

Annex G3

Monitoring Results for Water Quality

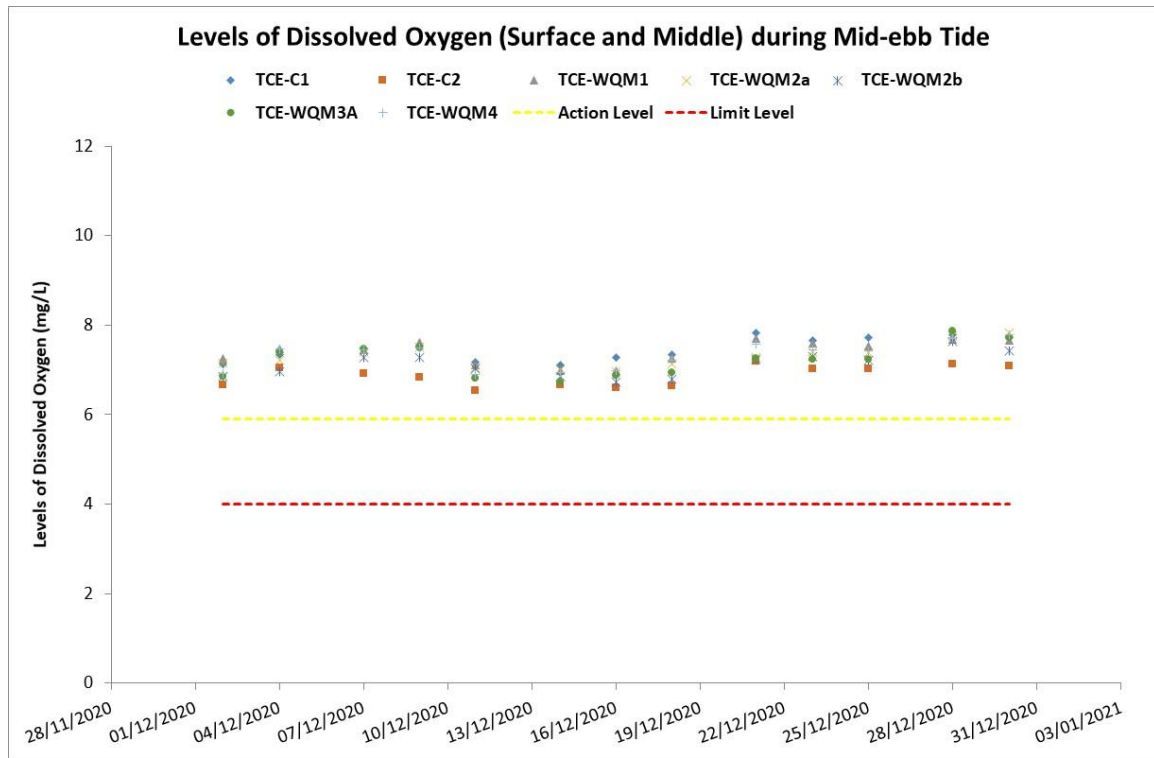


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2020

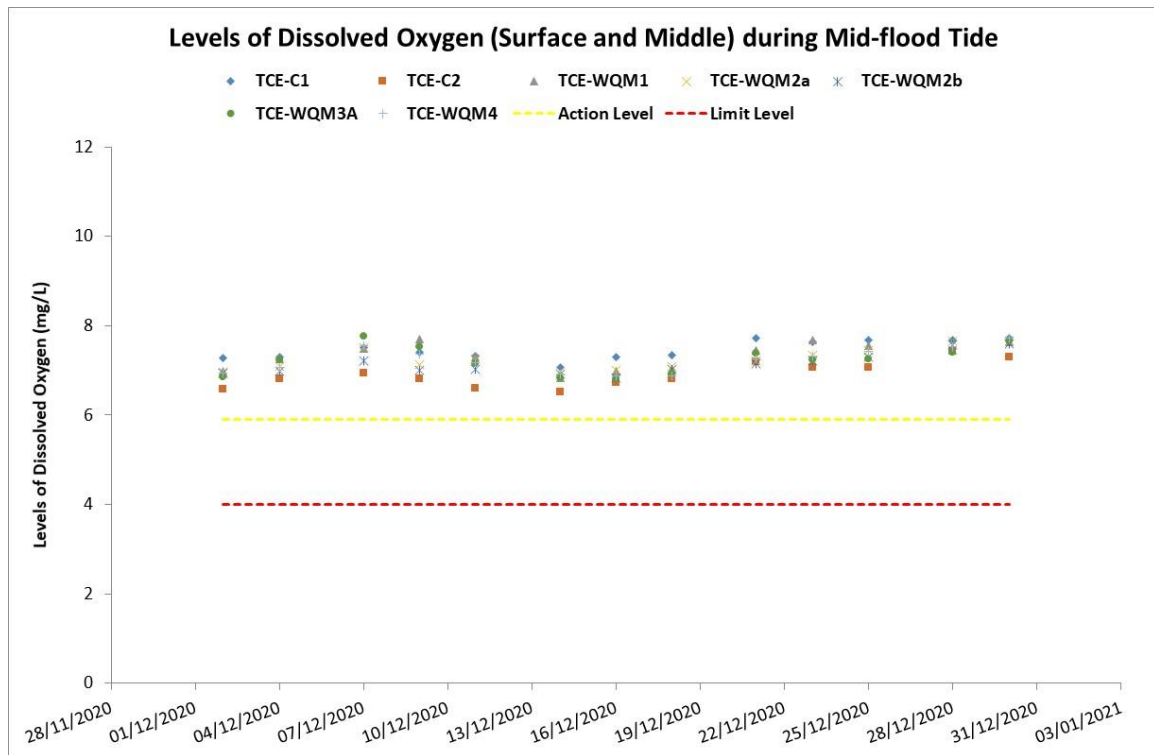


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: December 2020

Environmental Resources Management



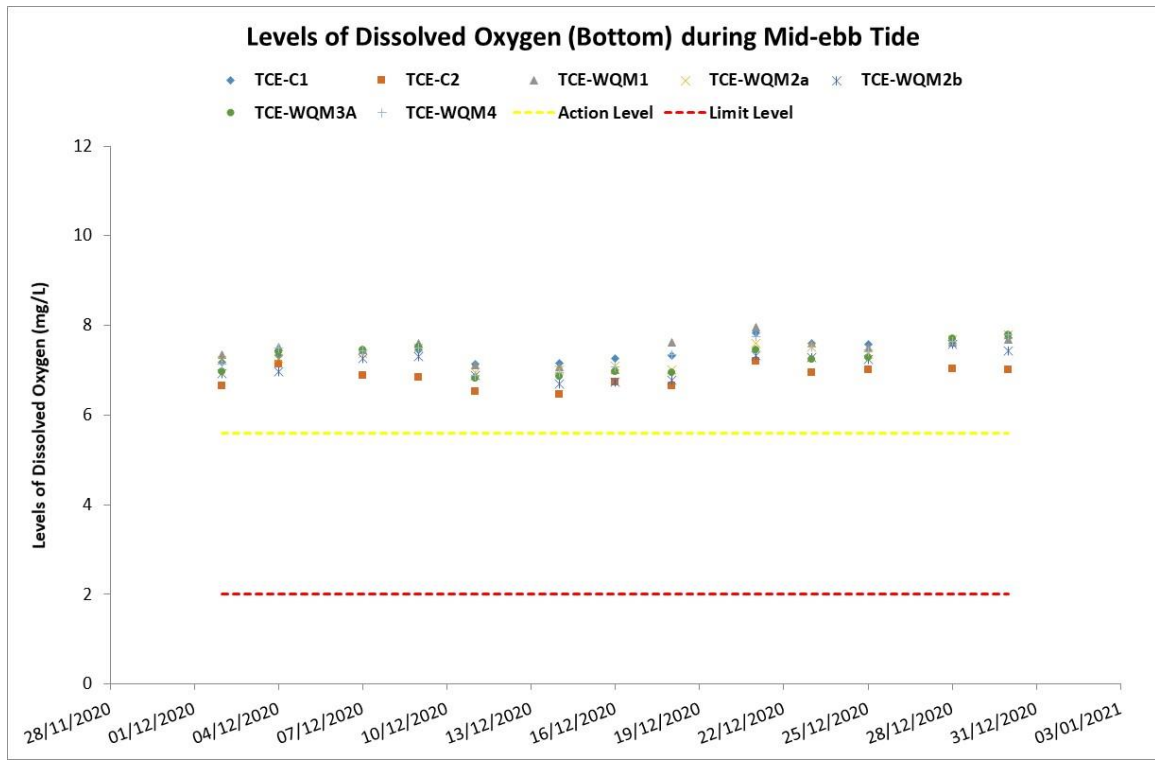


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2020

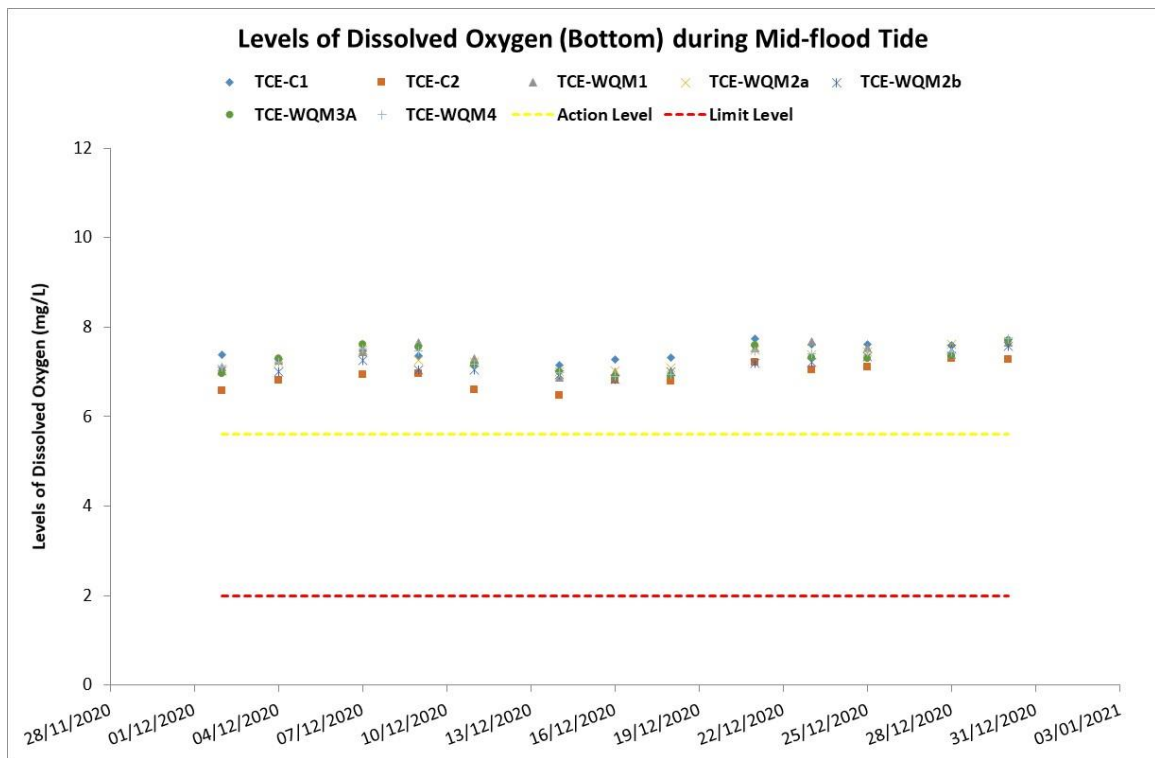


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: December 2020

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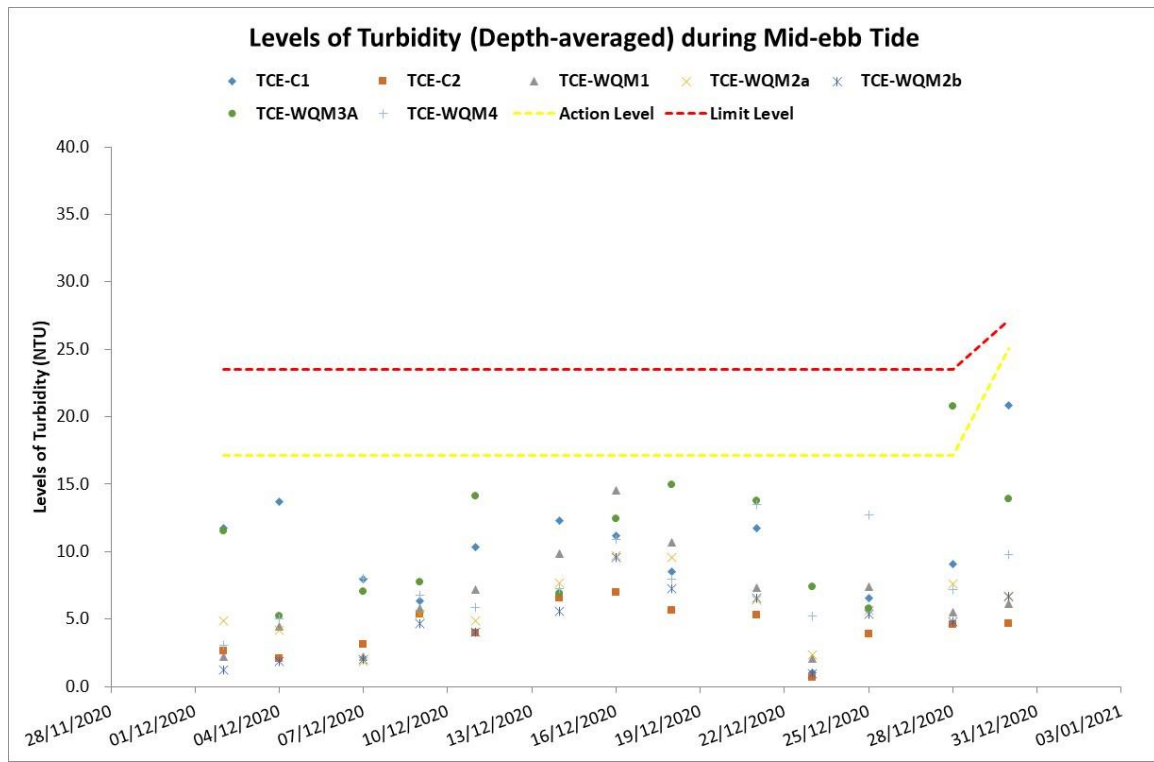


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2020

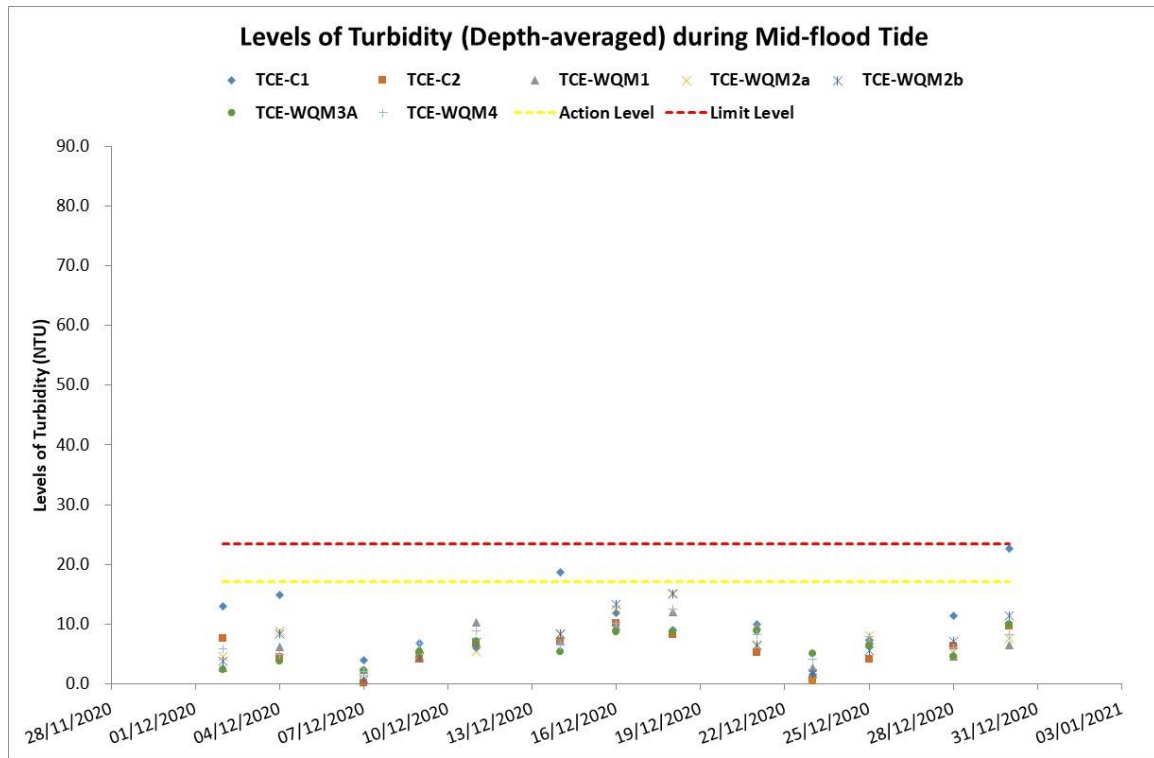


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: December 2020

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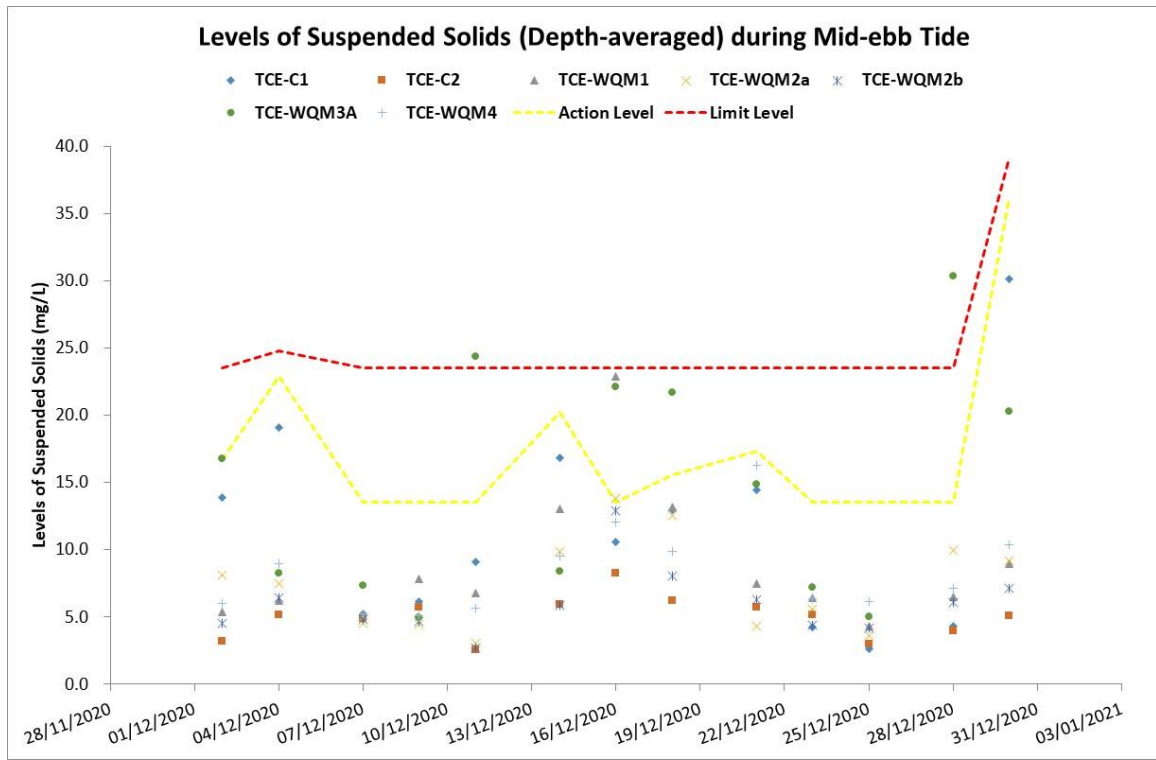


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2020

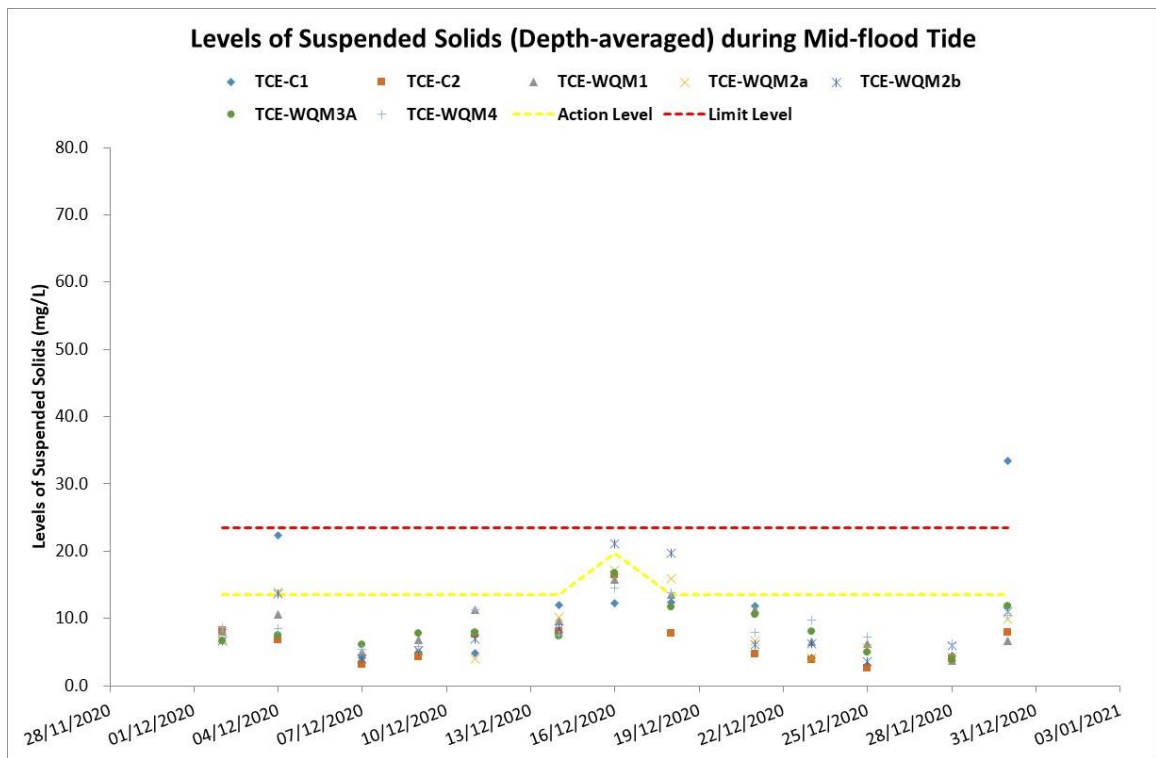


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: December 2020

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Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
02-12-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:19	8.1	Surface	1.0	1	22.2	8.3	33.3	7.1	99.3	9.0	13.7	7.1	11.7	13.9			
									2	22.2	8.3	33.3	7.1	99.3	9.3	13.1						
							Middle	4.1	1	22.1	8.3	33.3	7.1	99.2	12.9	13.5						
									2	22.1	8.3	33.3	7.1	99.1	13.1	13.8						
							Bottom	7.1	1	22.1	8.3	33.3	7.2	99.6	13.9	14.2						
									2	22.1	8.3	33.3	7.2	100.0	12.1	15.1						
		TCE-C2	Cloudy	Moderate	14:14	12.7	Surface	1.0	1	22.9	8.2	33.1	6.7	94.6	1.1	3.0	6.7	2.7	3.2			
									2	22.9	8.2	33.1	6.7	94.5	1.1	2.8						
							Middle	6.4	1	22.8	8.2	33.1	6.6	92.8	2.9	3.2						
									2	22.8	8.2	33.1	6.6	92.8	2.9	3.3						
							Bottom	11.7	1	22.8	8.2	33.1	6.7	93.6	4.0	3.2						
									2	22.8	8.2	33.1	6.7	93.7	3.9	3.5						
		TCE-WQM1	Cloudy	Moderate	13:00	8.0	Surface	1.0	1	22.2	8.3	32.9	7.3	100.7	2.2	5.5	7.2	2.2	5.4			
									2	22.2	8.3	32.9	7.2	100.5	2.0	5.4						
							Middle	4.0	1	22.1	8.3	32.9	7.2	100.5	2.3	5.3						
									2	22.1	8.3	32.9	7.2	100.4	2.3	5.4						
							Bottom	7.0	1	22.1	8.3	32.9	7.3	101.8	2.2	5.6						
									2	22.1	8.3	32.9	7.3	101.8	2.3	5.1						
		TCE-WQM2a	Cloudy	Moderate	13:36	6.9	Surface	1.0	1	22.7	8.3	32.9	7.2	100.5	4.3	8.2	7.2	4.9	8.2			
									2	22.7	8.3	32.9	7.2	100.5	4.3	8.6						
							Middle	3.5	1	22.5	8.3	32.9	7.2	99.9	4.3	8.1						
									2	22.5	8.3	32.9	7.1	99.8	4.4	8.4						
							Bottom	5.9	1	22.5	8.3	32.9	7.2	100.8	5.9	8.0						
									2	22.5	8.3	32.9	7.2	100.8	5.9	7.6						
		TCE-WQM2b	Cloudy	Moderate	13:49	11.0	Surface	1.0	1	23.0	8.2	33.0	6.9	96.9	1.1	4.9	6.9	1.2	4.5			
									2	23.0	8.2	33.1	6.9	96.7	1.1	5.7						
							Middle	5.5	1	22.7	8.2	33.0	6.8	95.9	1.3	4.7						
									2	22.7	8.2	33.0	6.8	96.0	1.3	5.4						
							Bottom	10.0	1	22.7	8.2	33.0	6.9	97.3	1.3	3.0						
									2	22.7	8.2	33.0	6.9	97.4	1.3	3.3						
		TCE-WQM3A	Cloudy	Calm	13:23	4.0	Surface	1.0	1	22.7	8.3	32.8	6.9	96.1	10.0	17.5	6.9	11.5	16.8			
									2	22.7	8.3	32.8	6.9	96.0	10.0	18.2						
							Bottom	3.0	1	22.6	8.3	32.8	7.0	97.3	13.0	15.9						
									2	22.6	8.3	32.8	7.0	97.3	13.0	15.5						
							Surface	1.0	1	22.9	8.3	32.6	6.9	97.1	3.1	5.6				6.9	3.0	6.0
									2	22.9	8.3	32.6	6.9	97.1	3.1	5.1						
		Bottom	2.7	1	22.4	8.3	32.7	7.1	98.9	3.0	6.4											
				2	22.4	8.3	32.7	7.2	100.2	2.9	6.9											
		Surface	1.0	1	22.0	8.3	32.9	7.3	101.0	11.7	4.9	7.3	12.9	8.4								
				2	22.0	8.3	32.9	7.3	100.8	11.9	9.1											
		Middle	4.1	1	22.0	8.3	33.2	7.3	100.7	12.7	10.0											
				2	22.0	8.3	33.2	7.3	100.7	12.8	5.5											
		Bottom	7.2	1	21.9	8.3	33.3	7.4	102.1	14.1	10.1											
				2	21.9	8.3	33.2	7.4	102.5	14.4	10.8											
		TCE-C2	Cloudy	Moderate	8:23	12.9	Surface	1.0	1	22.7	8.2	33.1	6.6	92.6	9.4	7.6	6.6	7.6	8.1			
									2	22.7	8.2	33.1	6.6	92.6	9.5	7.2						
							Middle	6.5	1	22.7	8.2	33.1	6.6	92.3	7.5	7.2						
									2	22.7	8.2	33.1	6.6	92.2	7.4	7.9						
Bottom	11.9						1	22.7	8.1	33.1	6.6	92.3	5.8	9.0								
							2	22.7	8.1	33.1	6.6	92.4	5.8	9.9								
TCE-WQM1	Cloudy	Calm	9:40	7.9	Surface	1.0	1	22.0	8.3	32.8	7.0	97.0	2.3	10.4	7.0	2.8	8.1					
							2	22.0	8.3	32.8	7.0	96.6	2.4	11.3								
					Middle	4.0	1	22.0	8.3	32.8	7.0	96.7	2.7	7.9								
							2	22.0	8.3	32.8	7.0	96.6	2.7	6.9								
					Bottom	6.9	1	22.0	8.3	32.8	7.1	98.2	3.3	6.4								
							2	22.0	8.3	32.8	7.1	98.5	3.3	5.5								
TCE-WQM2a	Cloudy	Moderate	9:00	6.8	Surface	1.0	1	22.3	8.3	32.9	6.9	96.5	4.2	7.0	7.0	4.6	7.0					
							2	22.3	8.3	32.9	6.9	96.5	4.2	7.4								
					Middle	3.4	1	22.3	8.3	32.9	7.0	97.2	4.6	7.0								
							2	22.3	8.3	32.9	7.0	97.2	4.6	7.2								
					Bottom	5.8	1	22.3	8.3	32.9	7.1	98.2	5.0	6.5								
							2	22.3	8.3	32.9	7.1	98.3	5.1	6.8								
TCE-WQM2b	Cloudy	Moderate	8:48	10.8	Surface	1.0	1	22.4	8.3	33.0	6.9	96.8	3.3	5.9	6.9	3.8	6.7					
							2	22.4	8.3	33.0	6.9	96.8	3.3	6.0								
					Middle	5.4	1	22.4	8.3	33.0	6.9	96.6	3.9	6.3								
							2	22.4	8.3	33.0	6.9	96.7	4.0	6.2								
					Bottom	9.8	1	22.3	8.3	33.0	7.0	97.9	4.1	8.1								
							2	22.3	8.3	33.0	7.0	97.9	4.1	7.5								
TCE-WQM3A	Cloudy	Calm	9:14	4.2	Surface	1.0	1	22.4	8.3	32.8	6.9	95.4	2.5	7.7	6.9	2.5	6.6					
							2	22.4	8.3	32.8	6.9	95.7	2.5	6.7								
					Bottom	3.2	1	22.3	8.2	32.8	6.9	96.5	2.4	6.1								
							2	22.3	8.2	32.8	7.0	96.8	2.4	6.0								
					Surface	1.0	1	22.5	8.2	32.9	6.9	96.7	6.1	7.2				6.9	5.9	8.6		
							2	22.5	8.2	32.9	6.9	96.9	6.0	8.0								
Bottom	2.6	1	22.5	8.2	32.9	7.1	99.2	5.8	10.1													
		2	22.5	8.2	32.9	7.1	99.3	5.8	9.1													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
07-12-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	5:30	8.3	Surface	1.0	1	20.6	8.3	32.9	7.5	101.0	5.2	4.5	7.5	8.0	5.2					
									2	20.6	8.3	32.9	7.5	101.0	5.3	4.0								
							Middle	4.2	1	20.6	8.3	33.2	7.5	100.8	8.6	5.4								
									2	20.6	8.3	33.2	7.4	100.6	8.8	5.9								
				Bottom	7.3	1	20.6	8.3	33.3	7.4	100.5	10.0	5.6	7.4										
						2	20.6	8.3	33.3	7.4	100.5	9.8	6.0											
		TCE-C2	Cloudy	Moderate	3:30	13.1	Surface	1.0	1	21.5	8.2	33.2	7.0				95.6	2.6	4.2	6.9	3.1	4.9		
									2	21.5	8.2	33.2	7.0				95.7	2.5	5.0					
							Middle	6.6	1	21.5	8.2	33.2	6.9	94.9	3.5	4.3								
									2	21.5	8.2	33.2	6.9	94.8	3.5	5.2								
				Bottom	12.1	1	21.5	8.2	33.2	6.9	94.6	3.2	5.0	6.9										
						2	21.5	8.2	33.2	6.9	94.7	3.3	5.4											
		TCE-WQM1	Cloudy	Calm	4:44	8.1	Surface	1.0	1	21.3	8.3	33.2	7.5				102.3	1.8	5.7	7.4	2.2	5.1		
									2	21.3	8.3	33.2	7.5				102.1	1.8	5.0					
							Middle	4.1	1	20.8	8.3	33.2	7.4	100.8	2.4	5.2								
									2	20.7	8.3	33.2	7.4	100.8	2.5	4.9								
				Bottom	7.1	1	20.7	8.3	33.2	7.5	101.0	2.4	4.9	7.5										
						2	20.8	8.3	33.2	7.5	101.1	2.3	4.9											
		TCE-WQM2a	Cloudy	Moderate	4:10	6.9	Surface	1.0	1	21.3	8.3	33.2	7.4				101.1	1.4	4.7	7.4	1.8	4.5		
									2	21.3	8.3	33.2	7.4				101.1	1.4	5.0					
							Middle	3.5	1	21.1	8.3	33.2	7.4	100.9	1.9	4.7								
									2	21.1	8.3	33.2	7.4	101.0	1.9	4.4								
				Bottom	5.9	1	21.1	8.3	33.2	7.4	100.4	2.2	4.3	7.4										
						2	21.1	8.3	33.2	7.4	100.5	2.2	4.1											
		TCE-WQM2b	Cloudy	Moderate	3:55	11.3	Surface	1.0	1	21.1	8.3	33.2	7.3				99.5	1.7	4.4	7.3	2.0	4.8		
									2	21.1	8.3	33.2	7.3				99.4	1.7	4.7					
							Middle	5.7	1	21.0	8.3	33.2	7.2	98.7	2.0	4.6								
									2	21.0	8.3	33.2	7.3	98.8	2.1	4.8								
				Bottom	10.3	1	21.0	8.3	33.2	7.3	98.9	2.2	4.9	7.3										
						2	21.0	8.3	33.2	7.3	99.0	2.2	5.3											
		TCE-WQM3A	Cloudy	Moderate	4:22	4.2	Surface	1.0	1	21.4	8.4	33.2	7.5				102.5	5.2	6.9	7.5	7.0	7.3		
									2	21.4	8.4	33.2	7.5				102.3	5.6	6.6					
							Bottom	3.2	1	21.2	8.5	33.2	7.5	101.9	8.6	7.4								
									2	21.2	8.5	33.2	7.5	102.0	8.7	8.4								
		TCE-WQM4	Cloudy	Calm	4:32	3.6	Surface	1.0	1	21.4	8.3	33.2	7.4	102.0	6.7	6.1	7.4	8.1	5.2					
									2	21.4	8.3	33.2	7.4	102.0	6.1	5.4								
							Bottom	2.6	1	21.4	8.3	33.2	7.4	102.0	9.7	5.1								
									2	21.4	8.3	33.2	7.4	101.9	9.7	4.3								
		07-12-20	Mid-Flood	TCE-C1	Cloudy	Rough	15:57	8.1	Surface	1.0	1	20.7	8.3	32.9	7.6	102.1	2.2	4.8	7.5	4.1	4.2			
											2	20.7	8.3	32.9	7.5	102.0	2.5	4.5						
									Middle	4.1	1	20.7	8.3	33.2	7.5	101.5	4.3	4.6						
											2	20.7	8.3	33.2	7.5	101.4	4.3	3.8						
						Bottom	7.1	1	20.7	8.3	33.3	7.5	101.3	5.5	3.3	7.5								
								2	20.7	8.3	33.3	7.5	101.5	5.5	4.2									
				TCE-C2	Cloudy	Moderate	17:55	12.9	Surface	1.0	1	21.7	8.3	33.3	6.9				95.9	0.1	3.9	6.9	0.2	3.1
											2	21.7	8.3	33.3	6.9				95.8	0.1	3.4			
									Middle	6.5	1	21.7	8.3	33.3	7.0	95.9	0.2	2.9						
											2	21.7	8.3	33.3	7.0	95.9	0.2	3.6						
				Bottom	11.9	1	21.7	8.3	33.3	6.9	95.8	0.3	2.7	6.9										
						2	21.7	8.3	33.3	6.9	95.9	0.3	2.3											
TCE-WQM1	Cloudy			Moderate	16:34	8.0	Surface	1.0	1	20.8	8.3	33.2	7.5				102.0	2.0	4.2	7.5	2.4	5.0		
									2	20.8	8.3	33.2	7.5				102.0	2.0	4.4					
							Middle	4.0	1	20.7	8.3	33.2	7.5	101.2	2.4	5.4								
									2	20.7	8.3	33.2	7.5	101.3	2.4	4.8								
				Bottom	7.0	1	20.7	8.3	33.2	7.5	101.0	2.7	6.0	7.5										
						2	20.7	8.3	33.2	7.5	101.1	2.7	5.4											
TCE-WQM2a	Cloudy			Moderate	17:14	6.7	Surface	1.0	1	21.3	8.3	33.2	7.6				103.4	1.2	3.8	7.5	1.8	4.0		
									2	21.3	8.3	33.2	7.6				103.4	1.2	4.6					
							Middle	3.4	1	21.3	8.3	33.2	7.5	102.4	1.8	3.5								
									2	21.3	8.3	33.2	7.5	102.4	1.8	4.5								
				Bottom	5.7	1	21.3	8.3	33.2	7.5	102.4	2.5	3.4	7.5										
						2	21.3	8.3	33.2	7.5	102.4	2.4	4.2											
TCE-WQM2b	Cloudy			Moderate	17:28	10.8	Surface	1.0	1	21.4	8.3	33.3	7.2				98.5	0.8	4.5	7.2	0.8	4.0		
									2	21.4	8.3	33.3	7.2				98.5	0.8	5.0					
							Middle	5.4	1	21.4	8.3	33.2	7.2	99.3	0.9	3.3								
									2	21.4	8.3	33.2	7.3	99.4	0.9	4.0								
				Bottom	9.8	1	21.3	8.3	33.2	7.3	99.3	0.8	3.3	7.3										
						2	21.3	8.3	33.2	7.3	99.4	0.7	3.9											
TCE-WQM3A	Cloudy			Calm	17:02	4.4	Surface	1.0	1	21.4	8.4	33.2	7.8				106.5	2.3	5.8	7.8	2.3	6.1		
									2	21.4	8.4	33.2	7.8				106.4	2.3	5.3					
							Bottom	3.4	1	21.4	8.4	33.2	7.6	104.6	2.3	6.2								
									2	21.4	8.4	33.2	7.6	104.4	2.3	7.1								
TCE-WQM4	Cloudy			Calm	16:50	3.7	Surface	1.0	1	21.4	8.3	33.2	7.6	103.7	2.0	5.4	7.6	2.2	5.4					
									2	21.4	8.3	33.2	7.6	103.8	2.0	5.5								
							Bottom	2.7	1	21.4	8.3	33.2	7.5	103.1	2.5	5.2								
									2	21.4	8.3	33.2	7.5	102.8	2.1	5.6								

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged									
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)							
09-12-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	8:50	7.6	Surface	1.0	1	19.8	8.1	31.1	7.5	98.6	5.3	5.4	7.5	6.3	6.1							
									2	19.8	8.1	31.1	7.5	98.6	5.3	4.9										
							Middle	3.8	1	19.8	8.1	31.1	7.5	98.0	6.0	6.3										
									2	19.8	8.1	31.1	7.5	98.0	6.1	5.6										
							Bottom	6.6	1	19.7	8.1	31.1	7.4	97.8	7.8	6.8										
									2	19.7	8.1	31.1	7.5	98.0	7.5	7.7										
		TCE-C2	Cloudy	Moderate	6:52	11.6	Surface	1.0	1	20.9	8.0	31.3	6.8	91.8	7.6	4.2	6.8	5.4	5.7							
									2	20.9	8.0	31.3	6.8	91.8	7.6	5.0										
							Middle	5.8	1	20.8	8.0	31.3	6.8	91.8	4.0	6.3										
									2	20.8	8.0	31.3	6.8	91.8	4.1	5.8										
							Bottom	10.6	1	20.8	8.0	31.3	6.8	91.8	4.5	6.1										
									2	20.8	8.0	31.3	6.8	91.9	4.5	6.8										
		TCE-WQM1	Cloudy	Moderate	8:07	7.8	Surface	1.0	1	19.9	8.1	30.9	7.6	100.4	5.8	8.4	7.6	5.8	7.9							
									2	19.9	8.1	30.9	7.6	100.4	5.8	9.5										
							Middle	3.9	1	19.9	8.1	30.9	7.6	100.1	5.8	8.4										
									2	19.9	8.1	30.9	7.6	100.1	5.8	8.5										
							Bottom	6.8	1	19.9	8.1	30.9	7.6	100.2	5.7	6.0										
									2	19.9	8.1	30.9	7.6	100.2	5.7	6.4										
		TCE-WQM2a	Cloudy	Moderate	7:33	7.2	Surface	1.0	1	20.4	8.1	31.1	7.5	100.0	5.0	3.6	7.5	5.3	4.5							
									2	20.4	8.1	31.1	7.5	100.0	5.0	4.4										
							Middle	3.6	1	20.2	8.1	31.1	7.5	99.6	5.4	4.2										
									2	20.1	8.1	31.1	7.5	99.5	5.4	5.0										
							Bottom	6.2	1	20.1	8.1	31.1	7.5	99.2	5.6	4.2										
									2	20.1	8.1	31.1	7.5	99.2	5.6	5.3										
TCE-WQM2b	Cloudy	Moderate	7:20	11.2	Surface	1.0	1	20.1	8.1	30.9	7.3	96.8	4.3	4.8	7.3	4.6	4.7									
							2	20.1	8.1	30.9	7.3	96.8	4.2	5.2												
					Middle	5.6	1	20.3	8.1	31.0	7.2	96.0	4.5	4.7												
							2	20.3	8.1	31.0	7.2	96.0	4.5	4.7												
					Bottom	10.2	1	20.3	8.1	31.0	7.3	96.8	5.1	4.1												
							2	20.3	8.1	31.0	7.3	97.0	5.3	4.4												
TCE-WQM3A	Cloudy	Moderate	7:45	4.2	Surface	1.0	1	20.0	8.1	31.0	7.5	99.1	7.3	4.6	7.5	7.8	4.9									
							2	20.0	8.1	31.0	7.5	99.1	7.4	5.4												
					Bottom	3.2	1	20.0	8.1	31.0	7.5	99.2	8.1	5.2												
							2	20.0	8.1	31.0	7.5	99.3	8.2	4.5												
					TCE-WQM4	Cloudy	Moderate	7:55	3.5	Surface	1.0	1	20.0	8.1				31.0	7.5	98.8	6.8	5.8	7.5	6.8	5.1	
											2	20.0	8.1	31.0				7.5	98.8	6.7	5.7					
Bottom	2.5	1	20.0	8.1	31.0					7.5	99.0	6.6	5.0													
		2	20.0	8.1	31.0					7.5	99.1	7.0	4.0													
TCE-WQM3B	Cloudy	Moderate	7:45	4.2	Surface					1.0	1	20.0	8.1	31.0	7.5	99.1	7.3	4.6	7.5	7.8	4.9					
										2	20.0	8.1	31.0	7.5	99.1	7.4	5.4									
Bottom					3.2	1	20.0	8.1	31.0	7.5	99.2	8.1	5.2													
						2	20.0	8.1	31.0	7.5	99.3	8.2	4.5													
TCE-WQM4					Cloudy	Moderate	7:55	3.5	Surface	1.0	1	20.0	8.1	31.0	7.5	98.8	6.8	5.8				7.5	6.8	5.1		
										2	20.0	8.1	31.0	7.5	98.8	6.7	5.7									
Bottom	2.5	1	20.0	8.1					31.0	7.5	99.0	6.6	5.0													
		2	20.0	8.1					31.0	7.5	99.1	7.0	4.0													
TCE-WQM3B	Cloudy	Moderate	7:45	4.2					Surface	1.0	1	20.0	8.1	31.0	7.5	99.1	7.3	4.6	7.5	7.8	4.9					
										2	20.0	8.1	31.0	7.5	99.1	7.4	5.4									
Bottom					3.2	1	20.0	8.1	31.0	7.5	99.2	8.1	5.2													
						2	20.0	8.1	31.0	7.5	99.3	8.2	4.5													
TCE-WQM4					Cloudy	Moderate	7:55	3.5	Surface	1.0	1	20.0	8.1	31.0	7.5	98.8	6.8	5.8				7.5	6.8	5.1		
										2	20.0	8.1	31.0	7.5	98.8	6.7	5.7									
Bottom	2.5	1	20.0	8.1					31.0	7.5	99.0	6.6	5.0													
		2	20.0	8.1					31.0	7.5	99.1	7.0	4.0													
09-12-20	Mid-Flood	TCE-C1	Cloudy	Moderate					13:15	8.2	Surface	1.0	1	19.9	8.2	31.1	7.4	98.0	5.4	4.1	7.4				6.8	5.0
													2	19.9	8.2	31.1	7.4	98.0	5.4	4.8						
					Middle	4.1	1	19.9			8.2	31.1	7.4	97.3	5.5	5.0										
							2	19.9			8.2	31.1	7.4	97.3	5.5	5.3										
					Bottom	7.2	1	19.8			8.2	31.1	7.4	97.1	9.4	5.6										
							2	19.8			8.2	31.1	7.4	97.1	9.7	5.4										
		TCE-C2	Cloudy	Moderate	15:28	12.2	Surface	1.0	1	21.0	8.1	31.1	6.8	91.6	3.9	4.2	6.8	4.2	4.3							
									2	21.0	8.1	31.1	6.8	91.6	3.9	3.4										
							Middle	6.1	1	21.0	8.1	31.1	6.8	91.8	4.3	4.8										
									2	21.0	8.1	31.1	6.8	91.9	4.3	4.2										
							Bottom	11.2	1	21.0	8.1	31.1	6.9	93.4	4.4	4.3										
									2	21.0	8.1	31.1	7.0	93.7	4.4	5.0										
		TCE-WQM1	Cloudy	Moderate	14:07	7.8	Surface	1.0	1	20.2	8.1	30.9	7.7	102.2	6.1	8.3	7.7	5.9	6.8							
									2	20.2	8.1	30.9	7.7	102.2	6.1	7.2										
							Middle	3.9	1	20.1	8.1	30.9	7.7	101.6	5.8	6.8										
									2	20.1	8.1	30.9	7.7	101.5	5.8	6.1										
							Bottom	6.8	1	20.1	8.2	30.9	7.7	101.3	5.9	6.6										
									2	20.1	8.2	30.9	7.7	101.3	5.9	5.8										
		TCE-WQM2a	Cloudy	Moderate	14:44	7.6	Surface	1.0	1	20.8	8.1	31.1	7.1	95.5	4.3	4.6	7.1	4.7	5.1							
									2	20.8	8.1	31.1	7.1	95.5	4.3	5.0										
							Middle	3.8	1	20.8	8.1	31.1	7.1	95.6	4.8	5.0										
									2	20.8	8.1	31.1	7.1	95.7	4.8	5.2										
							Bottom	6.6	1	20.8	8.0	31.0	7.2	97.0	5.0	5.5										
									2	20.8	8.0	31.0	7.3	97.1	5.1	5.3										
TCE-WQM2b	Cloudy	Moderate	14:56	11.2	Surface	1.0	1	20.9	8.1	31.1	7.0	94.1	4.4	4.6	7.0	4.5	5.2									
							2	20.9	8.1	31.1	7.0	94.1	4.4	4.2												
					Middle	5.6	1	20.9	8.1	31.1	7.0	93.9	4.4	5.8												
							2	20.9	8.1	31.1	7.0	93.9	4.4	5.5												
					Bottom	10.2	1	20.9	8.1	31.1	7.0	94.4	4.6	5.3												
							2	20.9	8.1	31.1	7.0	94.5	4.6	6.0												
TCE-WQM3A	Cloudy	Moderate	14:32	4.4	Surface	1.0	1	20.7	8.2	31.0	7.5	100.7	5.6	7.2	7.5	5.4	7.8									
							2	20.7	8.2	31.0	7.5	100.6	5.5	6.6												
					Bottom	3.4	1	20.7	8.1	31.1	7.6	101.0	5.2	9.2												
							2	20.7	8.1	31.1	7.6	101.1	5.2	8.3												
					TCE-WQM4	Cloudy	Moderate	14:20	3.7	Surface	1.0	1	20.7	8.1				31.1	7.4	98.5	6.4	6.6	7.4	6.9	5.8	
											2	20.7	8.1	31.1				7.4	98.6	6.5	5.8					
Bottom	2.7	1	20.7	8.1	31.1					7.5	99.6	7.0	5.2													
		2	20.7	8.1	31.1					7.5	99.9	7.5	5.7													
TCE-WQM4	Cloudy	Moderate	14:20	3.7	Surface					1.0	1	20.7	8.1	31.1	7.4	98.5	6.4	6.6	7.4	6.9	5.8					
										2	20.7	8.1	31.1	7.4	98.6	6.5	5.8									
Bottom					2.7	1	20.7	8.1	31.1	7.5	99.6	7.0	5.2													
						2	20.7	8.1	31.1	7.5	99.9	7.5	5.7													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged											
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)									
16-12-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:37	8.2	Surface	1.0	1	19.3	8.1	30.0	7.3	94.4	8.3	10.0	7.3	11.2	10.6									
									2	19.3	8.1	30.0	7.3	94.4	8.2	9.4												
							Middle	4.1	1	19.3	8.1	30.1	7.3	94.2	11.5	10.4												
									2	19.3	8.1	30.1	7.3	94.2	11.9	11.2												
							Bottom	7.2	1	19.3	8.1	30.3	7.3	94.2	13.9	10.7												
									2	19.3	8.1	30.3	7.3	94.2	13.2	11.6												
		TCE-C2	Cloudy	Moderate	15:10	12.8	Surface	1.0	1	20.0	8.1	30.6	6.7	87.7	6.4	7.5	6.6	7.0	8.3									
									2	20.0	8.1	30.6	6.6	87.2	6.5	6.6												
							Middle	6.4	1	20.1	8.0	30.7	6.6	86.6	6.6	8.0												
									2	20.1	8.0	30.7	6.6	86.6	6.9	7.6												
							Bottom	11.8	1	20.1	8.0	30.7	6.7	88.9	7.9	9.5												
									2	20.1	8.0	30.7	6.7	89.0	7.6	10.3												
		TCE-WQM1	Cloudy	Moderate	13:40	8.0	Surface	1.0	1	19.3	8.1	30.3	7.0	90.4	13.9	16.6	7.0	14.6	22.9									
									2	19.3	8.1	30.3	7.0	90.4	14.0	16.8												
							Middle	4.0	1	19.3	8.1	30.3	7.0	90.5	13.8	22.7												
									2	19.3	8.1	30.3	7.0	90.5	13.7	23.5												
							Bottom	7.0	1	19.2	8.1	30.3	7.0	90.8	16.0	28.1												
									2	19.2	8.1	30.3	7.0	90.8	16.0	29.5												
		TCE-WQM2a	Cloudy	Moderate	14:29	7.0	Surface	1.0	1	19.6	8.1	30.3	7.0	91.0	9.4	13.2	7.0	9.7	13.8									
									2	19.6	8.1	30.3	7.0	91.0	9.4	12.5												
							Middle	3.5	1	19.6	8.1	30.3	7.0	91.1	9.7	13.2												
									2	19.6	8.1	30.3	7.0	91.1	9.6	14.2												
							Bottom	6.0	1	19.6	8.0	30.3	7.1	92.6	10.1	15.3												
									2	19.6	8.0	30.3	7.1	92.8	10.1	14.5												
		TCE-WQM2b	Cloudy	Moderate	14:40	10.7	Surface	1.0	1	19.9	8.1	30.5	6.7	88.5	9.9	14.3	6.7	9.5	12.9									
									2	19.9	8.1	30.5	6.7	88.4	9.9	15.1												
							Middle	5.4	1	20.0	8.1	30.5	6.7	88.3	9.7	13.4												
									2	20.0	8.1	30.5	6.7	88.3	9.7	12.1												
							Bottom	9.7	1	19.9	8.0	30.5	6.7	88.7	9.1	11.6												
									2	19.9	8.0	30.5	6.8	88.7	9.1	10.7												
		TCE-WQM3A	Cloudy	Moderate	14:00	4.4	Surface	1.0	1	19.5	8.1	30.3	6.9	89.4	12.2	20.9	6.9	12.5	22.1									
									2	19.5	8.1	30.3	6.9	89.8	12.4	21.8												
							Bottom	3.4	1	19.5	8.1	30.3	7.0	90.7	12.6	22.5												
									2	19.5	8.1	30.3	7.0	90.8	12.6	23.2												
							TCE-WQM4	Cloudy	Moderate	13:50	3.6	Surface	1.0	1	19.5	8.1				30.4	7.0	91.0	10.8	14.5	7.0	10.9	12.1	
													2	19.5	8.1	30.4				7.0	91.1	10.9	15.4					
		Bottom	2.6	1	19.5	8.1	30.4					7.1	92.1	11.0	9.6													
				2	19.5	8.0	30.4					7.1	92.2	11.0	8.8													
		16-12-20	Mid-Flood	TCE-C1	Cloudy	Moderate	10:02					8.3	Surface	1.0	1	19.3	8.1	30.0	7.3	94.6	10.4	11.0	7.3	11.9				12.2
															2	19.3	8.1	30.0	7.3	94.6	10.2	12.1						
								Middle	4.2	1	19.3		8.1	30.1	7.3	94.4	10.5	11.4										
										2	19.3		8.1	30.1	7.3	94.4	10.6	12.5										
								Bottom	7.3	1	19.3		8.1	30.4	7.3	94.6	14.9	13.4										
										2	19.3		8.1	30.4	7.3	94.7	15.0	12.9										
				TCE-C2	Cloudy	Moderate	7:21	12.9	Surface	1.0	1	19.9	8.0	30.6	6.8	88.8	8.4	15.6	6.7	10.2	16.4							
											2	19.9	8.0	30.6	6.8	88.9	8.6	14.6										
									Middle	6.5	1	20.0	8.0	30.7	6.7	88.2	9.5	16.1										
											2	20.0	8.0	30.7	6.7	88.2	9.5	15.7										
Bottom	11.9								1	20.0	8.0	30.7	6.8	89.6	12.8	18.8												
									2	20.0	8.0	30.7	6.8	90.0	12.3	17.6												
TCE-WQM1	Cloudy			Moderate	8:43	8.2	Surface	1.0	1	19.3	8.1	30.4	7.0	90.6	9.8	16.0	7.0	9.6	15.8									
									2	19.3	8.1	30.4	7.0	90.6	9.7	17.1												
							Middle	4.1	1	19.2	8.1	30.4	7.0	90.4	9.7	15.8												
									2	19.2	8.1	30.4	7.0	90.4	9.6	15.5												
							Bottom	7.2	1	19.2	8.1	30.4	7.0	90.6	9.5	15.3												
									2	19.2	8.1	30.4	7.0	90.7	9.4	15.3												
TCE-WQM2a	Cloudy			Moderate	7:58	6.9	Surface	1.0	1	19.5	8.1	30.3	7.0	91.3	10.3	12.4	7.0	12.5	17.2									
									2	19.5	8.1	30.3	7.0	91.3	10.3	11.9												
							Middle	3.5	1	19.5	8.1	30.4	7.0	91.3	13.2	14.7												
									2	19.5	8.1	30.4	7.0	91.3	13.5	15.6												
							Bottom	5.9	1	19.5	8.0	30.3	7.0	91.5	14.3	24.4												
									2	19.5	8.0	30.3	7.0	91.6	13.4	23.9												
TCE-WQM2b	Cloudy			Moderate	7:43	10.8	Surface	1.0	1	19.8	8.1	30.5	6.8	89.7	12.4	19.0	6.8	13.3	21.1									
									2	19.8	8.1	30.5	6.8	89.7	12.5	18.2												
							Middle	5.4	1	19.8	8.1	30.5	6.8	89.6	11.7	18.7												
									2	19.8	8.1	30.5	6.8	89.6	11.5	19.4												
							Bottom	9.8	1	19.8	8.1	30.5	6.8	89.5	15.9	26.3												
									2	19.8	8.1	30.5	6.8	89.6	15.8	25.1												
TCE-WQM3A	Cloudy			Moderate	8:18	4.3	Surface	1.0	1	19.5	8.0	30.5	6.8	88.9	8.6	20.1	6.8	8.7	16.8									
									2	19.5	8.0	30.5	6.8	88.9	8.6	20.1												
							Bottom	3.3	1	19.5	8.0	30.5	6.9	89.9	8.9	14.2												
									2	19.5	8.0	30.5	6.9	90.0	8.9	13.6												
							TCE-WQM4	Cloudy	Moderate	8:31	3.5	Surface	1.0	1	19.6	8.1				30.5	6.9	89.7	9.7	12.9	6.9	10.1	14.6	
														2	19.6	8.1				30.5	6.9	89.7	9.8	11.8				
Bottom	2.5			1	19.6	8.1						30.4	6.9	89.6	10.5	17.2												
				2	19.6	8.1						30.4	6.9	89.6	10.5	16.4												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
18-12-20	Mid-Ebb	TCE-C1	Sunny	Rough	14:07	7.5	Surface	1.0	1	18.8	8.1	30.7	7.4	94.9	7.3	13.4	7.4	8.5	13.0					
									2	18.8	8.1	30.7	7.4	94.9	7.3	13.1								
							Middle	3.8	1	18.8	8.1	30.7	7.3	94.6	8.5	13.3								
									2	18.8	8.1	30.7	7.3	94.6	8.6	13.0								
				Bottom	6.5	1	18.8	8.1	30.8	7.3	94.5	9.7	12.6	7.3										
						2	18.8	8.1	30.8	7.3	94.5	9.8	12.5											
		TCE-C2	Sunny	Moderate	16:12	11.2	Surface	1.0	1	19.6	8.0	30.8	6.7				87.2	5.3	5.7	6.7	5.7	6.3		
								2	19.6	8.0	30.8	6.7	87.2				5.3	5.6						
		Middle					5.6	1	19.6	8.0	30.8	6.6	87.1	5.5	5.6									
								2	19.6	8.0	30.8	6.6	87.0	5.5	5.9									
				Bottom	10.2	1	19.7	8.0	30.8	6.7	87.3	6.1	7.8	6.7										
						2	19.7	8.0	30.8	6.7	87.3	6.1	6.9											
		TCE-WQM1	Sunny	Calm	14:50	8.2	Surface	1.0	1	18.7	8.1	30.4	7.2				92.7	10.5	12.4	7.3	10.7	13.2		
								2	18.7	8.1	30.4	7.2	92.8				10.4	13.1						
		Middle					4.1	1	18.7	8.1	30.5	7.3	93.8	11.1	13.5									
								2	18.7	8.1	30.5	7.3	93.8	11.2	13.2									
				Bottom	7.2	1	18.7	8.1	30.5	7.6	97.7	10.5	13.2	7.6										
						2	18.7	8.1	30.5	7.6	97.9	10.7	13.6											
		TCE-WQM2a	Sunny	Moderate	15:32	7.2	Surface	1.0	1	19.1	8.0	30.5	7.2				92.8	8.5	10.3	7.1	9.5	12.6		
								2	19.1	8.0	30.5	7.2	92.8				8.5	10.1						
		Middle					3.6	1	19.1	8.0	30.5	7.1	91.9	9.1	13.4									
								2	19.1	8.0	30.5	7.1	91.9	9.1	13.8									
				Bottom	6.2	1	19.0	8.0	30.6	7.0	90.5	11.0	14.1	7.0										
						2	19.0	8.0	30.6	7.0	90.6	11.0	13.6											
		TCE-WQM2b	Sunny	Moderate	15:43	10.1	Surface	1.0	1	19.5	8.0	30.7	6.8				89.3	6.7	9.1	6.8	7.2	8.0		
								2	19.5	8.0	30.7	6.8	89.3				6.7	8.2						
		Middle					5.1	1	19.5	8.0	30.7	6.8	88.1	7.5	8.0									
								2	19.5	8.0	30.7	6.8	88.1	7.5	7.8									
				Bottom	9.1	1	19.6	8.0	30.7	6.8	88.6	7.5	7.3	6.8										
						2	19.6	8.0	30.7	6.8	88.7	7.5	7.8											
		TCE-WQM3A	Sunny	Calm	15:19	3.4	Surface	1.0	1	19.1	8.1	30.6	6.9				90.0	14.7	20.4	6.9	15.0	21.7		
								2	19.1	8.1	30.6	6.9	90.0				14.9	19.8						
		Bottom					2.4	1	19.1	8.1	30.6	7.0	90.0	15.2	23.9									
								2	19.1	8.1	30.6	7.0	90.0	15.2	22.6									
				TCE-WQM4	Sunny	Calm	15:07	3.4	Surface	1.0	1	19.0	8.1	30.5	7.2	93.3	7.9	9.6	7.2	8.0	9.9			
										2	19.0	8.1	30.5	7.2	93.4	7.9	8.9							
		Bottom	2.4	1					18.8	8.1	30.6	7.3	94.6	8.0	10.4									
				2					18.8	8.1	30.6	7.4	94.6	8.1	10.6									
		18-12-20	Mid-Flood	TCE-C1	Sunny	Rough	12:12	7.6	Surface	1.0	1	18.8	8.1	30.7	7.4	94.9	7.6	13.4	7.4	9.0	12.4			
											2	18.8	8.1	30.7	7.4	94.9	7.6	12.9						
									Middle	3.8	1	18.8	8.1	30.7	7.3	94.7	8.7	13.0						
											2	18.8	8.1	30.8	7.3	94.7	8.7	12.8						
						Bottom	6.6	1	18.8	8.1	30.8	7.3	94.4	10.7	11.1	7.3								
								2	18.8	8.1	30.8	7.3	94.4	10.9	11.4									
				TCE-C2	Sunny	Calm	9:35	11.4	Surface	1.0	1	19.4	8.0	30.7	6.8				88.8	7.3	6.4	6.8	8.3	7.7
										2	19.4	8.0	30.7	6.8	88.8				7.4	7.4				
				Middle					5.7	1	19.3	8.0	30.7	6.8	88.5	8.4	7.5							
										2	19.3	8.0	30.7	6.8	88.5	8.5	7.6							
				Bottom	10.4	1	19.3	8.0	30.7	6.8	88.4	9.1	8.3	6.8										
						2	19.3	8.0	30.7	6.8	88.4	9.0	9.1											
TCE-WQM1	Sunny			Calm	10:51	8.8	Surface	1.0	1	18.7	8.0	30.5	7.1				90.5	9.7	14.0	7.0	12.0	13.6		
								2	18.7	8.0	30.5	7.1	90.5				9.7	13.7						
Middle							4.4	1	18.5	8.1	30.5	7.0	89.6	12.7	13.8									
								2	18.5	8.1	30.5	7.0	89.5	12.7	13.2									
				Bottom	7.8	1	18.6	8.0	30.5	7.0	89.7	14.0	13.3	7.0										
						2	18.6	8.0	30.5	7.0	89.7	13.5	13.5											
TCE-WQM2a	Sunny			Moderate	10:15	7.0	Surface	1.0	1	18.9	8.0	30.5	7.1				91.5	13.2	16.0	7.1	15.2	15.9		
								2	18.9	8.0	30.5	7.1	91.5				13.2	16.8						
Middle							3.5	1	18.8	8.0	30.5	7.1	91.4	15.3	16.0									
								2	18.8	8.0	30.5	7.1	91.4	15.5	16.4									
				Bottom	6.0	1	18.8	8.0	30.5	7.1	91.2	17.0	15.4	7.1										
						2	18.8	8.0	30.5	7.1	91.2	17.1	15.0											
TCE-WQM2b	Sunny			Moderate	10:02	10.2	Surface	1.0	1	18.9	8.0	30.6	7.0				90.5	15.2	17.0	7.0	15.1	19.7		
								2	18.9	8.0	30.6	7.0	90.5				15.3	17.4						
Middle							5.1	1	18.9	8.0	30.6	7.0	90.4	15.2	19.5									
								2	18.9	8.0	30.6	7.0	90.4	15.1	18.2									
				Bottom	9.2	1	18.9	8.0	30.6	7.0	90.4	14.8	23.2	7.0										
						2	18.9	8.0	30.6	7.0	90.5	14.8	22.7											
TCE-WQM3A	Sunny			Calm	10:26	3.4	Surface	1.0	1	19.0	8.0	30.6	6.9				89.3	8.3	10.1	6.9	8.8	11.7		
								2	19.0	8.0	30.6	6.9	89.3				8.4	9.2						
Bottom							2.4	1	18.9	8.0	30.6	6.9	89.3	9.2	14.3									
								2	18.9	8.0	30.6	6.9	89.4	9.2	13.1									
				TCE-WQM4	Sunny	Calm	10:35	3.3	Surface	1.0	1	19.2	8.0	30.7	6.9	89.3	12.4	15.1	6.9	12.5	13.8			
										2	19.2	8.0	30.7	6.9	89.3	12.6	14.7							
Bottom	2.3			1					19.2	8.0	30.7	6.9	90.1	12.6	12.2									
				2					19.2	8.0	30.7	7.0	90.2	12.5	13.0									

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged										
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)								
21-12-20	Mid-Ebb	TCE-C1	Cloudy	Rough	6:34	8.3	Surface	1.0	1	17.6	8.2	31.0	7.9	97.2	11.2	14.0	7.8	11.7	14.5								
									2	17.6	8.2	31.0	7.8	97.2	11.2	14.4											
							Middle	4.2	1	17.6	8.2	31.0	7.8	97.4	11.3	14.3											
									2	17.6	8.2	31.0	7.8	97.4	11.4	14.5											
							Bottom	7.3	1	17.6	8.2	31.0	7.9	98.0	12.3	14.2											
									2	17.6	8.2	31.0	7.8	98.1	12.9	15.3											
		TCE-C2	Cloudy	Moderate	4:38	14.8	Surface	1.0	1	18.6	8.0	30.9	7.2	91.5	5.1	6.3	7.2	5.3	5.7								
									2	18.6	8.0	30.9	7.2	91.5	5.1	5.7											
							Middle	7.4	1	18.6	8.0	30.9	7.1	91.4	5.4	5.6											
									2	18.6	8.0	30.9	7.2	91.5	5.4	5.8											
							Bottom	13.8	1	18.6	8.0	30.9	7.2	91.4	5.3	5.3											
									2	18.6	8.0	30.9	7.2	91.4	5.3	5.6											
		TCE-WQM1	Cloudy	Moderate	5:52	8.4	Surface	1.0	1	17.4	8.0	30.7	7.7	94.9	6.6	7.6	7.7	7.3	7.5								
									2	17.4	8.0	30.7	7.6	95.0	6.7	8.3											
							Middle	4.2	1	17.4	8.0	30.7	7.8	95.9	7.5	7.3											
									2	17.4	8.0	30.7	7.8	96.1	7.6	8.3											
							Bottom	7.4	1	17.4	8.0	30.7	7.9	98.3	7.9	7.0											
									2	17.4	8.0	30.7	8.0	98.6	7.7	6.5											
		TCE-WQM2a	Cloudy	Moderate	5:17	7.6	Surface	1.0	1	18.4	8.0	30.8	7.2	92.5	4.5	4.3	7.3	6.4	4.3								
									2	18.4	8.0	30.8	7.2	92.5	4.5	3.4											
							Middle	3.8	1	18.1	8.0	30.8	7.3	92.9	5.7	4.7											
									2	18.1	8.0	30.8	7.3	93.0	6.0	4.3											
							Bottom	6.6	1	17.8	8.0	30.8	7.6	94.9	9.3	4.9											
									2	17.8	8.0	30.8	7.6	95.1	8.4	4.4											
		TCE-WQM2b	Cloudy	Moderate	5:02	11.2	Surface	1.0	1	18.4	8.1	30.9	7.2	92.5	5.6	6.0	7.2	6.5	6.3								
									2	18.4	8.1	30.9	7.2	92.5	5.7	5.8											
							Middle	5.6	1	18.3	8.1	30.9	7.3	92.7	6.5	6.3											
									2	18.3	8.1	30.9	7.3	92.7	6.6	6.4											
							Bottom	10.2	1	18.2	8.1	30.9	7.3	92.7	7.4	6.7											
									2	18.2	8.1	30.9	7.4	92.8	7.4	6.6											
		TCE-WQM3A	Cloudy	Moderate	5:28	4.2	Surface	1.0	1	17.9	8.1	30.7	7.2	91.7	13.5	16.0	7.2	13.8	14.9								
									2	17.9	8.1	30.7	7.3	91.8	13.5	15.3											
							Bottom	3.2	1	18.0	8.0	30.8	7.4	94.0	14.3	14.3											
									2	18.0	8.0	30.8	7.5	94.4	13.9	13.9											
							TCE-WQM4	Cloudy	Moderate	5:40	3.8	Surface	1.0	1	17.6	8.0				30.7	7.5	94.8	12.3	17.2	7.6	13.5	16.3
													2	17.6	8.0	30.7				7.6	94.9	12.5	17.7				
		Bottom	2.8	1	17.6	8.0	30.6					7.7	97.3	14.3	15.5												
				2	17.6	8.0	30.6					7.8	97.5	14.9	14.6												
		TCE-WQM3A	Cloudy	Moderate	5:40	3.8	Surface					1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5	16.3				
												2	17.6	8.0	30.7	7.6	94.9	12.5	17.7								
		Bottom					2.8	1	17.6	8.0	30.6	7.7	97.3	14.3	15.5												
								2	17.6	8.0	30.6	7.8	97.5	14.9	14.6												
		TCE-WQM3A					Cloudy	Moderate	5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2				7.6	13.5	16.3	
												2	17.6	8.0	30.7	7.6	94.9	12.5	17.7								
		Bottom	2.8	1	17.6	8.0					30.6	7.7	97.3	14.3	15.5												
				2	17.6	8.0					30.6	7.8	97.5	14.9	14.6												
		TCE-WQM3A	Cloudy	Moderate	5:40	3.8					Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5	16.3				
												2	17.6	8.0	30.7	7.6	94.9	12.5	17.7								
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2			7.6	13.5	16.3				
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2			7.6	13.5	16.3				
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2			7.6	13.5	16.3				
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2			7.6	13.5	16.3				
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2			7.6	13.5	16.3				
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2			7.6	13.5	16.3				
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom	2.8	1					17.6	8.0	30.6	7.7	97.3	14.3	15.5														
		2					17.6	8.0	30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A	Cloudy	Moderate					5:40	3.8	Surface	1.0	1	17.6	8.0	30.7	7.5	94.8	12.3	17.2	7.6	13.5				16.3			
										2	17.6	8.0	30.7	7.6	94.9	12.5	17.7										
Bottom			2.8	1	17.6	8.0			30.6	7.7	97.3	14.3	15.5														
				2	17.6	8.0			30.6	7.8	97.5	14.9	14.6														
TCE-WQM3A			Cloudy	Moderate	5:40	3.8			Surface	1.0	1	17.6	8.0	30.7	7.5												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
23-12-20	Mid-Ebb	TCE-C1	Cloudy	Calm	7:43	8.4	Surface	1.0	1	18.3	8.3	32.5	7.7	99.3	0.5	3.2	7.7	1.1	4.2					
									2	18.3	8.3	32.5	7.7	99.4	0.5	4.0								
							Middle	4.2	1	18.3	8.3	32.7	7.6	98.7	1.1	4.3								
									2	18.3	8.3	32.7	7.6	98.6	1.1	4.6								
				Bottom	7.4	1	18.4	8.3	32.9	7.6	98.3	1.6	4.3	7.6										
				2	18.4	8.3	32.9	7.6	98.6	1.5	4.9													
		TCE-C2	Cloudy	Calm	5:29	13.1	Surface	1.0	1	19.2	8.2	32.8	7.1				93.0	0.3	6.5	7.0	0.7	5.2		
									2	19.2	8.2	32.8	7.1				92.9	0.3	5.7					
							Middle	6.6	1	19.2	8.2	32.8	7.0	92.0	0.6	5.4								
									2	19.2	8.2	32.8	7.0	92.1	0.7	4.2								
				Bottom	12.1	1	19.2	8.2	32.8	7.0	91.6	1.1	4.3	7.0										
				2	19.2	8.2	32.8	7.0	91.5	1.2	5.0													
		TCE-WQM1	Cloudy	Calm	6:50	8.2	Surface	1.0	1	18.5	8.3	32.9	7.6				98.9	1.5	6.7	7.6	2.1	6.4		
									2	18.5	8.3	32.9	7.6				99.0	1.4	7.4					
							Middle	4.1	1	18.4	8.3	32.9	7.6	98.0	1.9	7.0								
									2	18.4	8.3	32.9	7.6	98.2	1.9	6.1								
				Bottom	7.2	1	18.3	8.3	32.9	7.6	98.3	2.8	5.4	7.6										
				2	18.3	8.3	32.9	7.6	98.4	2.9	6.0													
		TCE-WQM2a	Cloudy	Calm	6:11	7.1	Surface	1.0	1	18.9	8.3	32.8	7.4				96.7	1.7	4.2	7.4	2.3	5.6		
									2	18.9	8.3	32.8	7.4				96.7	1.7	5.0					
							Middle	3.6	1	18.9	8.3	32.8	7.4	96.7	1.9	4.7								
									2	18.9	8.3	32.8	7.4	96.4	2.0	5.6								
				Bottom	6.1	1	18.4	8.2	32.8	7.5	96.9	3.7	6.6	7.5										
				2	18.5	8.2	32.8	7.6	98.2	3.0	7.3													
		TCE-WQM2b	Cloudy	Calm	5:58	11.8	Surface	1.0	1	18.8	8.2	32.9	7.3				95.7	0.8	3.8	7.3	1.0	4.4		
									2	18.8	8.2	32.9	7.3				95.8	0.8	4.0					
							Middle	5.9	1	18.8	8.2	32.9	7.3	95.0	0.9	4.3								
									2	18.8	8.2	32.9	7.3	94.8	1.0	3.9								
				Bottom	10.8	1	18.8	8.2	32.9	7.3	95.1	1.1	4.6	7.3										
				2	18.8	8.2	32.9	7.3	95.1	1.2	5.6													
		TCE-WQM3A	Cloudy	Calm	6:27	4.3	Surface	1.0	1	19.1	8.3	32.6	7.2				94.7	6.5	7.8	7.2	7.4	7.2		
									2	19.1	8.3	32.6	7.2				94.6	6.5	8.7					
							Bottom	3.3	1	19.1	8.3	32.7	7.2	94.5	8.5	5.6								
									2	19.1	8.3	32.7	7.3	95.5	8.1	6.6								
		TCE-WQM4	Cloudy	Calm	6:38	3.5	Surface	1.0	1	18.6	8.2	32.8	7.4	96.7	3.2	7.4	7.4	5.2	6.4					
									2	18.6	8.2	32.8	7.4	96.8	3.5	6.5								
							Bottom	2.5	1	18.4	8.2	32.9	7.5	97.5	7.1	5.5								
									2	18.4	8.2	32.9	7.5	97.4	7.0	6.1								
		23-12-20	Mid-Flood	TCE-C1	Cloudy	Calm	13:09	8.1	Surface	1.0	1	18.4	8.3	32.6	7.7	99.0	0.6	2.5	7.6	1.5	4.1			
											2	18.4	8.3	32.6	7.7	99.0	0.7	3.4						
									Middle	4.1	1	18.4	8.3	32.8	7.6	98.4	1.5	3.9						
											2	18.4	8.3	32.8	7.6	98.5	1.7	5.0						
						Bottom	7.1	1	18.4	8.3	32.8	7.6	98.2	2.5	5.3	7.6								
						2	18.4	8.3	32.8	7.6	98.8	2.2	4.5											
				TCE-C2	Cloudy	Calm	15:15	13.2	Surface	1.0	1	19.3	8.2	32.6	7.1				93.3	0.5	3.1	7.1	0.7	3.8
											2	19.3	8.2	32.6	7.1				93.4	0.5	3.0			
									Middle	6.6	1	19.3	8.2	32.6	7.1	93.1	0.9	3.3						
											2	19.3	8.2	32.6	7.1	92.7	1.0	4.2						
				Bottom	12.2	1	19.3	8.2	32.6	7.1	92.8	0.6	4.5	7.1										
				2	19.3	8.2	32.6	7.1	92.7	0.6	4.9													
TCE-WQM1	Cloudy			Calm	14:44	8.2	Surface	1.0	1	18.8	8.2	32.9	7.6				99.7	2.4	6.2	7.7	2.7	6.5		
									2	18.8	8.2	32.9	7.6				99.7	2.4	5.5					
							Middle	4.1	1	18.5	8.3	32.9	7.7	99.8	2.5	6.5								
									2	18.5	8.3	32.9	7.7	99.9	2.7	5.8								
				Bottom	7.2	1	18.4	8.3	32.9	7.7	99.7	3.2	7.4	7.7										
				2	18.4	8.3	32.9	7.7	99.5	3.2	7.4													
TCE-WQM2a	Cloudy			Calm	14:27	7.2	Surface	1.0	1	19.6	8.2	32.7	7.3				97.1	-0.2	3.2	7.3	0.5	4.1		
									2	19.6	8.2	32.7	7.3				97.1	-0.2	4.0					
							Middle	3.6	1	19.2	8.2	32.8	7.3	96.4	0.5	3.2								
									2	19.2	8.2	32.8	7.3	96.5	0.5	4.3								
				Bottom	6.2	1	19.2	8.2	32.8	7.4	97.1	1.1	4.7	7.4										
				2	19.2	8.2	32.8	7.4	97.2	1.1	5.3													
TCE-WQM2b	Cloudy			Calm	14:40	11.4	Surface	1.0	1	19.2	8.2	32.8	7.2				94.9	1.6	5.3	7.2	1.7	6.3		
									2	19.2	8.2	32.7	7.2				95.0	1.4	6.0					
							Middle	5.7	1	19.2	8.2	32.8	7.2	94.5	1.6	6.4								
									2	19.2	8.2	32.8	7.2	94.4	1.6	5.8								
				Bottom	10.4	1	19.2	8.2	32.8	7.2	94.5	2.2	6.6	7.2										
				2	19.2	8.2	32.8	7.2	94.8	1.9	7.4													
TCE-WQM3A	Cloudy			Calm	14:16	4.4	Surface	1.0	1	19.5	8.3	32.7	7.2				95.6	4.5	7.8	7.2	5.1	8.1		
									2	19.5	8.3	32.7	7.2				95.7	4.6	8.6					
							Bottom	3.4	1	19.4	8.4	32.7	7.3	96.4	5.7	7.9								
									2	19.4	8.4	32.7	7.3	96.7	5.5	7.9								
TCE-WQM4	Cloudy			Calm	13:58	3.6	Surface	1.0	1	19.2	8.3	32.8	7.3	96.1	4.2	9.8	7.3	4.1	9.7					
									2	19.2	8.3	32.8	7.3	96.1	4.2	10.3								
							Bottom	2.6	1	19.2	8.3	32.8	7.4	96.9	4.1	9.5								
									2	19.2	8.3	32.8	7.4	97.4	3.8	9.3								

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
25-12-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	10:17	8.0	Surface	1.0	1	18.0	8.1	29.6	7.8	98.3	4.4	2.2	7.7	6.6	2.6		
									2	18.0	8.1	29.6	7.8	98.2	5.0	3.4					
							Middle	4.0	1	18.3	8.1	30.5	7.6	97.3	6.7	2.1					
							Bottom	7.0	1	18.3	8.1	30.5	7.6	97.3	7.0	3.0					
						2	18.3	8.1	30.5	7.6	96.6	8.5	2.9	7.6							
		TCE-C2	Cloudy	Moderate	8:11	12.6	Surface	1.0	1	18.8	8.1	30.8	7.0	90.5	3.7	2.0	7.0	3.9	3.0		
									2	18.8	8.1	30.8	7.0	90.5	3.7	2.8					
							Middle	6.3	1	18.8	8.1	30.8	7.0	90.4	3.9	2.4					
							Bottom	11.6	1	18.8	8.1	30.8	7.0	90.3	4.1	3.6					
						2	18.8	8.1	30.8	7.0	90.3	4.1	4.2	7.0							
		TCE-WQM1	Cloudy	Moderate	9:31	8.5	Surface	1.0	1	18.4	8.1	30.7	7.5	96.6	5.6	4.0	7.5	7.4	4.3		
									2	18.5	8.1	30.7	7.5	96.5	5.6	3.8					
							Middle	4.3	1	18.5	8.1	30.7	7.5	96.4	6.5	3.8					
							Bottom	7.5	1	18.5	8.0	30.7	7.5	96.0	9.8	4.6					
						2	18.5	8.0	30.6	7.5	96.0	10.2	4.8	7.5							
		TCE-WQM2a	Cloudy	Moderate	8:54	7.2	Surface	1.0	1	18.5	8.0	30.5	7.4	94.8	4.7	3.6	7.4	5.6	3.7		
									2	18.5	8.0	30.5	7.4	94.8	4.7	3.8					
							Middle	3.6	1	18.5	8.0	30.5	7.4	94.3	5.6	3.7					
							Bottom	6.2	1	18.5	8.0	30.6	7.4	94.3	5.7	3.8					
						2	18.5	8.0	30.6	7.4	94.5	6.8	3.2	7.4							
		TCE-WQM2b	Cloudy	Moderate	8:40	11.2	Surface	1.0	1	18.5	8.0	30.7	7.2	92.8	4.8	3.2	7.2	5.3	4.2		
									2	18.6	8.0	30.7	7.2	92.7	4.8	3.8					
							Middle	5.6	1	18.6	8.0	30.7	7.2	92.4	5.0	4.2					
							Bottom	10.2	1	18.6	8.0	30.7	7.2	92.4	5.2	4.1					
						2	18.6	8.0	30.8	7.2	92.9	6.1	4.4	7.2							
		TCE-WQM3A	Cloudy	Moderate	9:06	4.0	Surface	1.0	1	18.9	8.1	30.7	7.2	93.4	5.6	5.0	7.2	5.8	5.0		
									2	18.9	8.1	30.7	7.2	93.5	5.7	5.8					
							Bottom	3.0	1	18.9	8.1	30.7	7.3	94.1	5.9	4.4					
									2	18.9	8.1	30.7	7.3	94.2	5.9	4.9					
						2	18.9	8.1	30.7	7.3	94.2	5.9	4.9	7.3							
		TCE-WQM4	Cloudy	Moderate	9:18	3.5	Surface	1.0	1	18.7	8.1	30.8	7.4	95.5	13.2	6.9	7.4	12.7	6.2		
									2	18.7	8.1	30.8	7.4	95.5	13.4	7.6					
							Bottom	2.5	1	18.7	8.1	30.8	7.4	95.4	12.5	4.7					
									2	18.7	8.1	30.8	7.4	95.4	11.7	5.5					
						2	18.7	8.1	30.8	7.4	95.4	11.7	5.5	7.4							
		25-12-20	Mid-Flood	TCE-C1	Cloudy	Moderate	14:10	8.1	Surface	1.0	1	18.1	8.1	29.8	7.7	97.8	4.2	2.2	7.7	7.4	3.1
											2	18.1	8.1	29.8	7.7	97.7	4.2	3.0			
									Middle	4.1	1	18.3	8.1	30.4	7.6	97.1	8.3	3.0			
									Bottom	7.1	1	18.3	8.1	30.5	7.6	97.0	9.4	3.5			
								2	18.3	8.1	30.4	7.6	97.1	9.6	4.0	7.6					
				TCE-C2	Cloudy	Moderate	16:30	12.6	Surface	1.0	1	18.8	8.0	30.5	7.1	91.1	3.7	2.1	7.1	4.2	2.7
											2	18.8	8.0	30.5	7.1	91.0	3.7	2.3			
									Middle	6.3	1	18.8	8.1	30.5	7.1	90.9	4.3	2.9			
									Bottom	11.6	1	18.8	8.1	30.5	7.1	91.0	4.3	2.4			
								2	18.8	8.1	30.5	7.1	91.5	4.5	3.0	7.1					
								2	18.8	8.1	30.5	7.1	91.6	4.6	3.3						
				TCE-WQM1	Cloudy	Moderate	15:11	7.8	Surface	1.0	1	18.5	8.1	30.6	7.6	96.7	6.3	5.6	7.5	7.3	6.3
											2	18.5	8.1	30.6	7.6	96.7	6.6	6.0			
Middle	3.9								1	18.5	8.1	30.6	7.5	96.5	7.7	6.1					
Bottom	6.8								1	18.5	8.1	30.6	7.5	96.5	7.8	6.2					
						2	18.5	8.1	30.6	7.5	96.3	7.6	6.8	7.5							
						2	18.5	8.1	30.6	7.5	96.3	7.7	7.0								
TCE-WQM2a	Cloudy			Moderate	15:48	7.2	Surface	1.0	1	18.6	8.1	30.4	7.5	95.4	5.8	6.1	7.4	8.1	5.5		
									2	18.6	8.1	30.4	7.5	95.4	5.8	5.5					
							Middle	3.6	1	18.6	8.1	30.5	7.4	95.2	8.8	6.0					
							Bottom	6.2	1	18.6	8.1	30.5	7.4	95.2	9.1	5.6					
						2	18.7	8.1	30.5	7.4	95.6	9.3	4.4	7.4							
						2	18.7	8.1	30.5	7.5	95.7	9.9	5.3								
TCE-WQM2b	Cloudy			Moderate	16:00	11.4	Surface	1.0	1	18.7	8.1	30.6	7.3	93.9	3.8	2.8	7.3	5.5	3.6		
									2	18.7	8.1	30.6	7.3	93.9	3.9	2.9					
							Middle	5.7	1	18.6	8.1	30.6	7.3	93.6	4.9	4.1					
							Bottom	10.4	1	18.6	8.1	30.6	7.3	93.6	5.0	3.3					
						2	18.6	8.1	30.6	7.3	94.0	7.9	3.9	7.3							
						2	18.6	8.1	30.6	7.3	94.1	7.8	4.8								
TCE-WQM3A	Cloudy			Moderate	15:36	3.8	Surface	1.0	1	19.0	8.1	30.6	7.3	93.9	6.3	4.4	7.3	6.4	5.0		
									2	19.0	8.1	30.6	7.3	93.9	6.4	4.8					
							Bottom	2.8	1	18.9	8.1	30.6	7.3	94.1	6.4	5.7					
									2	18.9	8.1	30.6	7.3	94.2	6.4	5.1					
						2	18.9	8.1	30.6	7.3	94.2	6.4	5.1	7.3							
TCE-WQM4	Cloudy			Moderate	15:24	3.2	Surface	1.0	1	18.8	8.1	30.7	7.4	95.8	7.6	8.3	7.4	8.0	7.2		
									2	18.8	8.1	30.7	7.4	95.7	7.7	7.4					
							Bottom	2.2	1	18.8	8.1	30.7	7.5	95.9	8.2	6.2					
									2	18.8	8.1	30.7	7.5	96.0	8.3	7.0					
						2	18.8	8.1	30.7	7.5	96.0	8.3	7.0	7.5							

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
28-12-20	Mid-Ebb	TCE-C1	Cloudy	Calm	10:13	8.2	Surface	1.0	1	18.7	8.2	28.9	8.0	101.6	5.4	4.2	7.8	9.1	4.3					
									2	18.7	8.2	28.9	8.0	101.5	5.4	4.0								
							Middle	4.1	1	18.7	8.2	30.1	7.6	97.4	10.4	4.2								
									2	18.7	8.2	30.1	7.6	97.3	10.5	4.1								
				Bottom	7.2	1	18.7	8.2	30.1	7.6	97.5	11.3	4.5	7.6										
						2	18.7	8.2	30.1	7.6	97.5	11.3	4.9											
		TCE-C2	Cloudy	Calm	12:20	13.3	Surface	1.0	1	19.1	8.1	30.4	7.3				94.6	4.3	4.3	7.1	4.6	4.0		
									2	19.1	8.1	30.4	7.3				94.6	4.4	4.4					
							Middle	6.7	1	18.9	8.1	30.6	7.0	89.9	4.5	4.1								
									2	18.9	8.1	30.6	7.0	89.9	4.5	4.0								
				Bottom	12.3	1	18.9	8.1	30.6	7.0	90.7	5.0	3.6	7.0										
						2	18.9	8.1	30.6	7.0	90.7	5.0	3.5											
		TCE-WQM1	Cloudy	Moderate	10:55	8.4	Surface	1.0	1	19.1	8.1	30.2	7.7				99.5	5.5	5.5	7.7	5.5	6.5		
									2	19.1	8.1	30.2	7.7				99.5	5.6	5.3					
							Middle	4.2	1	19.1	8.2	30.2	7.7	98.9	5.4	6.8								
									2	19.1	8.2	30.2	7.7	98.9	5.4	6.7								
				Bottom	7.4	1	19.1	8.2	30.2	7.6	98.4	5.5	7.4	7.6										
						2	19.1	8.2	30.2	7.6	98.4	5.5	7.3											
		TCE-WQM2a	Cloudy	Calm	11:36	7.2	Surface	1.0	1	19.0	8.1	30.1	7.8				100.7	6.8	10.4	7.8	7.6	10.0		
									2	19.0	8.1	30.1	7.8				100.7	6.8	10.4					
							Middle	3.6	1	18.9	8.1	30.1	7.7	99.4	7.2	10.4								
									2	18.9	8.1	30.1	7.7	99.4	7.2	9.8								
				Bottom	6.2	1	18.8	8.1	30.2	7.7	98.8	8.8	9.3	7.7										
						2	18.8	8.1	30.2	7.7	98.9	8.9	8.9											
		TCE-WQM2b	Cloudy	Calm	11:49	11.4	Surface	1.0	1	19.0	8.1	30.2	7.7				99.8	4.3	5.0	7.6	4.8	6.1		
									2	19.0	8.1	30.2	7.7				99.8	4.4	5.5					
							Middle	5.7	1	18.9	8.1	30.3	7.5	97.0	4.8	5.5								
									2	18.9	8.1	30.3	7.5	97.0	4.9	6.0								
				Bottom	10.4	1	18.8	8.1	30.3	7.6	97.4	5.2	7.0	7.6										
						2	18.8	8.1	30.3	7.6	97.4	5.2	7.6											
		TCE-WQM3A	Cloudy	Calm	11:23	4.3	Surface	1.0	1	19.0	8.1	30.1	7.9				101.4	17.2	27.0	7.9	20.8	30.4		
									2	19.0	8.1	30.1	7.9				101.3	17.2	26.2					
							Bottom	3.3	1	18.9	8.1	30.1	7.7	99.3	24.4	33.9								
									2	18.9	8.1	30.1	7.7	99.3	24.4	34.3								
		TCE-WQM4	Cloudy	Calm	11:10	3.7	Surface	1.0	1	19.1	8.1	30.5	7.7	99.7	7.0	6.8	7.7	7.2	7.2					
									2	19.1	8.1	30.5	7.7	99.6	7.0	6.9								
							Bottom	2.7	1	19.1	8.1	30.5	7.7	99.0	7.3	7.6								
									2	19.1	8.1	30.5	7.6	98.9	7.3	7.3								
		28-12-20	Mid-Flood	TCE-C1	Cloudy	Calm	8:15	8.0	Surface	1.0	1	18.7	8.2	29.7	7.7	98.3	10.2	3.4	7.7	11.5	4.4			
											2	18.7	8.2	29.7	7.7	98.3	10.4	3.2						
									Middle	4.0	1	18.7	8.2	29.9	7.7	97.8	11.0	4.6						
											2	18.7	8.2	29.9	7.6	97.8	11.4	4.9						
						Bottom	7.0	1	18.6	8.2	30.0	7.6	97.2	12.9	5.4	7.6								
								2	18.6	8.2	30.0	7.6	97.2	13.0	5.0									
				TCE-C2	Cloudy	Calm	6:08	13.2	Surface	1.0	1	18.8	8.0	30.6	7.5				96.2	5.6	4.3	7.4	6.4	4.0
											2	18.8	8.0	30.6	7.5				96.2	5.6	4.3			
									Middle	6.6	1	18.8	8.0	30.6	7.4	95.4	6.1	3.9						
											2	18.8	8.0	30.6	7.4	95.4	6.1	3.9						
				Bottom	12.2	1	18.9	8.0	30.8	7.3	94.1	7.4	3.7	7.3										
						2	18.9	8.0	30.8	7.3	94.2	7.4	3.9											
TCE-WQM1	Cloudy			Calm	7:26	8.2	Surface	1.0	1	19.0	8.1	30.5	7.5				96.4	4.7	5.0	7.4	4.7	3.7		
									2	19.0	8.1	30.5	7.5				96.4	4.7	4.7					
							Middle	4.1	1	18.9	8.1	30.5	7.4	95.7	4.7	3.2								
									2	18.9	8.1	30.5	7.4	95.7	4.7	3.6								
				Bottom	7.2	1	18.9	8.1	30.5	7.4	95.3	4.7	3.0	7.4										
						2	18.9	8.1	30.5	7.4	95.3	4.7	2.5											
TCE-WQM2a	Cloudy			Calm	6:50	7.1	Surface	1.0	1	18.8	8.1	30.2	7.7				98.8	4.8	3.7	7.7	5.2	4.2		
									2	18.8	8.1	30.2	7.7				98.8	4.8	3.5					
							Middle	3.6	1	18.8	8.1	30.4	7.6	98.0	5.2	4.3								
									2	18.8	8.1	30.4	7.6	98.0	5.2	4.6								
				Bottom	6.1	1	18.9	8.2	30.5	7.6	98.0	5.5	4.7	7.6										
						2	18.9	8.2	30.5	7.6	98.0	5.5	4.6											
TCE-WQM2b	Cloudy			Calm	6:36	11.3	Surface	1.0	1	18.8	8.1	30.3	7.6				97.6	6.6	7.1	7.6	7.2	6.0		
									2	18.8	8.1	30.3	7.6				97.6	6.7	7.0					
							Middle	5.7	1	18.8	8.1	30.4	7.6	97.2	7.3	5.8								
									2	18.8	8.1	30.4	7.6	97.2	7.2	5.6								
				Bottom	10.3	1	18.8	8.2	30.4	7.5	96.6	7.7	5.3	7.5										
						2	18.8	8.2	30.4	7.5	96.6	7.6	5.0											
TCE-WQM3A	Cloudy			Calm	7:02	4.4	Surface	1.0	1	18.8	8.1	30.6	7.4				95.6	4.7	4.4	7.4	4.6	3.8		
									2	18.8	8.1	30.6	7.4				95.5	4.7	3.9					
							Bottom	3.4	1	18.9	8.1	30.6	7.4	95.0	4.5	3.3								
									2	18.9	8.1	30.6	7.4	95.0	4.4	3.7								
TCE-WQM4	Cloudy			Calm	7:13	3.8	Surface	1.0	1	18.8	8.1	30.5	7.5	97.0	5.9	4.0	7.5	6.0	6.3					
									2	18.8	8.1	30.5	7.5	97.0	5.9	4.4								
							Bottom	2.8	1	18.8	8.1	30.5	7.5	95.9	6.1	8.6								
									2	18.8	8.1	30.5	7.5	95.9	6.1	8.1								

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
30-12-20	Mid-Ebb	TCE-C1	Cloudy	Rough	11:27	8.2	Surface	1.0	1	18.5	8.1	29.6	7.7	98.5	18.7	32.6	7.7	20.9	30.1		
									2	18.5	8.1	29.6	7.7	98.5	18.8	33.2					
							Middle	4.1	1	18.5	8.1	29.6	7.7	98.3	19.9	31.0					
							Bottom	7.2	1	18.5	8.1	29.6	7.7	98.4	23.3	26.7					
						2	18.5	8.1	29.6	7.7	98.4	23.4	26.6	7.7							
		TCE-C2	Cloudy	Rough	13:40	13.4	Surface	1.0	1	19.1	8.1	30.1	7.2	92.4	4.1	6.0	7.1	4.7	5.1		
									2	19.1	8.1	30.1	7.2	92.3	4.1	5.6					
							Middle	6.7	1	19.0	8.1	30.2	7.0	90.3	4.6	4.6					
							Bottom	12.4	1	19.0	8.1	30.2	7.0	90.3	4.7	5.0					
						2	19.0	8.1	30.2	7.0	90.4	5.3	4.7	7.0							
						2	19.0	8.1	30.2	7.0	90.5	5.3	4.6	7.0							
		TCE-WQM1	Cloudy	Moderate	12:17	8.3	Surface	1.0	1	18.8	8.2	29.9	7.7	98.1	5.9	8.7	7.7	6.2	9.0		
									2	18.8	8.2	29.9	7.7	98.1	5.9	8.8					
							Middle	4.2	1	18.8	8.2	29.9	7.7	98.2	6.3	8.9					
							Bottom	7.3	1	18.8	8.2	29.9	7.7	98.2	6.3	8.8					
						2	18.8	8.2	29.9	7.7	98.5	6.3	9.4	7.7							
						2	18.8	8.2	29.9	7.7	98.6	6.3	9.1	7.7							
		TCE-WQM2a	Cloudy	Moderate	12:56	7.0	Surface	1.0	1	19.0	8.1	29.4	7.8	100.6	6.2	8.3	7.8	6.6	9.2		
									2	19.0	8.1	29.4	7.8	100.6	6.2	7.8					
							Middle	3.5	1	19.0	8.1	29.4	7.8	100.5	6.0	8.6					
							Bottom	6.0	1	18.9	8.1	29.4	7.8	100.0	7.6	10.6					
						2	18.9	8.1	29.4	7.8	100.0	7.7	10.9	7.8							
		TCE-WQM2b	Cloudy	Moderate	13:10	10.8	Surface	1.0	1	19.1	8.1	29.8	7.4	95.9	6.4	8.0	7.4	6.7	7.1		
									2	19.1	8.1	29.8	7.4	95.8	6.4	8.5					
							Middle	5.4	1	19.1	8.1	29.9	7.4	95.5	6.6	7.1					
							Bottom	9.8	1	19.1	8.1	29.9	7.4	95.5	6.7	6.9					
						2	19.1	8.1	29.9	7.4	95.8	7.1	6.2	7.4							
						2	19.1	8.1	29.9	7.4	95.8	7.0	5.9	7.4							
		TCE-WQM3A	Cloudy	Moderate	12:43	4.3	Surface	1.0	1	18.8	8.1	29.6	7.7	99.0	13.6	22.0	7.7	13.9	20.3		
									2	18.8	8.1	29.6	7.7	99.0	13.7	21.5					
							Bottom	3.3	1	18.8	8.1	29.6	7.8	99.6	14.2	18.6					
									2	18.8	8.1	29.6	7.8	99.7	14.2	18.9					
		TCE-WQM4	Cloudy	Moderate	12:30	3.5	Surface	1.0	1	18.9	8.2	29.7	7.8	99.9	9.6	11.5	7.8	9.8	10.4		
									2	18.9	8.2	29.7	7.8	99.9	9.7	11.2					
							Bottom	2.5	1	18.9	8.2	29.8	7.8	100.0	9.9	9.5					
									2	18.9	8.2	29.8	7.8	100.0	9.9	9.2					
		30-12-20	Mid-Flood	TCE-C1	Cloudy	Rough	9:19	8.3	Surface	1.0	1	18.5	8.1	29.6	7.7	98.5	20.6	31.8	7.7	22.6	33.5
											2	18.5	8.1	29.6	7.7	98.5	20.6	32.2			
									Middle	4.2	1	18.5	8.2	29.6	7.7	98.3	21.4	33.2			
									Bottom	7.3	1	18.5	8.2	29.6	7.7	98.3	21.7	33.5			
								2	18.5	8.2	29.6	7.7	98.3	25.6	34.8	7.7					
								2	18.5	8.2	29.6	7.7	98.3	25.9	35.4	7.7					
				TCE-C2	Cloudy	Moderate	7:07	13.2	Surface	1.0	1	19.0	8.0	29.8	7.4	94.7	6.5	6.5	7.3	9.6	8.0
											2	19.0	8.0	29.8	7.4	94.6	6.5	6.9			
									Middle	6.6	1	19.1	8.0	30.0	7.3	93.5	10.5	7.8			
									Bottom	12.2	1	19.1	8.0	30.0	7.3	93.5	10.8	8.0			
								2	19.1	7.9	30.0	7.3	93.8	11.9	9.8	7.3					
								2	19.1	7.9	30.0	7.3	93.8	11.6	8.8	7.3					
TCE-WQM1	Cloudy			Moderate	8:25	8.2	Surface	1.0	1	18.9	8.1	29.9	7.6	97.8	6.5	5.7	7.6	6.5	6.6		
									2	18.9	8.1	29.9	7.6	97.8	6.5	5.8					
							Middle	4.1	1	18.8	8.1	29.9	7.6	97.9	6.6	6.9					
							Bottom	7.2	1	18.8	8.1	29.9	7.6	98.0	6.6	6.8					
						2	18.8	8.1	29.9	7.7	98.3	6.6	7.3	7.7							
						2	18.8	8.1	29.9	7.7	98.3	6.6	7.3	7.7							
TCE-WQM2a	Cloudy			Moderate	7:46	6.7	Surface	1.0	1	18.9	8.1	29.4	7.7	98.3	7.9	9.0	7.7	7.6	9.9		
									2	18.9	8.1	29.4	7.7	98.3	7.9	9.4					
							Middle	3.4	1	18.9	8.1	29.4	7.7	98.1	8.5	9.8					
							Bottom	5.7	1	18.9	8.1	29.4	7.7	98.1	8.5	9.5					
						2	18.9	8.0	29.4	7.7	98.3	6.8	11.0	7.7							
						2	18.9	8.0	29.4	7.7	98.3	6.1	10.5	7.7							
TCE-WQM2b	Cloudy			Moderate	7:32	10.3	Surface	1.0	1	19.0	8.1	29.3	7.6	97.6	9.2	9.7	7.6	11.4	11.0		
									2	19.0	8.1	29.3	7.6	97.5	9.3	9.4					
							Middle	5.2	1	19.0	8.1	29.3	7.6	97.2	11.5	10.1					
							Bottom	9.3	1	19.0	8.1	29.3	7.6	97.2	11.7	10.7					
						2	19.0	8.1	29.3	7.6	97.2	13.4	13.4	7.6							
						2	19.0	8.1	29.3	7.6	97.2	13.4	12.9	7.6							
TCE-WQM3A	Cloudy			Moderate	8:00	4.5	Surface	1.0	1	18.7	8.1	29.7	7.7	97.9	9.7	11.3	7.7	10.0	11.8		
									2	18.7	8.1	29.7	7.7	97.9	9.7	11.2					
							Bottom	3.5	1	18.7	8.1	29.7	7.7	98.3	10.2	12.2					
									2	18.7	8.1	29.7	7.7	98.4	10.2	12.6					
						2	18.7	8.1	29.7	7.7	98.4	10.2	12.6	7.7							
TCE-WQM4	Cloudy			Moderate	8:10	3.7	Surface	1.0	1	18.7	8.1	29.6	7.7	98.6	8.0	11.1	7.7	8.2	10.5		
									2	18.7	8.1	29.6	7.7	98.7	8.0	11.4					
							Bottom	2.7	1	18.7	8.1	29.7	7.7	98.9	8.5	9.9					
									2	18.7	8.1	29.7	7.7	99.0	8.3	9.4					