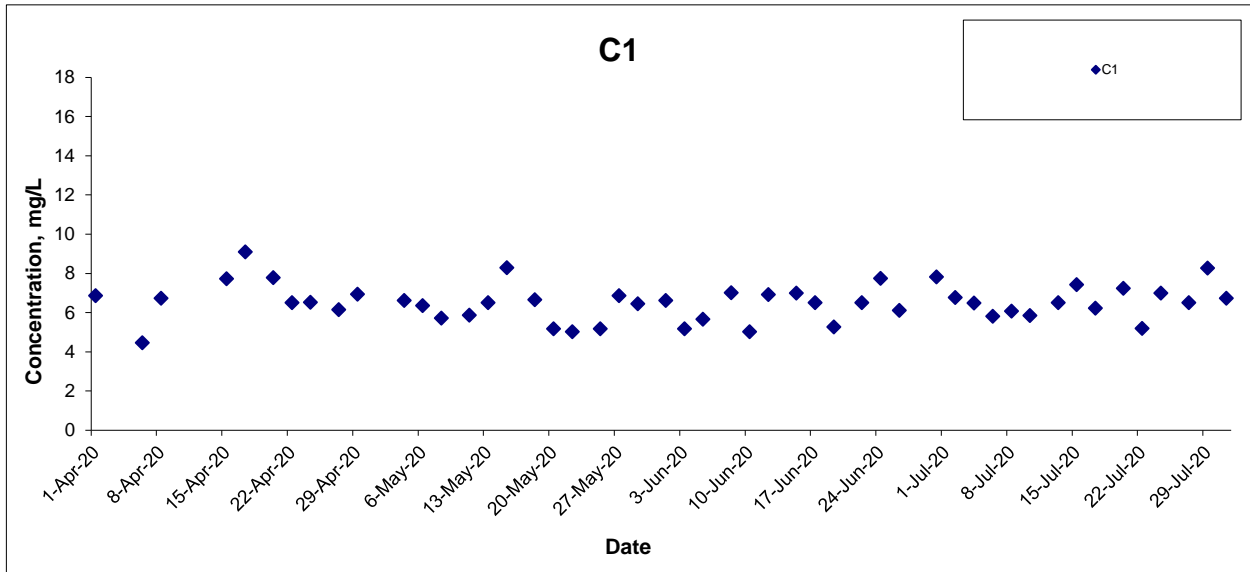
Appendix I - Action and Limit Levels for Marine Water Quality on 31 July 2020 (Mid-Flood Tide)

Parameter (unit)	Depth	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>19.3 NTU</u>	<u>22.2 NTU</u>
		or 120% of upstream control station's Turbidity at the same tide of the same day <u>CI: 7.8 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>CI: 8.4 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	<u>Stations G1-G4</u>		
	Surface	<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 14.3 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 15.5 mg/L</u>
	<u>Stations M1-M5</u>		
	Surface	<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 14.3 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 15.5 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
	Bottom	<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control station's SS at the same tide of the same day <u>CI: 11.8 mg/L</u>	or 130% of upstream control station's SS at the same tide of the same day <u>CI: 12.8 mg/L</u>
	<u>Station M6</u>		
Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>	

Notes:

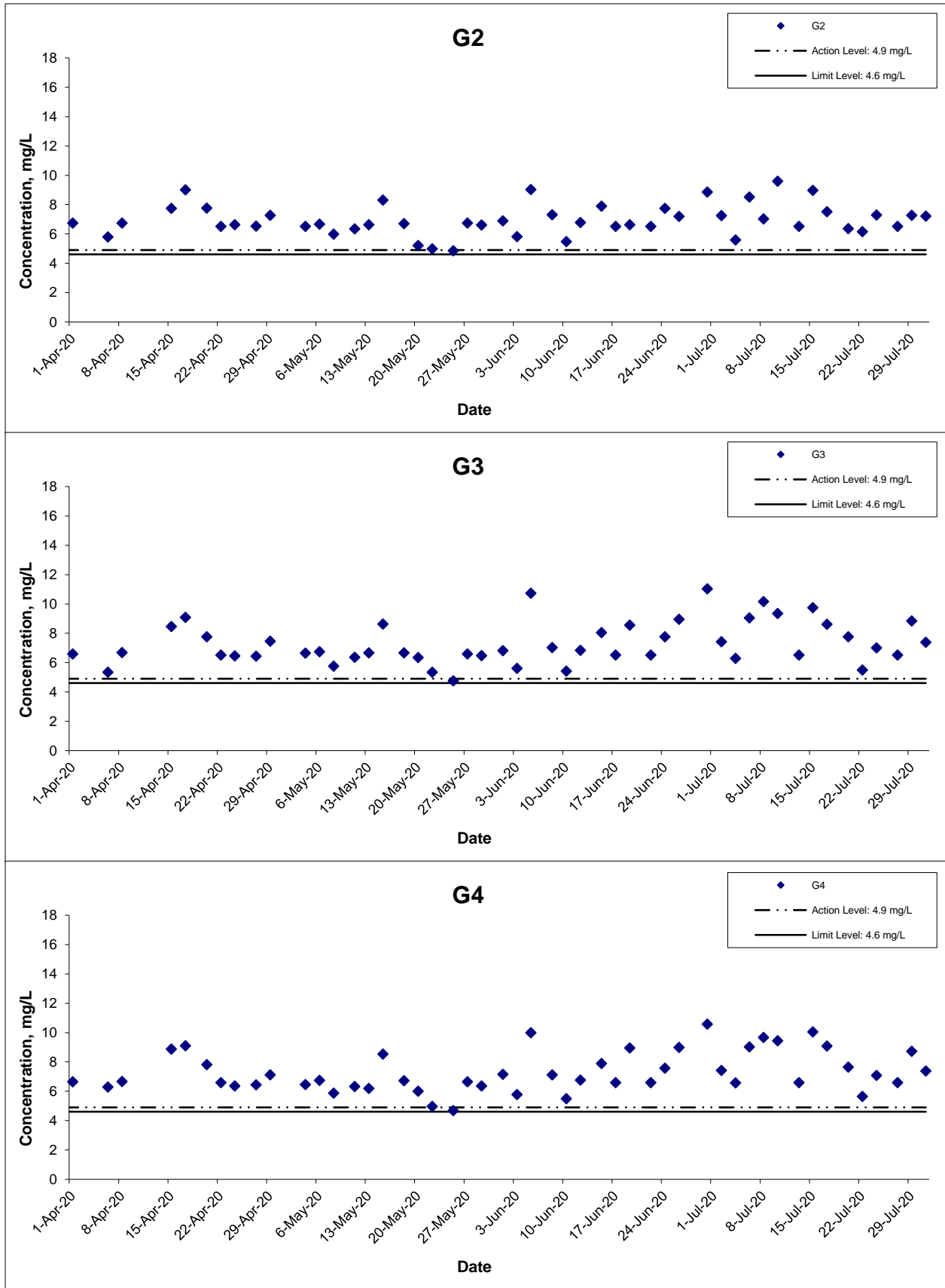
1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Dissolved Oxygen (Depth-averaged) at Mid-Ebb Tide



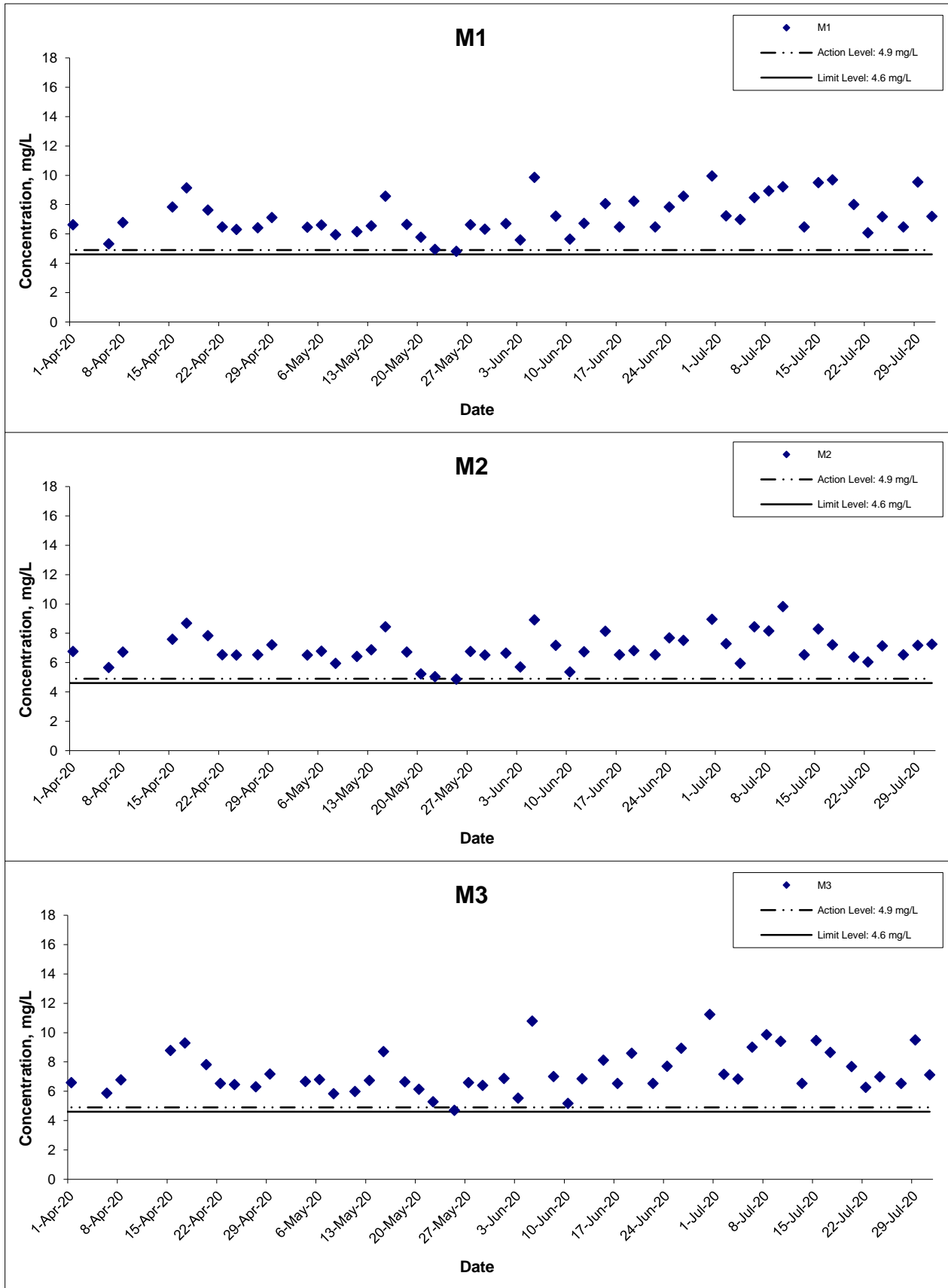
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Dissolved Oxygen (Depth-averaged) at Mid-Ebb Tide



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Dissolved Oxygen (Depth-averaged) at Mid-Ebb Tide



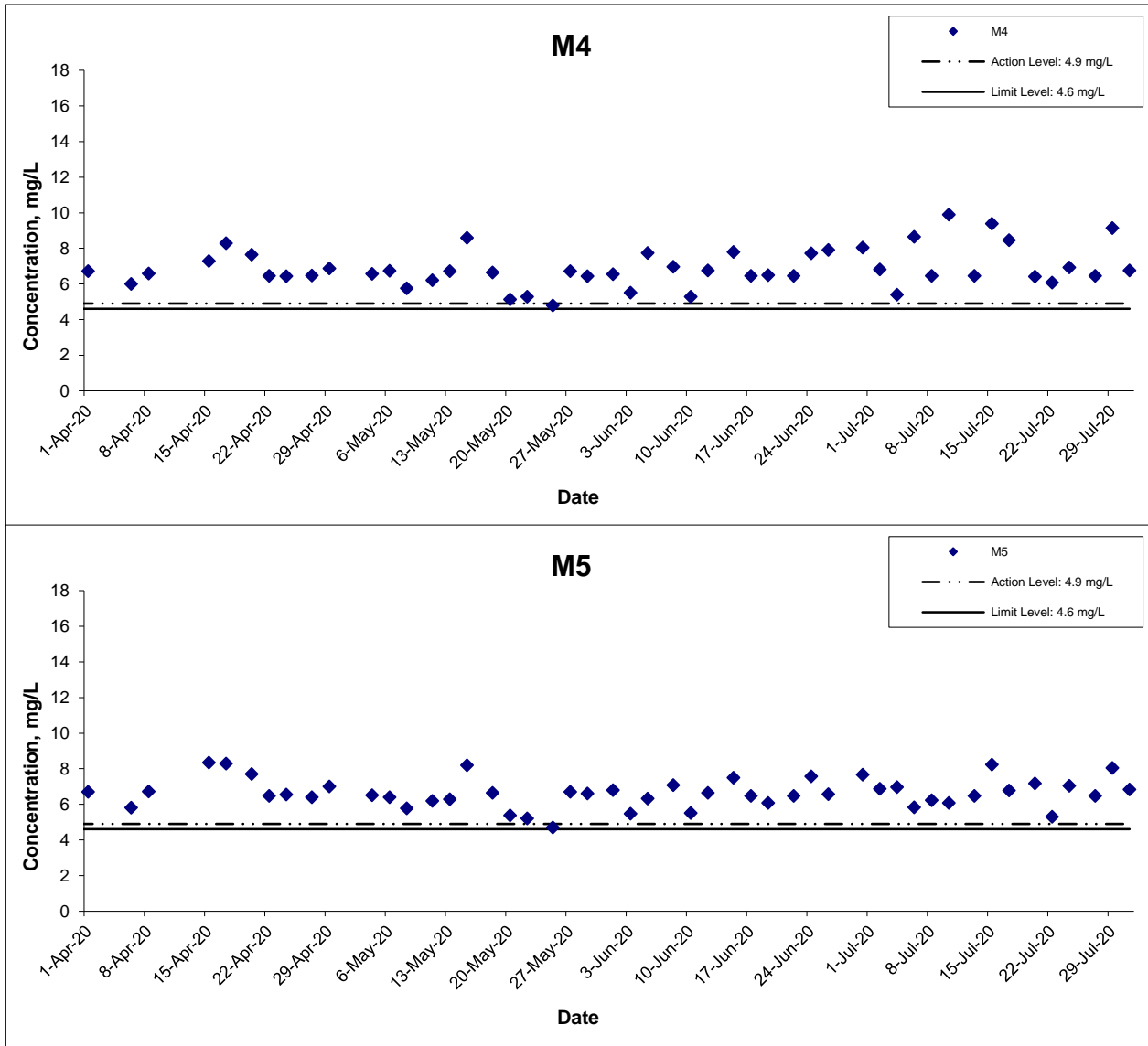
Title
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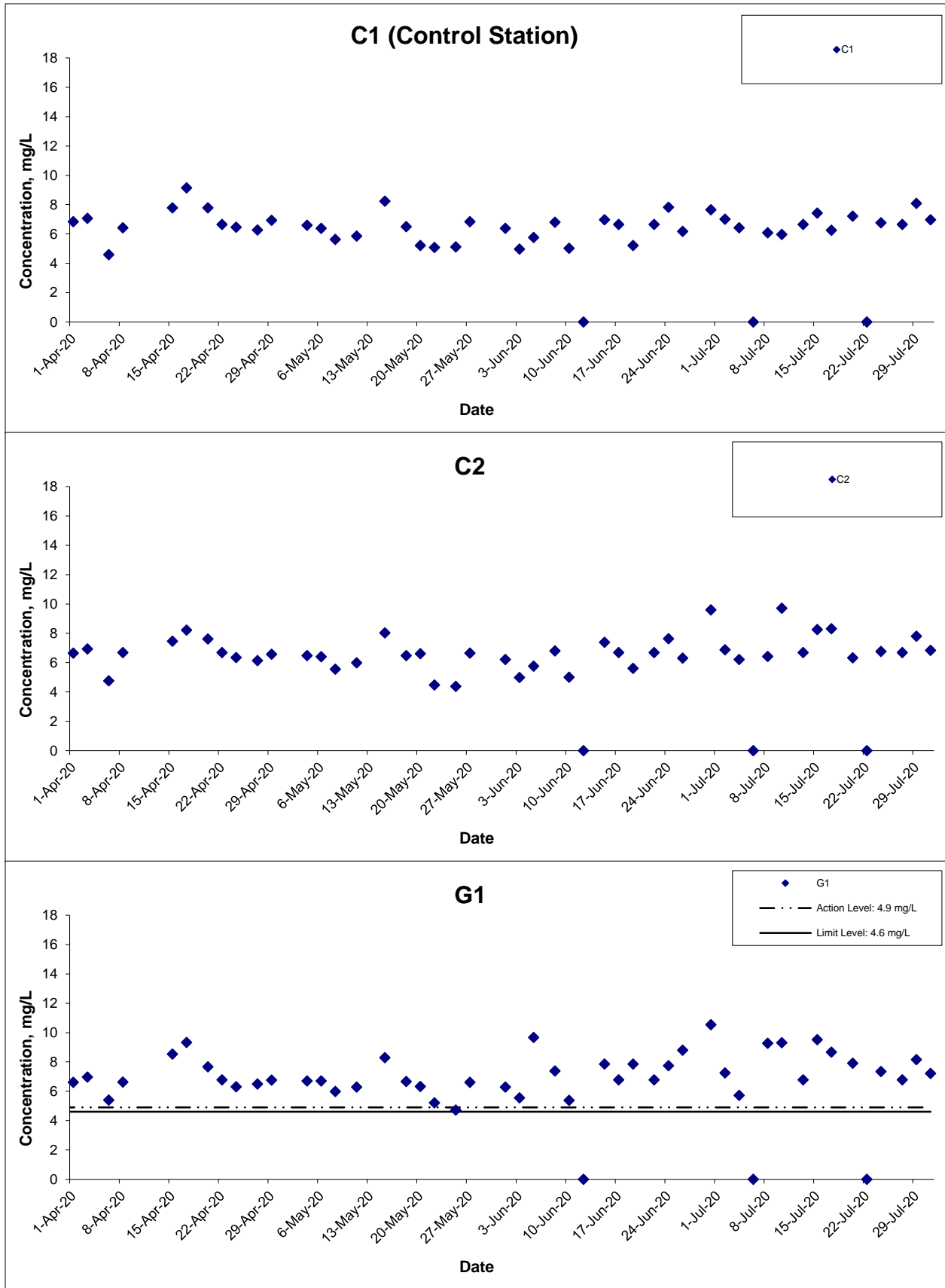


Dissolved Oxygen (Depth-averaged) at Mid-Ebb Tide



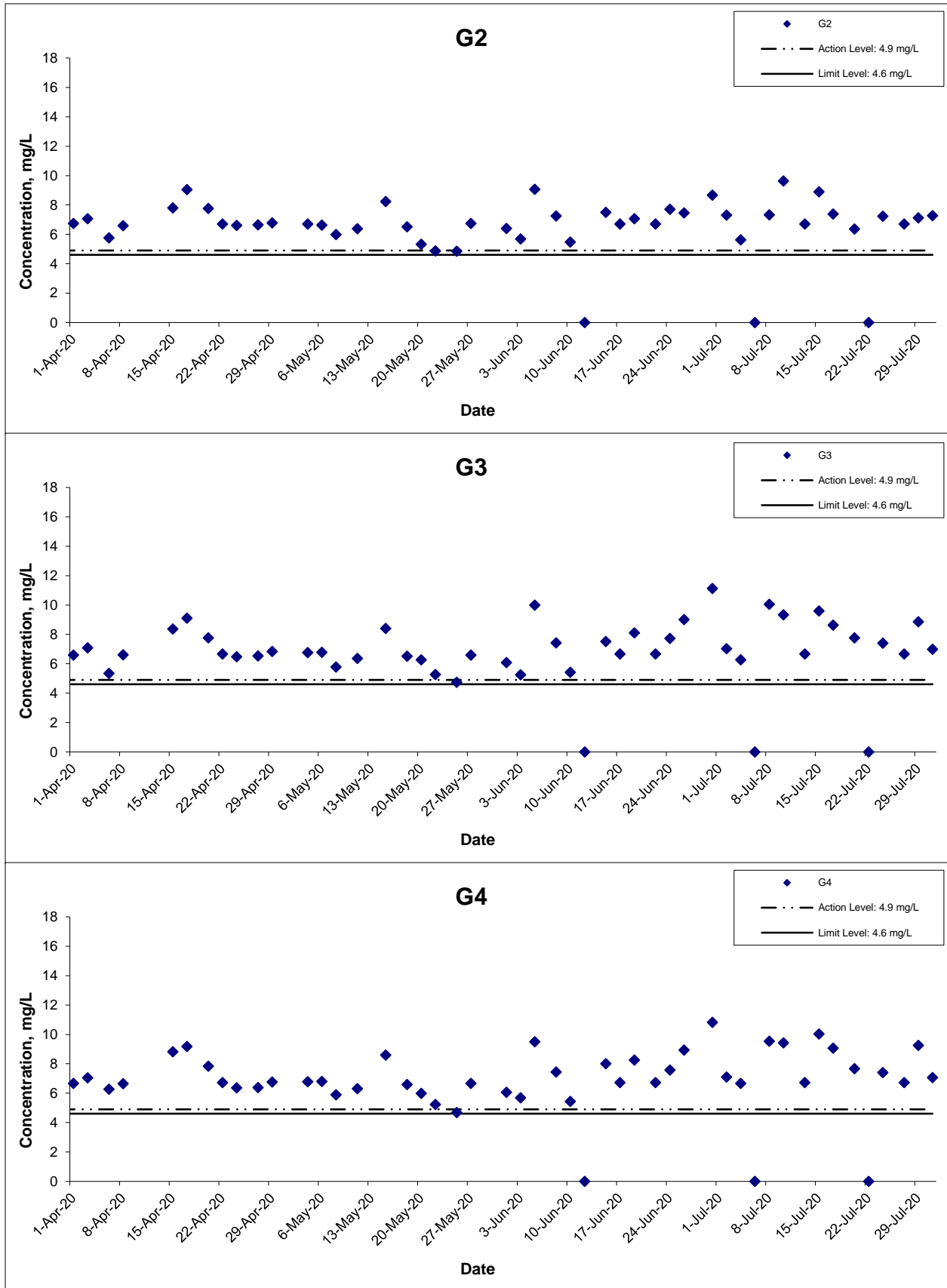
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Dissolved Oxygen (Depth-averaged) at Mid-Flood Tide



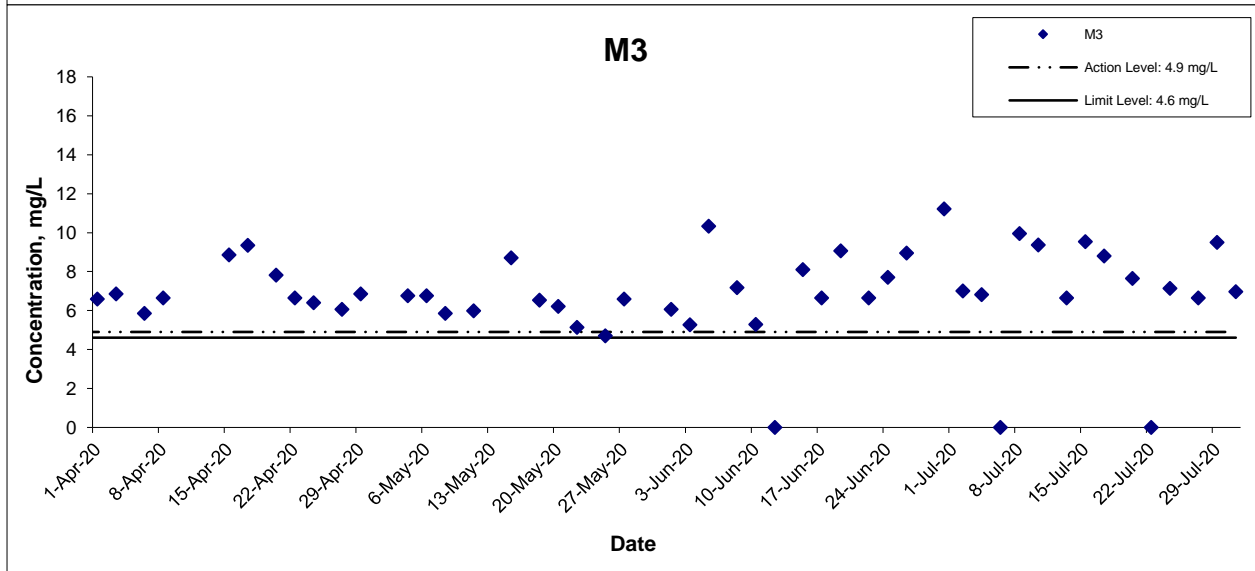
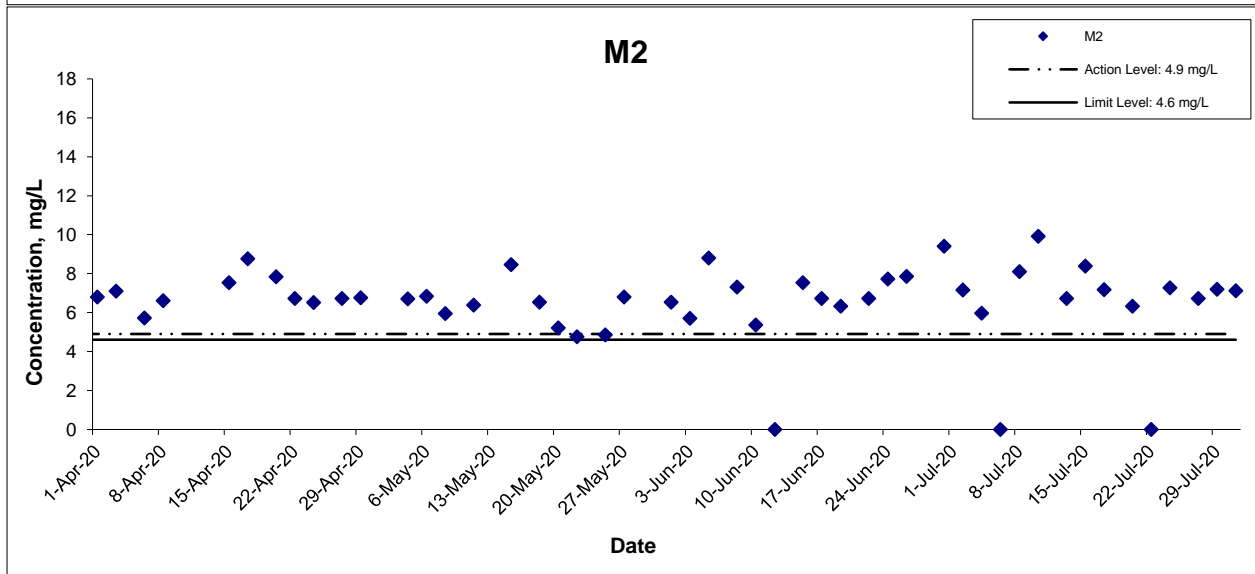
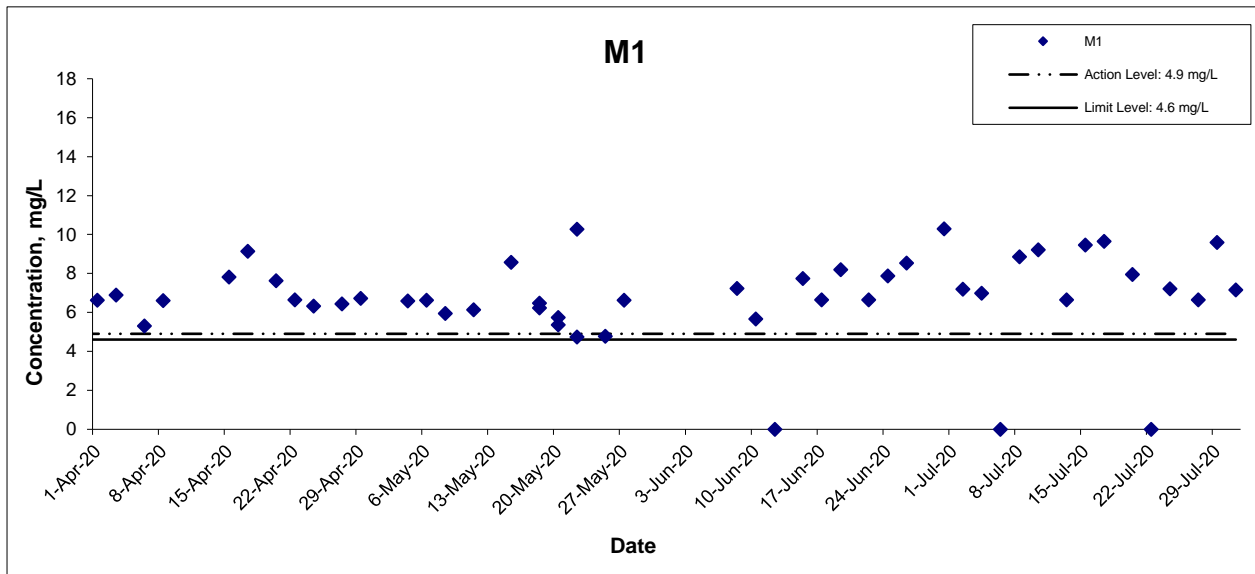
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Dissolved Oxygen (Depth-averaged) at Mid-Flood Tide



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Dissolved Oxygen (Depth-averaged) at Mid-Flood Tide



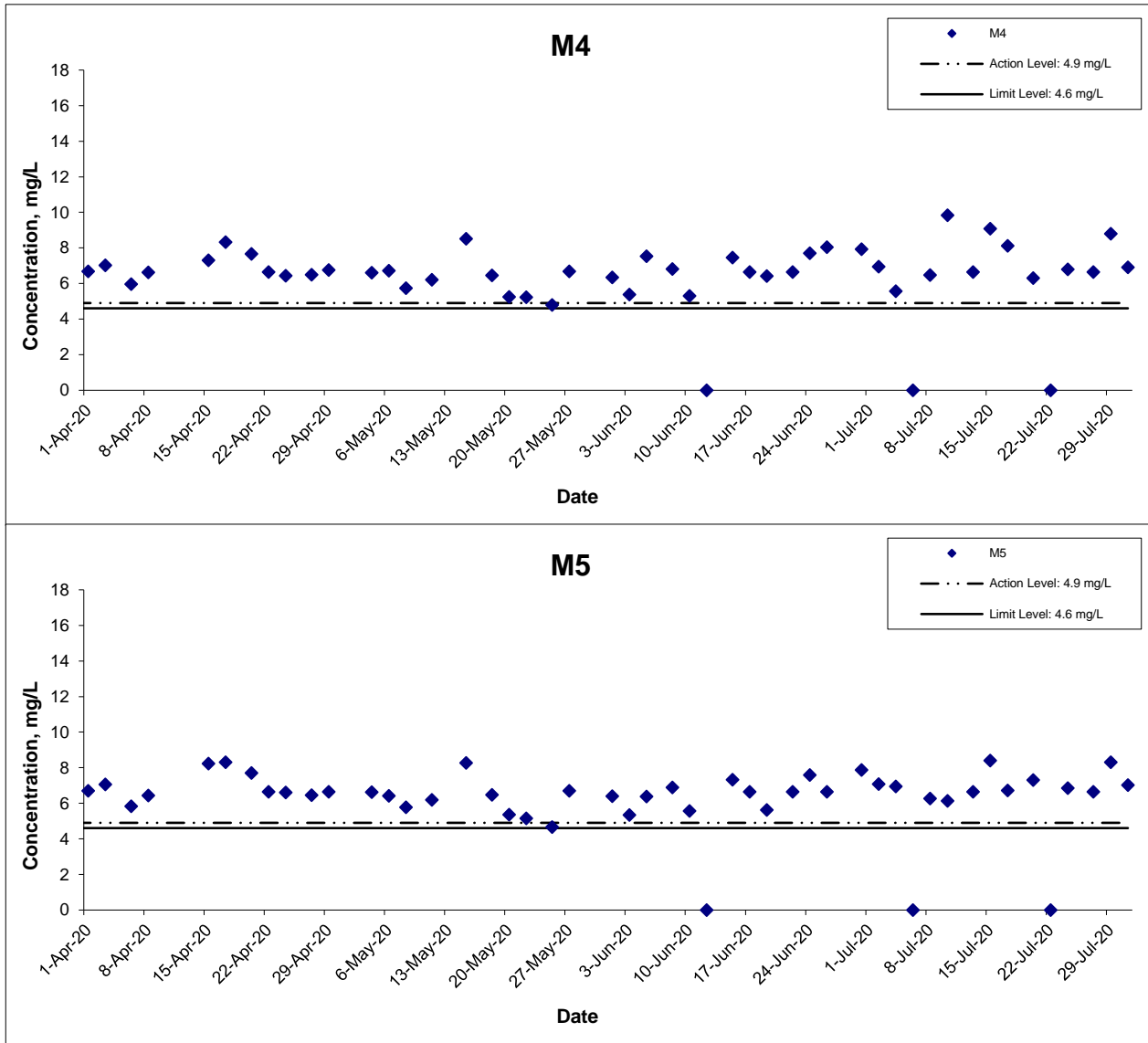
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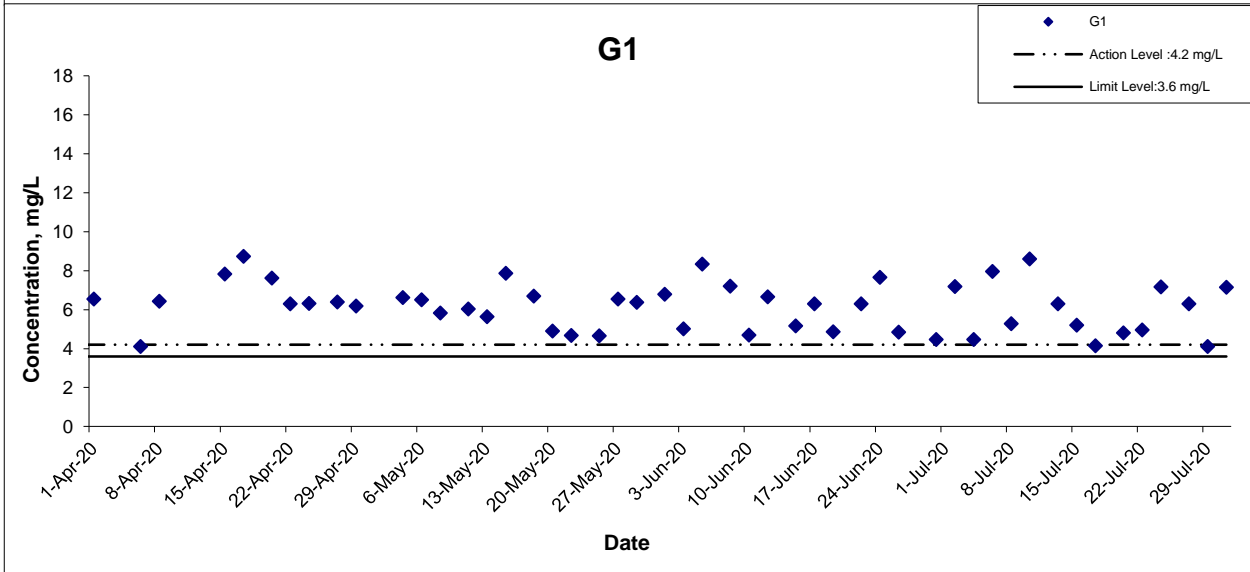
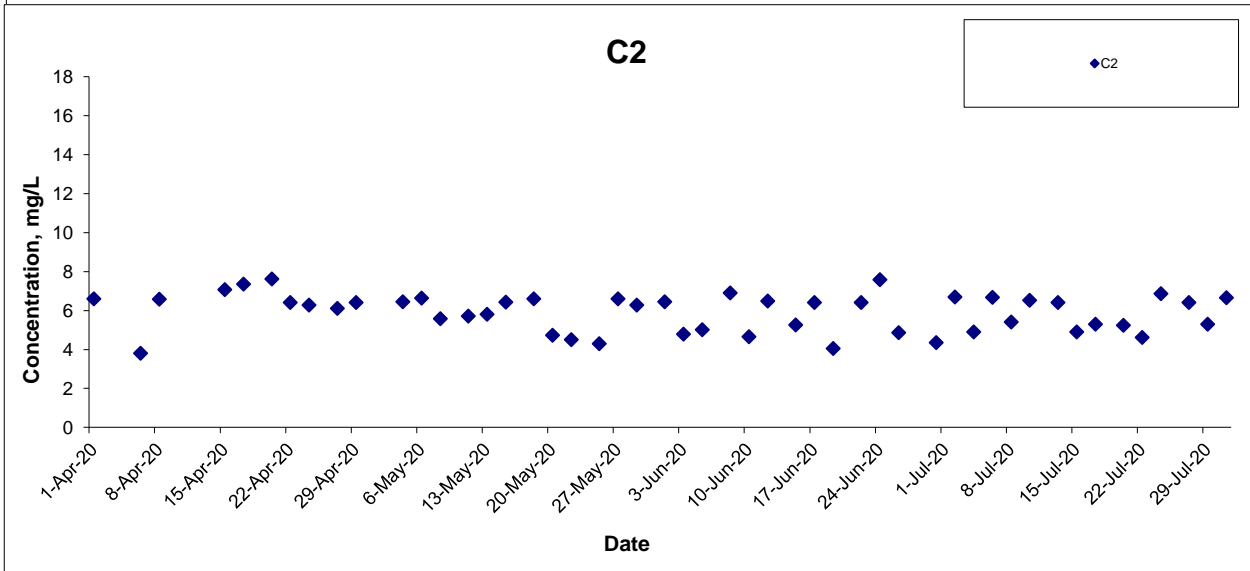
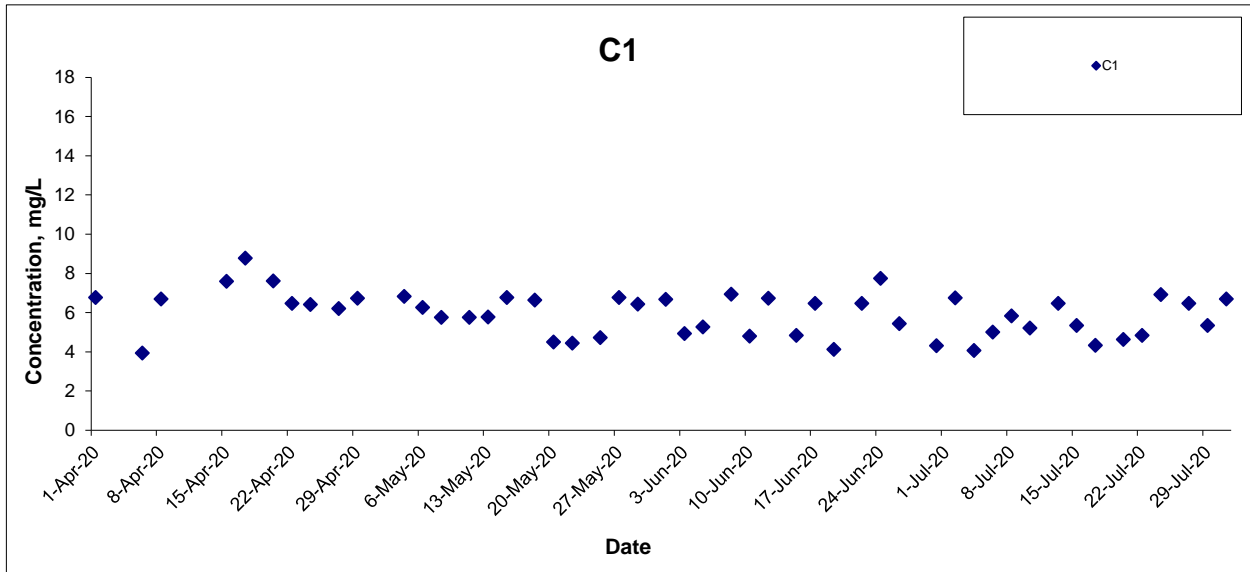


Dissolved Oxygen (Depth-averaged) at Mid-Flood Tide



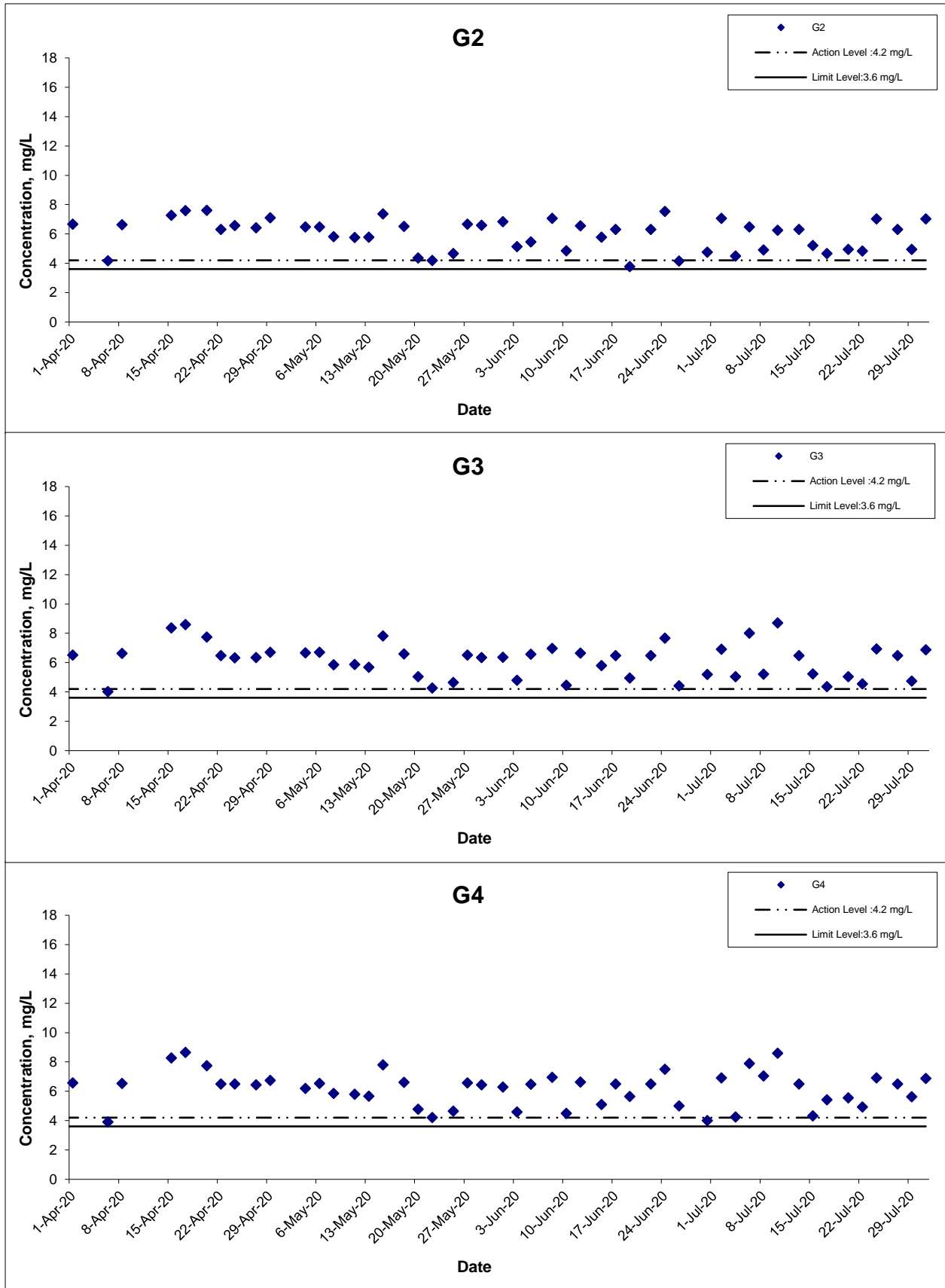
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Dissolved Oxygen (Bottom) at Mid-Ebb Tide



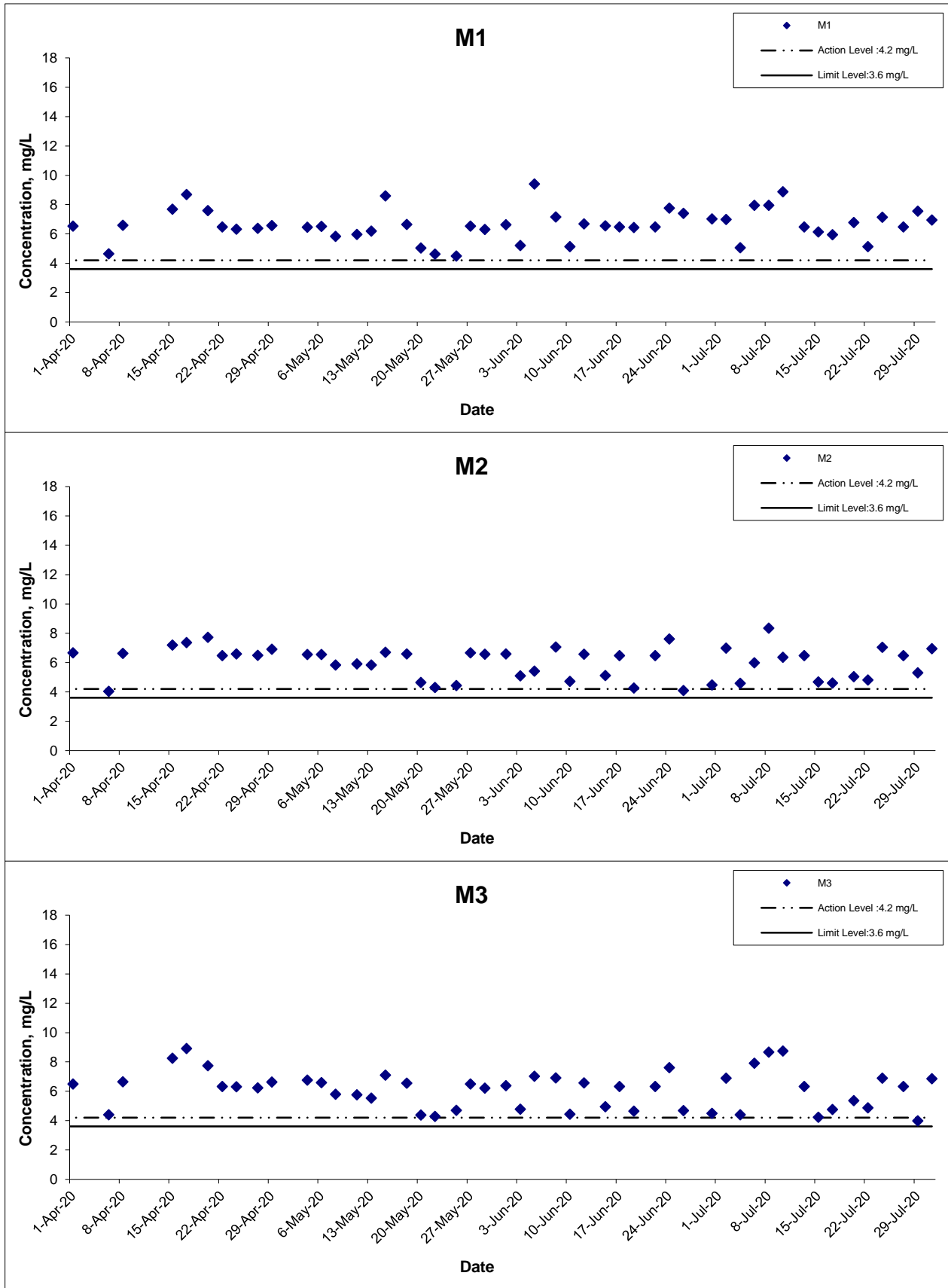
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Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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Dissolved Oxygen (Bottom) at Mid-Ebb Tide



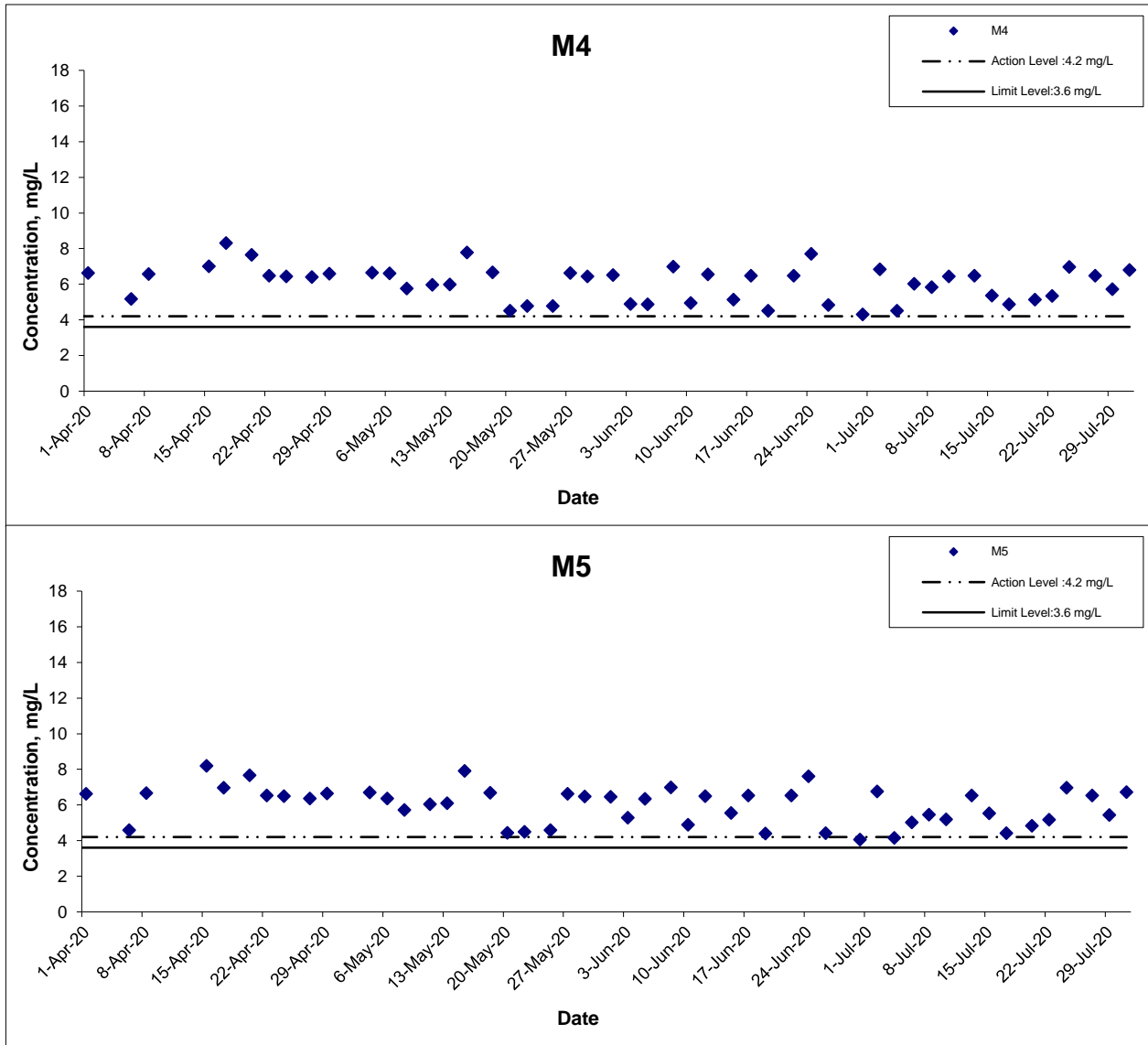
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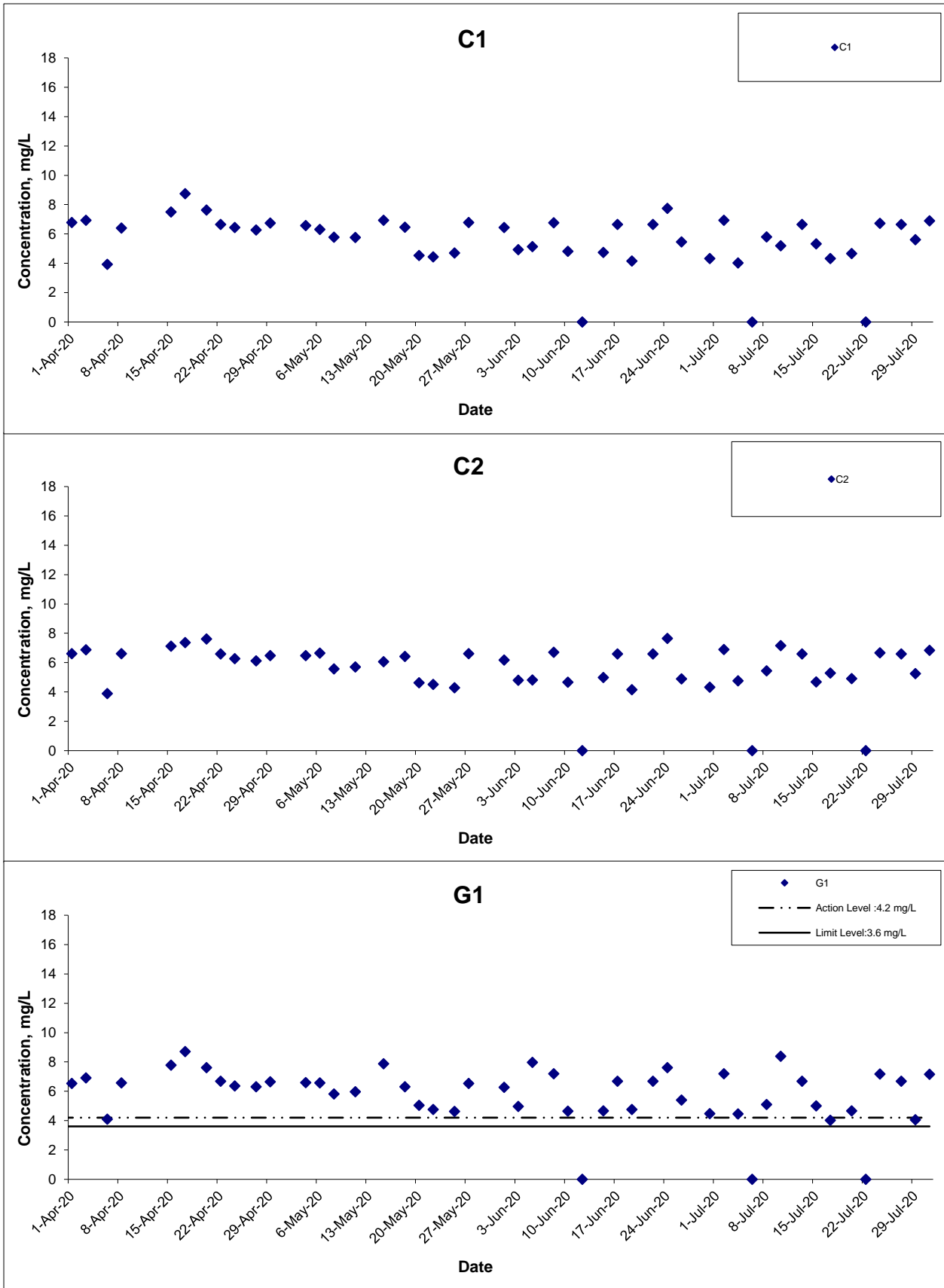


Dissolved Oxygen (Bottom) at Mid-Ebb Tide



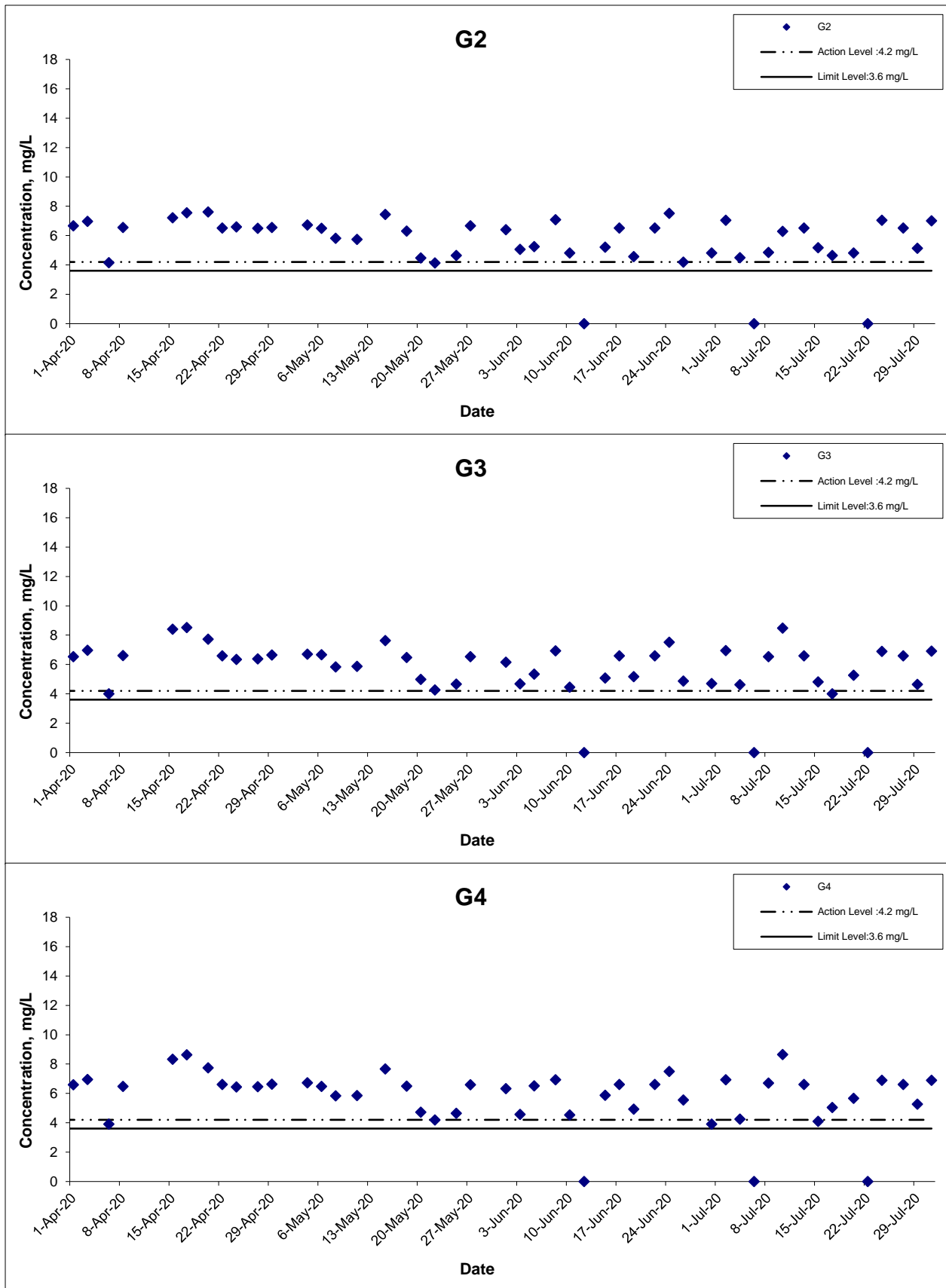
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Dissolved Oxygen (Bottom) at Mid-Flood Tide



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Dissolved Oxygen (Bottom) at Mid-Flood Tide



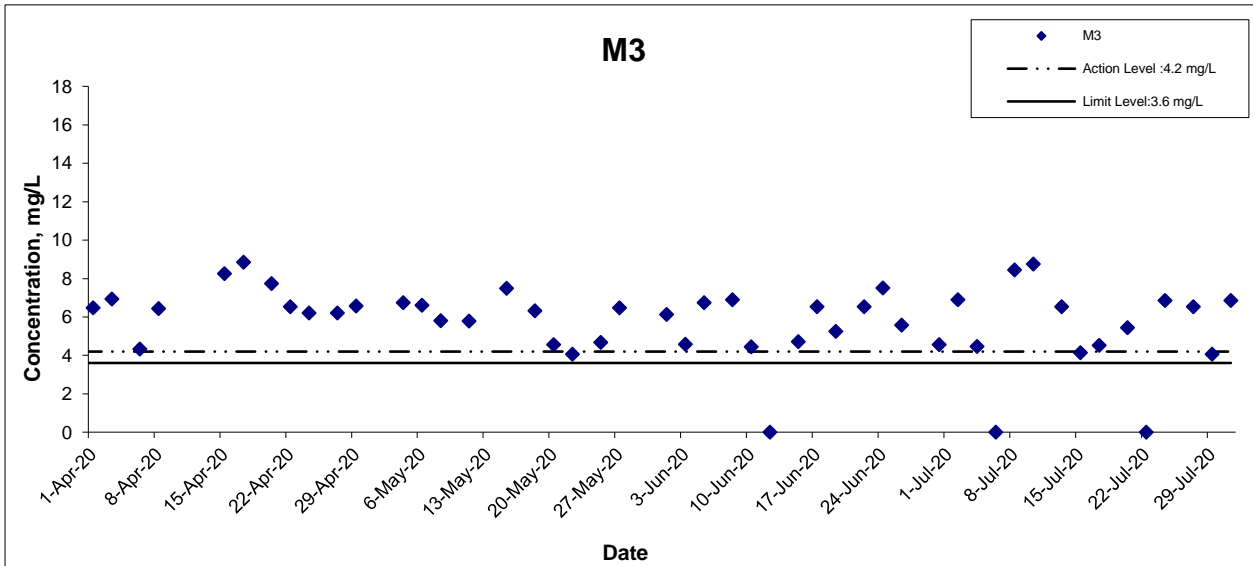
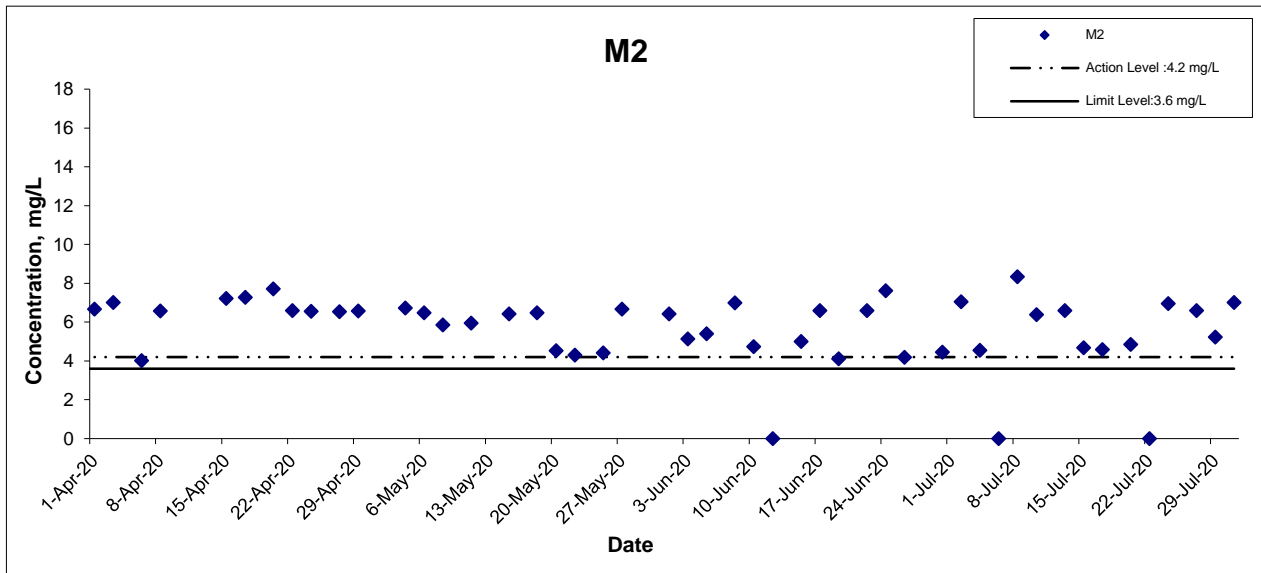
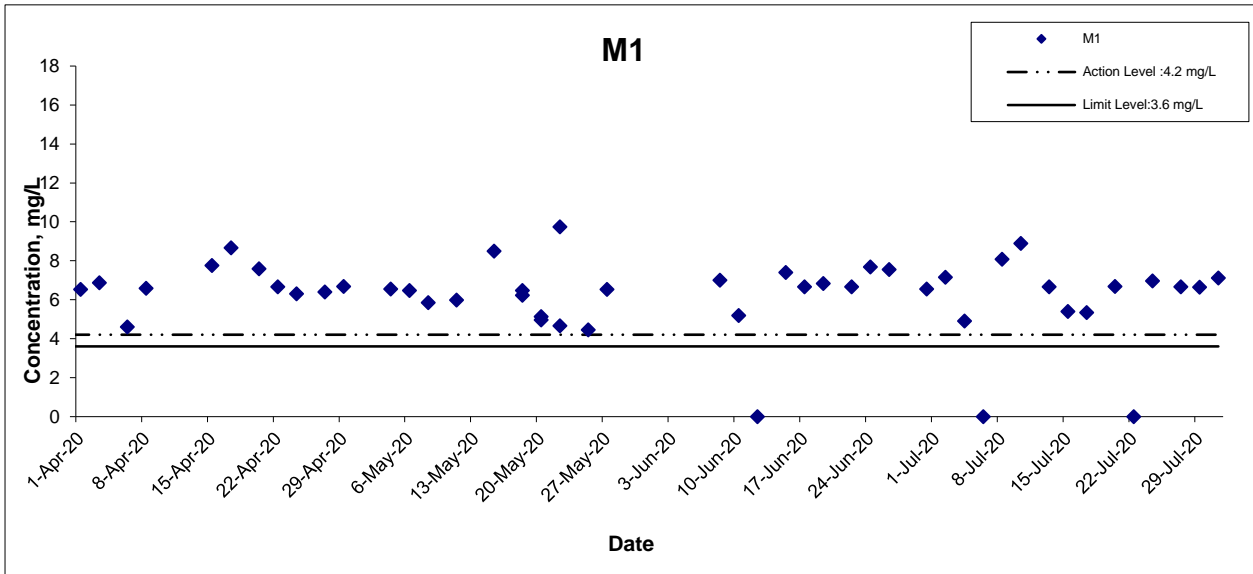
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Dissolved Oxygen (Bottom) at Mid-Flood Tide



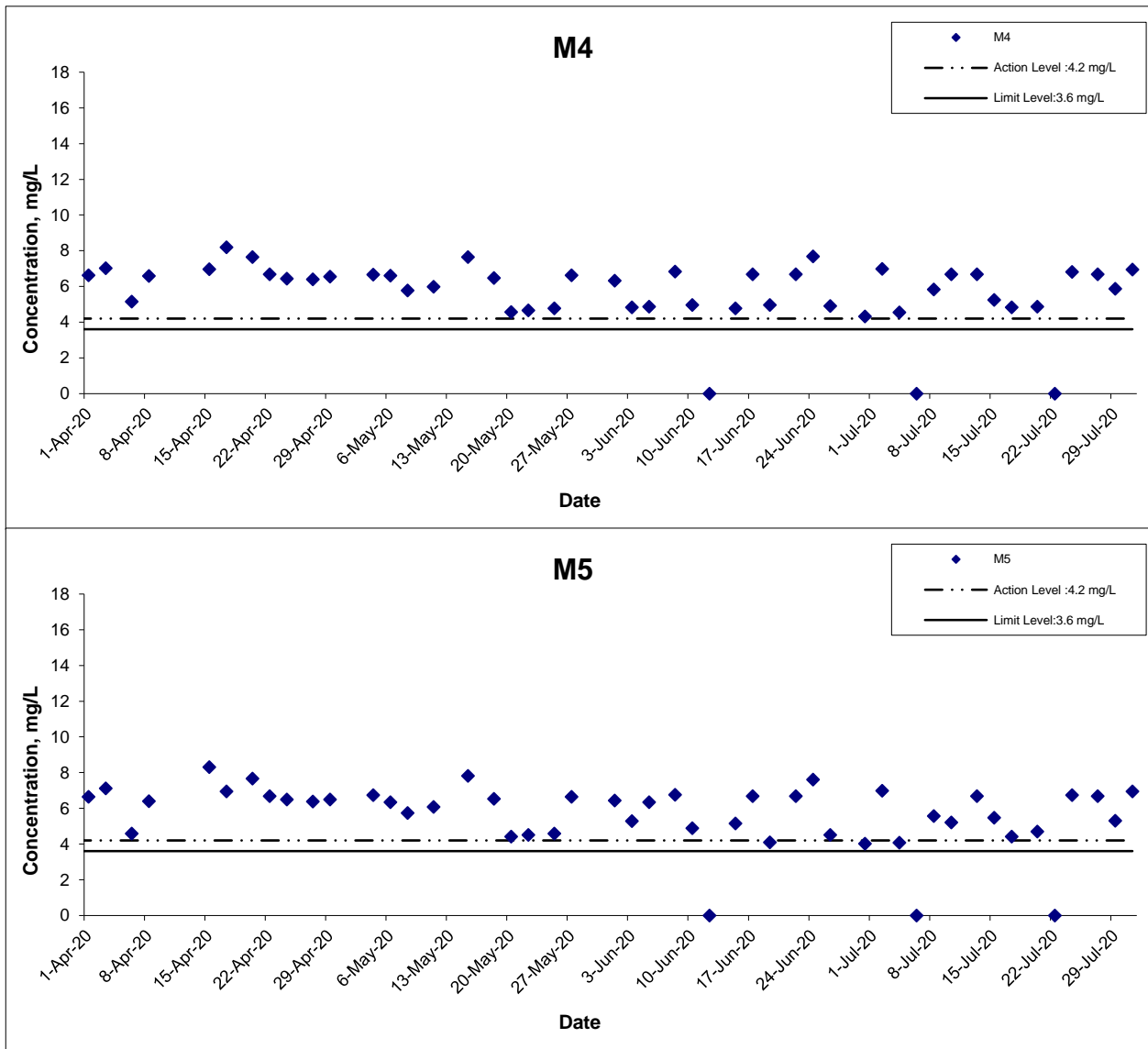
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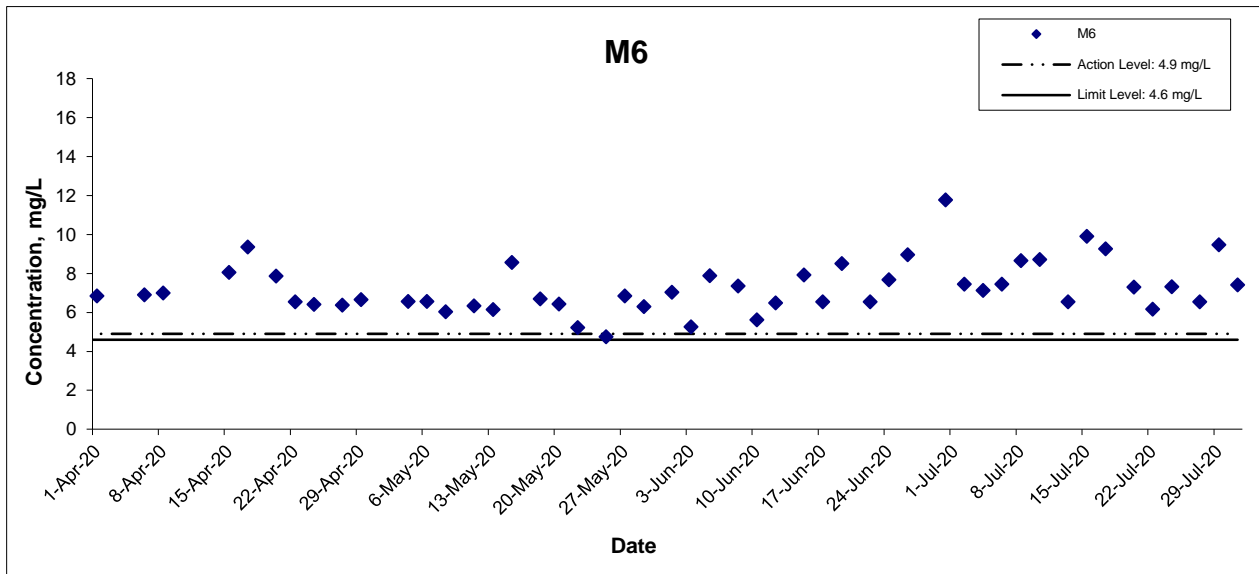


Dissolved Oxygen (Bottom) at Mid-Flood Tide



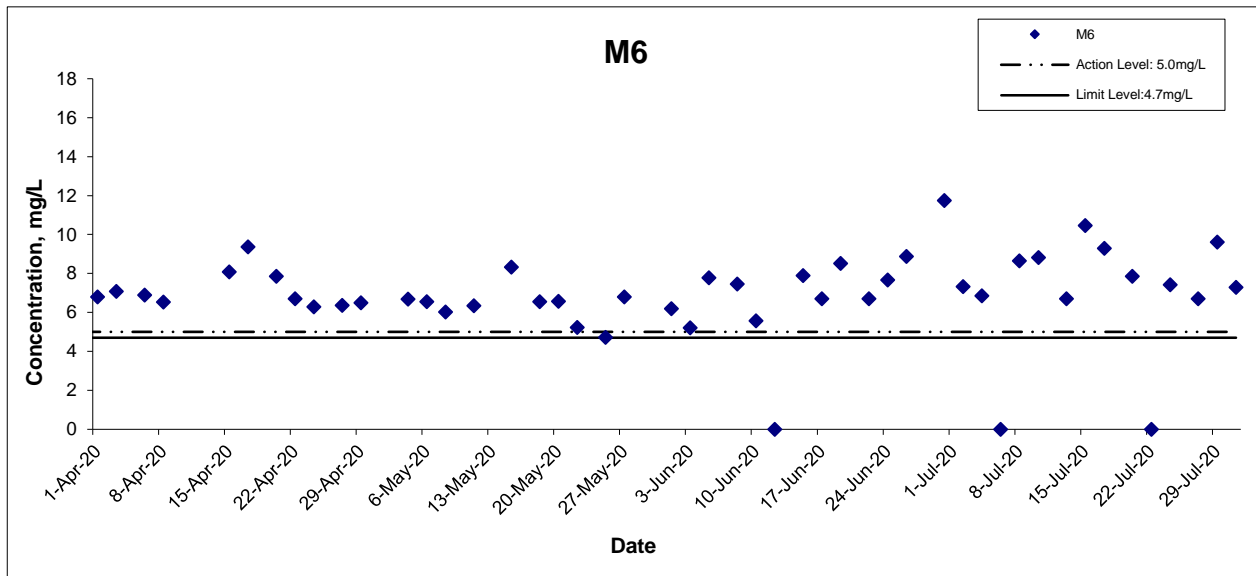
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Dissolved Oxygen (Intake Level of WSD Salt Water Intake) at Mid-Ebb Tide



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Dissolved Oxygen (Intake Level of WSD Salt Water Intake) at Mid-Flood Tide



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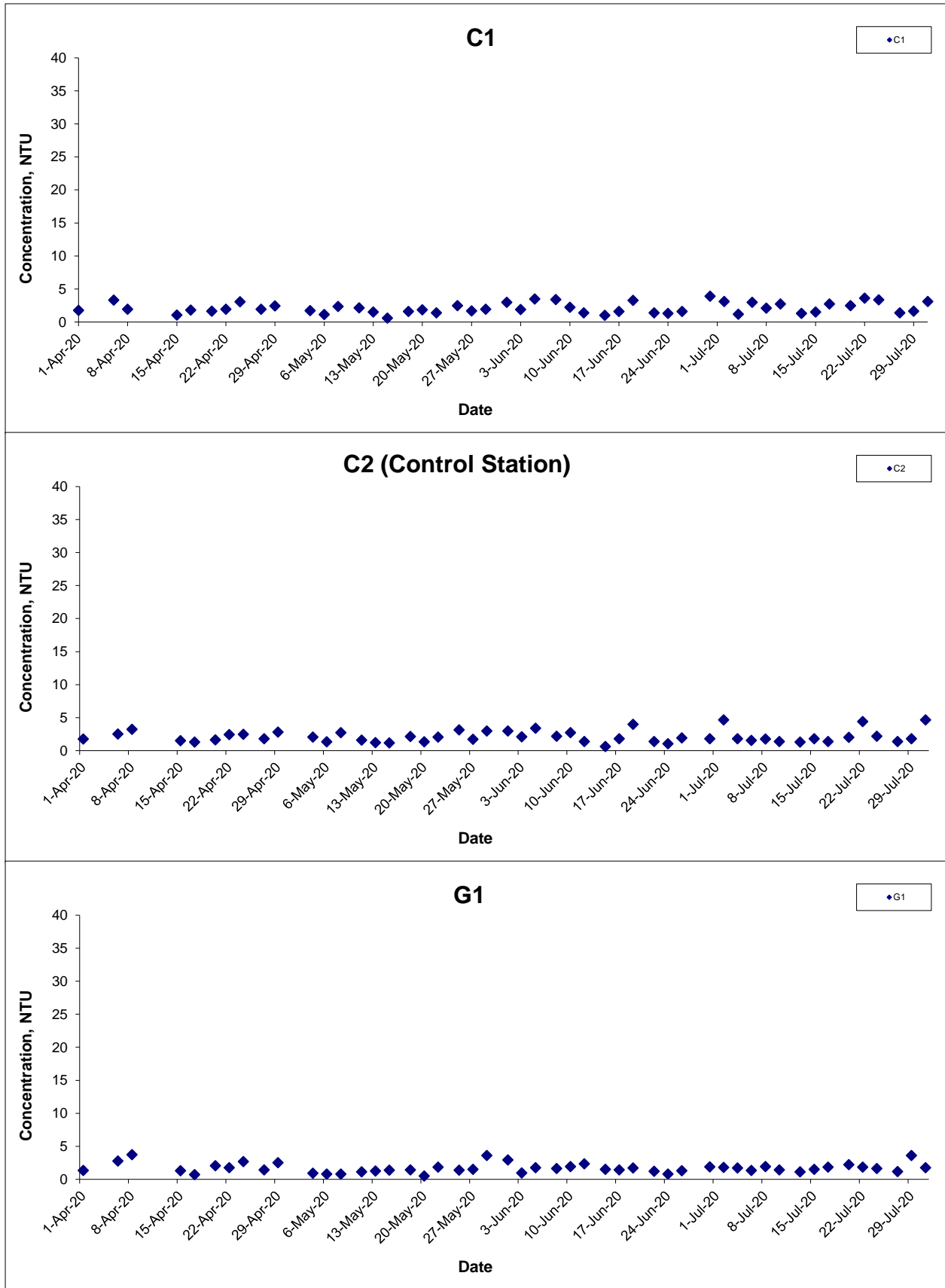
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Turbidity (Depth-averaged) at Mid-Ebb Tide



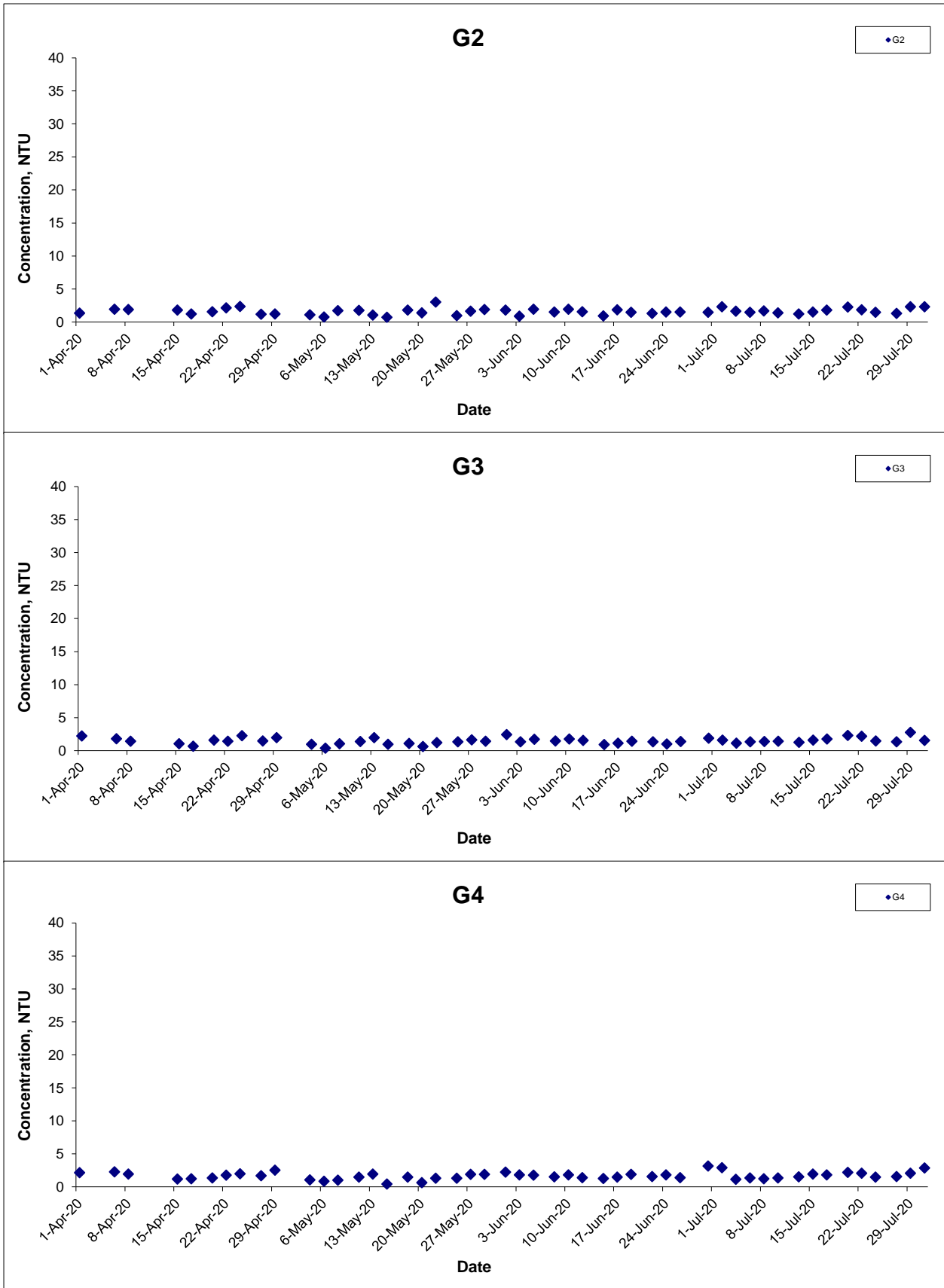
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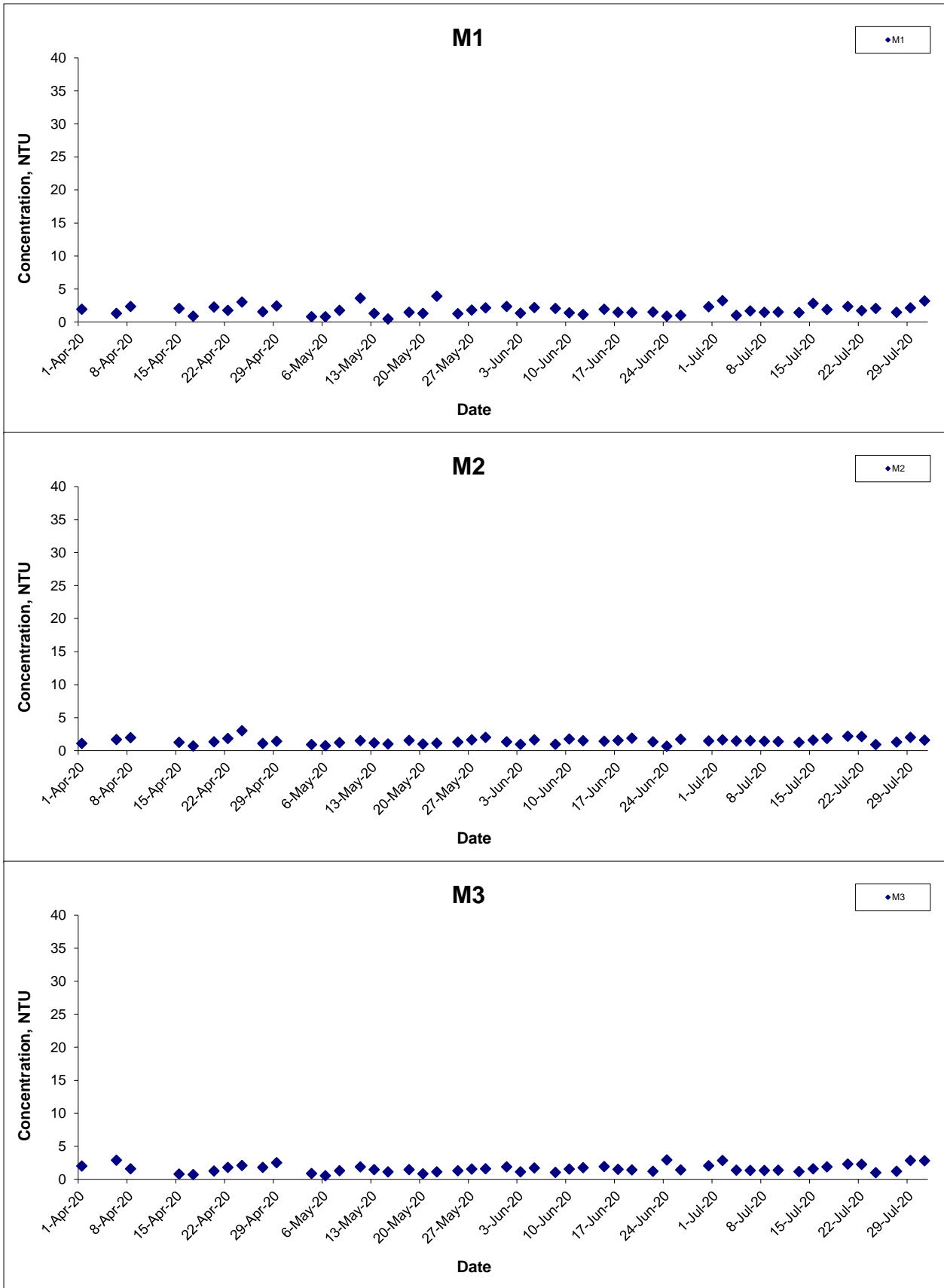


Turbidity (Depth-averaged) at Mid-Ebb Tide



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Turbidity (Depth-averaged) at Mid-Ebb Tide



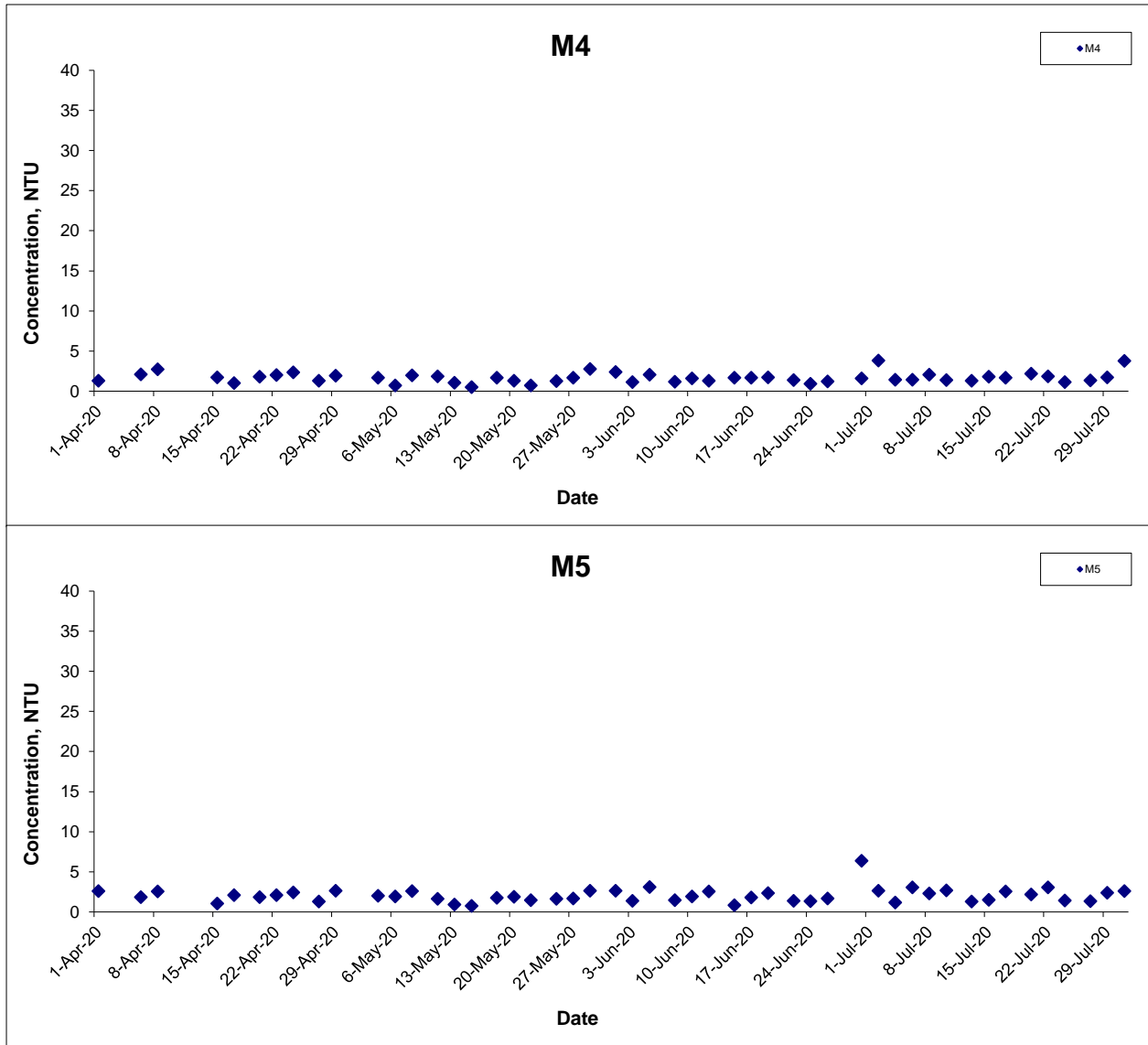
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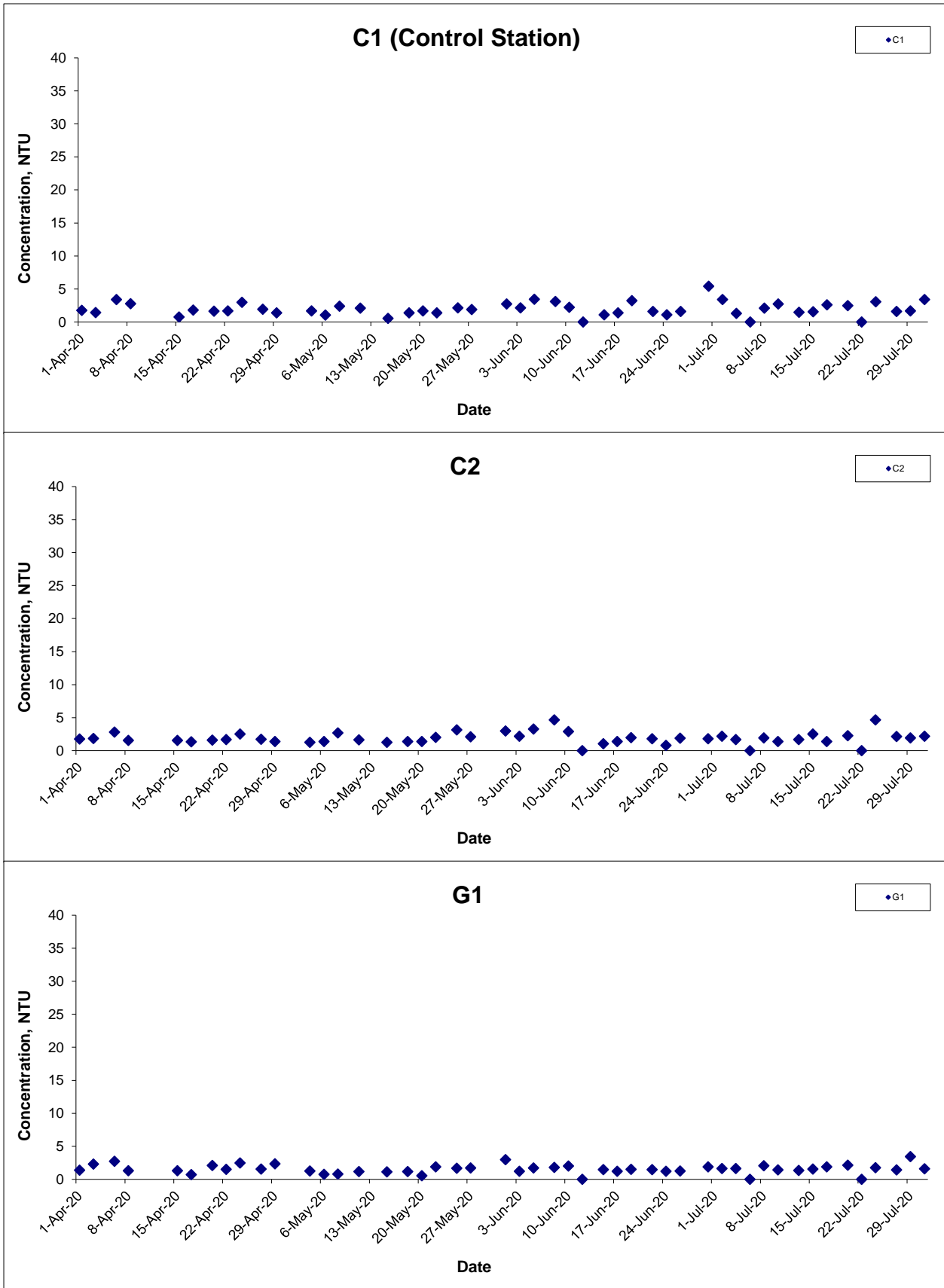


Turbidity (Depth-averaged) at Mid-Ebb Tide



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Turbidity (Depth-averaged) at Mid-Flood Tide



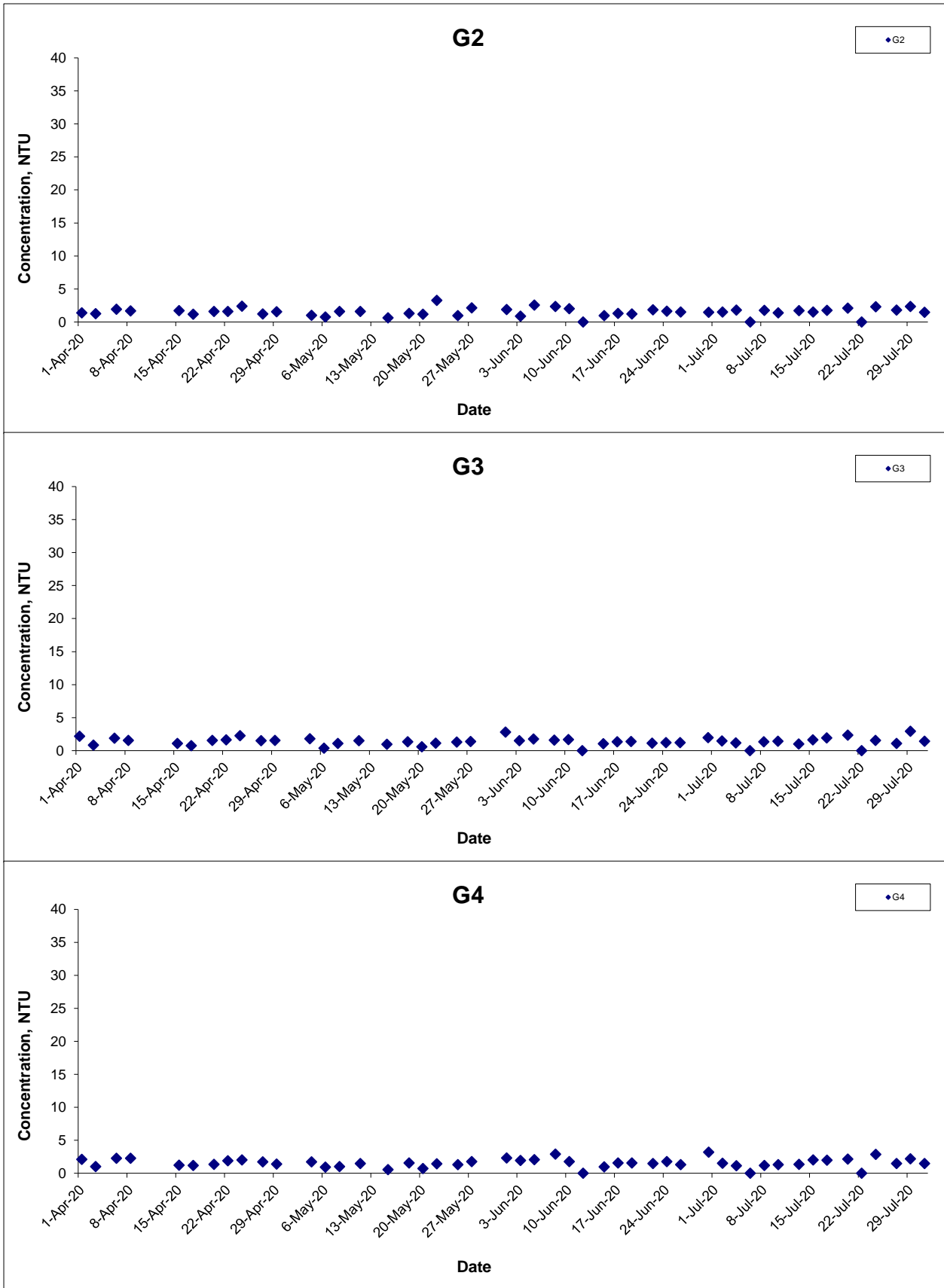
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Turbidity (Depth-averaged) at Mid-Flood Tide



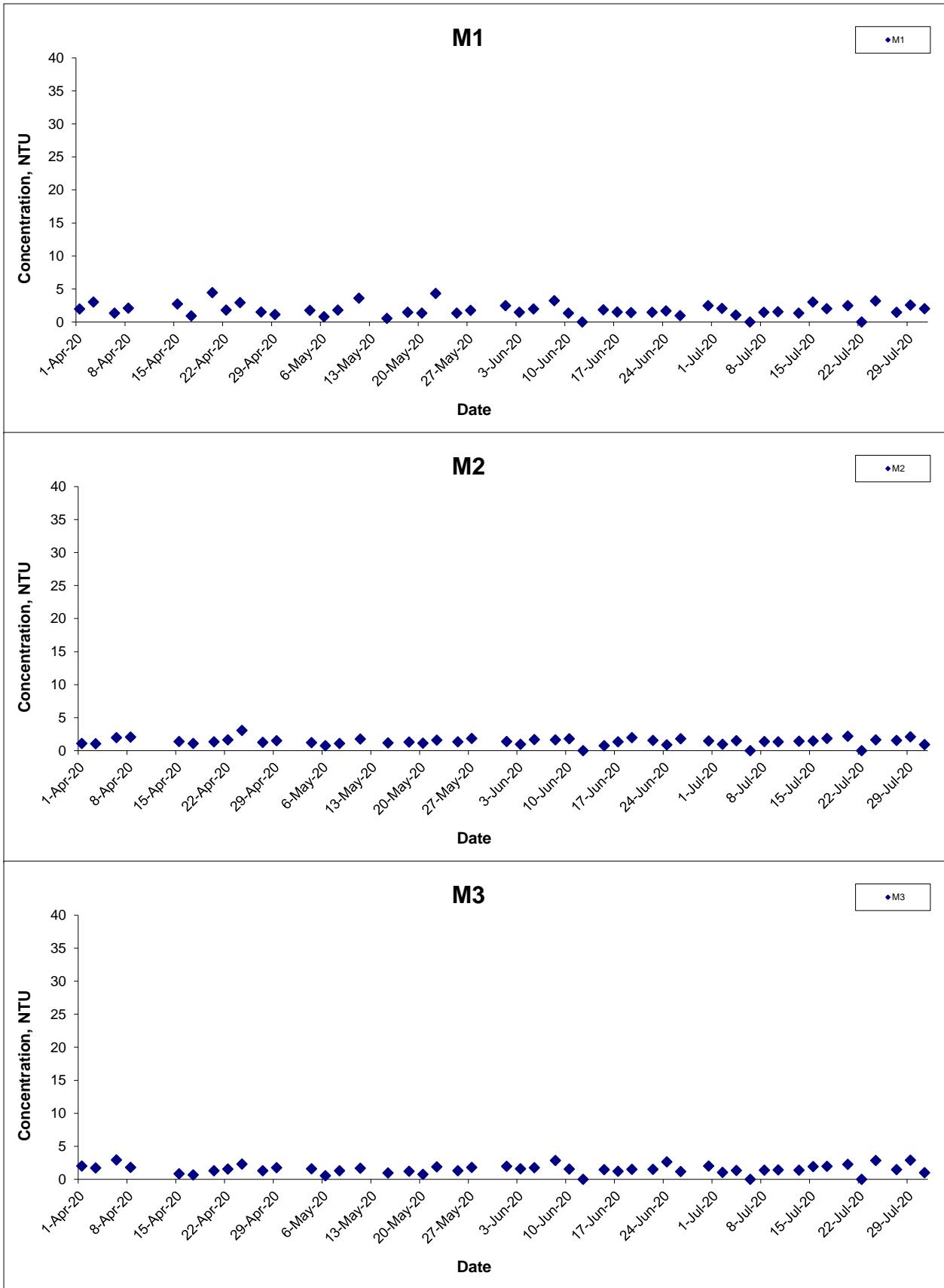
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Turbidity (Depth-averaged) at Mid-Flood Tide



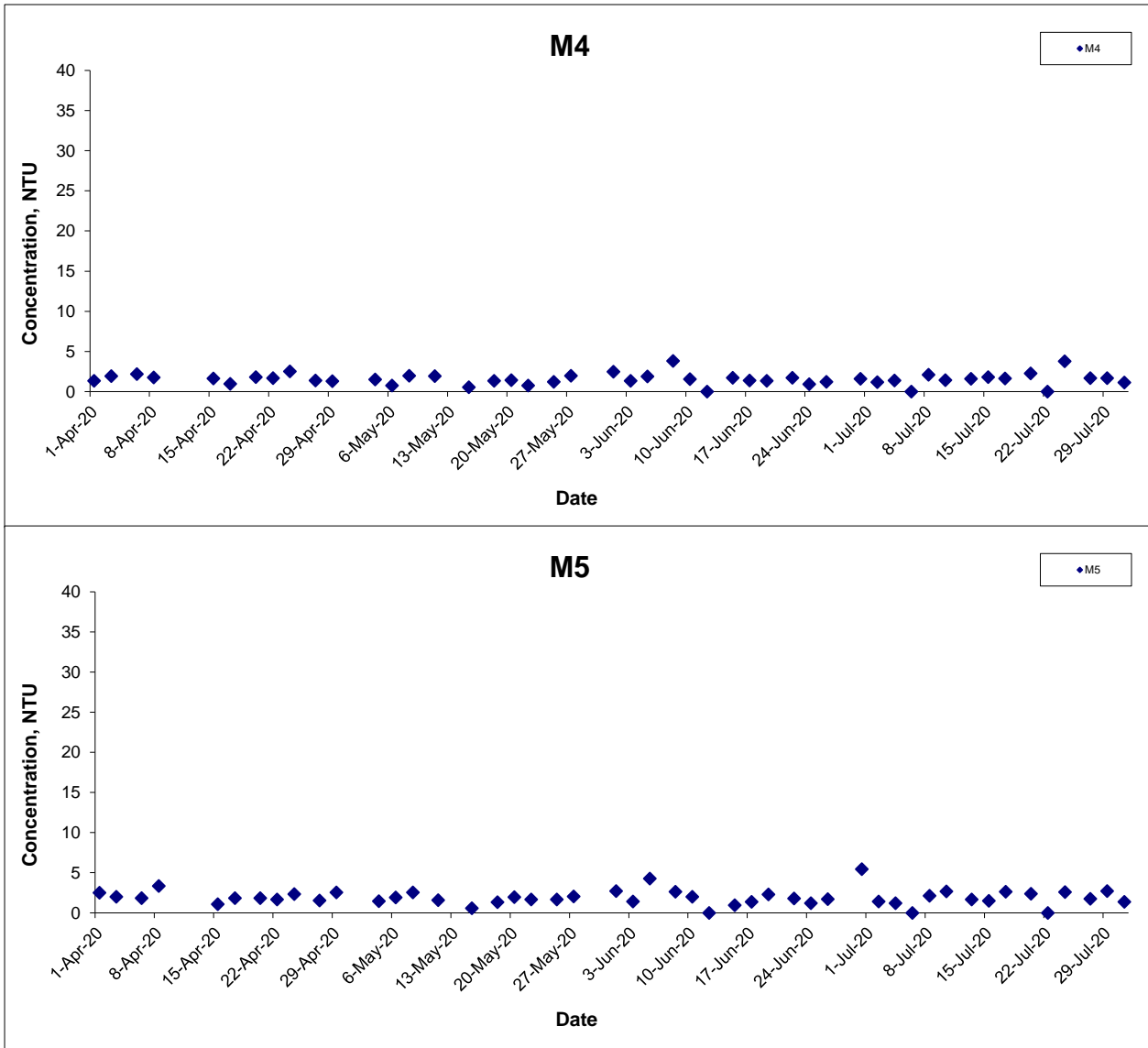
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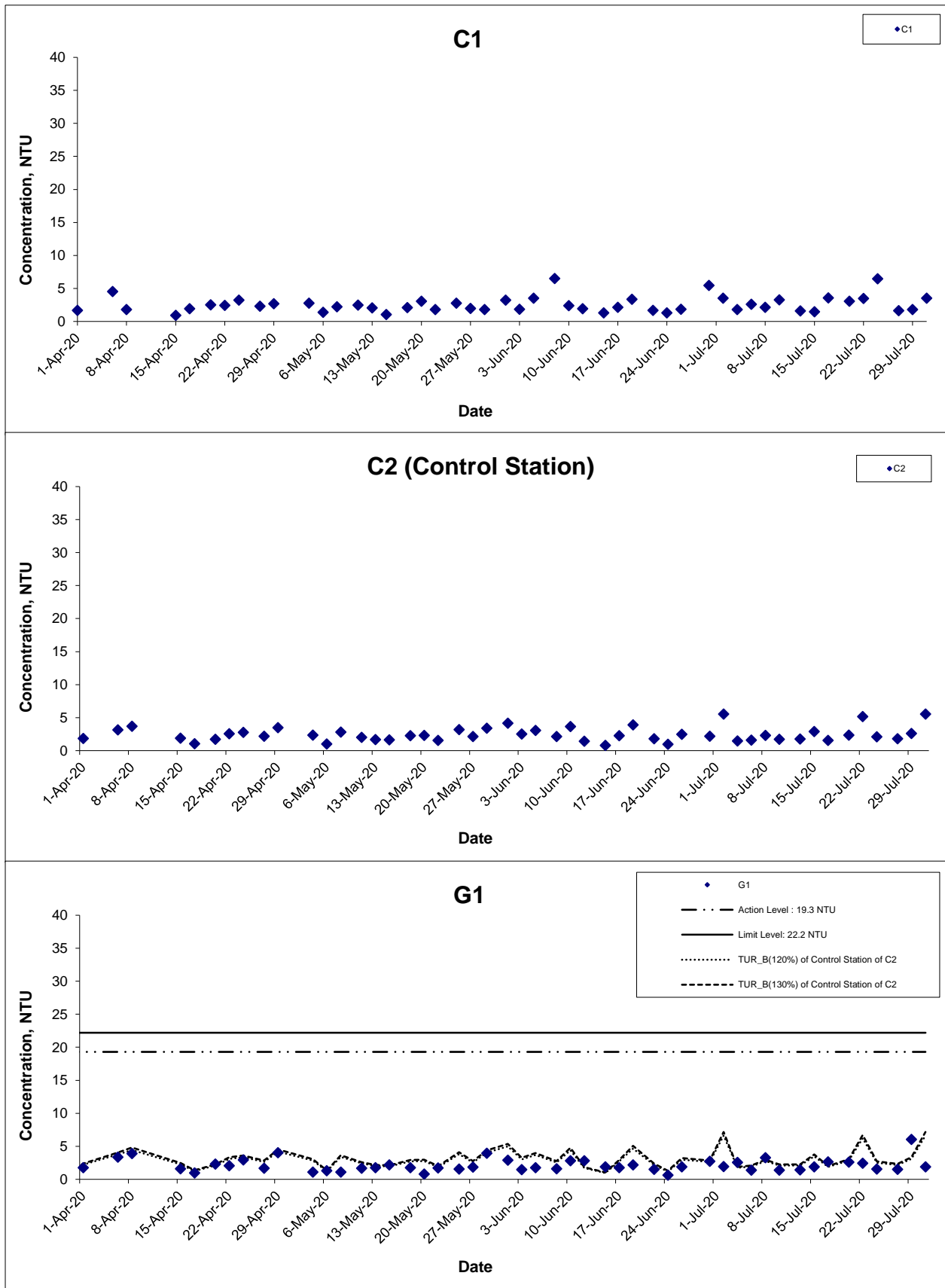


Turbidity (Depth-averaged) at Mid-Flood Tide



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Turbidity (Bottom) at Mid-Ebb Tide



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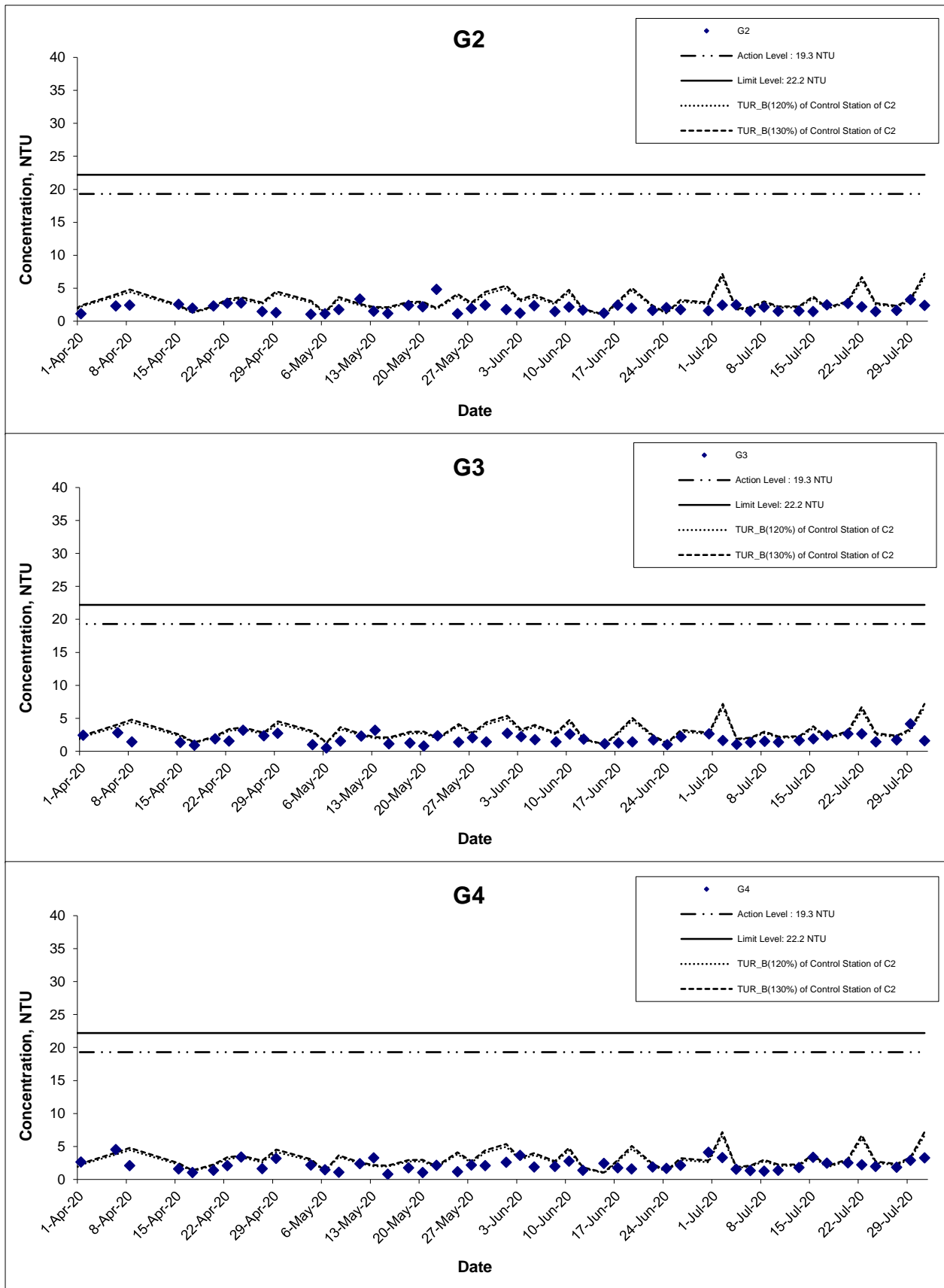
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Turbidity (Bottom) at Mid-Ebb Tide



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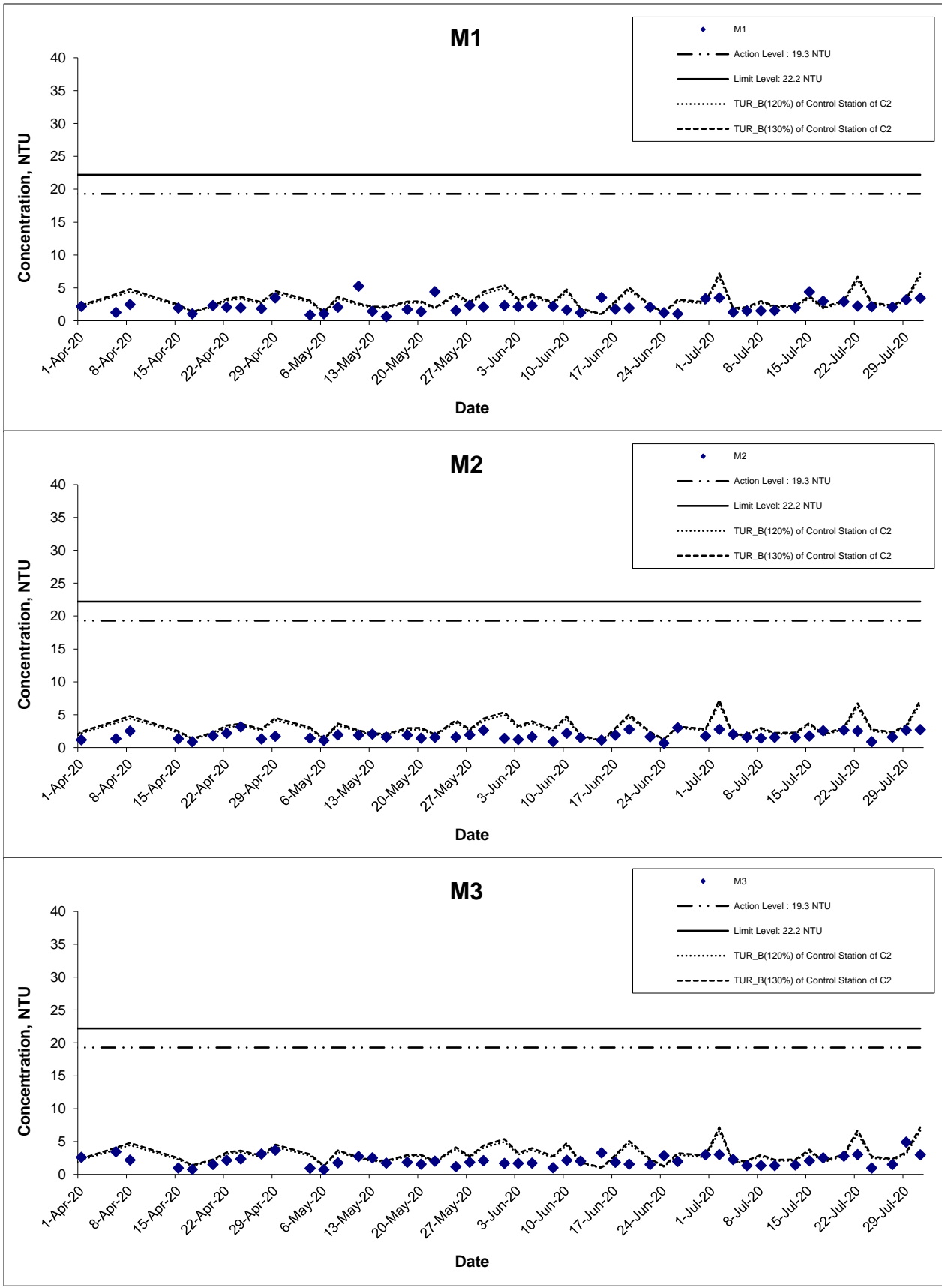
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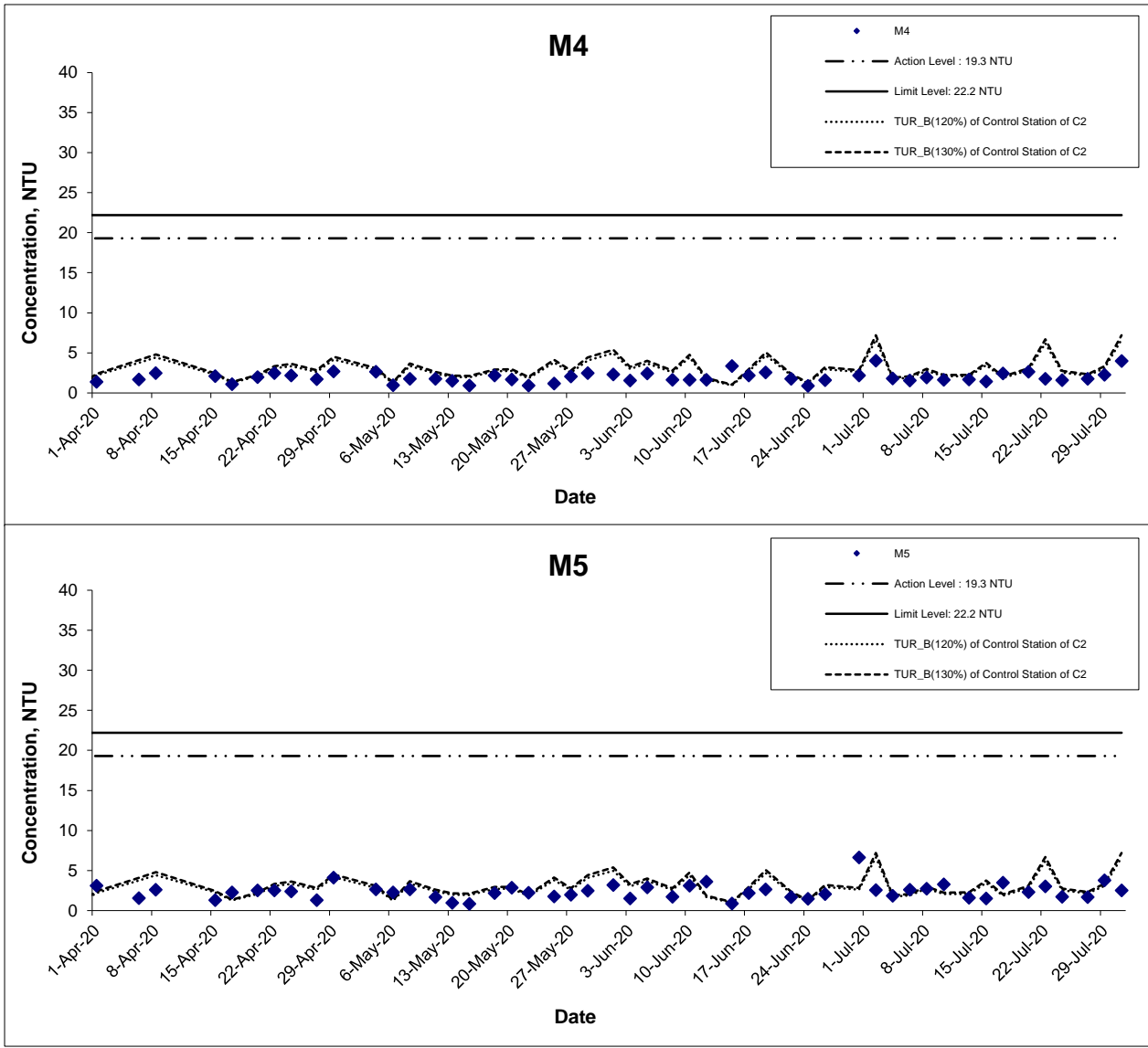
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Turbidity (Bottom) at Mid-Ebb Tide



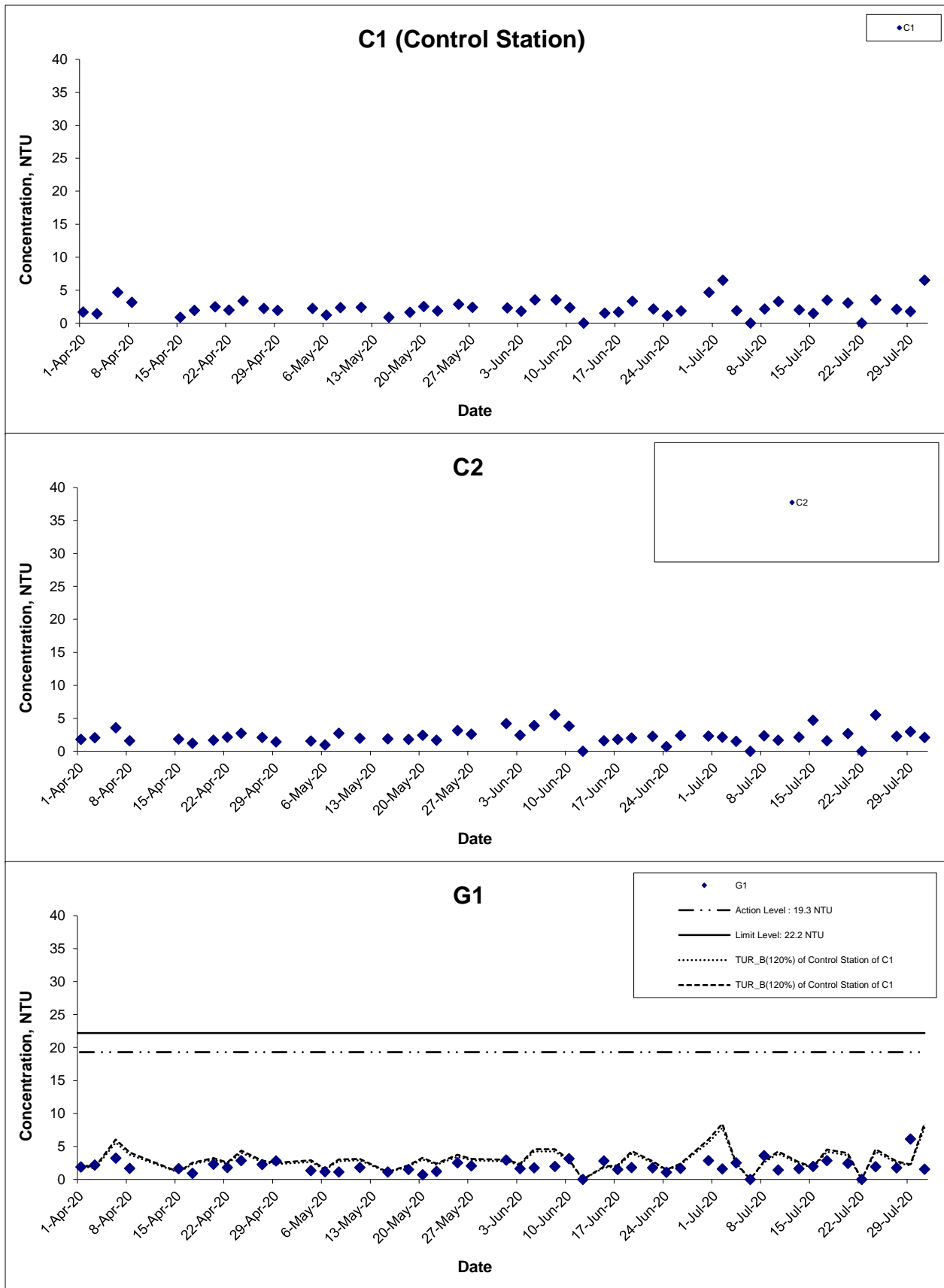
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Turbidity (Bottom) at Mid-Ebb Tide



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Turbidity (Bottom) at Mid-Flood Tide



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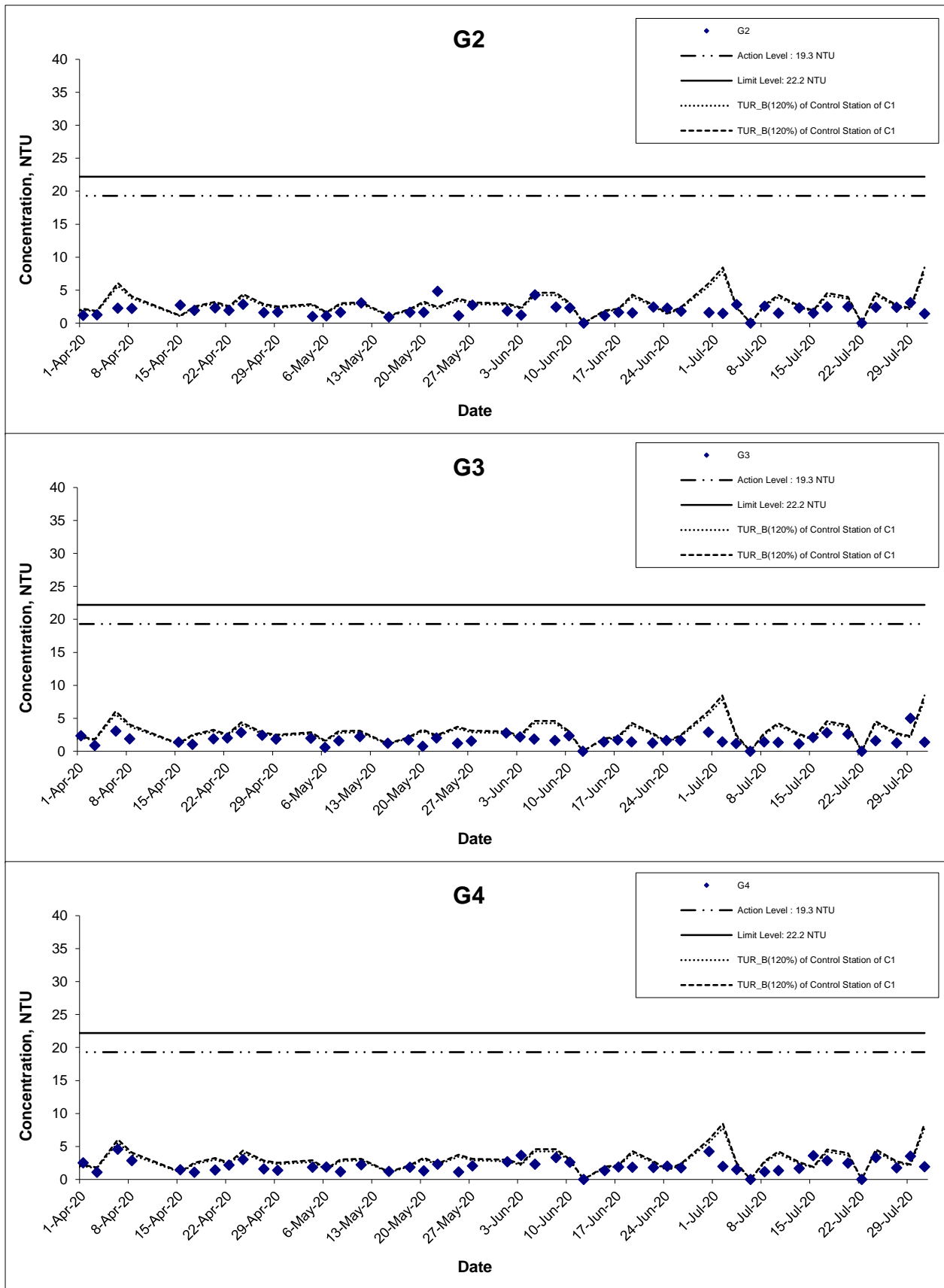
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Turbidity (Bottom) at Mid-Flood Tide



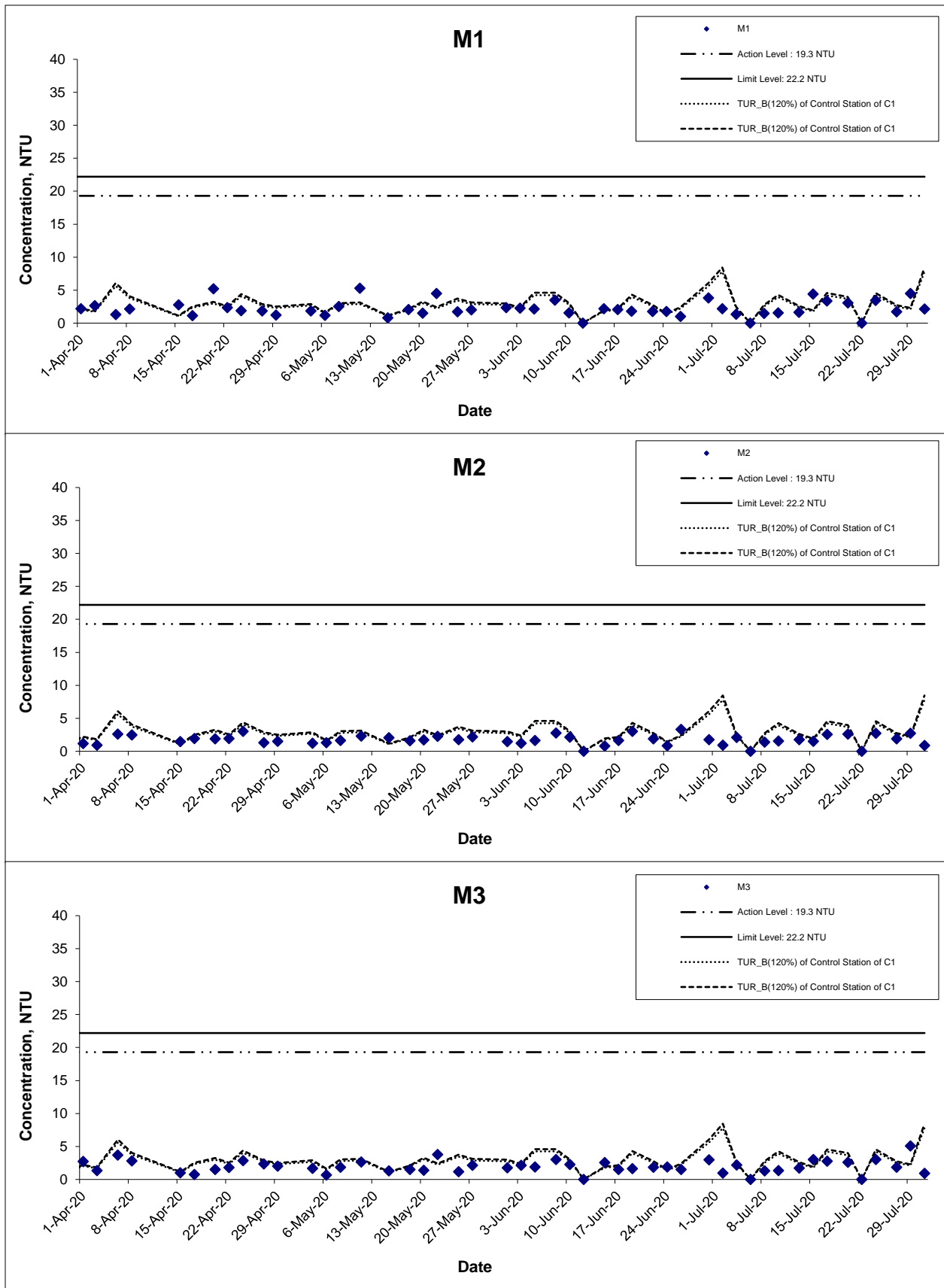
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Turbidity (Bottom) at Mid-Flood Tide



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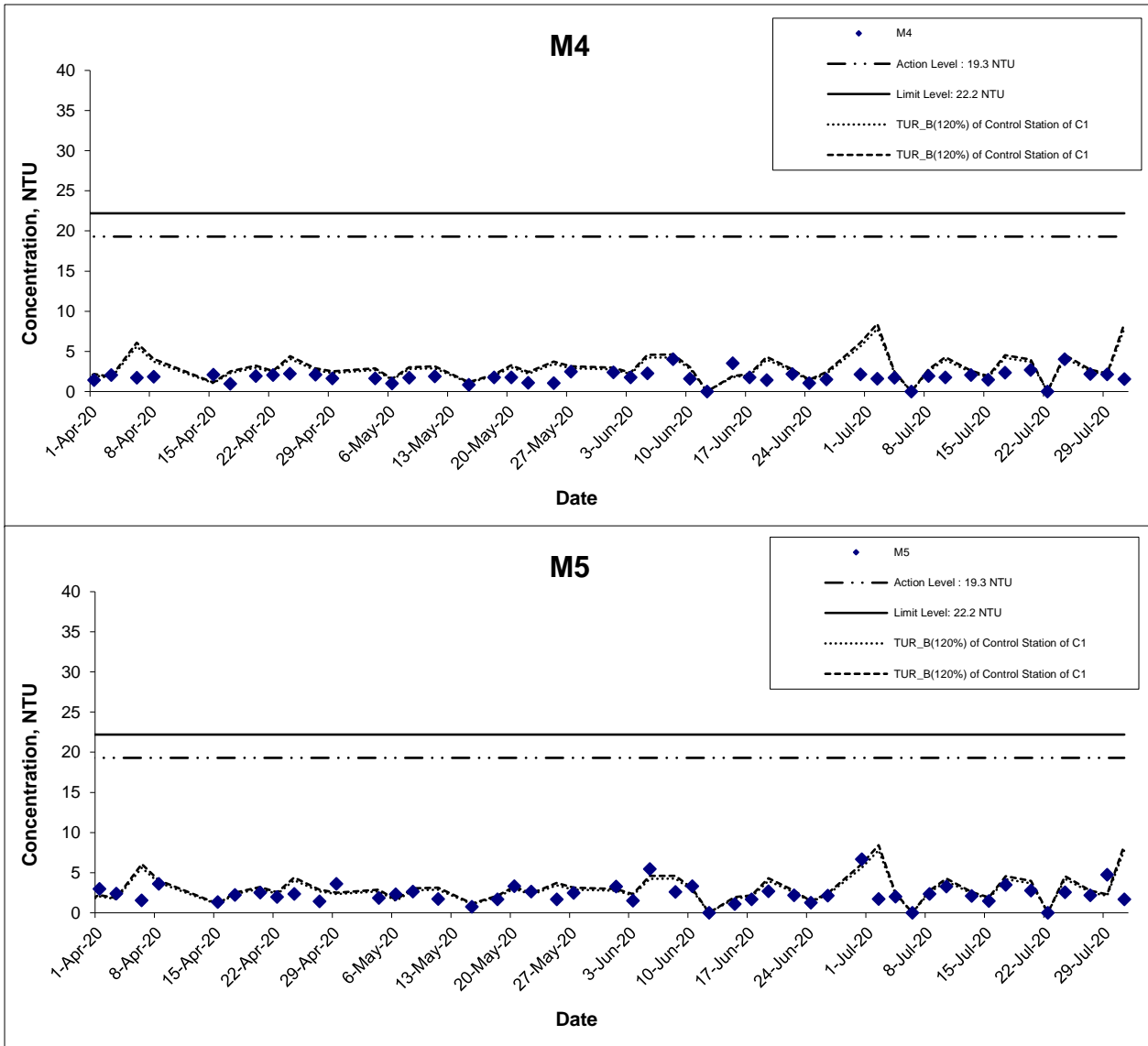
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Turbidity (Bottom) at Mid-Flood Tide



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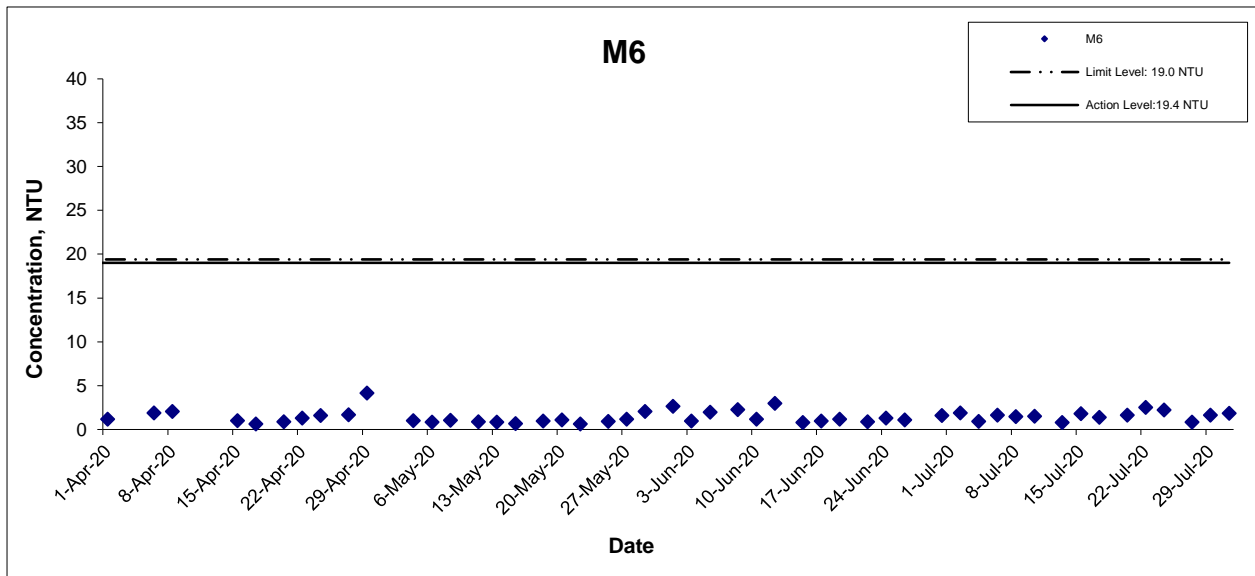
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Turbidity (Intake Level of WSD Salt Water Intake) at Mid-Ebb Tide



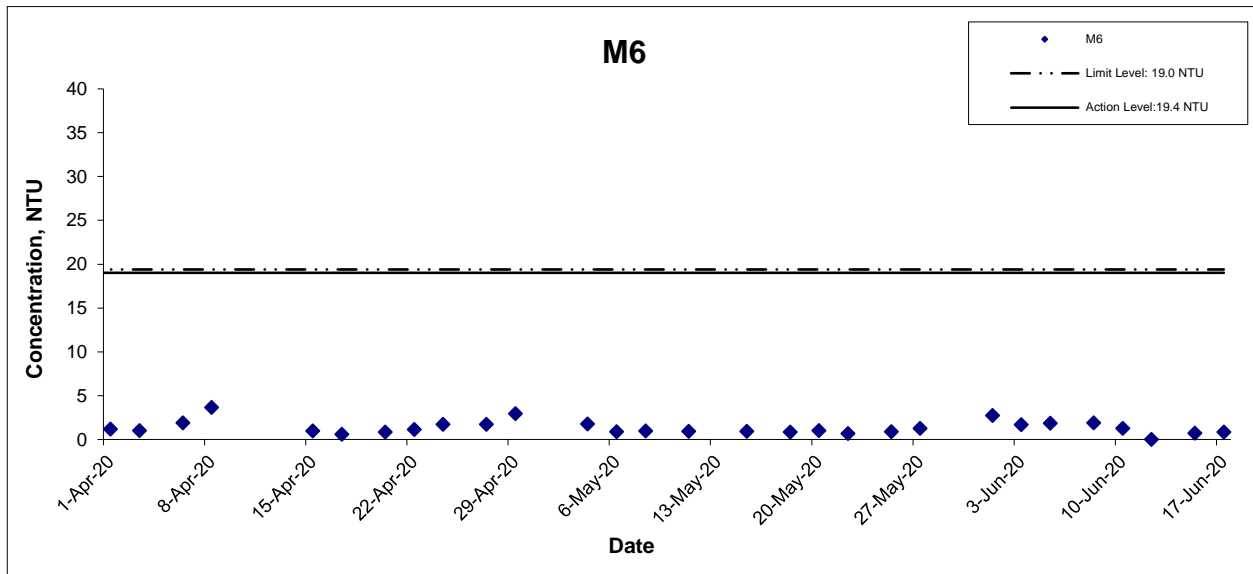
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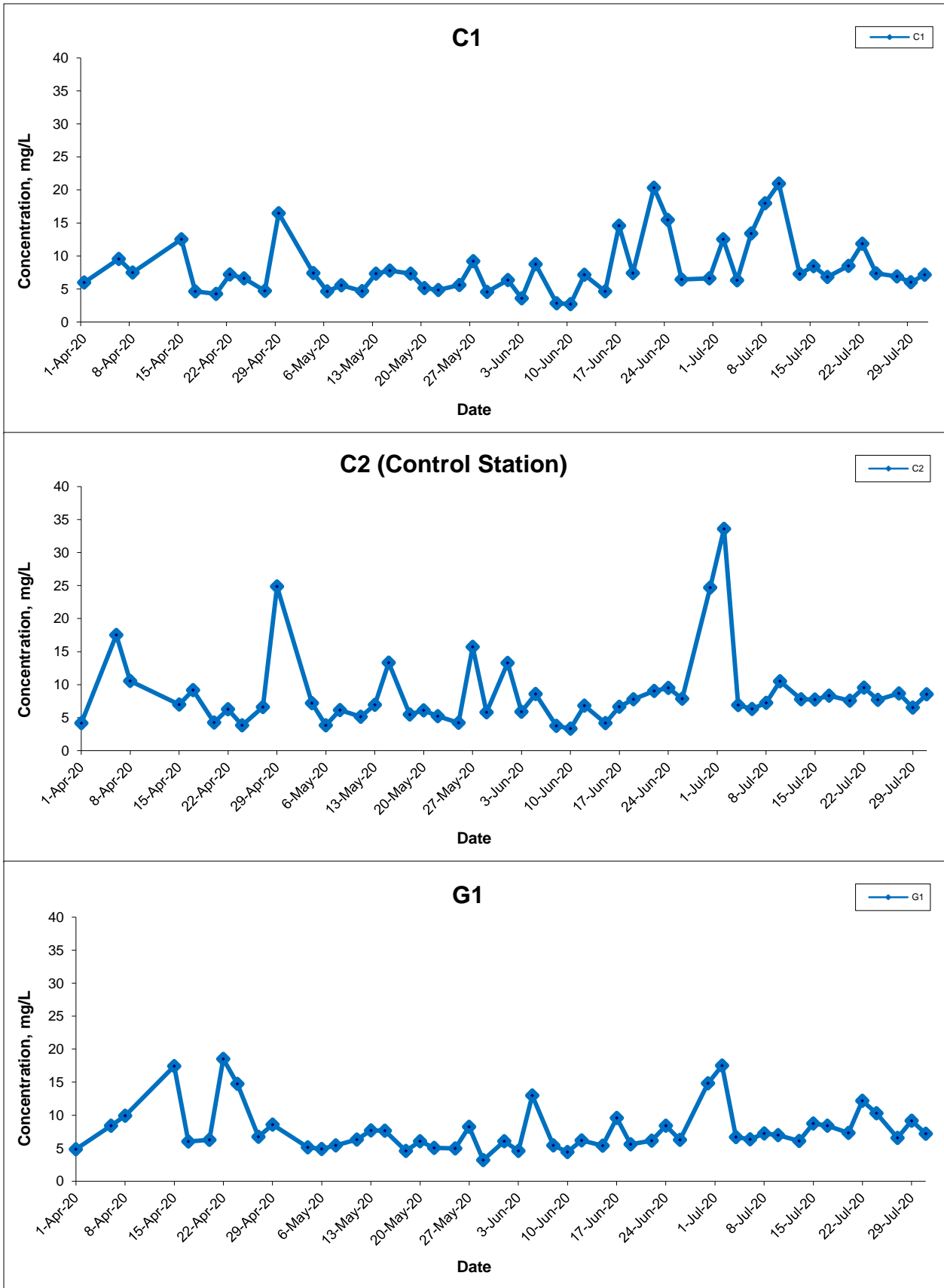


Turbidity (Intake Level of WSD Salt Water Intake) at Mid-Flood Tide



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Suspended Solids (Depth-averaged) at Mid-Ebb Tide



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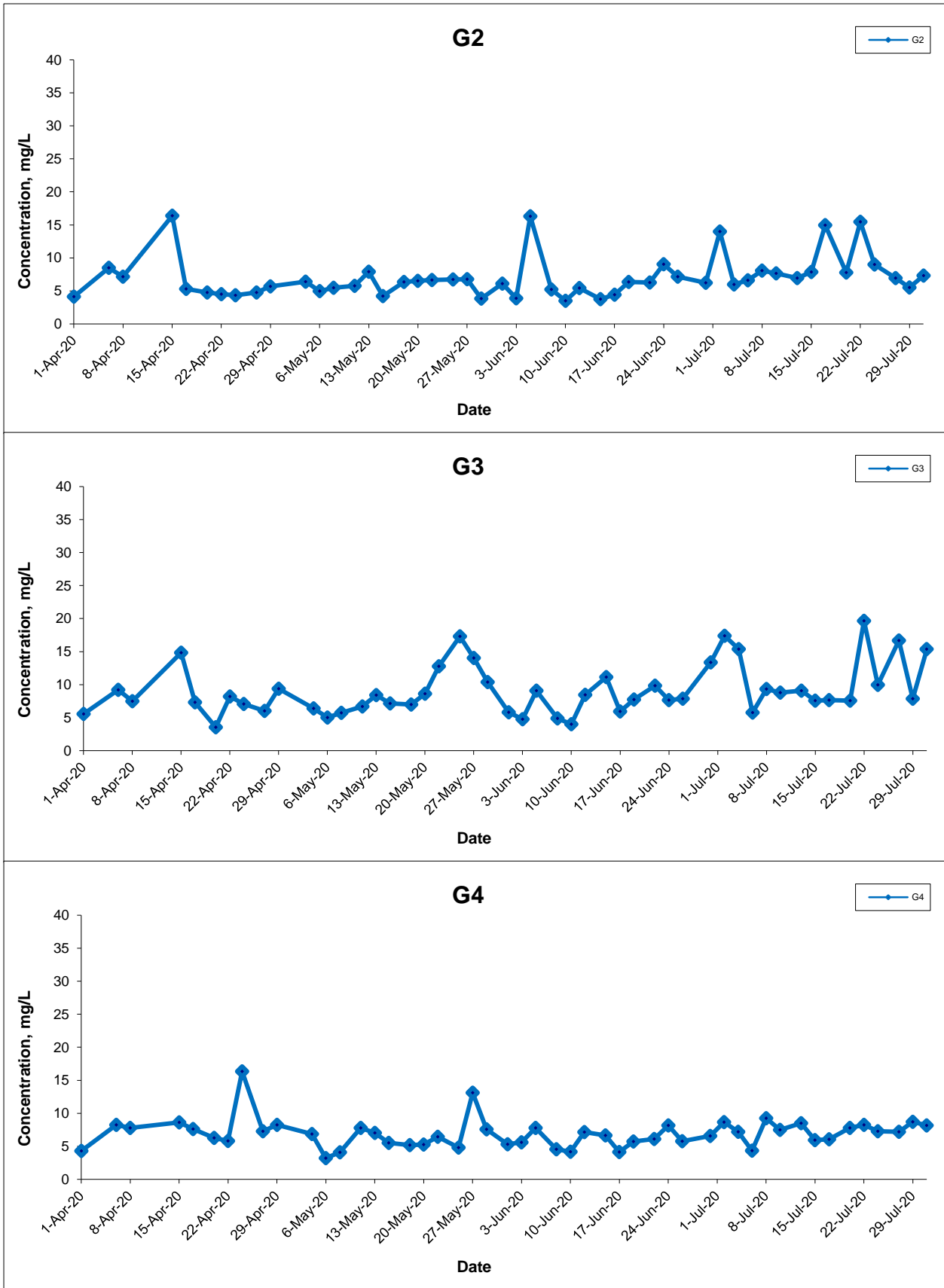
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Suspended Solids (Depth-averaged) at Mid-Ebb Tide



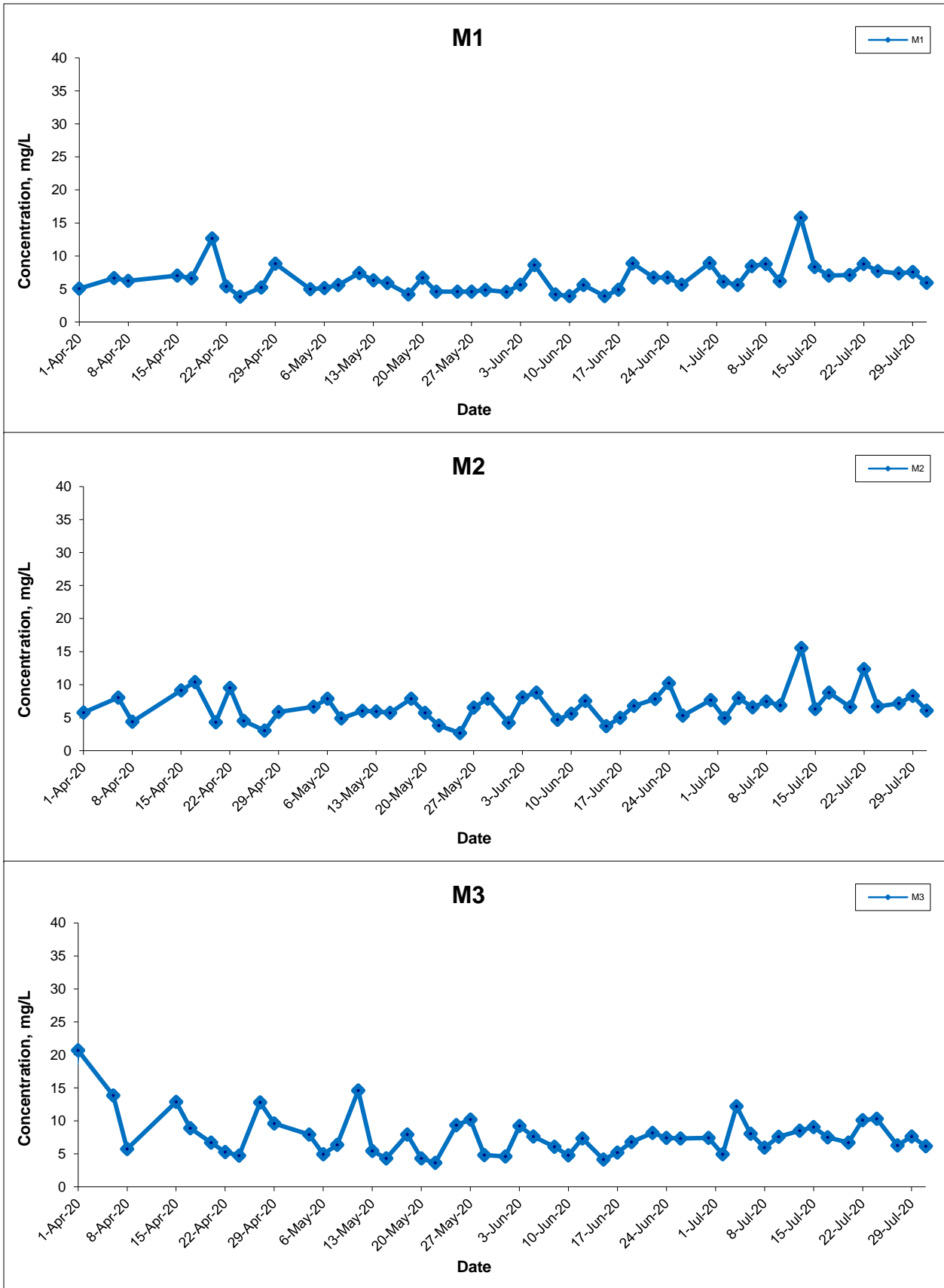
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Suspended Solids (Depth-averaged) at Mid-Ebb Tide



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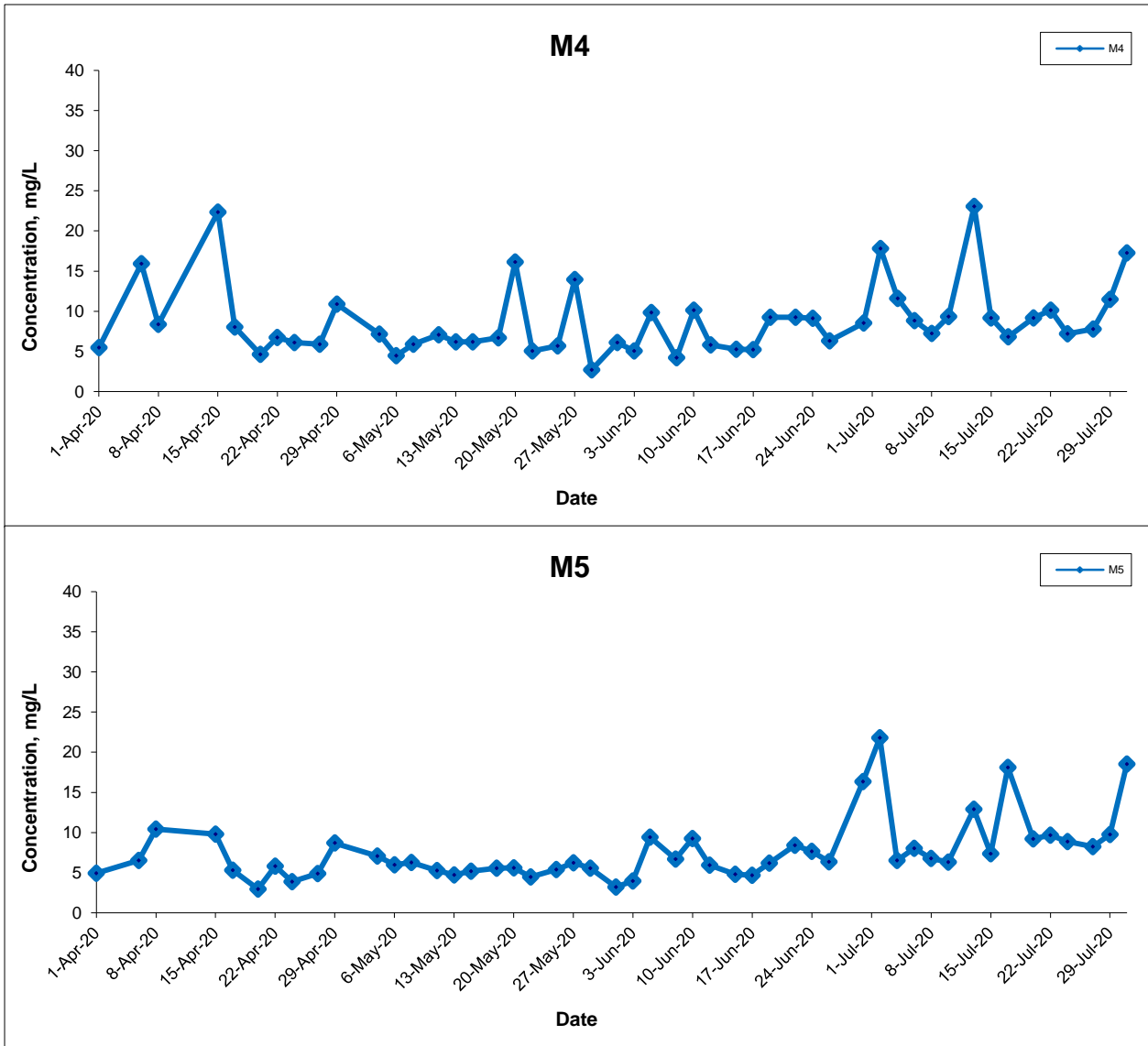
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Suspended Solids (Depth-averaged) at Mid-Ebb Tide



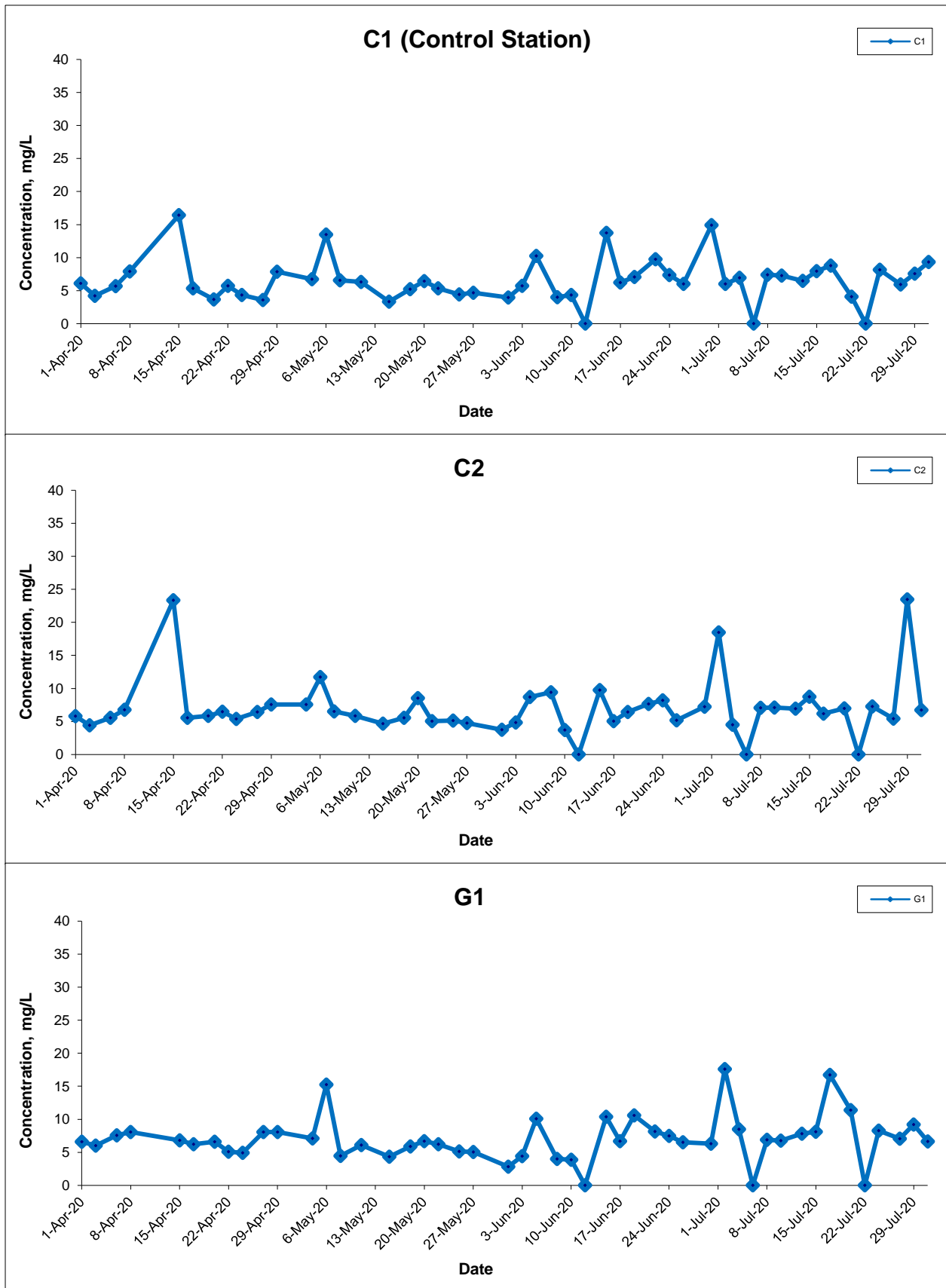
Title Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction

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Suspended Solids (Depth-averaged) at Mid-Flood Tide



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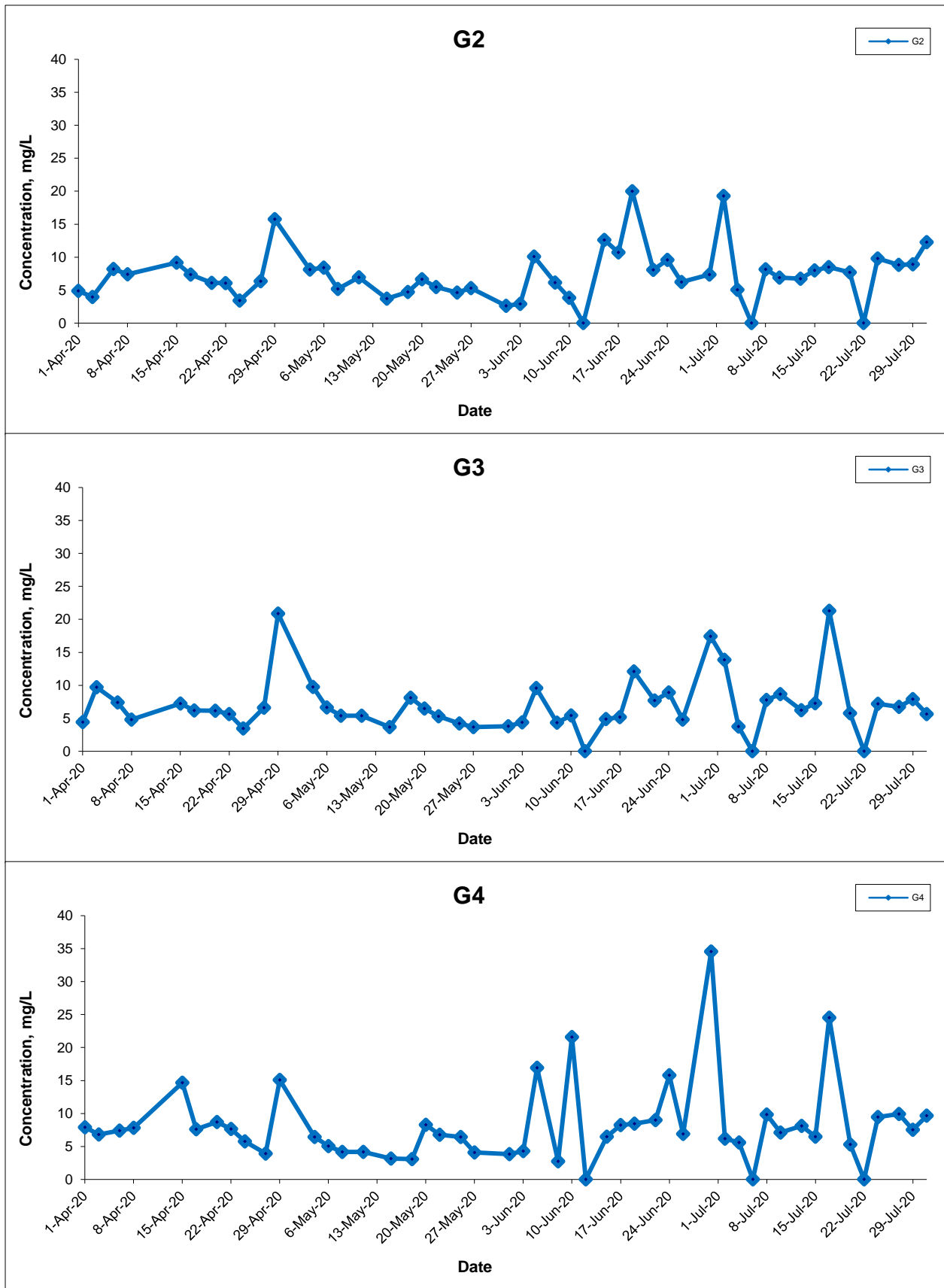
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Suspended Solids (Depth-averaged) at Mid-Flood Tide



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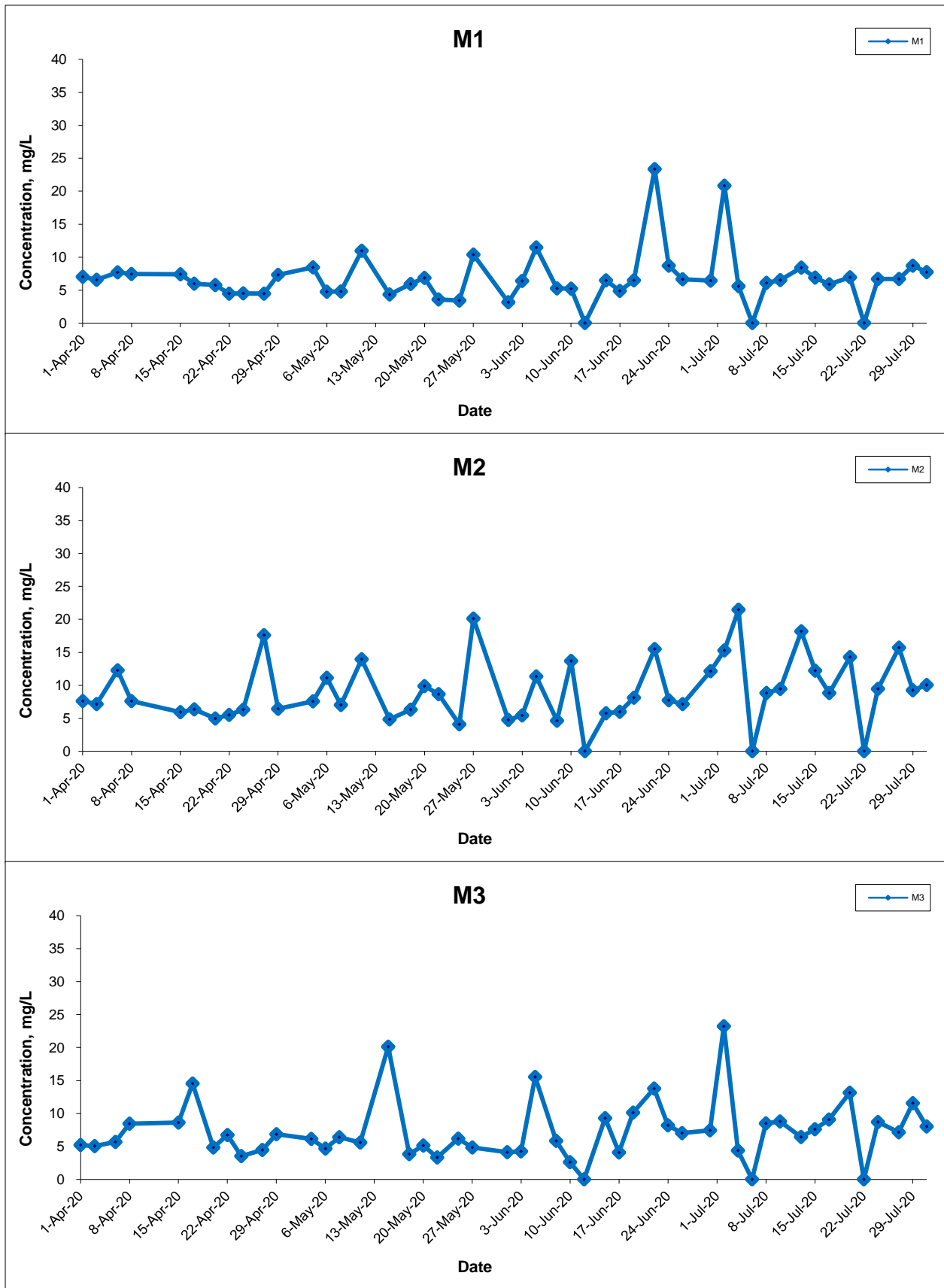
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Suspended Solids (Depth-averaged) at Mid-Flood Tide



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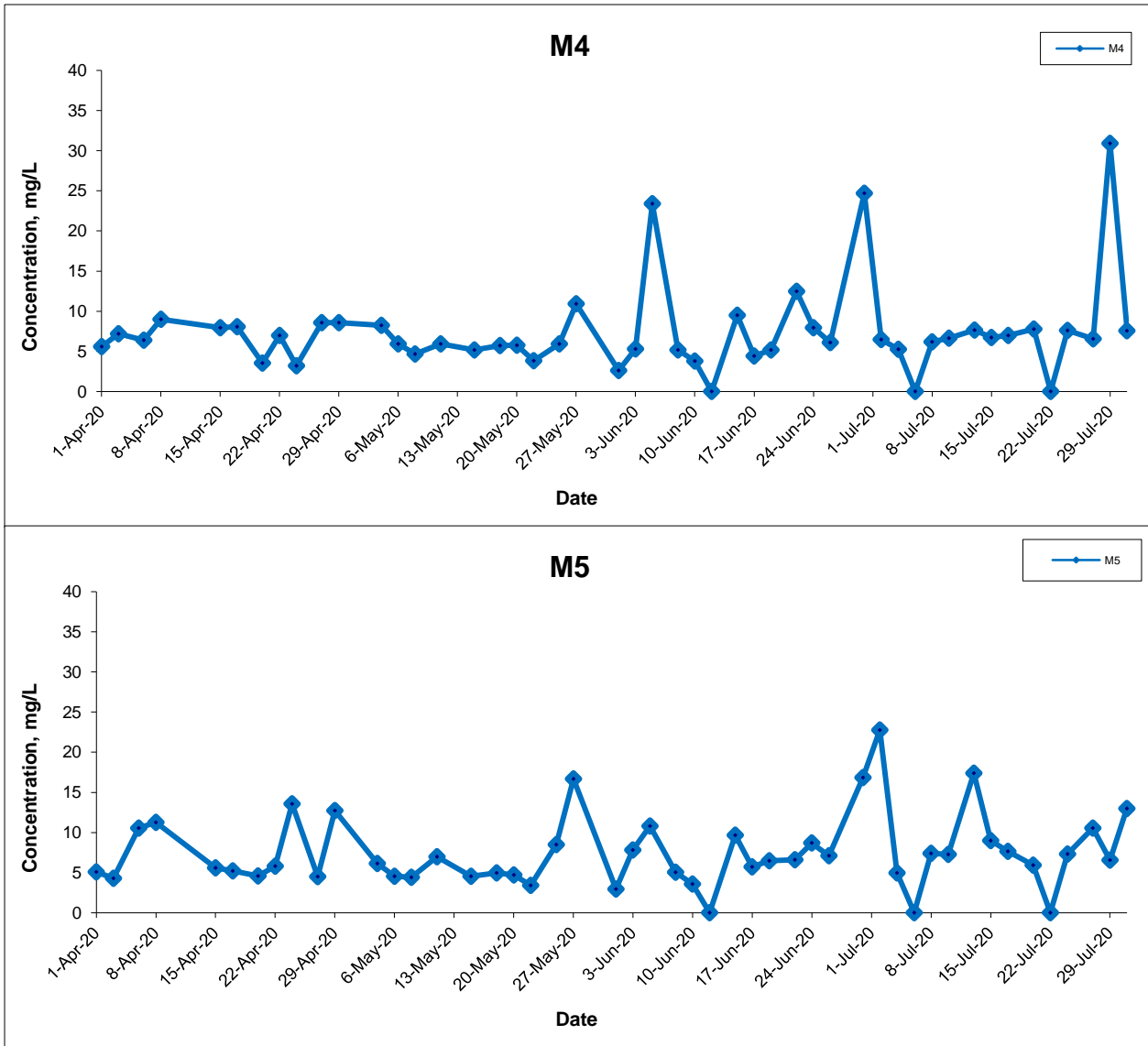
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Suspended Solids (Depth-averaged) at Mid-Flood Tide



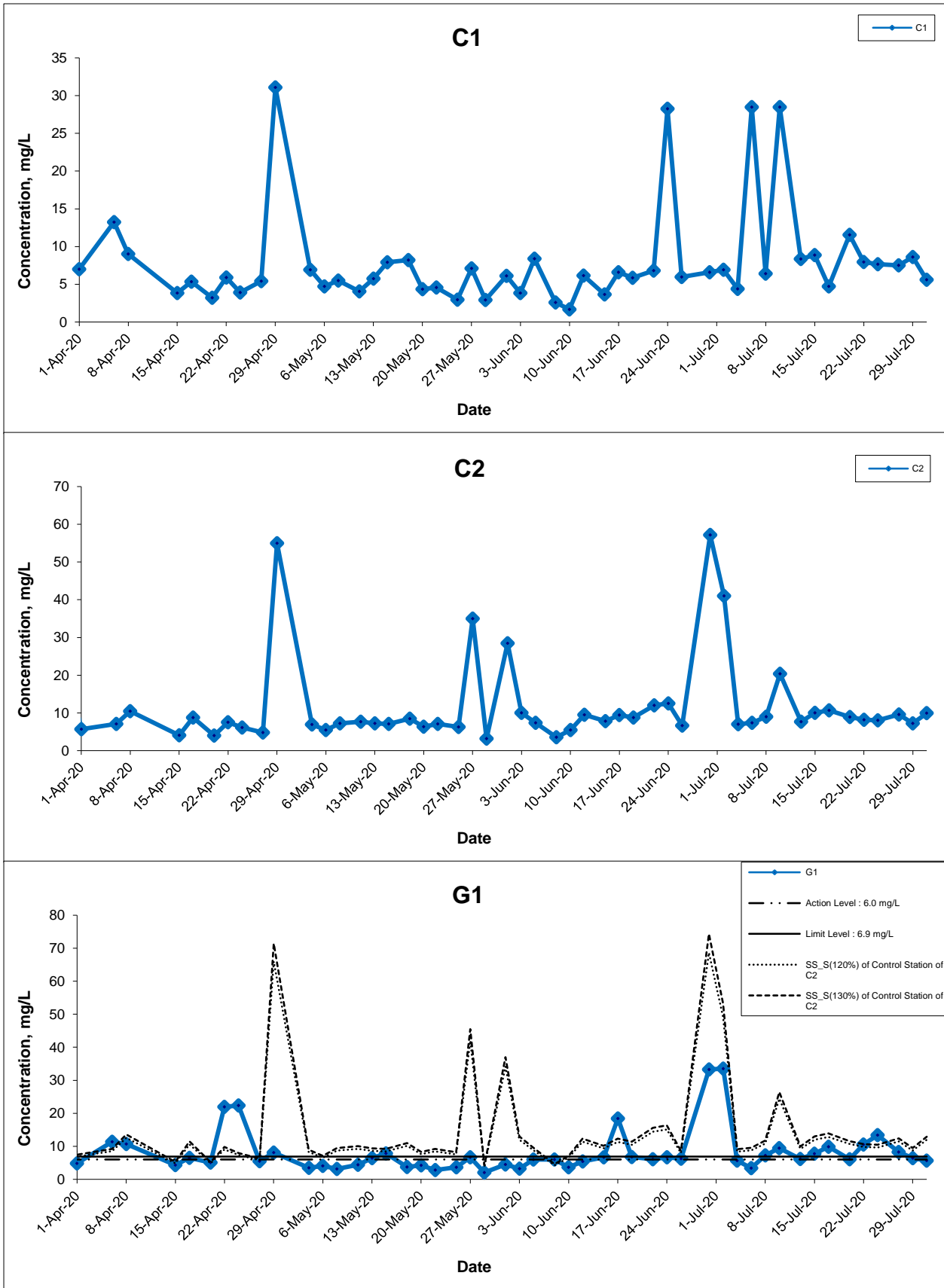
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Suspended Solids (Surface) at Mid-Ebb Tide



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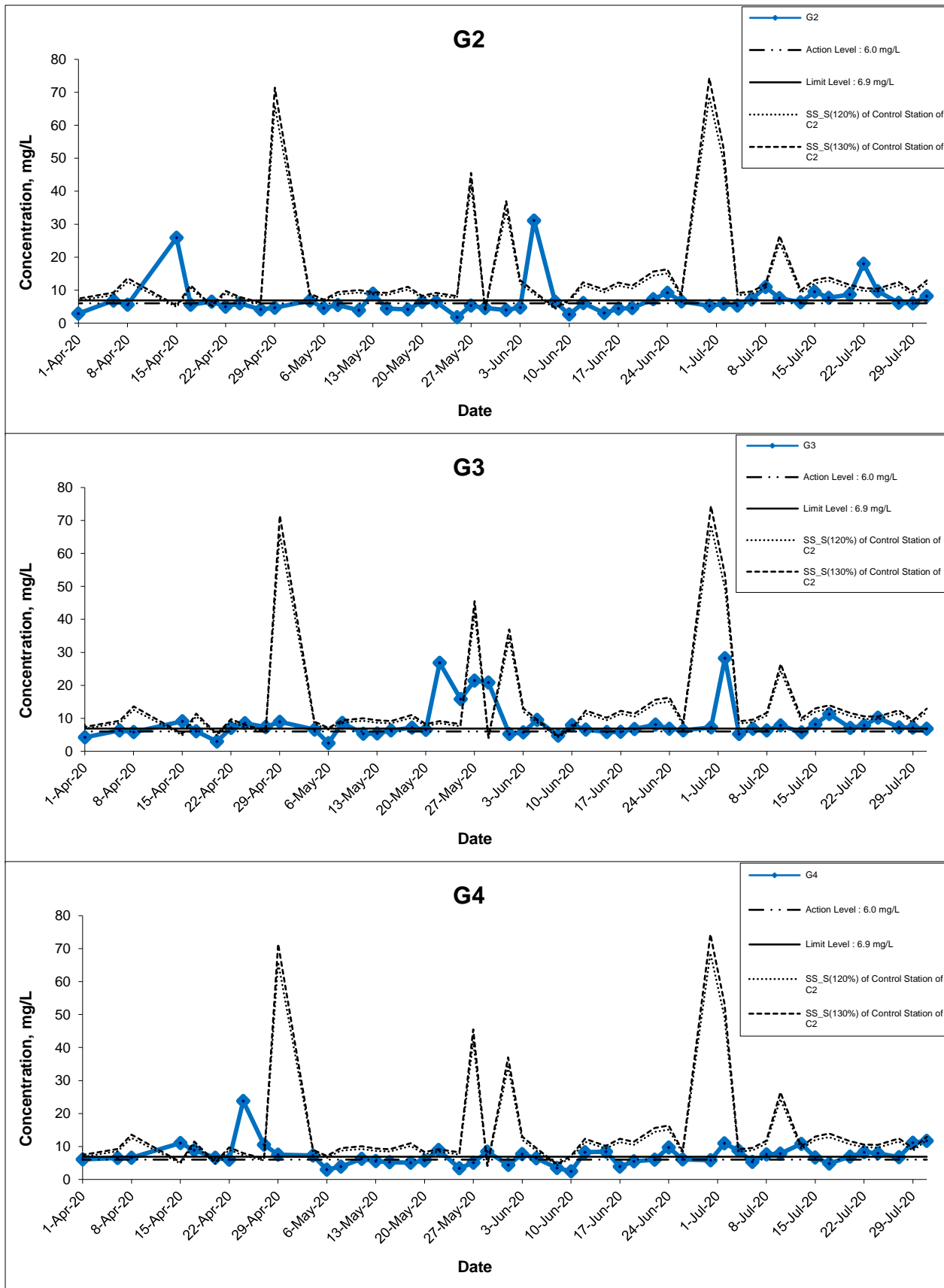
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Suspended Solids (Surface) at Mid-Ebb Tide



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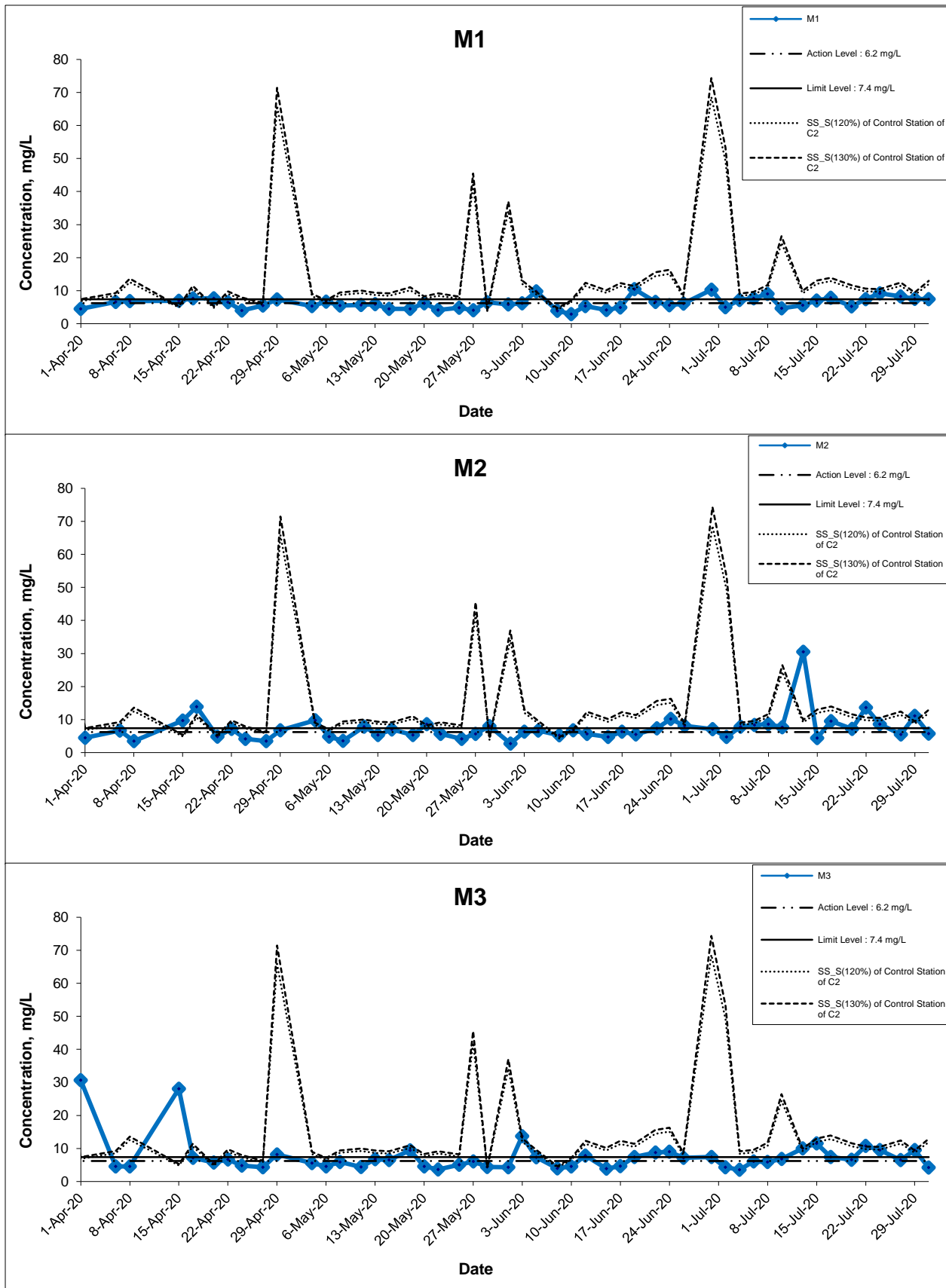
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Suspended Solids (Surface) at Mid-Ebb Tide



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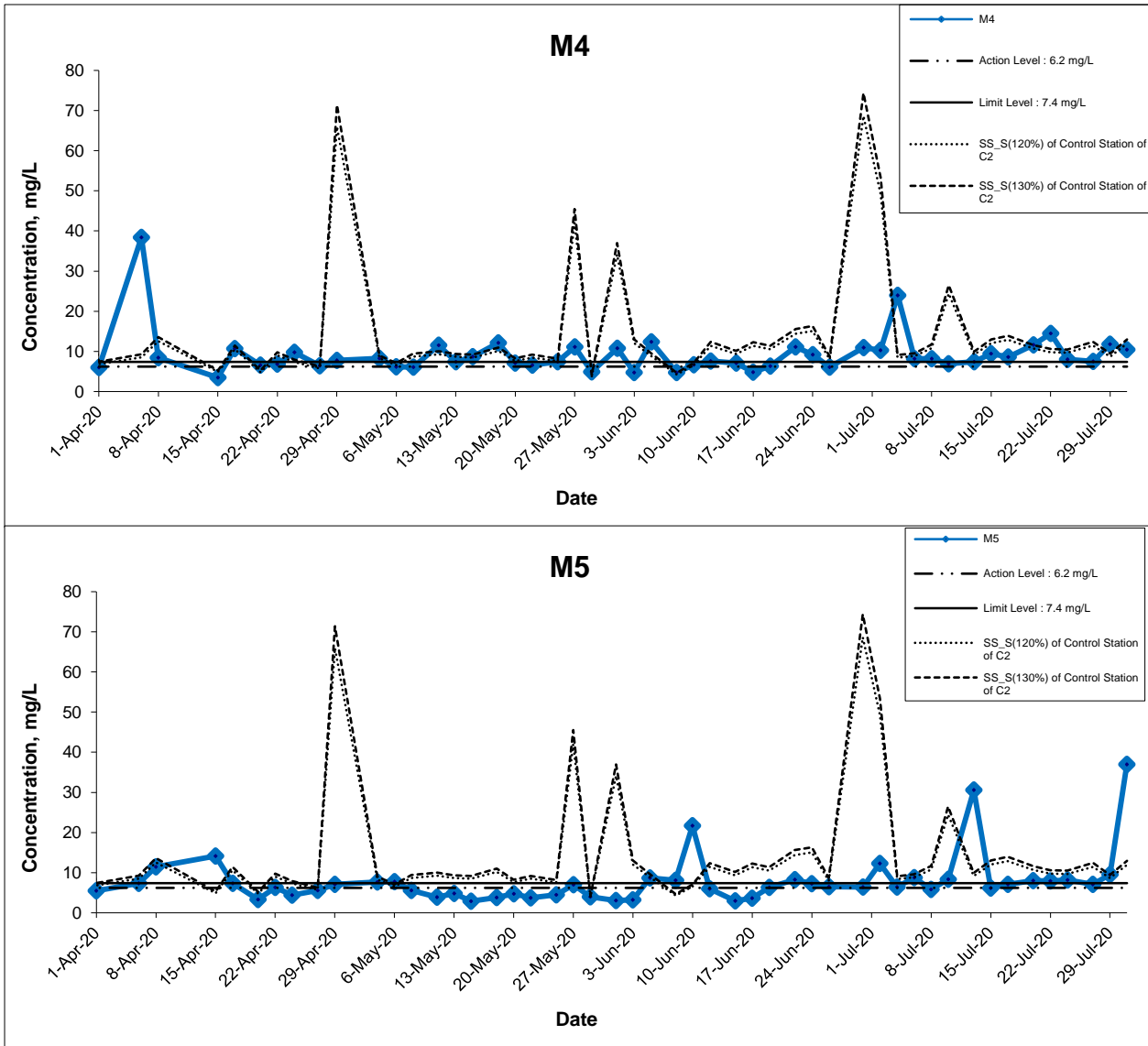
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Suspended Solids (Surface) at Mid-Ebb Tide



Title

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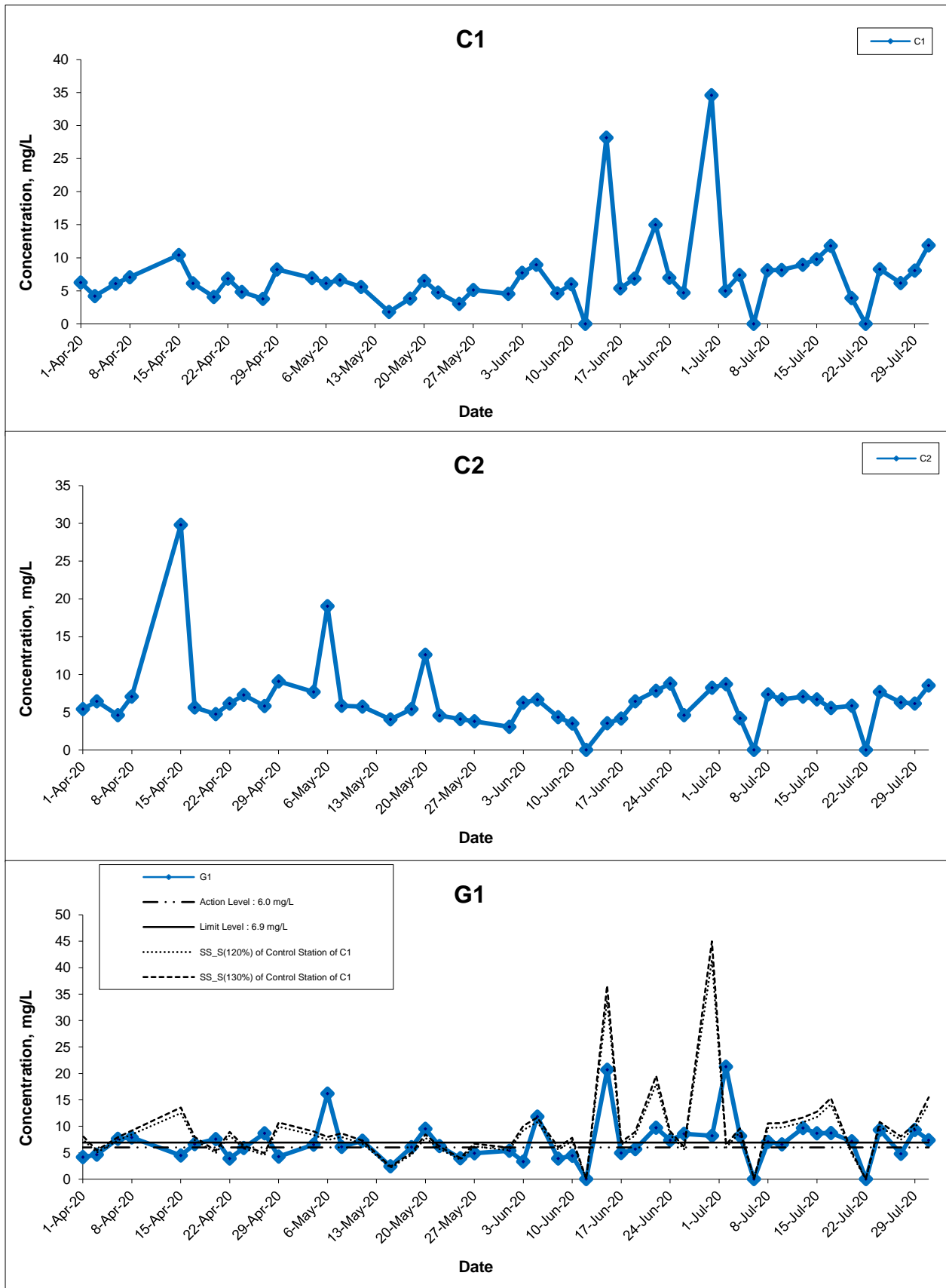
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Suspended Solids (Surface) at Mid-Flood Tide



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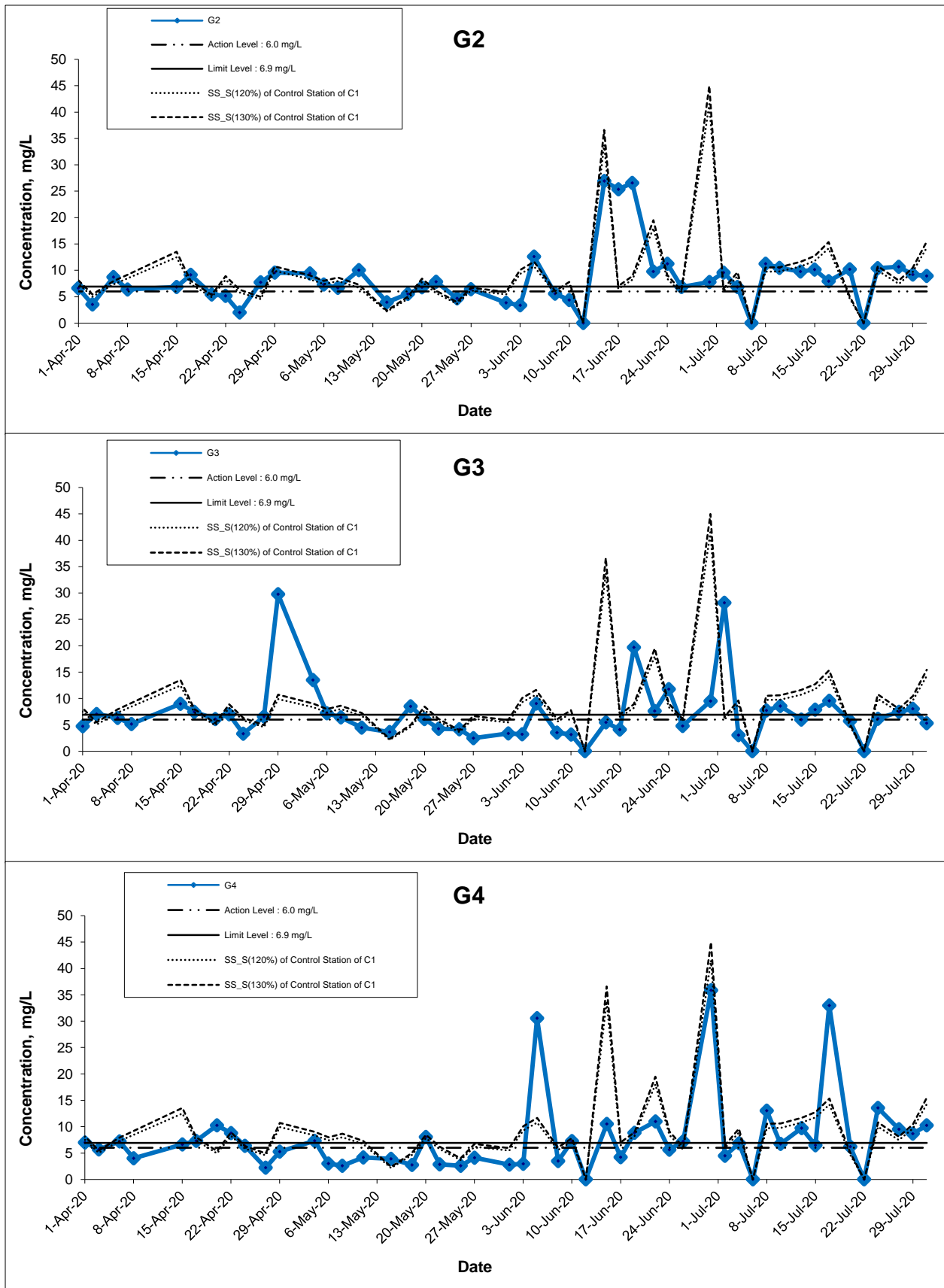
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Suspended Solids (Surface) at Mid-Flood Tide



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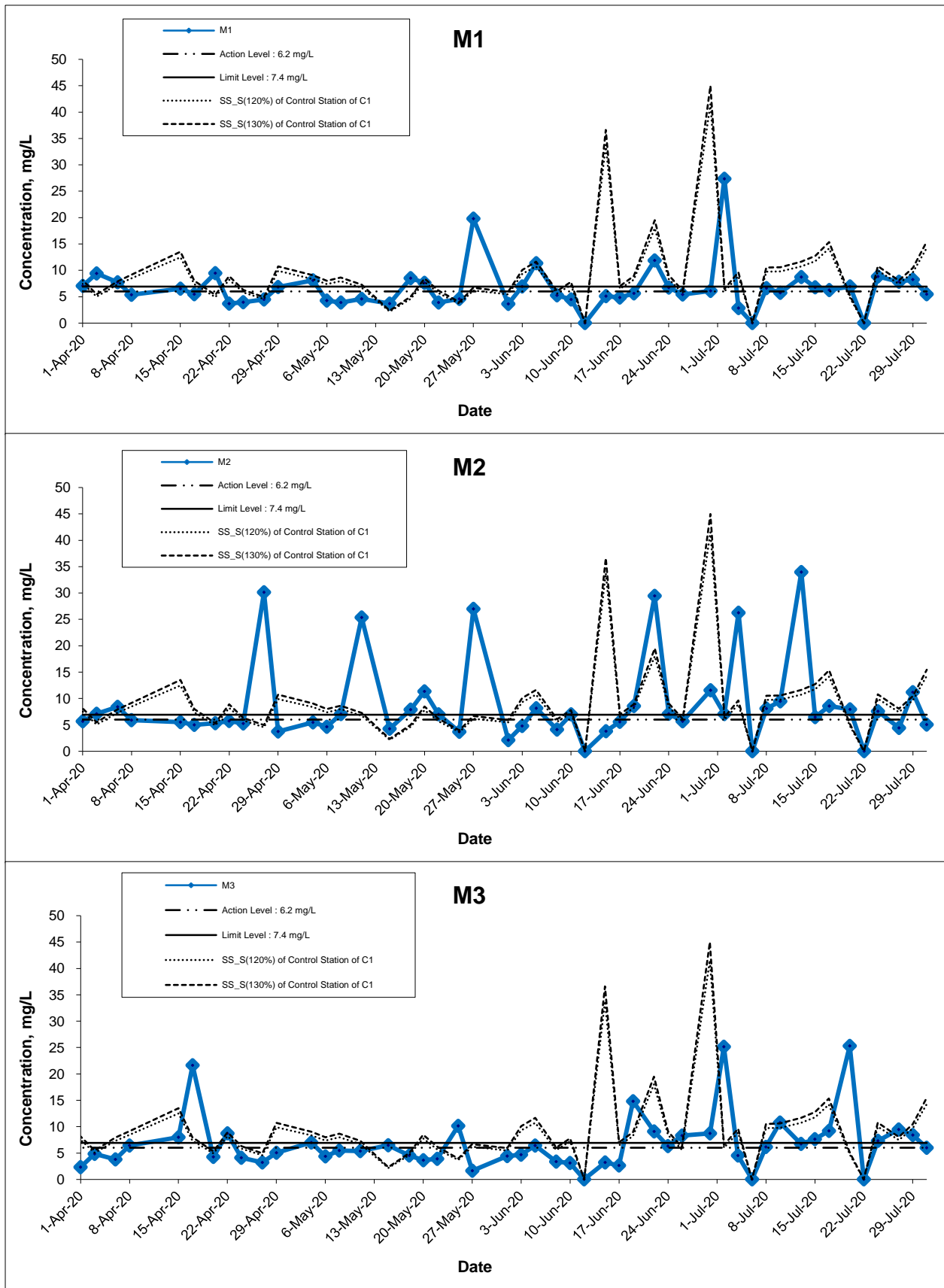
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Suspended Solids (Surface) at Mid-Flood Tide



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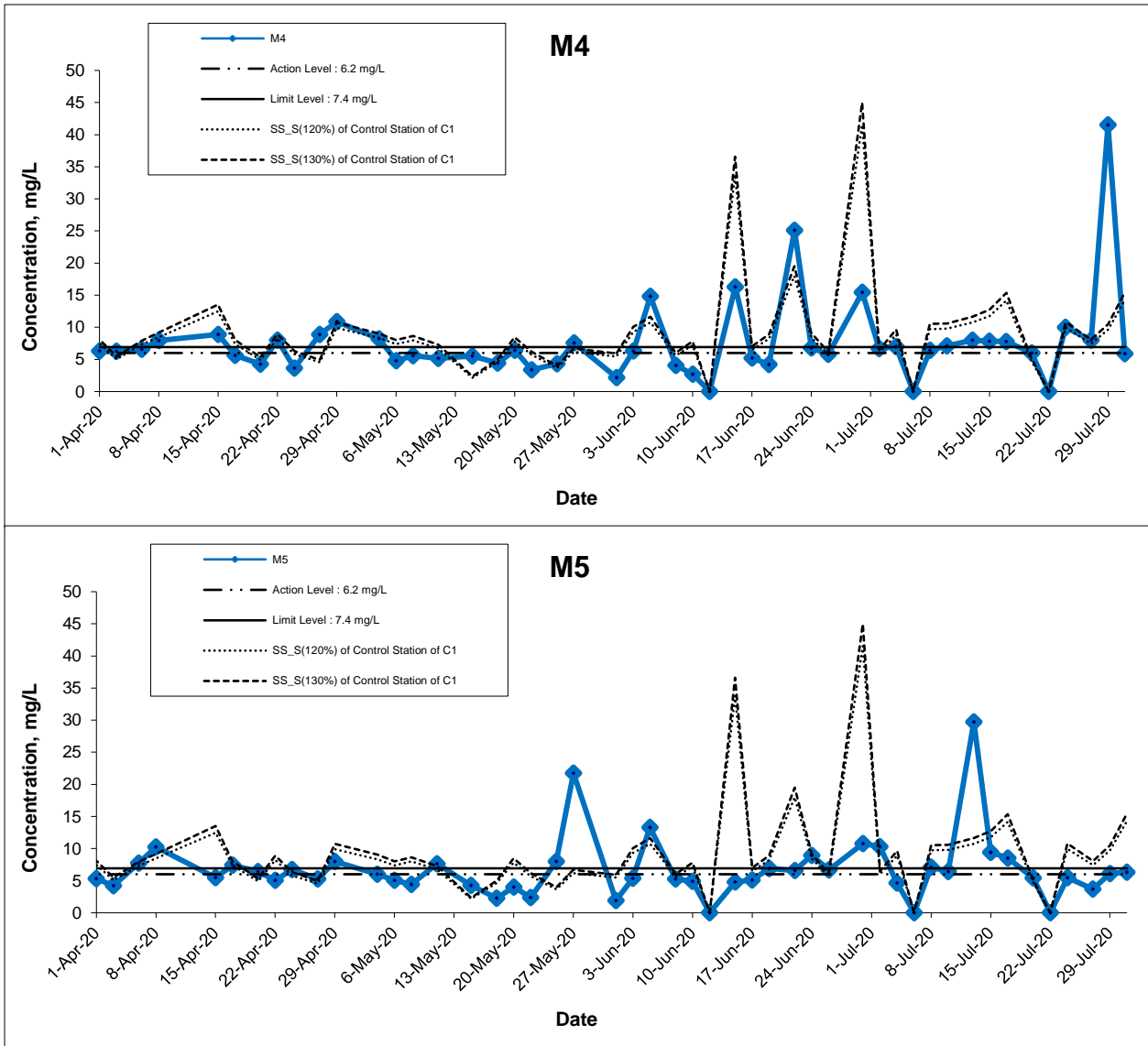
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Suspended Solids (Surface) at Mid-Flood Tide



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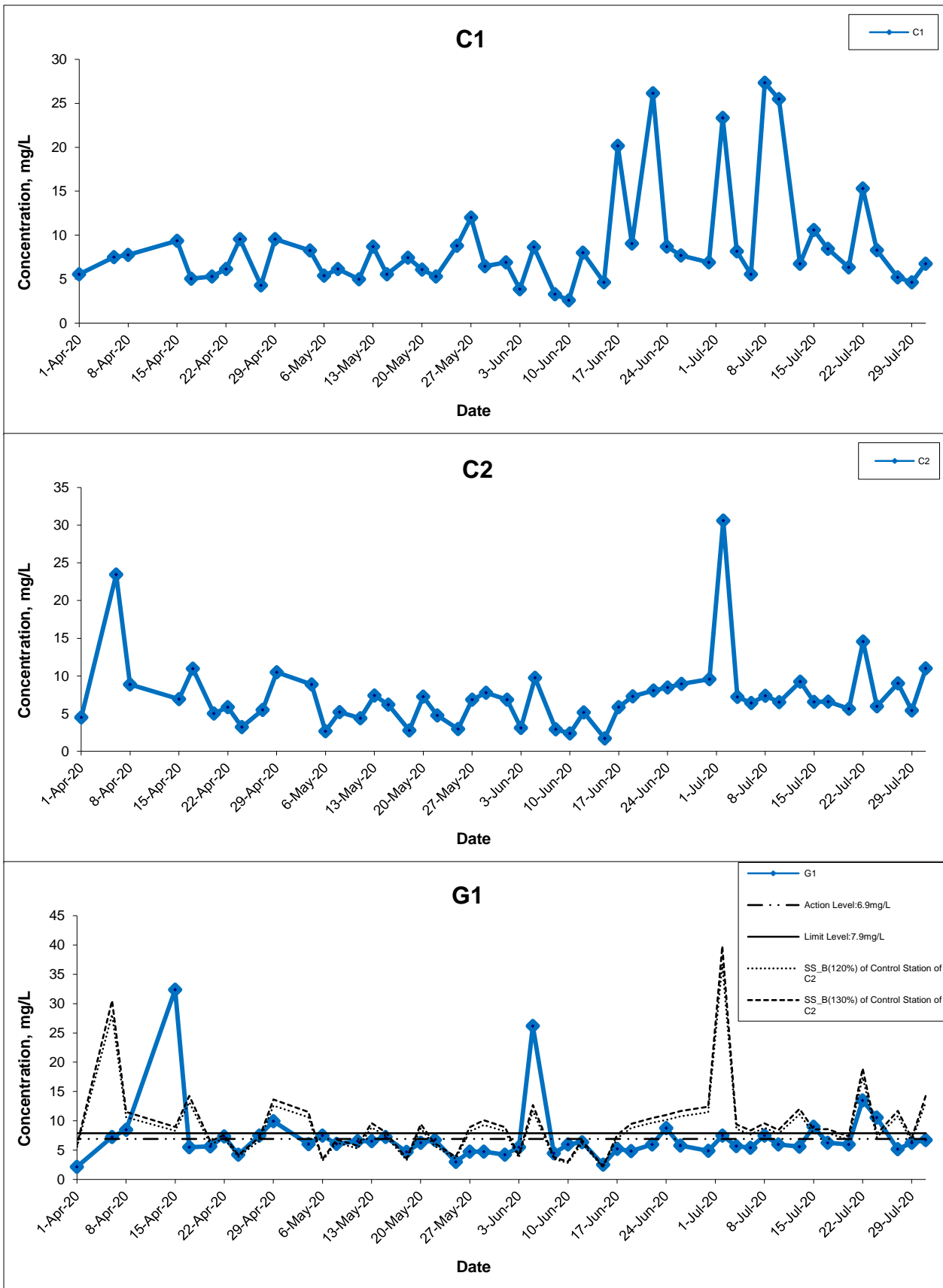
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Suspended Solids (Bottom) at Mid-Ebb Tide



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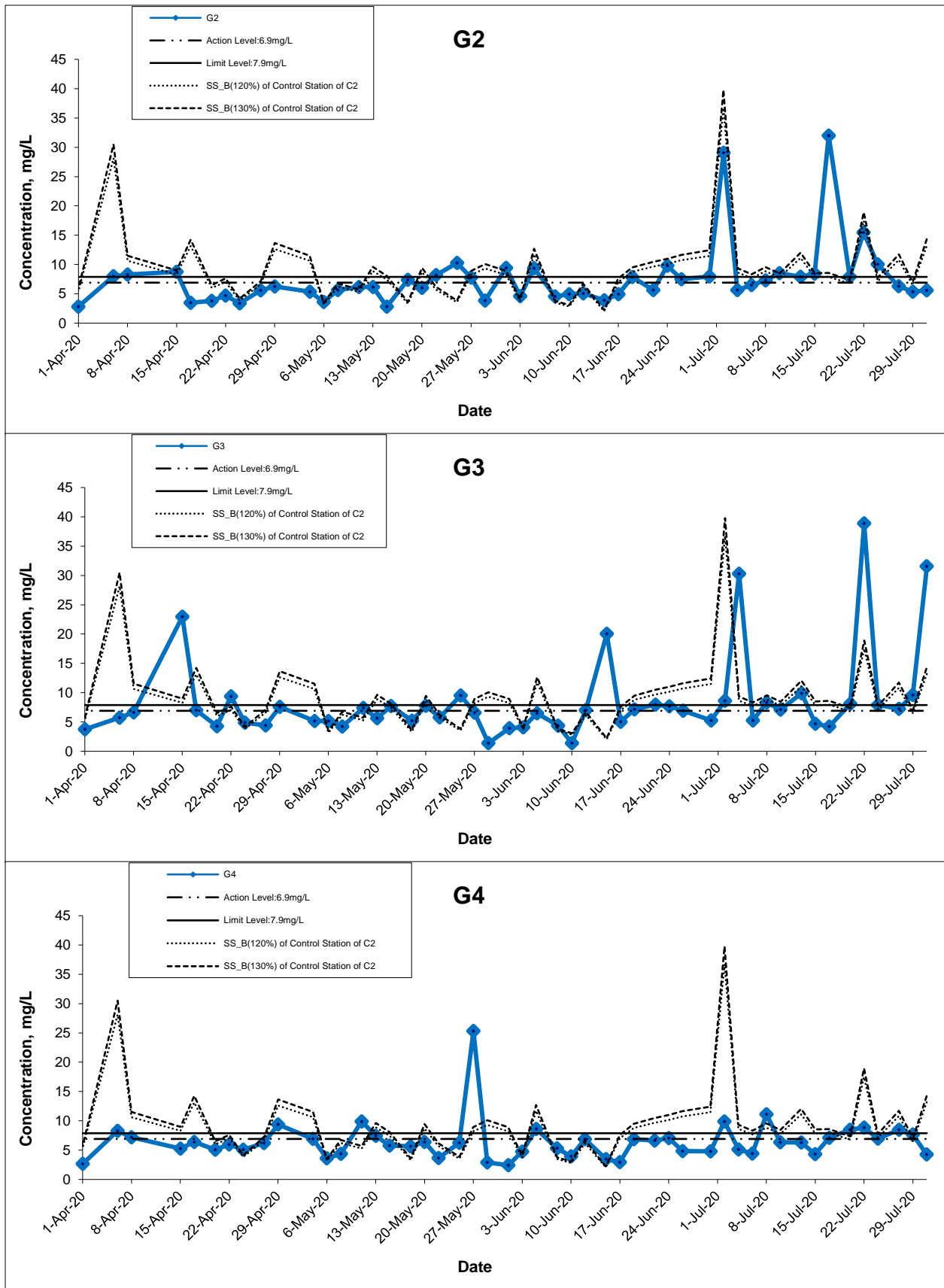
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Suspended Solids (Bottom) at Mid-Ebb Tide



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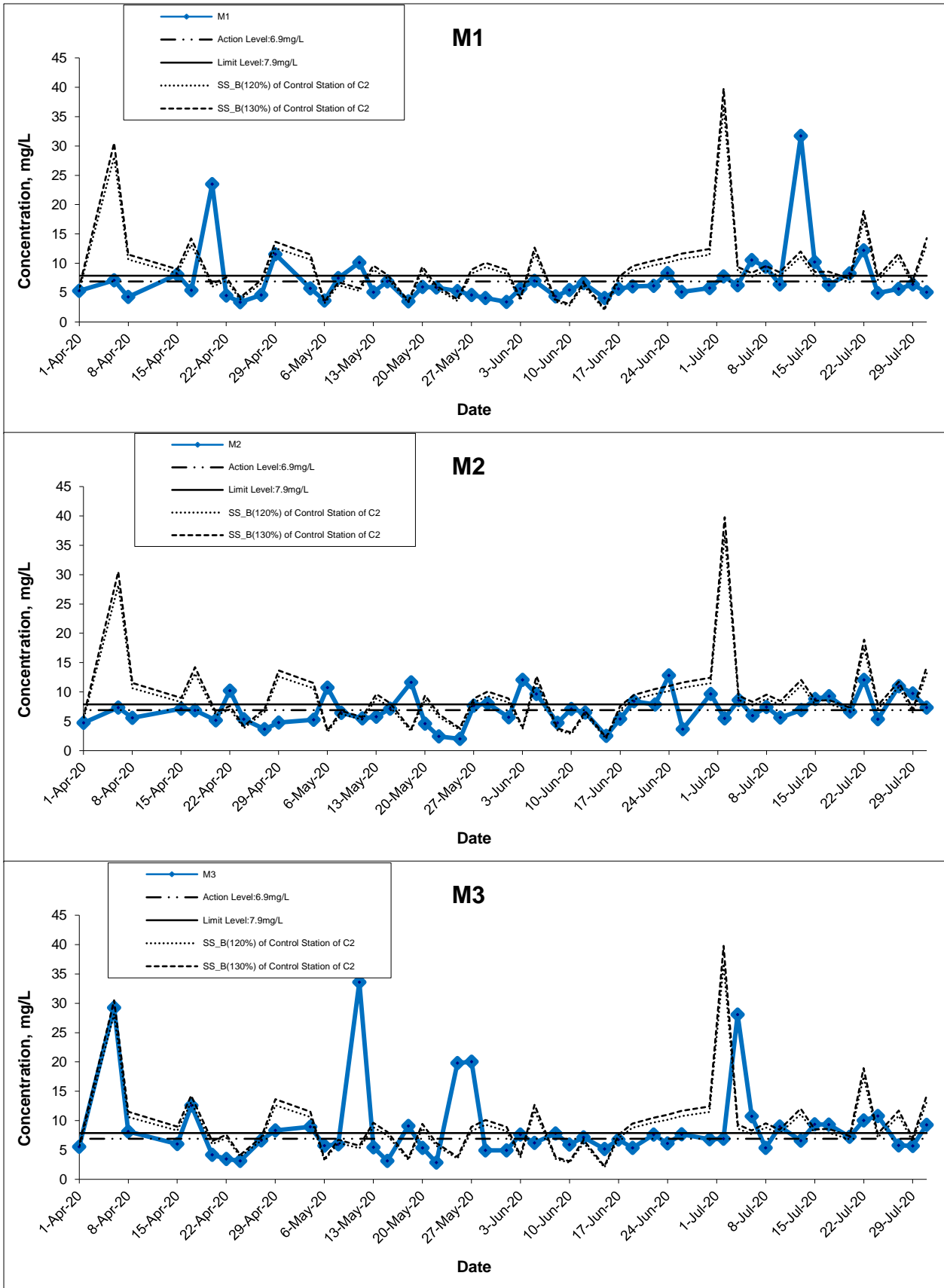
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Suspended Solids (Bottom) at Mid-Ebb Tide



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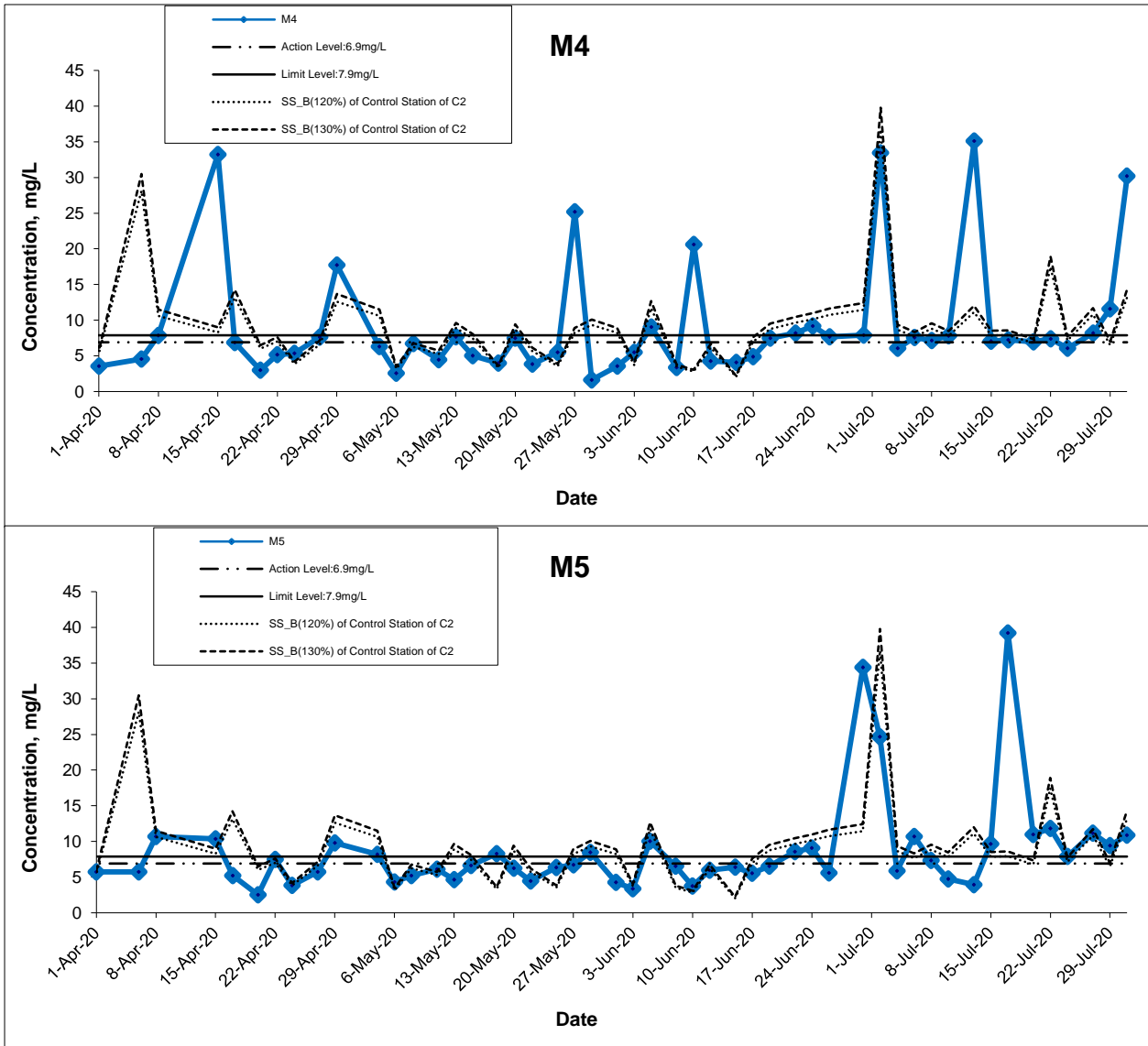
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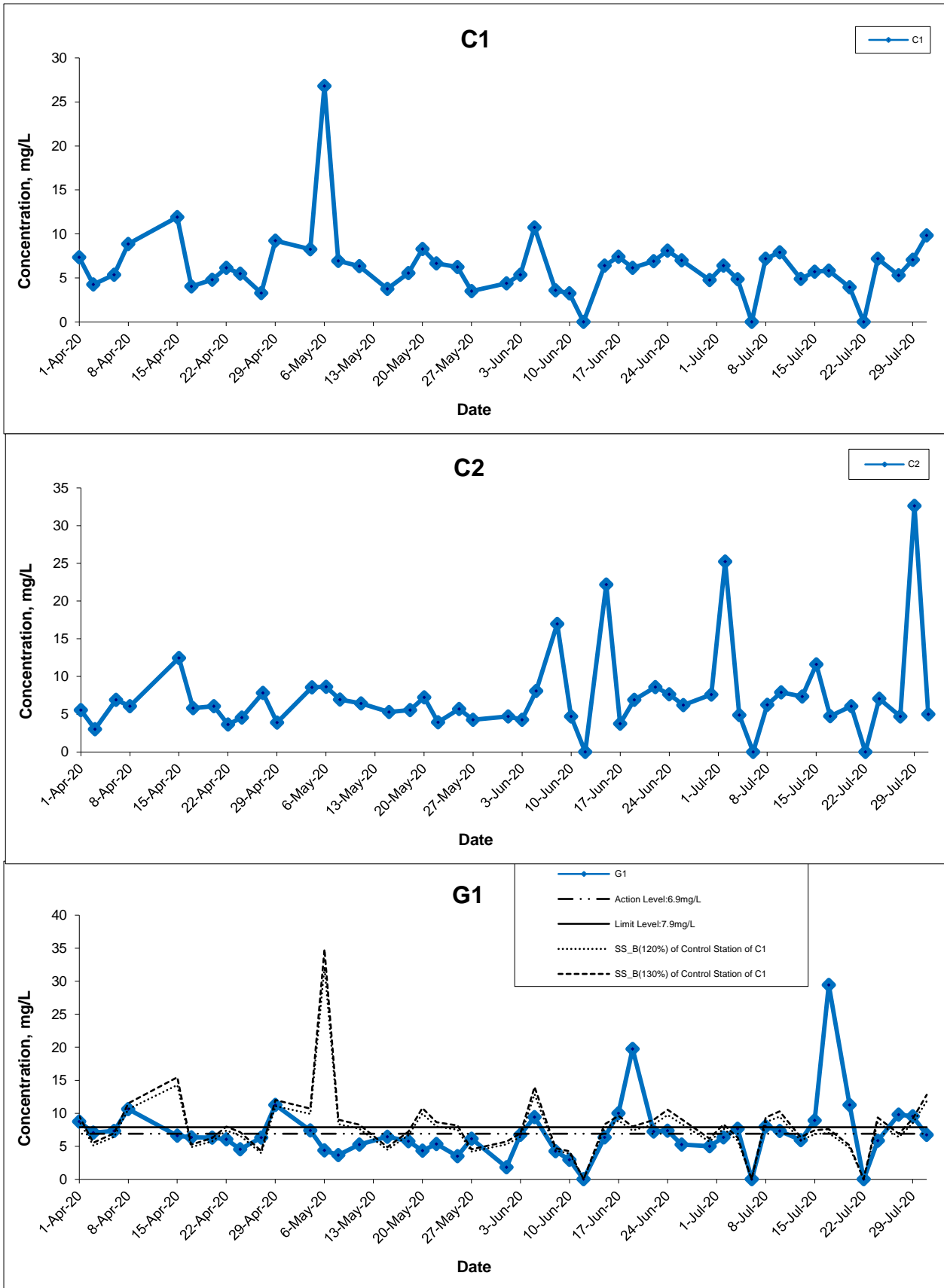
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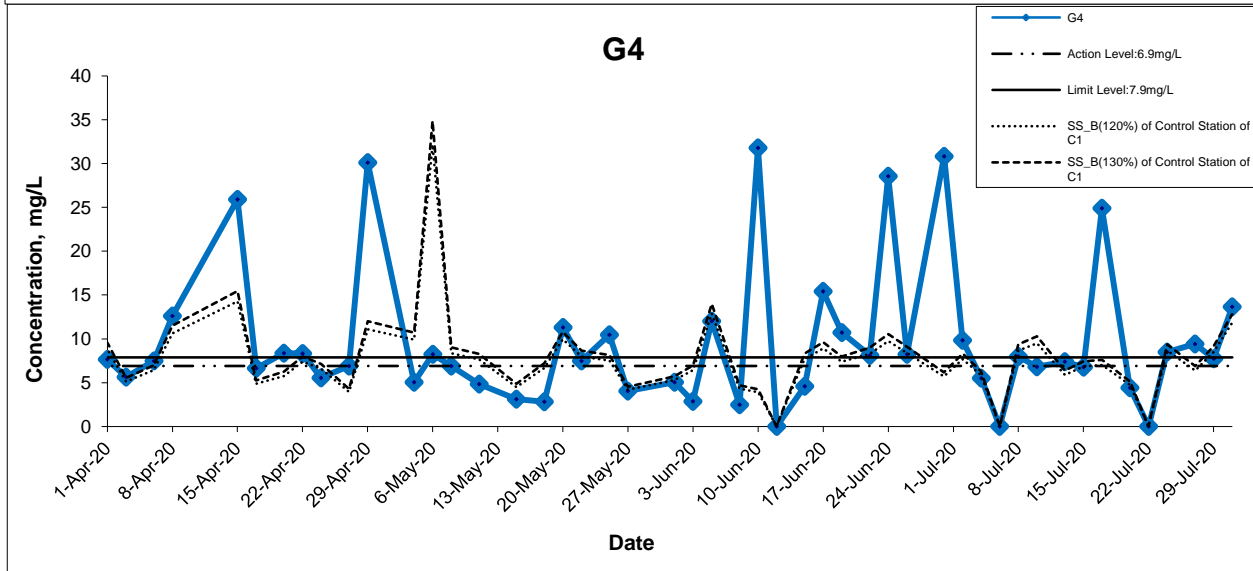
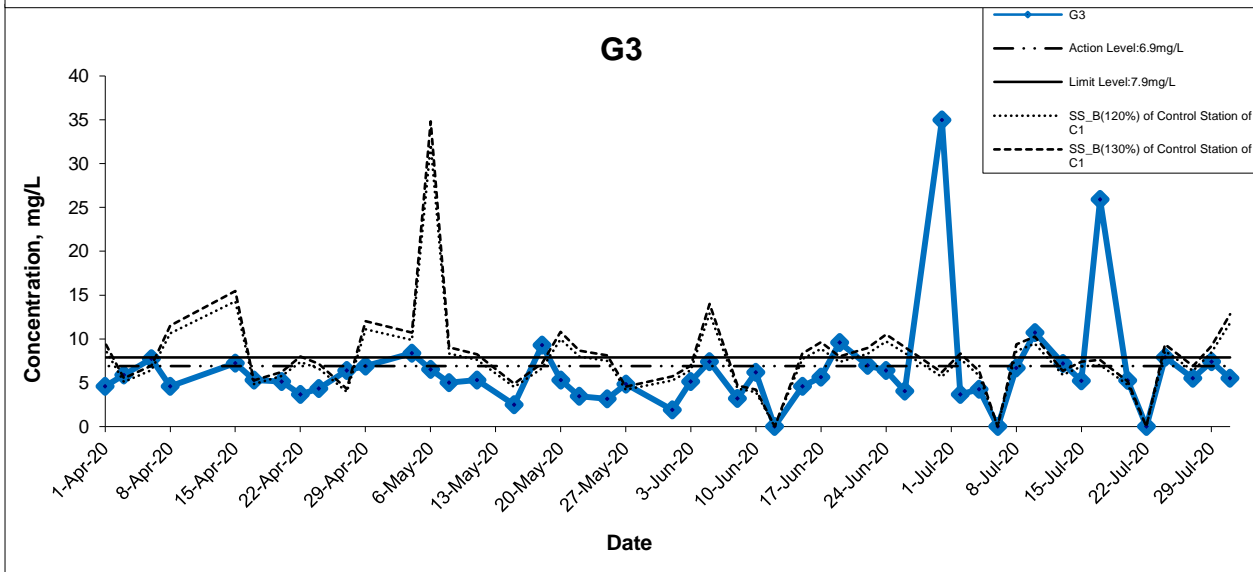
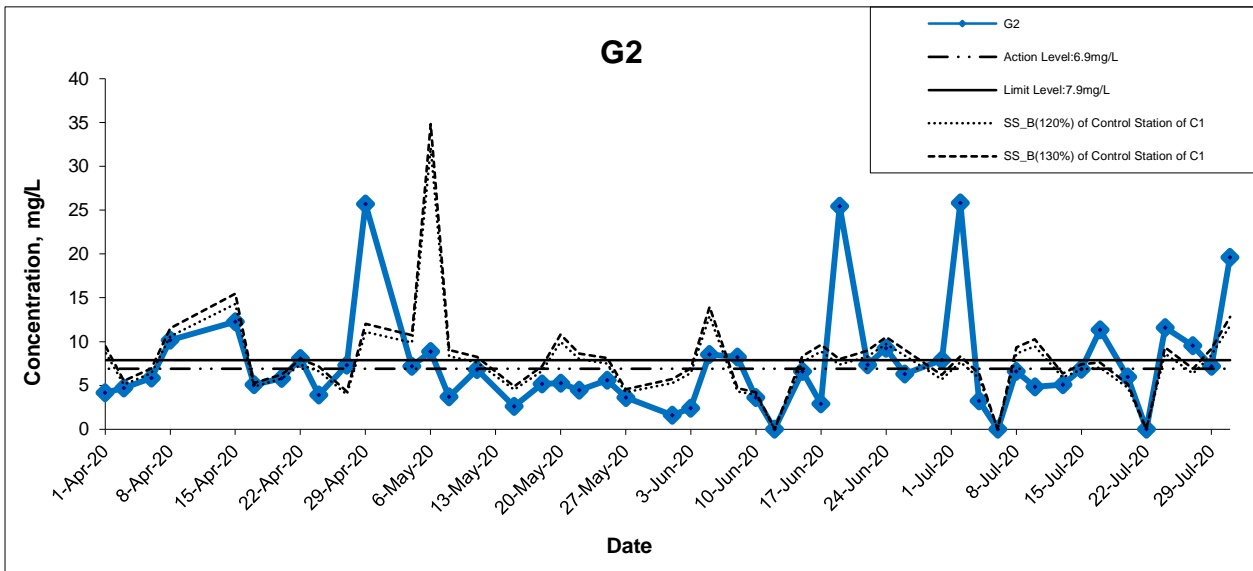
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Suspended Solids (Bottom) at Mid-Flood Tide



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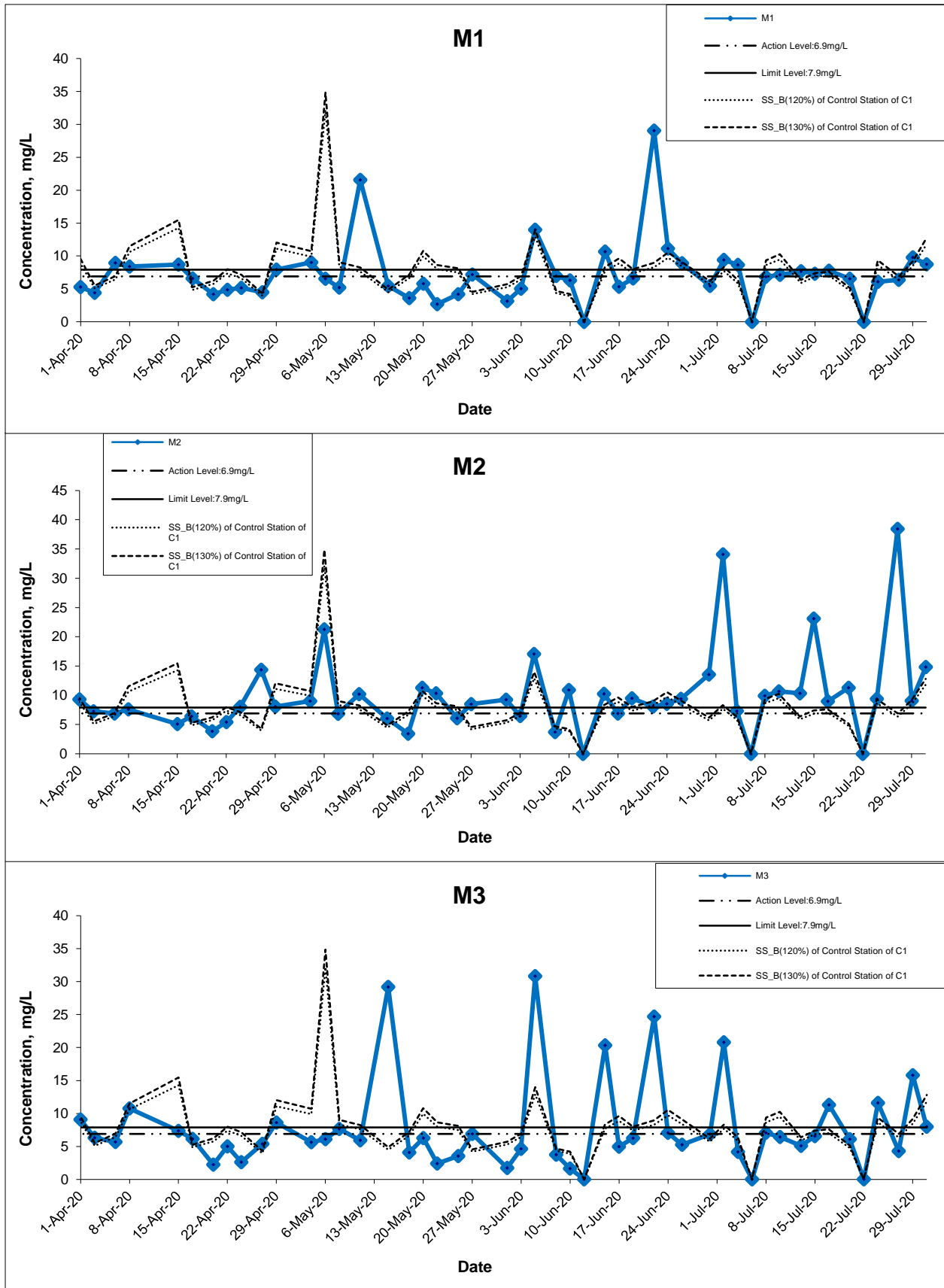
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Suspended Solids (Bottom) at Mid-Flood Tide



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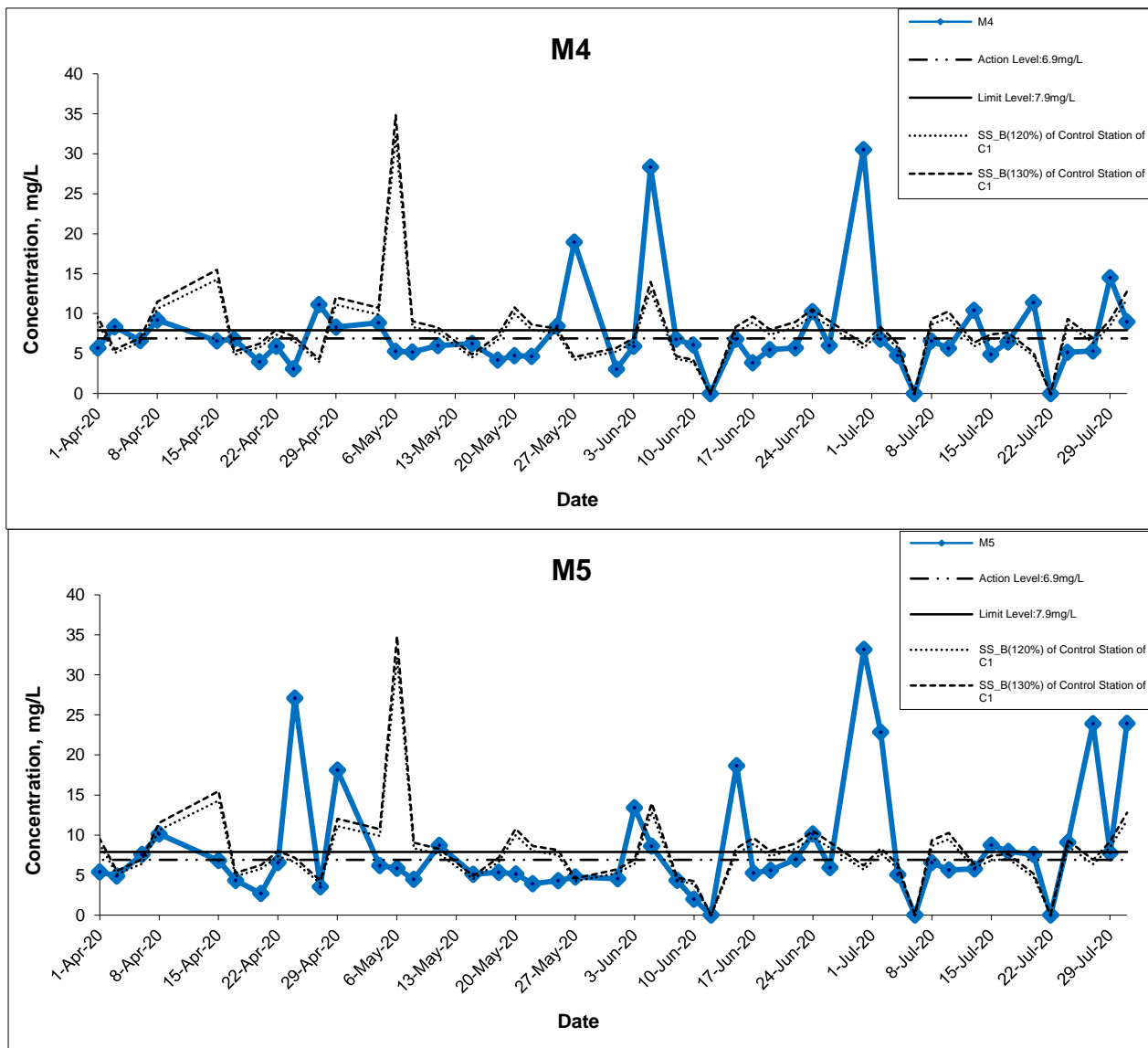
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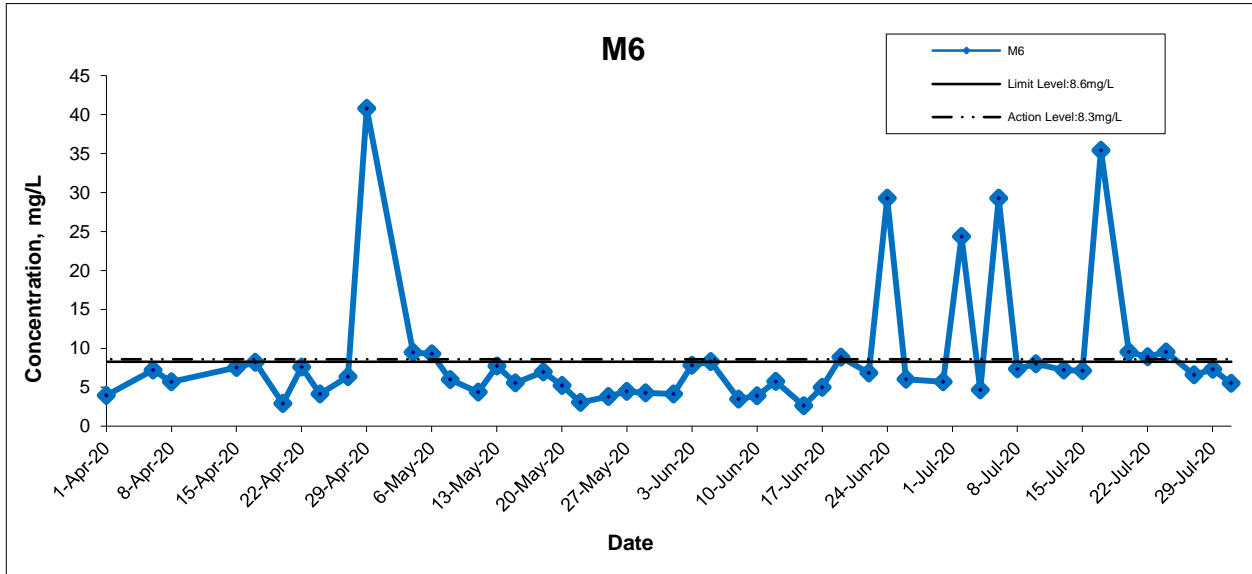
Title Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction

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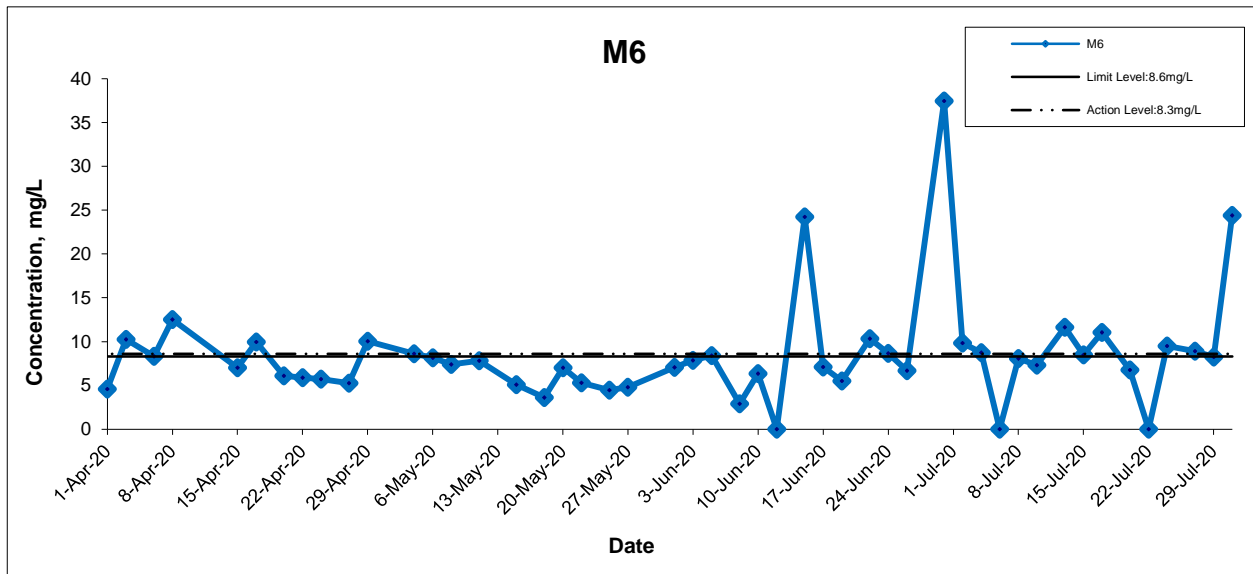


Suspended Solids (Intake Level of WSD Salt Water Intake) at Mid-Ebb Tide



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Suspended Solids (Intake Level of WSD Salt Water Intake) at Mid-Flood Tide



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