

Annex G3

## Monitoring Results for Water Quality

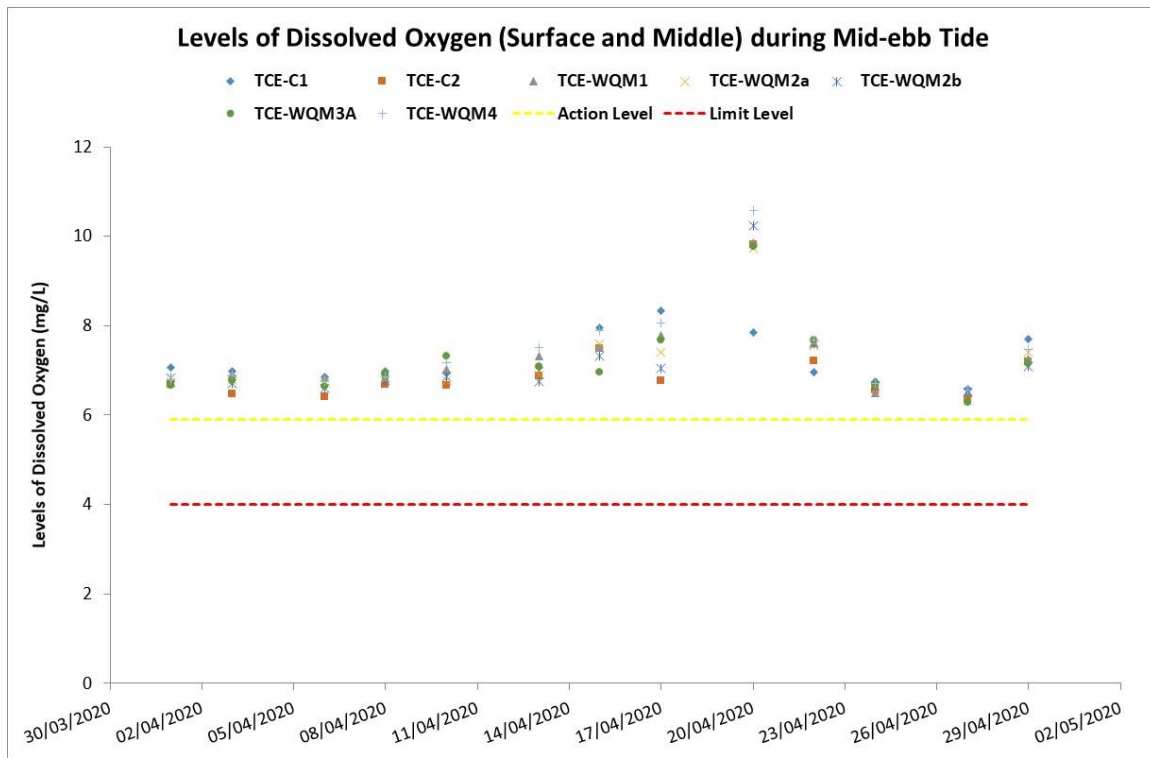


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 April 2020

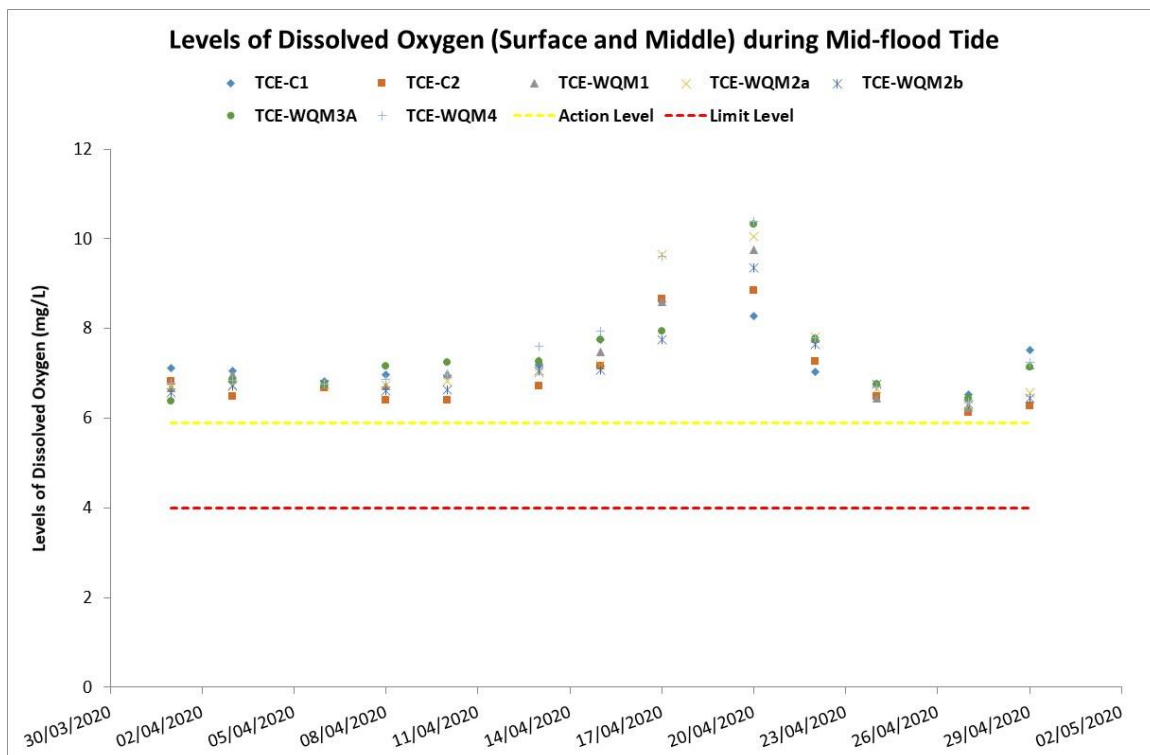


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 April 2020

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

**Environmental  
 Resources  
 Management**



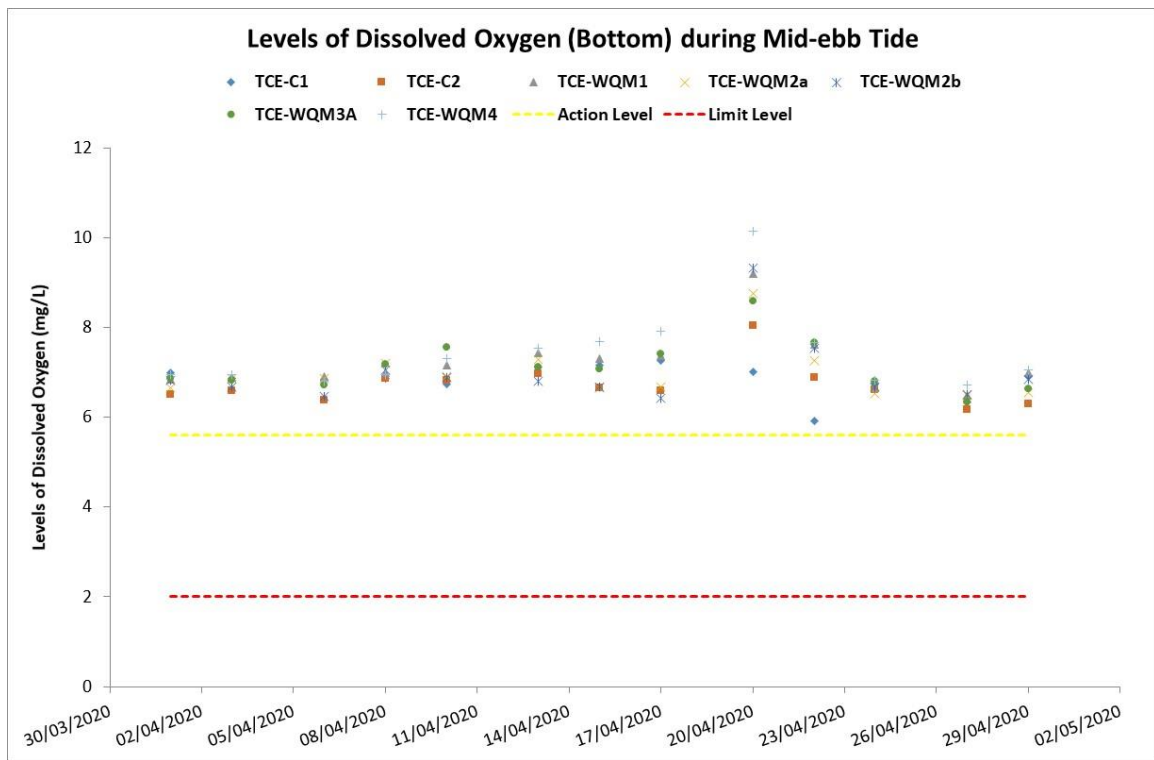


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 April 2020

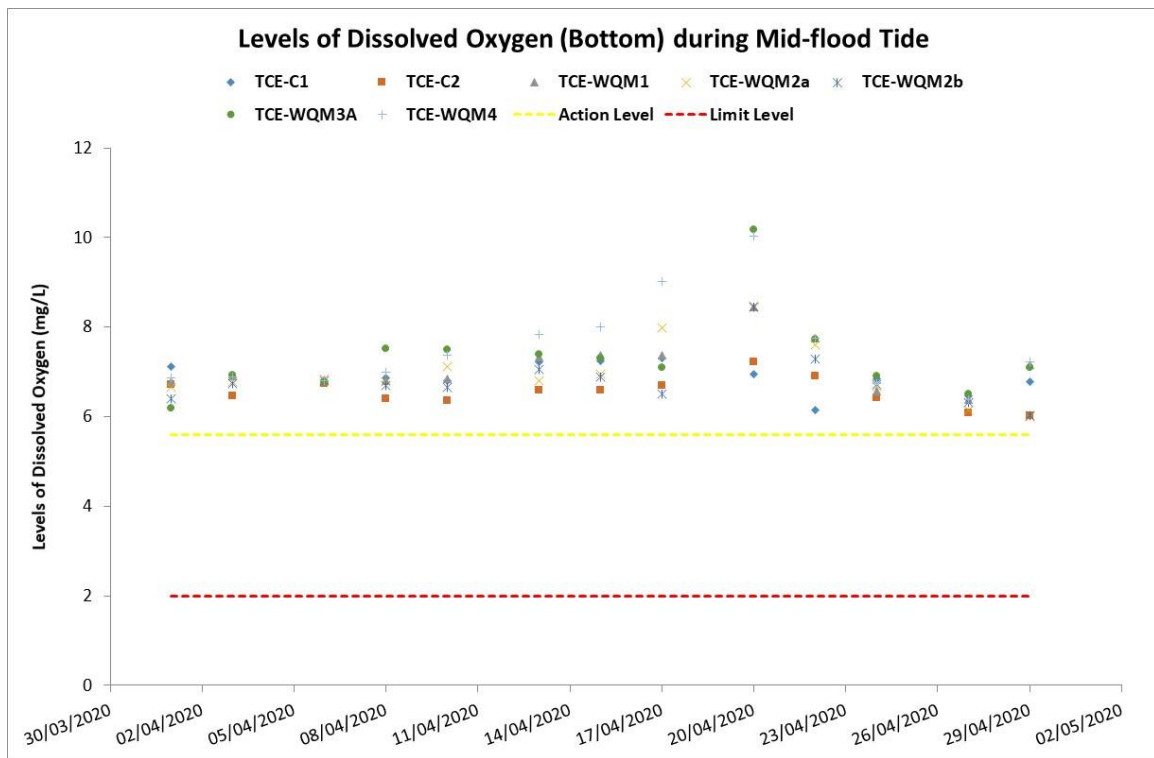


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 April 2020

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

**Environmental  
 Resources  
 Management**



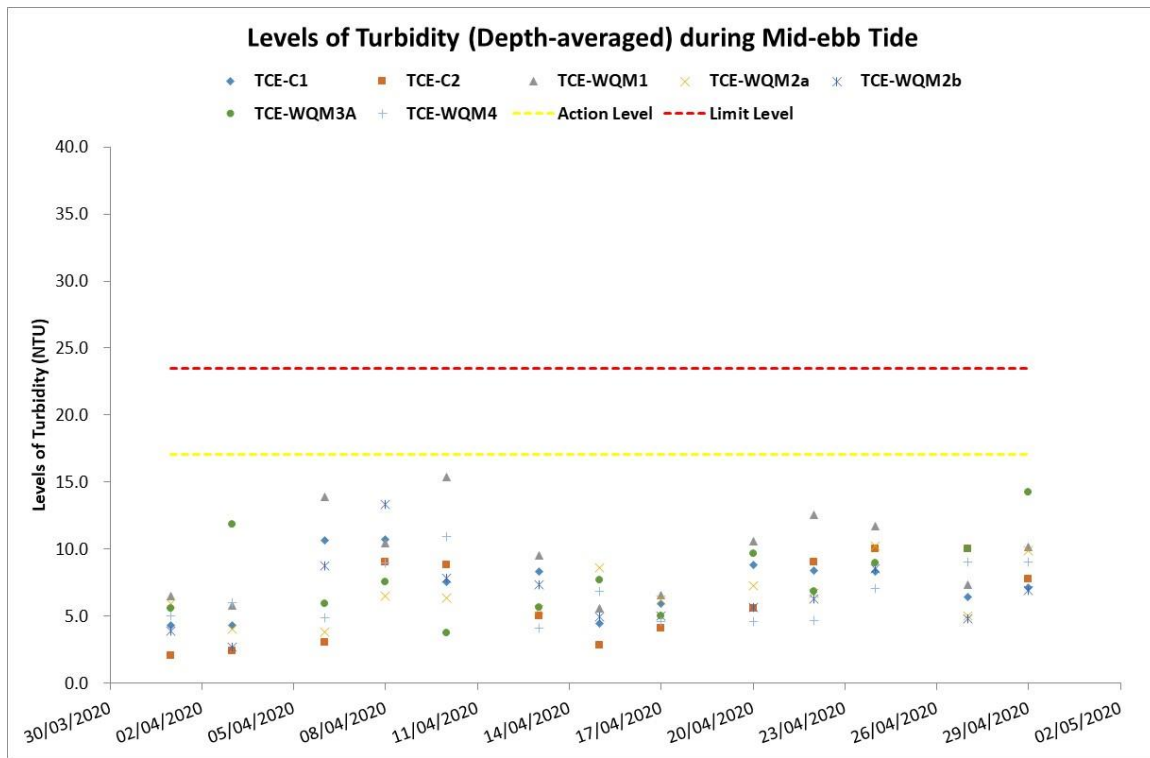


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 April 2020

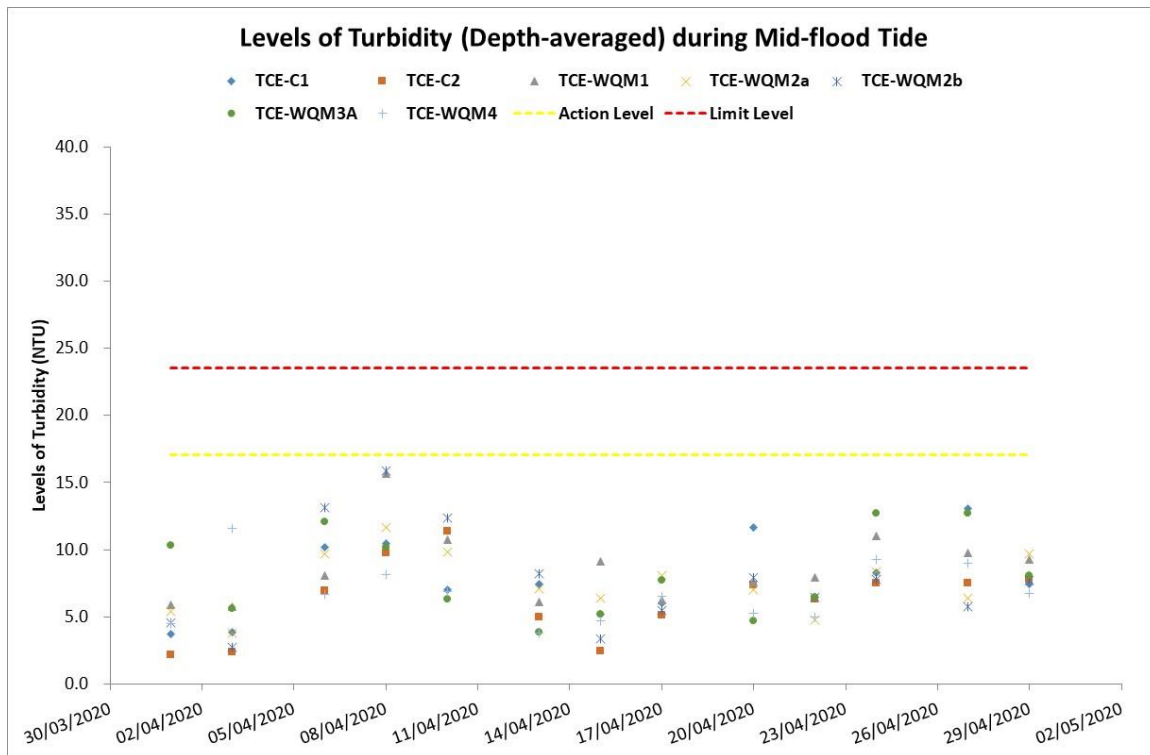


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 April 2020

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

Date: April 2020

**Environmental  
Resources  
Management**



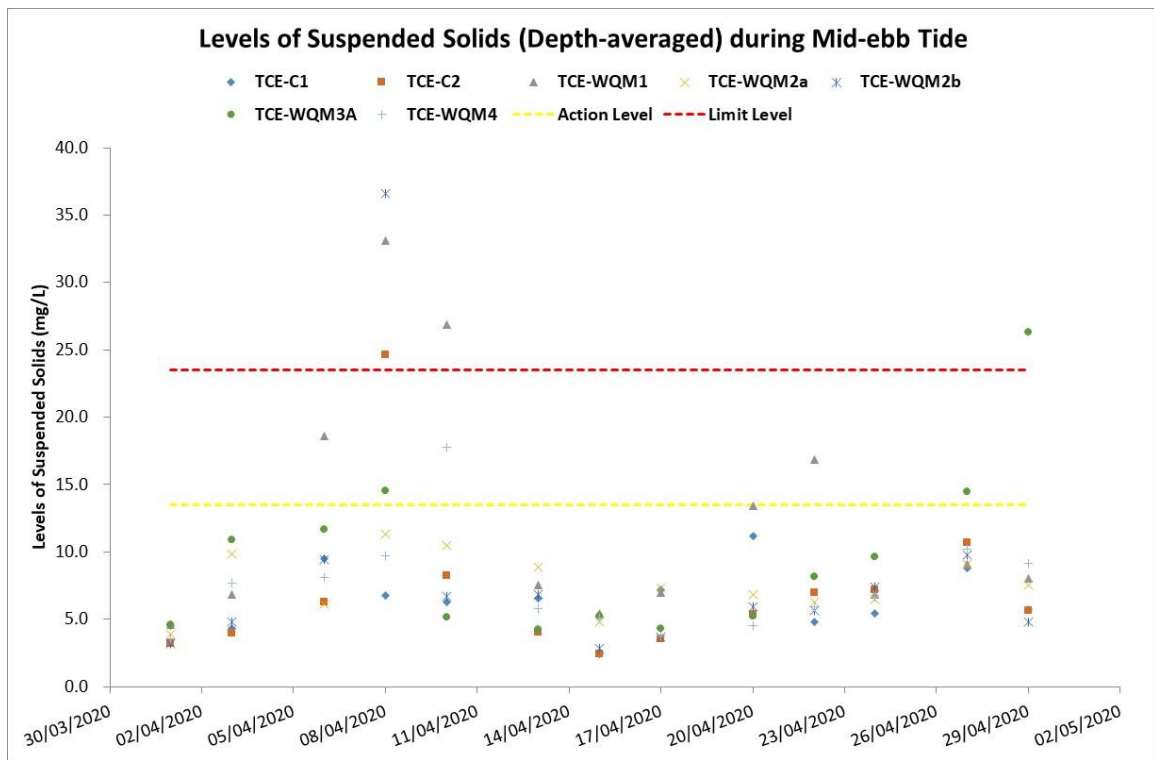


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 April 2020

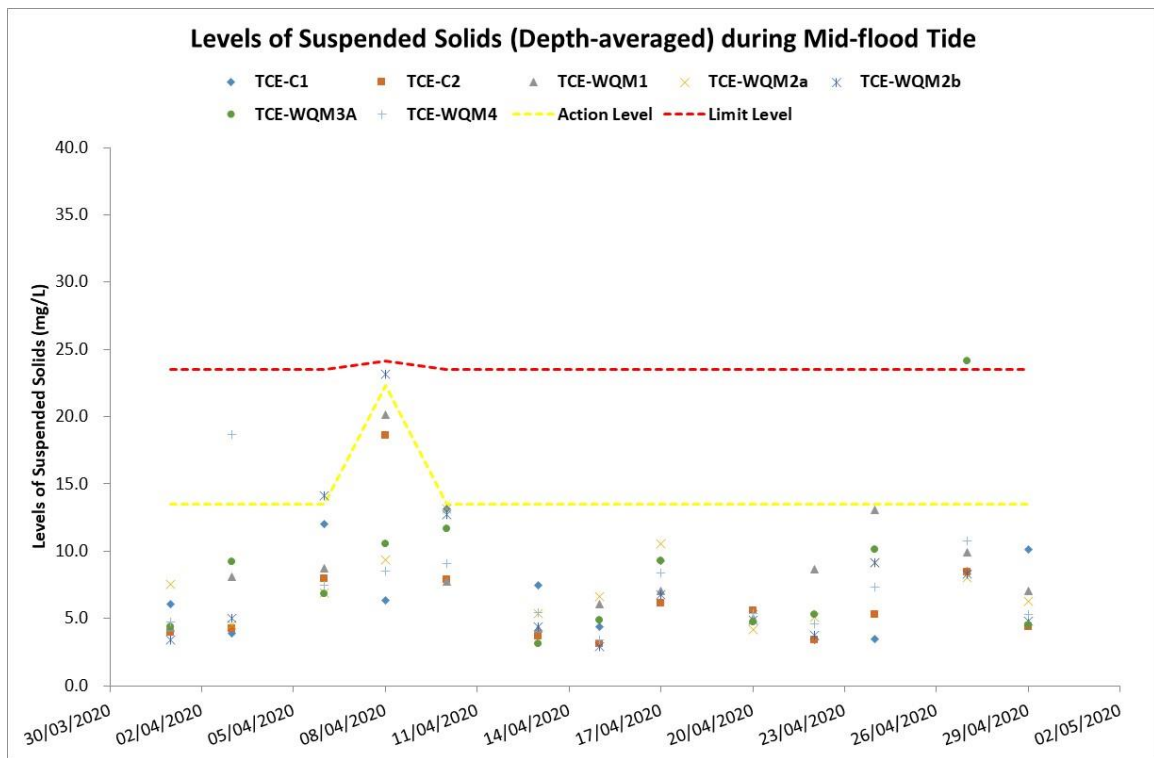


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 April 2020

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

**Environmental  
 Resources  
 Management**



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)					
01-04-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	6:46	8.1	Surface	1.0	1	21.3	8.0	25.7	7.2	94.4	3.8	4.4	7.1	4.3	4.6					
									2	21.4	8.0	25.7	7.2	94.5	3.9	4.6								
							Middle	4.1	1	21.5	8.1	33.0	6.9	95.3	4.3	4.9								
									2	21.5	8.1	33.0	6.9	95.4	4.4	5.6								
				Bottom	7.1	1	21.5	8.1	33.1	7.0	95.8	4.8	4.4	7.0										
						2	21.5	8.1	33.1	7.0	96.2	4.8	3.4											
		TCE-C2	Cloudy	Moderate	4:55	12.7	Surface	1.0	1	21.5	7.9	25.4	6.9				89.8	2.1	2.9	6.7	2.1	3.2		
									2	21.5	7.9	25.3	6.8				89.5	2.1	3.3					
							Middle	6.4	1	21.5	8.0	31.5	6.5	89.0	2.1	2.8								
									2	21.5	8.0	31.5	6.5	89.0	2.1	3.7								
				Bottom	11.7	1	21.5	8.0	32.3	6.5	88.9	2.1	2.6	6.5										
						2	21.5	8.0	32.3	6.5	88.9	2.0	3.7											
		TCE-WQM1	Cloudy	Calm	6:06	8.2	Surface	1.0	1	21.5	8.0	25.9	6.7				88.4	4.6	5.1	6.7	6.5	4.6		
									2	21.5	8.0	25.9	6.7				88.4	4.7	4.8					
							Middle	4.1	1	21.6	8.0	26.0	6.7	88.9	5.8	4.1								
									2	21.6	8.0	26.0	6.8	89.1	6.1	4.8								
				Bottom	7.2	1	21.7	8.0	27.0	6.8	91.1	8.8	4.3	6.8										
						2	21.7	8.0	27.0	6.9	91.2	9.0	4.4											
		TCE-WQM2a	Cloudy	Moderate	5:34	7.6	Surface	1.0	1	21.5	8.0	25.5	6.8				89.0	4.0	4.0	6.8	5.9	3.9		
									2	21.5	8.0	25.5	6.8				89.0	4.0	4.0					
							Middle	3.8	1	21.6	8.0	26.4	6.7	89.1	5.4	3.3								
									2	21.6	8.0	26.4	6.7	89.1	5.5	3.7								
				Bottom	6.6	1	21.6	8.0	30.5	6.7	90.1	8.2	4.4	6.7										
						2	21.6	8.0	30.5	6.7	90.1	8.4	4.1											
		TCE-WQM2b	Cloudy	Moderate	5:22	11.1	Surface	1.0	1	21.5	7.9	25.0	6.9				90.2	2.9	3.1	6.8	3.9	3.2		
									2	21.5	7.9	24.9	6.9				90.2	2.9	3.9					
							Middle	5.6	1	21.6	7.9	26.8	6.8	90.1	4.0	2.8								
									2	21.6	7.9	26.8	6.8	90.2	4.0	3.1								
				Bottom	10.1	1	21.5	8.0	31.6	6.8	92.7	4.8	3.1	6.8										
						2	21.5	8.0	31.6	6.8	92.9	4.9	3.2											
		TCE-WQM3A	Cloudy	Calm	5:45	3.8	Surface	1.0	1	21.7	8.0	25.5	6.7				87.8	4.7	4.2	6.7	5.6	4.6		
									2	21.7	8.0	25.5	6.7				87.8	4.8	5.3					
							Bottom	2.8	1	21.8	8.0	26.1	6.9	90.9	6.4	4.6								
									2	21.7	8.0	26.1	6.9	91.2	6.5	4.4								
		TCE-WQM4	Cloudy	Calm	5:56	3.3	Surface	1.0	1	21.6	8.0	25.4	6.8	89.2	4.4	3.8	6.8	5.1	3.6					
									2	21.6	8.0	25.4	6.8	89.2	4.4	4.3								
							Bottom	2.3	1	21.7	8.0	25.8	6.9	91.5	5.7	3.3								
									2	21.7	8.0	25.8	7.0	91.8	5.7	2.9								
		01-04-20	Mid-Flood	TCE-C1	Cloudy	Moderate	8:46	8.3	Surface	1.0	1	21.3	8.0	26.3	7.2	95.2	3.3	5.5	7.1	3.7	6.1			
											2	21.3	8.0	26.3	7.2	95.3	3.4	6.1						
									Middle	4.2	1	21.5	8.1	33.0	7.0	96.1	3.8	5.9						
											2	21.5	8.1	33.0	7.0	96.2	3.8	6.6						
						Bottom	7.3	1	21.5	8.1	33.1	7.1	97.7	4.3	6.2	7.1								
								2	21.5	8.1	33.1	7.1	98.0	3.7	6.0									
				TCE-C2	Cloudy	Moderate	10:46	12.8	Surface	1.0	1	21.3	8.0	25.0	7.0				91.2	1.9	4.6	6.8	2.2	4.0
											2	21.3	8.0	25.0	7.0				91.1	1.9	3.9			
									Middle	6.4	1	21.5	8.1	32.6	6.6	91.0	2.1	4.2						
											2	21.5	8.1	32.6	6.7	91.1	2.3	3.8						
				Bottom	11.8	1	21.5	8.1	32.9	6.7	92.1	2.5	4.1	6.7										
						2	21.5	8.1	32.9	6.7	92.3	2.4	3.1											
TCE-WQM1	Cloudy			Calm	9:30	8.2	Surface	1.0	1	21.5	8.0	25.9	6.7				88.1	4.7	3.2	6.7	5.9	4.3		
									2	21.5	8.0	25.9	6.7				88.0	4.8	4.1					
							Middle	4.1	1	21.6	8.0	26.4	6.7	88.4	6.6	3.7								
									2	21.6	8.0	26.4	6.7	88.5	6.6	4.2								
				Bottom	7.2	1	21.7	8.0	26.7	6.8	89.7	6.5	5.0	6.8										
						2	21.7	8.0	26.7	6.8	90.0	6.4	5.6											
TCE-WQM2a	Cloudy			Moderate	10:07	7.5	Surface	1.0	1	21.5	8.0	25.1	6.8				88.5	5.2	5.0	6.7	5.4	7.5		
									2	21.5	8.0	25.1	6.8				88.5	5.2	5.7					
							Middle	3.8	1	21.6	8.0	27.9	6.6	88.0	6.2	7.9								
									2	21.6	8.1	27.9	6.6	88.0	5.8	7.8								
				Bottom	6.5	1	21.6	8.1	29.7	6.6	89.5	4.9	9.6	6.6										
						2	21.6	8.1	29.7	6.7	89.7	5.0	9.2											
TCE-WQM2b	Cloudy			Moderate	10:20	11.2	Surface	1.0	1	21.5	8.0	25.0	6.7				88.2	3.3	2.0	6.6	4.6	3.4		
									2	21.5	8.0	25.0	6.7				88.1	3.3	2.8					
							Middle	5.6	1	21.6	8.0	31.0	6.4	86.8	5.2	3.6								
									2	21.6	8.0	31.0	6.4	86.8	5.2	4.5								
				Bottom	10.2	1	21.5	8.1	31.7	6.4	87.2	5.3	3.1	6.4										
						2	21.5	8.1	31.7	6.4	87.3	5.3	4.2											
TCE-WQM3A	Cloudy			Calm	9:54	4.0	Surface	1.0	1	21.4	8.0	24.9	6.4				83.5	8.3	4.8	6.4	10.3	4.4		
									2	21.4	8.0	24.9	6.4				83.4	8.5	5.3					
							Bottom	3.0	1	21.8	8.0	26.7	6.2	82.2	12.1	3.9								
									2	21.8	8.0	26.8	6.2	82.4	12.4	3.6								
TCE-WQM4	Cloudy			Calm	9:44	3.5	Surface	1.0	1	21.6	8.1	25.7	6.8	89.2	4.3	5.2	6.8	4.5	4.8					
									2	21.6	8.1	25.7	6.8	89.2	4.3	5.0								
							Bottom	2.5	1	21.6	8.1	26.0	6.9	90.4	4.6	4.4								
									2	21.6	8.1	26.0	6.9	90.8	4.7	4.4								



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)										
06-04-20	Mid-Ebb	TCE-C1	Rainy	Moderate	13:01	8.1	Surface	1.0	1	21.0	8.0	30.5	6.9	92.3	6.8	9.4	6.9	10.6	9.5										
									2	21.0	8.0	30.5	6.9	92.5	7.2	10.8													
							Middle	4.1	1	21.2	8.0	31.3	6.8	92.3	10.0	8.4													
									2	21.2	8.0	31.4	6.8	92.2	10.2	10.4													
							Bottom	7.1	1	21.2	8.0	31.6	6.9	92.7	14.8	8.4													
									2	21.2	8.0	31.6	6.9	92.7	14.8	9.5													
		TCE-C2	Rainy	Moderate	10:48	13.1	Surface	1.0	1	21.3	7.9	31.5	6.5	87.6	2.0	5.2	6.4	3.1	6.3										
									2	21.3	7.9	31.5	6.5	87.5	2.0	6.2													
							Middle	6.6	1	21.3	7.9	32.3	6.4	87.0	3.1	6.7													
									2	21.3	7.9	32.3	6.4	86.9	3.1	6.1													
							Bottom	12.1	1	21.3	7.9	32.4	6.4	86.9	4.1	7.5													
									2	21.3	7.9	32.4	6.4	87.0	4.2	5.9													
		TCE-WQM1	Rainy	Calm	12:11	8.3	Surface	1.0	1	20.9	8.0	30.4	6.8	91.2	12.5	19.0	6.8	13.9	18.6										
									2	20.9	8.0	30.4	6.8	91.3	12.5	19.5													
							Middle	4.2	1	21.0	8.0	30.4	6.9	92.0	14.3	18.8													
									2	21.0	8.0	30.4	6.9	91.9	14.3	17.0													
							Bottom	7.3	1	21.0	8.0	30.4	6.9	92.4	15.0	19.5													
									2	21.0	8.0	30.4	6.9	92.4	15.0	17.6													
		TCE-WQM2a	Rainy	Moderate	11:34	7.7	Surface	1.0	1	21.1	8.1	30.3	6.7	89.9	3.8	5.8	6.7	3.8	6.1										
									2	21.1	8.1	30.3	6.7	89.9	3.8	5.5													
							Middle	3.9	1	21.2	8.1	30.6	6.8	90.9	3.6	6.1													
									2	21.2	8.1	30.6	6.8	91.0	3.6	6.1													
							Bottom	6.7	1	21.2	8.1	30.7	6.9	92.4	4.0	6.8													
									2	21.2	8.1	30.6	6.9	92.5	4.1	6.3													
		TCE-WQM2b	Rainy	Moderate	11:20	11.1	Surface	1.0	1	21.1	7.9	28.3	6.7	89.1	3.8	8.7	6.6	8.8	9.4										
									2	21.1	7.9	28.3	6.7	89.0	3.8	9.1													
							Middle	5.6	1	21.3	7.9	31.2	6.5	87.7	8.7	9.6													
									2	21.3	7.9	31.2	6.5	87.6	8.8	8.4													
							Bottom	10.1	1	21.4	7.9	31.6	6.5	87.9	13.9	10.9													
									2	21.4	7.9	31.6	6.5	87.9	13.6	9.8													
		TCE-WQM3A	Rainy	Calm	11:47	4.3	Surface	1.0	1	20.9	8.0	30.1	6.7	88.8	5.9	12.0	6.7	6.0	11.7										
									2	20.9	8.0	30.1	6.7	88.8	6.0	13.7													
							Bottom	3.3	1	21.0	8.0	30.1	6.7	89.8	5.9	9.8													
									2	21.0	8.0	30.1	6.7	89.8	6.0	11.1													
							TCE-WQM4	Rainy	Calm	11:58	3.6	Surface	1.0	1	20.9	7.9				30.1	6.8	90.1	4.9	8.1	6.8	4.9	8.1		
														2	20.9	7.9				30.1	6.8	90.1	4.9	6.7					
		Bottom	2.6	1	20.9	7.9						30.1	6.8	90.6	4.9	7.6													
				2	20.9	7.9						30.1	6.8	90.6	4.9	10.1													
		06-04-20	Mid-Flood	TCE-C1	Rainy	Moderate						15:55	8.2	Surface	1.0	1	21.0	8.0	30.6	6.8	91.7	7.6	13.6	6.8				10.2	12.1
																2	21.0	8.0	30.6	6.8	91.7	7.6	12.9						
							Middle	4.1	1	21.2	8.0			31.5	6.8	92.0	9.3	13.0											
									2	21.2	8.0			31.5	6.8	91.9	9.3	11.1											
							Bottom	7.2	1	21.2	8.0			31.6	6.8	91.7	13.7	11.3											
									2	21.2	8.0			31.6	6.8	91.7	13.7	10.4											
				TCE-C2	Rainy	Moderate	17:57	12.7	Surface	1.0	1	21.1	8.0	29.7	6.7	89.5	5.2	8.4	6.7	6.9	8.0								
											2	21.1	8.0	29.7	6.7	89.5	5.2	8.4											
									Middle	6.4	1	21.2	8.0	30.2	6.7	89.6	7.7	8.1											
											2	21.2	8.0	30.2	6.7	89.5	7.7	7.5											
Bottom	11.7								1	21.2	7.9	30.3	6.7	90.5	7.9	7.9													
									2	21.2	7.9	30.3	6.7	90.6	7.9	7.4													
TCE-WQM1	Rainy			Moderate	16:41	8.0	Surface	1.0	1	20.8	8.0	30.1	6.8	90.9	6.7	8.4	6.8	8.1	8.8										
									2	20.8	8.0	30.1	6.8	90.7	6.8	8.6													
							Middle	4.0	1	20.9	8.0	30.3	6.8	90.9	8.9	9.0													
									2	20.9	8.0	30.3	6.8	90.9	9.0	9.3													
							Bottom	7.0	1	20.9	8.0	30.4	6.8	91.4	8.6	9.2													
									2	20.9	8.0	30.4	6.8	91.3	8.4	8.0													
TCE-WQM2a	Rainy			Moderate	17:17	7.6	Surface	1.0	1	21.0	8.0	29.4	6.7	89.7	5.5	7.5	6.7	9.7	6.9										
									2	21.0	8.0	29.4	6.7	89.7	5.5	6.1													
							Middle	3.8	1	21.0	8.0	29.6	6.7	89.6	9.0	7.0													
									2	21.0	8.0	29.6	6.7	89.5	9.1	6.8													
							Bottom	6.6	1	21.0	8.0	30.2	6.8	91.5	14.4	7.4													
									2	21.0	8.0	30.2	6.8	91.5	14.7	6.8													
TCE-WQM2b	Rainy			Moderate	17:30	11.0	Surface	1.0	1	21.1	8.0	29.6	6.8	90.3	12.5	12.7	6.8	13.1	14.1										
									2	21.1	8.0	29.6	6.8	90.3	12.5	15.4													
							Middle	5.5	1	21.1	8.0	29.7	6.8	90.6	13.2	13.2													
									2	21.1	8.0	29.7	6.8	90.7	13.2	18.1													
							Bottom	10.0	1	21.1	8.0	29.7	6.8	91.1	13.7	18.9													
									2	21.1	8.0	29.7	6.8	91.1	13.7	6.4													
TCE-WQM3A	Rainy			Calm	17:07	4.1	Surface	1.0	1	20.8	8.0	29.8	6.7	89.5	10.0	7.3	6.7	12.1	6.9										
									2	20.8	8.0	29.8	6.7	89.5	10.2	6.7													
							Bottom	3.1	1	20.9	8.0	29.9	6.8	90.2	14.1	6.1													
									2	20.9	8.0	29.9	6.8	90.3	13.9	7.3													
							TCE-WQM4	Rainy	Calm	16:55	3.4	Surface	1.0	1	20.9	8.0				30.1	6.8	90.3	6.2	7.1	6.8	6.7	7.5		
														2	20.9	8.0				30.1	6.8	90.3	6.3	8.0					
Bottom	2.4			1	20.9	8.0						30.2	6.8	91.0	7.0	7.3													
				2	20.9	8.0						30.2	6.8	91.1	7.2	7.4													







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)							
13-04-20	Mid-Ebb	TCE-C1	Fine	Moderate	15:14	7.6	Surface	1.0	1	21.1	8.1	31.2	7.1	96.0	8.2	6.5	7.1	8.3	6.6							
									2	21.1	8.1	31.4	7.1	95.9	8.5	6.0										
							Middle	3.8	1	21.1	8.0	32.1	7.0	95.4	6.1	5.9										
									2	21.2	8.0	32.2	7.0	95.4	6.1	6.5										
							Bottom	6.6	1	21.2	8.0	32.6	7.1	96.7	10.5	7.0										
									2	21.2	8.0	32.6	7.1	96.9	10.5	7.5										
		TCE-C2	Fine	Moderate	17:02	12.9	Surface	1.0	1	21.4	8.1	27.9	6.9	92.3	3.6	4.6	6.9	5.0	4.0							
									2	21.4	8.1	27.6	7.0	92.3	3.6	3.7										
							Middle	6.5	1	21.1	8.1	32.1	6.8	92.1	5.2	4.1										
									2	21.1	8.1	32.0	6.8	92.3	5.2	4.2										
							Bottom	11.9	1	21.1	8.1	32.2	7.0	94.4	6.3	3.3										
									2	21.1	8.1	32.2	7.0	94.6	6.3	4.1										
		TCE-WQM1	Fine	Calm	15:52	7.9	Surface	1.0	1	21.2	8.1	25.5	7.3	95.5	6.3	8.3	7.3	9.6	7.5							
									2	21.2	8.1	25.5	7.3	95.5	6.4	7.3										
							Middle	4.0	1	21.2	8.1	25.8	7.3	96.1	10.6	7.1										
									2	21.2	8.1	25.8	7.4	96.3	11.0	8.1										
							Bottom	6.9	1	21.2	8.1	27.4	7.4	98.0	11.7	6.7										
									2	21.2	8.1	27.3	7.4	98.2	11.4	7.5										
		TCE-WQM2a	Fine	Moderate	16:26	6.6	Surface	1.0	1	21.2	8.0	27.4	6.9	91.0	6.4	10.7	6.9	5.5	8.9							
									2	21.2	8.0	27.4	6.9	91.0	6.4	11.2										
							Middle	3.3	1	21.2	8.1	29.8	6.9	92.4	5.8	11.8										
									2	21.2	8.1	29.8	6.9	92.6	5.7	11.3										
							Bottom	5.6	1	21.2	8.1	30.2	7.3	97.7	4.4	4.5										
									2	21.2	8.1	30.1	7.3	98.1	4.4	3.8										
		TCE-WQM2b	Fine	Moderate	16:38	11.0	Surface	1.0	1	21.2	8.0	27.8	6.8	90.4	5.7	7.1	6.7	7.4	6.8							
									2	21.2	8.0	27.9	6.8	90.3	5.8	6.9										
							Middle	5.5	1	21.1	8.1	30.8	6.7	89.8	8.2	7.2										
									2	21.1	8.1	30.9	6.7	89.9	8.1	7.7										
							Bottom	10.0	1	21.1	8.1	31.0	6.8	91.5	8.2	6.4										
									2	21.1	8.1	31.0	6.8	91.8	8.2	5.6										
		TCE-WQM3A	Fine	Calm	16:15	3.9	Surface	1.0	1	21.1	8.0	24.6	7.1	92.0	5.2	4.7	7.1	5.7	4.3							
									2	21.1	8.0	24.5	7.1	92.0	5.3	3.6										
							Bottom	2.9	1	21.1	8.0	26.1	7.1	93.1	6.1	4.6										
									2	21.1	8.0	26.1	7.1	93.3	6.1	4.1										
		TCE-WQM4	Fine	Calm	16:04	3.5	Surface	1.0	1	21.4	8.1	24.1	7.5	97.7	4.2	6.1	7.5	4.1	5.8							
									2	21.4	8.1	24.1	7.5	97.7	4.2	6.5										
							Bottom	2.5	1	21.3	8.1	24.1	7.5	97.9	4.1	5.5										
									2	21.3	8.1	24.1	7.5	97.9	4.1	4.9										
		13-04-20	Mid-Flood	TCE-C1	Fine	Moderate	11:30	8.2	Surface	1.0	1	21.1	8.1	30.8	7.2	97.5	5.7	8.4	7.2	7.4	7.5					
											2	21.1	8.1	30.8	7.2	97.3	5.7	8.4								
									Middle	4.1	1	21.2	8.1	32.5	7.1	97.0	8.0	8.7								
											2	21.2	8.1	32.5	7.1	97.1	8.1	7.8								
									Bottom	7.2	1	21.2	8.1	32.5	7.2	98.3	8.9	6.2								
											2	21.2	8.1	32.5	7.2	98.4	8.4	5.3								
TCE-C2	Fine			Moderate	8:58	12.6	Surface	1.0	1	20.6	8.0	26.5	6.9	89.5	3.1	3.6	6.7	5.0	3.7							
									2	20.7	8.0	26.5	6.9	89.3	3.2	3.5										
							Middle	6.3	1	21.2	8.0	30.9	6.6	88.8	5.0	3.7										
									2	21.2	8.0	31.0	6.6	88.9	5.4	4.0										
							Bottom	11.6	1	21.2	8.0	31.5	6.6	89.2	6.7	3.7										
									2	21.2	8.0	31.5	6.6	89.2	6.4	3.5										
TCE-WQM1	Fine			Calm	10:10	8.0	Surface	1.0	1	20.9	8.1	23.7	7.3	94.4	3.9	5.0	7.3	6.1	4.3							
									2	20.9	8.1	23.8	7.3	94.4	3.9	4.3										
							Middle	4.0	1	20.9	8.1	24.4	7.3	93.9	6.0	3.6										
									2	21.0	8.1	24.5	7.3	93.9	6.3	4.3										
							Bottom	7.0	1	21.0	8.1	25.1	7.3	95.0	8.6	3.9										
									2	21.0	8.1	25.0	7.4	95.3	8.2	4.5										
TCE-WQM2a	Fine			Moderate	9:35	7.1	Surface	1.0	1	20.9	8.0	24.1	7.1	91.7	4.0	4.6	7.0	7.1	5.4							
									2	20.9	8.0	24.1	7.1	91.7	4.0	5.3										
							Middle	3.6	1	21.0	8.0	24.5	6.9	89.5	6.6	4.7										
									2	21.0	8.0	24.4	6.9	89.4	7.0	5.7										
							Bottom	6.1	1	21.2	8.0	27.8	6.8	90.0	10.8	5.9										
									2	21.2	8.0	27.8	6.8	90.3	10.1	6.0										
TCE-WQM2b	Fine			Moderate	9:23	10.8	Surface	1.0	1	21.0	8.1	24.8	7.1	92.3	4.7	3.9	7.1	8.2	4.4							
									2	21.0	8.1	24.8	7.1	92.2	5.1	4.2										
							Middle	5.4	1	21.0	8.1	27.7	7.0	92.2	9.4	4.9										
									2	21.0	8.1	27.8	7.0	92.2	9.3	4.5										
							Bottom	9.8	1	21.0	8.1	28.2	7.0	93.2	10.0	4.4										
									2	21.0	8.1	28.2	7.1	93.5	11.0	4.4										
TCE-WQM3A	Fine			Calm	9:47	4.4	Surface	1.0	1	20.9	8.0	23.8	7.3	93.6	3.4	3.6	7.3	3.9	3.2							
									2	20.9	8.0	23.8	7.3	93.6	3.6	3.0										
							Bottom	3.4	1	21.0	8.1	24.5	7.4	95.4	4.3	2.7										
									2	21.0	8.1	24.5	7.4	95.8	4.2	3.3										
TCE-WQM4	Fine			Calm	9:58	3.5	Surface	1.0	1	20.9	8.0	23.9	7.6	97.8	3.8	4.7	7.6	3.8	5.4							
									2	20.9	8.0	23.9	7.6	98.0	3.8	4.3										
							Bottom	2.5	1	20.9	8.1	24.0	7.8	100.9	3.9	6.8										
									2	20.9	8.1	24.0	7.9	101.2	3.8	5.8										

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)					
15-04-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	17:27	8.4	Surface	1.0	1	22.8	8.2	26.9	8.2	111.3	2.3	2.7	7.9	4.5	2.4					
									2	22.8	8.2	26.9	8.2	111.1	2.3	3.3								
							Middle	4.2	1	21.3	8.2	31.4	7.7	104.3	2.6	2.1								
									2	21.3	8.2	31.4	7.7	104.1	2.7	2.6								
				Bottom	7.4	1	21.2	8.1	32.0	7.2	97.2	8.1	1.7	7.2										
						2	21.2	8.1	32.0	7.2	97.2	8.7	2.1											
		TCE-C2	Cloudy	Moderate	19:16	12.8	Surface	1.0	1	22.5	8.1	23.8	7.6				100.8	2.3	2.1	7.5	2.9	2.4		
									2	22.5	8.1	24.0	7.6				100.5	2.3	2.3					
							Middle	6.4	1	22.3	8.1	25.0	7.4	98.1	2.8	2.3								
									2	22.3	8.1	25.0	7.4	97.9	2.9	2.4								
				Bottom	11.8	1	21.2	8.1	31.3	6.7	89.9	3.4	2.2	6.7										
						2	21.2	8.1	31.3	6.7	90.0	3.4	3.2											
		TCE-WQM1	Cloudy	Moderate	18:07	8.7	Surface	1.0	1	22.3	8.1	27.6	7.7				103.2	4.0	4.9	7.5	5.6	5.4		
									2	22.3	8.1	27.6	7.6				103.0	4.1	5.9					
							Middle	4.4	1	21.9	8.1	28.6	7.4	99.6	5.7	5.7								
									2	21.8	8.1	28.7	7.4	99.4	5.8	5.3								
				Bottom	7.7	1	21.7	8.1	29.2	7.3	98.4	7.0	5.5	7.3										
						2	21.7	8.1	29.2	7.3	98.5	7.0	5.2											
		TCE-WQM2a	Cloudy	Moderate	18:40	7.5	Surface	1.0	1	22.3	8.1	25.3	7.7				102.3	5.8	3.7	7.6	8.7	4.8		
									2	22.3	8.1	25.3	7.7				102.3	5.8	3.6					
							Middle	3.8	1	22.1	8.1	26.3	7.5	100.5	13.1	5.0								
									2	22.1	8.1	26.3	7.5	100.0	13.4	5.1								
				Bottom	6.5	1	21.3	8.1	30.1	6.7	89.5	6.9	6.0	6.7										
						2	21.3	8.1	30.0	6.7	89.6	7.1	5.3											
		TCE-WQM2b	Cloudy	Moderate	18:50	11.9	Surface	1.0	1	21.9	8.1	24.4	7.5				98.9	2.0	2.6	7.3	5.0	2.8		
									2	21.9	8.1	24.4	7.5				98.9	2.0	3.1					
							Middle	6.0	1	21.6	8.1	26.3	7.1	94.3	3.3	2.7								
									2	21.6	8.1	26.3	7.1	94.1	3.4	3.2								
				Bottom	10.9	1	21.3	8.1	30.4	6.7	89.9	9.4	2.3	6.7										
						2	21.3	8.1	30.5	6.7	90.0	9.8	3.0											
		TCE-WQM3A	Cloudy	Moderate	18:30	4.1	Surface	1.0	1	21.8	8.1	26.7	7.0				92.7	7.8	6.2	7.0	7.7	5.2		
									2	21.7	8.1	26.7	7.0				92.6	7.9	5.3					
							Bottom	3.1	1	21.7	8.1	26.7	7.1	93.8	7.5	5.2								
									2	21.8	8.1	26.7	7.1	94.0	7.7	4.2								
		TCE-WQM4	Cloudy	Moderate	18:19	3.9	Surface	1.0	1	22.3	8.1	26.4	7.9	105.7	10.0	3.5	7.9	6.9	5.1					
									2	22.3	8.1	26.3	7.9	105.7	8.1	4.2								
							Bottom	2.9	1	21.9	8.1	26.8	7.7	102.7	4.7	5.8								
									2	21.9	8.1	26.8	7.7	102.4	4.7	6.8								
		15-04-20	Mid-Flood	TCE-C1	Cloudy	Moderate	8:05	8.8	Surface	1.0	1	22.6	8.1	27.7	8.0	108.1	3.0	4.6	7.7	5.2	4.4			
											2	22.6	8.1	27.6	8.0	108.0	3.0	4.3						
									Middle	4.4	1	21.2	8.1	31.5	7.5	102.1	4.1	4.4						
											2	21.2	8.1	31.7	7.5	101.7	4.7	4.1						
						Bottom	7.8	1	21.2	8.1	32.2	7.2	98.2	8.2	4.9	7.2								
								2	21.2	8.1	32.2	7.3	98.5	8.5	4.0									
				TCE-C2	Cloudy	Moderate	6:11	12.2	Surface	1.0	1	22.4	8.1	23.9	7.6				101.0	2.0	2.8	7.2	2.5	3.1
											2	22.4	8.1	23.9	7.6				100.7	2.0	3.5			
									Middle	6.1	1	21.2	8.0	30.6	6.7	90.5	1.6	2.3						
											2	21.2	8.0	30.6	6.7	90.4	1.6	3.2						
				Bottom	11.2	1	21.1	8.0	31.9	6.6	89.3	3.9	3.1	6.6										
						2	21.1	8.0	31.9	6.6	89.3	3.8	3.7											
TCE-WQM1	Cloudy			Moderate	7:23	8.6	Surface	1.0	1	21.8	8.1	27.2	7.7				102.3	6.0	6.2	7.5	9.1	6.1		
									2	21.8	8.1	27.3	7.7				102.2	6.7	6.3					
							Middle	4.3	1	21.5	8.1	28.1	7.3	97.2	10.2	5.6								
									2	21.5	8.1	28.2	7.3	97.1	10.3	6.0								
				Bottom	7.6	1	21.4	8.1	28.4	7.4	98.1	10.7	6.2	7.4										
						2	21.5	8.1	28.4	7.4	98.6	10.8	6.2											
TCE-WQM2a	Cloudy			Moderate	6:50	7.5	Surface	1.0	1	22.2	8.0	25.6	7.4				99.0	5.8	8.7	7.2	6.4	6.6		
									2	22.2	8.0	25.6	7.4				99.0	5.8	7.6					
							Middle	3.8	1	21.3	8.0	28.1	6.9	91.9	5.9	6.3								
									2	21.3	8.0	28.2	6.9	92.0	6.1	6.9								
				Bottom	6.5	1	21.3	8.0	30.4	6.9	93.5	7.0	5.5	7.0										
						2	21.3	8.0	30.4	7.0	93.8	7.6	4.6											
TCE-WQM2b	Cloudy			Moderate	6:39	11.0	Surface	1.0	1	22.4	8.0	23.7	7.4				98.1	2.4	2.6	7.1	3.3	2.9		
									2	22.4	8.0	23.8	7.4				97.8	2.5	3.2					
							Middle	5.5	1	21.2	8.0	30.5	6.7	90.5	3.7	2.8								
									2	21.2	8.0	30.6	6.7	90.7	3.7	2.4								
				Bottom	10.0	1	21.2	8.0	31.5	6.9	93.0	3.9	3.3	6.9										
						2	21.2	8.0	31.5	6.9	93.3	3.9	3.3											
TCE-WQM3A	Cloudy			Moderate	7:01	4.9	Surface	1.0	1	22.6	8.1	24.4	7.7				102.9	3.2	4.7	7.7	5.2	4.9		
									2	22.4	8.1	24.6	7.8				103.0	3.5	5.6					
							Bottom	3.9	1	21.7	8.1	26.4	7.3	97.0	6.9	4.2								
									2	21.7	8.1	26.5	7.3	96.9	7.2	5.0								
TCE-WQM4	Cloudy			Moderate	7:11	4.2	Surface	1.0	1	22.0	8.1	26.6	7.9	106.0	4.1	2.6	7.9	4.7	3.4					
									2	22.0	8.1	26.6	8.0	106.0	4.3	3.6								
							Bottom	3.2	1	21.7	8.1	26.8	8.0	106.4	5.3	3.4								
									2	21.8	8.1	26.8	8.0	106.7	5.1	4.1								

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)					
17-04-20	Mid-Ebb	TCE-C1	Fine	Moderate	11:30	7.8	Surface	1.0	1	22.5	8.2	24.5	9.1	120.5	5.4	7.3	8.3	5.9	7.2					
									2	22.5	8.2	24.4	9.0	120.0	5.4	6.6								
							Middle	3.9	1	21.5	8.1	30.3	7.6	102.8	5.1	7.1								
									2	21.5	8.1	30.3	7.6	102.9	5.2	7.3								
				Bottom	6.8	1	21.3	8.1	31.4	7.3	98.4	7.2	6.9	7.3										
						2	21.3	8.1	31.4	7.3	98.4	7.3	7.8											
		TCE-C2	Fine	Moderate	9:03	13.4	Surface	1.0	1	21.8	8.0	27.6	7.1				94.9	3.3	3.7	6.8	4.1	3.6		
									2	21.8	8.0	27.7	7.1				94.7	3.4	3.2					
							Middle	6.7	1	21.2	8.0	31.7	6.5	87.5	4.2	3.9								
									2	21.2	8.0	31.7	6.5	87.5	4.2	3.4								
				Bottom	12.4	1	21.2	8.0	31.9	6.6	89.3	4.9	3.5	6.6										
						2	21.2	8.0	31.9	6.6	89.4	4.9	3.6											
		TCE-WQM1	Fine	Calm	10:29	8.6	Surface	1.0	1	22.5	8.1	25.0	8.0				107.2	5.6	6.3	7.8	6.6	7.0		
									2	22.5	8.1	25.0	8.0				107.2	5.5	5.3					
							Middle	4.3	1	22.3	8.0	25.8	7.6	100.8	6.5	9.2								
									2	22.3	8.0	25.8	7.5	100.6	6.6	9.1								
				Bottom	7.6	1	22.2	8.0	26.5	7.4	98.7	7.7	6.1	7.4										
						2	22.2	8.0	26.5	7.4	98.7	7.7	5.7											
		TCE-WQM2a	Fine	Moderate	9:54	7.5	Surface	1.0	1	22.3	8.0	25.4	7.6				101.7	10.1	7.8	7.4	6.2	7.4		
									2	22.3	8.0	25.4	7.6				101.7	10.1	6.8					
							Middle	3.8	1	21.9	8.0	27.2	7.2	95.9	4.2	7.7								
									2	21.9	8.0	27.1	7.2	95.8	4.2	6.8								
				Bottom	6.5	1	21.5	8.0	29.8	6.7	89.8	4.4	8.0	6.7										
						2	21.5	8.0	29.8	6.7	89.8	4.4	7.0											
		TCE-WQM2b	Fine	Moderate	9:40	11.3	Surface	1.0	1	22.0	8.0	25.6	7.3				97.4	4.0	3.0	7.1	5.0	3.7		
									2	22.0	8.0	25.6	7.3				97.4	4.0	3.9					
							Middle	5.7	1	21.6	8.0	28.1	6.8	90.6	4.4	4.0								
									2	21.6	8.0	28.1	6.8	90.5	4.4	3.2								
				Bottom	10.3	1	21.3	8.0	31.1	6.4	86.9	6.7	4.4	6.4										
						2	21.3	8.0	31.1	6.4	87.0	6.7	3.6											
		TCE-WQM3A	Fine	Calm	10:06	4.1	Surface	1.0	1	22.3	8.0	24.9	7.7				102.2	4.9	4.4	7.7	5.0	4.3		
									2	22.3	8.0	24.9	7.7				102.1	4.9	4.6					
							Bottom	3.1	1	22.2	8.0	25.4	7.4	98.5	5.2	4.5								
									2	22.2	8.0	25.4	7.4	98.7	5.1	3.7								
		TCE-WQM4	Fine	Calm	10:17	3.2	Surface	1.0	1	22.6	8.1	25.2	8.1	108.0	4.3	3.6	8.1	4.6	3.8					
									2	22.6	8.1	25.2	8.1	107.9	4.3	3.6								
							Bottom	2.2	1	22.4	8.1	25.3	7.9	105.7	5.0	3.9								
									2	22.4	8.1	25.3	7.9	105.7	4.9	4.0								
		17-04-20	Mid-Flood	TCE-C1	Fine	Moderate	13:24	8.1	Surface	1.0	1	22.4	8.2	25.2	9.4	125.3	5.4	9.3	8.6	6.1	9.3			
											2	22.3	8.2	25.3	9.4	124.8	5.4	8.2						
									Middle	4.1	1	21.6	8.1	29.9	7.8	105.7	5.3	9.4						
											2	21.6	8.1	29.9	7.8	105.7	5.3	8.7						
						Bottom	7.1	1	21.3	8.1	31.3	7.3	99.0	7.6	9.6	7.3								
								2	21.3	8.1	31.3	7.3	99.1	7.5	10.3									
				TCE-C2	Fine	Moderate	15:19	12.8	Surface	1.0	1	22.6	8.2	25.3	9.7				130.3	4.3	5.0	8.7	5.1	6.1
											2	22.6	8.2	25.4	9.7				130.1	4.3	6.1			
									Middle	6.4	1	22.1	8.1	28.4	7.6	102.5	5.0	5.9						
											2	22.1	8.1	28.5	7.6	102.2	5.0	6.3						
				Bottom	11.8	1	21.3	8.1	32.1	6.7	91.0	6.2	6.2	6.7										
						2	21.3	8.1	32.0	6.7	91.2	6.0	7.2											
TCE-WQM1	Fine			Calm	14:03	8.7	Surface	1.0	1	23.6	8.2	24.8	9.6				130.4	4.4	5.3	8.6	6.3	7.1		
									2	23.6	8.2	24.8	9.6				130.2	4.4	6.3					
							Middle	4.4	1	22.3	8.1	26.0	7.6	101.3	6.4	6.6								
									2	22.3	8.1	26.0	7.6	101.3	6.4	7.2								
				Bottom	7.7	1	22.1	8.1	26.6	7.4	98.4	8.1	8.3	7.4										
						2	22.1	8.1	26.6	7.4	98.4	8.1	8.3											
TCE-WQM2a	Fine			Moderate	14:40	7.4	Surface	1.0	1	23.6	8.3	24.5	10.1				137.0	4.4	6.8	9.6	8.1	10.6		
									2	23.6	8.3	24.5	10.1				137.0	4.4	7.3					
							Middle	3.7	1	23.1	8.2	25.0	9.2	124.1	8.8	8.4								
									2	23.1	8.2	25.0	9.2	124.0	8.9	7.6								
				Bottom	6.4	1	22.3	8.2	26.9	8.0	107.3	11.0	21.7	8.0										
						2	22.3	8.2	26.9	8.0	107.6	10.9	11.6											
TCE-WQM2b	Fine			Moderate	14:53	11.9	Surface	1.0	1	22.7	8.2	24.7	8.8				118.2	4.5	7.0	7.7	5.5	6.8		
									2	22.7	8.2	24.7	8.8				117.9	4.5	7.2					
							Middle	6.0	1	21.5	8.1	29.4	6.7	89.5	5.2	7.3								
									2	21.5	8.1	29.4	6.7	89.5	5.2	6.5								
				Bottom	10.9	1	21.3	8.1	31.6	6.5	88.1	6.6	6.8	6.5										
						2	21.3	8.1	31.6	6.5	88.2	6.7	5.7											
TCE-WQM3A	Fine			Calm	14:30	4.3	Surface	1.0	1	22.4	8.1	25.9	8.0				106.6	6.9	7.5	7.9	7.7	9.3		
									2	22.4	8.1	25.9	7.9				106.3	6.9	7.8					
							Bottom	3.3	1	22.0	8.1	26.5	7.1	94.9	8.5	10.7								
									2	22.0	8.1	26.5	7.1	95.0	8.5	11.0								
TCE-WQM4	Fine			Calm	14:19	3.1	Surface	1.0	1	23.2	8.2	25.3	9.6	130.1	5.3	5.2	9.6	6.5	8.4					
									2	23.2	8.2	25.3	9.6	130.1	5.3	6.1								
							Bottom	2.1	1	23.1	8.2	25.6	9.0	122.1	7.7	12.5								
									2	23.1	8.2	25.6	9.0	122.0	7.7	9.6								





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)										
24-04-20	Mid-Ebb	TCE-C1	Fine	Moderate	12:09	8.4	Surface	1.0	1	22.2	7.9	28.2	6.8	91.9	5.2	5.9	6.8	8.3	5.4										
									2	22.2	7.9	28.4	6.8	91.8	5.5	6.4													
							Middle	4.2	1	22.3	7.9	30.3	6.7	92.2	9.7	5.7													
									2	22.3	7.9	30.4	6.7	92.2	10.0	6.0													
							Bottom	7.4	1	22.3	7.9	30.7	6.7	92.5	9.8	4.1													
									2	22.3	7.9	30.7	6.7	92.6	9.8	4.3													
		TCE-C2	Fine	Moderate	13:56	12.2	Surface	1.0	1	22.6	7.9	27.0	6.6	88.5	10.0	6.2	6.6	10.0	7.2										
									2	22.6	7.9	27.0	6.6	88.5	9.9	6.6													
							Middle	6.1	1	22.6	7.9	27.2	6.6	88.7	9.3	7.1													
									2	22.6	7.9	27.2	6.6	88.7	9.4	7.3													
							Bottom	11.2	1	22.5	7.9	27.4	6.6	89.5	10.8	7.9													
									2	22.5	7.9	27.4	6.6	89.7	10.8	8.1													
		TCE-WQM1	Fine	Calm	12:51	9.2	Surface	1.0	1	22.5	7.9	26.9	6.5	87.3	10.3	5.3	6.5	11.7	6.9										
									2	22.5	7.9	27.0	6.5	87.4	10.4	5.6													
							Middle	4.6	1	22.4	7.9	27.2	6.5	88.1	11.8	6.9													
									2	22.4	7.9	27.2	6.5	88.3	12.1	6.6													
							Bottom	8.2	1	22.4	7.9	27.3	6.7	89.8	12.9	8.2													
									2	22.4	7.9	27.3	6.7	90.0	13.0	8.6													
		TCE-WQM2a	Fine	Moderate	13:23	7.3	Surface	1.0	1	22.6	7.9	25.9	6.6	88.6	8.6	4.8	6.6	10.3	6.5										
									2	22.6	7.9	25.9	6.6	88.6	8.6	4.5													
							Middle	3.7	1	22.5	7.9	27.0	6.6	88.6	10.5	6.9													
									2	22.5	7.9	26.8	6.6	88.7	11.2	6.4													
							Bottom	6.3	1	22.5	7.9	28.5	6.5	88.9	11.3	8.0													
									2	22.5	7.9	28.5	6.5	88.9	11.5	8.5													
		TCE-WQM2b	Fine	Moderate	13:36	11.2	Surface	1.0	1	22.6	7.9	25.8	6.7	89.4	7.4	6.8	6.6	8.6	7.4										
									2	22.6	7.9	25.8	6.7	89.4	7.7	6.2													
							Middle	5.6	1	22.6	7.9	26.2	6.6	89.1	8.5	7.5													
									2	22.6	7.9	26.2	6.6	89.1	8.8	7.1													
							Bottom	10.2	1	22.6	7.9	26.4	6.7	89.8	9.5	8.6													
									2	22.6	7.9	26.4	6.7	90.0	9.7	8.3													
		TCE-WQM3A	Fine	Calm	13:12	3.4	Surface	1.0	1	22.6	7.9	25.2	6.7	89.3	8.8	10.1	6.7	8.9	9.7										
									2	22.6	7.9	25.2	6.7	89.5	8.9	10.3													
							Bottom	2.4	1	22.6	7.9	25.3	6.8	90.7	9.0	9.2													
									2	22.6	7.9	25.3	6.8	90.9	9.0	9.0													
							TCE-WQM4	Fine	Calm	13:01	3.2	Surface	1.0	1	22.6	7.9				25.7	6.7	89.9	6.8	7.6	6.7	7.1	6.7		
														2	22.6	7.9				25.7	6.7	90.3	6.9	7.3					
		Bottom	2.2	1	22.6	7.9						25.7	6.8	91.4	7.4	5.7													
				2	22.6	7.9						25.7	6.8	91.7	7.3	6.0													
		24-04-20	Mid-Flood	TCE-C1	Fine	Moderate						7:39	7.6	Surface	1.0	1	22.3	7.9	28.0	6.8	91.8	5.5	3.3	6.7				8.3	3.5
																2	22.3	7.9	28.0	6.8	91.8	6.0	3.3						
							Middle	3.8	1	22.3	7.9			30.2	6.7	91.7	9.1	3.5											
									2	22.3	7.9			30.2	6.7	91.7	9.2	3.4											
							Bottom	6.6	1	22.3	7.9			30.5	6.8	93.8	9.9	3.7											
									2	22.3	7.9			30.5	6.9	94.0	9.9	3.8											
				TCE-C2	Fine	Moderate	5:47	12.0	Surface	1.0	1	22.4	7.8	26.9	6.6	89.3	5.2	4.9	6.5	7.5	5.3								
											2	22.4	7.7	26.9	6.6	89.0	5.4	5.4											
									Middle	6.0	1	22.3	7.7	30.4	6.4	87.2	7.6	5.2											
											2	22.3	7.7	30.4	6.4	87.2	7.8	5.3											
Bottom	11.0								1	22.2	7.7	30.5	6.4	87.9	9.6	5.3													
									2	22.2	7.7	30.5	6.4	88.1	9.5	5.7													
TCE-WQM1	Fine			Calm	6:55	9.0	Surface	1.0	1	22.6	7.9	26.1	6.4	86.3	10.4	10.9	6.4	11.0	13.1										
									2	22.6	7.9	26.1	6.4	86.3	10.4	11.2													
							Middle	4.5	1	22.6	7.9	26.1	6.4	86.6	10.9	13.0													
									2	22.6	7.9	26.1	6.5	86.7	11.1	13.5													
							Bottom	8.0	1	22.6	7.9	26.1	6.6	88.0	11.7	14.9													
									2	22.6	7.9	26.1	6.6	88.5	11.6	14.8													
TCE-WQM2a	Fine			Moderate	6:23	8.0	Surface	1.0	1	22.6	7.8	25.7	6.7	89.7	7.0	8.6	6.7	8.4	9.1										
									2	22.6	7.8	25.7	6.7	89.7	7.0	8.7													
							Middle	4.0	1	22.7	7.8	25.9	6.6	89.3	8.7	9.1													
									2	22.7	7.8	25.9	6.6	89.3	8.8	8.7													
							Bottom	7.0	1	22.6	7.8	26.7	6.7	90.0	9.5	10.0													
									2	22.6	7.8	26.7	6.7	90.3	9.3	9.7													
TCE-WQM2b	Fine			Moderate	6:11	11.0	Surface	1.0	1	22.5	7.8	26.4	6.8	91.0	7.8	8.1	6.8	7.8	9.1										
									2	22.5	7.8	26.4	6.8	91.0	7.8	8.5													
							Middle	5.5	1	22.5	7.8	26.7	6.8	91.0	7.3	8.9													
									2	22.5	7.8	26.9	6.7	90.9	7.6	9.2													
							Bottom	10.0	1	22.5	7.8	27.6	6.7	91.1	8.1	10.2													
									2	22.5	7.8	27.7	6.7	91.3	8.1	9.9													
TCE-WQM3A	Fine			Calm	6:34	3.3	Surface	1.0	1	22.5	7.9	25.3	6.8	90.4	12.3	9.9	6.8	12.7	10.1										
									2	22.5	7.9	25.3	6.8	90.5	12.3	10.1													
							Bottom	2.3	1	22.5	7.9	25.3	6.9	92.1	13.2	10.5													
									2	22.5	7.9	25.3	6.9	92.5	13.1	10.1													
							TCE-WQM4	Fine	Calm	6:44	3.1	Surface	1.0	1	22.6	7.9				25.6	6.7	89.7	9.1	5.7	6.7	9.3	7.3		
														2	22.6	7.9				25.6	6.7	89.8	9.1	6.3					
Bottom	2.1			1	22.6	7.9						25.6	6.7	90.3	9.4	8.5													
				2	22.6	7.9						25.6	6.7	90.5	9.5	8.8													



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)					
27-04-20	Mid-Ebb	TCE-C1	Fine	Moderate	13:46	8.5	Surface	1.0	1	23.3	8.2	27.8	6.8	93.2	3.0	7.3	6.6	6.5	8.8					
									2	23.3	8.2	27.8	6.8	93.1	3.1	7.8								
							Middle	4.3	1	22.5	8.3	31.7	6.4	88.6	6.6	9.1								
									2	22.5	8.3	31.7	6.4	88.6	6.8	9.1								
				Bottom	7.5	1	22.4	8.3	32.3	6.3	88.1	9.6	10.0	6.3										
						2	22.4	8.3	32.3	6.4	88.1	9.6	9.6											
		TCE-C2	Fine	Moderate	15:43	13.0	Surface	1.0	1	23.8	8.1	26.8	6.5				89.9	8.0	11.4	6.4	10.1	10.7		
									2	23.8	8.1	26.9	6.5				89.9	8.1	11.5					
							Middle	6.5	1	23.3	8.1	28.2	6.2	85.8	9.7	10.9								
									2	23.3	8.1	28.2	6.2	85.9	10.0	11.1								
				Bottom	12.0	1	22.7	8.1	30.3	6.2	85.1	12.2	9.9	6.2										
						2	22.7	8.1	30.3	6.2	85.1	12.3	9.5											
		TCE-WQM1	Fine	Moderate	14:28	9.1	Surface	1.0	1	23.7	8.1	27.4	6.6				90.7	6.2	8.1	6.5	7.4	9.1		
									2	23.7	8.1	27.5	6.6				90.7	6.2	8.5					
							Middle	4.6	1	23.4	8.2	27.9	6.5	89.3	7.2	8.4								
									2	23.4	8.2	27.9	6.5	89.3	7.3	8.6								
				Bottom	8.1	1	23.1	8.2	28.6	6.5	89.0	8.6	10.7	6.5										
						2	23.1	8.2	28.6	6.5	89.1	8.6	10.2											
		TCE-WQM2a	Fine	Calm	15:05	7.4	Surface	1.0	1	23.3	8.1	27.8	6.4				87.9	4.3	8.0	6.3	5.0	9.1		
									2	23.3	8.1	27.8	6.4				87.9	4.3	8.2					
							Middle	3.7	1	23.0	8.1	28.3	6.3	86.2	5.1	8.8								
									2	23.0	8.1	28.4	6.3	86.3	5.1	8.8								
				Bottom	6.4	1	22.9	8.1	28.8	6.5	89.1	5.7	10.3	6.5										
						2	22.9	8.1	28.8	6.5	89.3	5.7	10.2											
		TCE-WQM2b	Fine	Calm	15:20	12.1	Surface	1.0	1	23.4	8.1	26.9	6.6				90.6	3.8	10.2	6.5	4.8	9.8		
									2	23.4	8.1	26.9	6.6				90.5	3.8	10.8					
							Middle	6.1	1	23.3	8.1	27.2	6.4	88.2	4.8	9.5								
									2	23.3	8.1	27.2	6.4	88.2	4.8	9.8								
				Bottom	11.1	1	23.4	8.1	27.2	6.5	89.1	5.9	9.1	6.5										
						2	23.4	8.1	27.2	6.5	89.2	5.8	9.4											
		TCE-WQM3A	Fine	Calm	14:54	4.3	Surface	1.0	1	23.5	8.1	26.9	6.3				86.4	9.4	16.4	6.3	10.0	14.5		
									2	23.5	8.1	26.9	6.3				86.3	9.5	16.9					
							Bottom	3.3	1	23.0	8.1	27.1	6.3	86.3	10.6	12.3								
									2	23.0	8.1	27.1	6.3	86.4	10.5	12.4								
		TCE-WQM4	Fine	Moderate	14:42	3.5	Surface	1.0	1	23.6	8.1	27.3	6.6	90.4	8.1	10.6	6.6	9.1	10.2					
									2	23.5	8.1	27.3	6.6	90.4	8.3	10.8								
							Bottom	2.5	1	23.2	8.0	27.4	6.7	91.9	9.7	9.5								
									2	23.3	8.0	27.4	6.7	92.1	10.2	9.9								
		27-04-20	Mid-Flood	TCE-C1	Fine	Moderate	10:13	8.4	Surface	1.0	1	22.6	8.2	29.7	6.6	90.4	11.3	10.0	6.5	13.1	8.5			
											2	22.6	8.2	29.7	6.6	90.4	11.5	9.8						
									Middle	4.2	1	22.4	8.2	32.1	6.5	90.0	11.9	8.0						
											2	22.4	8.2	32.1	6.5	90.0	12.3	8.1						
						Bottom	7.4	1	22.4	8.2	32.3	6.5	89.7	15.5	7.5	6.5								
								2	22.4	8.2	32.3	6.5	89.8	16.1	7.5									
				TCE-C2	Cloudy	Moderate	8:18	13.2	Surface	1.0	1	22.7	8.2	29.0	6.2				85.2	5.3	10.0	6.1	7.5	8.4
											2	22.7	8.2	29.0	6.2				85.2	5.5	9.7			
									Middle	6.6	1	22.5	8.2	31.0	6.0	83.5	7.4	8.7						
											2	22.5	8.2	31.0	6.1	83.6	7.3	9.0						
				Bottom	12.2	1	22.5	8.1	31.4	6.1	84.1	9.8	6.5	6.1										
						2	22.5	8.1	31.4	6.1	84.1	9.8	6.6											
TCE-WQM1	Fine			Calm	9:27	8.8	Surface	1.0	1	23.1	8.2	27.2	6.3				85.5	6.5	12.0	6.2	9.8	10.0		
									2	23.1	8.2	27.2	6.3				85.5	6.6	12.7					
							Middle	4.4	1	23.0	8.2	27.4	6.2	84.4	10.4	9.2								
									2	23.0	8.2	27.4	6.2	84.4	10.5	9.1								
				Bottom	7.8	1	23.0	8.2	27.5	6.4	86.9	12.4	8.3	6.4										
						2	23.0	8.2	27.5	6.4	87.2	12.3	8.4											
TCE-WQM2a	Cloudy			Moderate	8:53	7.6	Surface	1.0	1	23.1	8.1	26.9	6.4				86.7	3.9	7.4	6.3	6.4	8.0		
									2	23.1	8.1	26.9	6.4				86.7	3.9	7.0					
							Middle	3.8	1	22.9	8.1	27.1	6.2	84.4	6.3	7.9								
									2	22.9	8.1	27.1	6.2	84.4	6.5	7.7								
				Bottom	6.6	1	22.7	8.1	28.6	6.2	84.2	8.9	9.1	6.2										
						2	22.7	8.1	28.6	6.2	84.2	8.9	8.9											
TCE-WQM2b	Cloudy			Moderate	8:41	11.5	Surface	1.0	1	23.0	8.1	27.2	6.4				86.8	4.0	9.8	6.3	5.7	8.3		
									2	23.0	8.1	27.2	6.4				86.7	4.0	9.2					
							Middle	5.8	1	22.9	8.1	27.5	6.3	85.6	5.3	8.2								
									2	22.9	8.1	27.5	6.3	85.5	5.4	7.8								
				Bottom	10.5	1	22.8	8.1	28.2	6.3	86.2	7.8	7.5	6.3										
						2	22.8	8.1	28.2	6.3	86.3	7.9	7.2											
TCE-WQM3A	Fine			Calm	9:05	4.3	Surface	1.0	1	23.1	8.1	26.5	6.4				87.4	12.4	25.9	6.4	12.7	24.1		
									2	23.1	8.1	26.5	6.4				87.5	12.3	25.5					
							Bottom	3.3	1	23.1	8.1	26.4	6.5	88.5	13.0	22.7								
									2	23.1	8.1	26.4	6.5	88.6	13.1	22.4								
TCE-WQM4	Fine			Calm	9:15	3.3	Surface	1.0	1	23.0	8.1	26.6	6.4	86.6	8.1	8.2	6.4	9.0	10.7					
									2	23.0	8.1	26.6	6.4	86.5	8.2	8.3								
							Bottom	2.3	1	23.0	8.1	26.8	6.4	86.6	9.8	12.9								
									2	23.0	8.1	26.8	6.4	86.6	9.8	13.5								

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)					
29-04-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	15:19	8.9	Surface	1.0	1	23.4	8.1	28.0	8.2	113.5	4.1	5.0	7.7	7.2	5.7					
									2	23.3	8.1	28.0	8.2	113.1	4.3	5.1								
							Middle	4.5	1	22.9	8.1	30.4	7.2	99.6	6.2	6.0								
									2	22.8	8.1	30.4	7.2	99.8	6.6	5.8								
				Bottom	7.9	1	22.8	8.1	30.6	6.9	95.7	10.9	5.9	6.9										
						2	22.8	8.1	30.6	6.9	95.8	11.0	6.3											
		TCE-C2	Cloudy	Moderate	17:12	12.7	Surface	1.0	1	24.0	8.1	26.8	7.4				102.1	5.4	4.7	7.2	7.8	5.7		
									2	24.0	8.1	26.8	7.4				102.1	5.4	4.4					
							Middle	6.4	1	23.5	8.1	27.8	7.0	96.8	7.9	5.4								
									2	23.5	8.1	27.9	7.0	96.6	8.1	5.1								
				Bottom	11.7	1	22.8	8.1	29.7	6.3	86.7	10.0	7.4	6.3										
						2	22.8	8.1	29.7	6.3	86.9	10.0	7.0											
		TCE-WQM1	Cloudy	Moderate	15:56	8.4	Surface	1.0	1	24.1	8.2	27.4	7.6				105.2	7.7	7.2	7.3	10.2	8.0		
									2	24.0	8.2	27.5	7.6				105.1	7.8	7.2					
							Middle	4.2	1	23.5	8.2	28.6	7.0	96.5	10.6	8.3								
									2	23.5	8.2	28.6	7.0	96.5	10.7	8.0								
				Bottom	7.4	1	23.6	8.2	28.6	7.0	97.2	12.0	8.8	7.0										
						2	23.6	8.2	28.6	7.0	97.3	12.2	8.5											
		TCE-WQM2a	Cloudy	Moderate	16:35	7.3	Surface	1.0	1	23.9	8.1	27.2	7.7				105.9	9.3	6.0	7.4	9.9	7.6		
									2	23.9	8.1	27.2	7.7				105.9	9.3	5.8					
							Middle	3.7	1	23.6	8.1	27.4	7.2	98.6	10.6	6.9								
									2	23.5	8.1	27.4	7.1	98.3	10.5	7.2								
				Bottom	6.3	1	23.3	8.1	28.2	6.6	90.4	9.6	9.8	6.6										
						2	23.3	8.1	28.2	6.5	90.2	9.9	9.7											
		TCE-WQM2b	Cloudy	Moderate	16:49	10.4	Surface	1.0	1	23.7	8.1	26.0	7.4				100.8	5.1	3.6	7.1	6.9	4.8		
									2	23.7	8.1	26.0	7.3				100.6	5.2	3.7					
							Middle	5.2	1	23.4	8.1	26.6	6.8	93.5	7.7	4.7								
									2	23.4	8.1	26.6	6.8	93.5	7.7	5.1								
				Bottom	9.4	1	23.4	8.1	26.6	6.9	93.7	8.0	5.9	6.9										
						2	23.4	8.1	26.6	6.9	93.7	8.0	5.7											
		TCE-WQM3A	Cloudy	Moderate	16:22	4.5	Surface	1.0	1	24.0	8.1	26.5	7.2				98.7	15.0	25.5	7.2	14.3	26.3		
									2	23.9	8.1	26.6	7.2				98.7	14.9	26.0					
							Middle	3.5	1	23.4	8.1	26.9	6.6	90.9	13.7	27.0								
									2	23.3	8.1	26.9	6.6	90.7	13.6	26.6								
				Bottom	3.5	1	23.4	8.1	26.9	6.6	90.9	13.7	27.0	6.6										
						2	23.3	8.1	26.9	6.6	90.7	13.6	26.6											
		TCE-WQM4	Cloudy	Moderate	16:11	3.5	Surface	1.0	1	23.9	8.1	26.6	7.5				103.1	8.3	7.4	7.5	9.1	9.1		
									2	23.8	8.1	26.6	7.5				102.9	8.4	7.8					
							Middle	2.5	1	23.6	8.1	26.6	7.1	96.9	9.8	10.8								
									2	23.6	8.1	26.6	7.1	96.8	9.8	10.5								
				Bottom	2.5	1	23.6	8.1	26.6	7.1	96.9	9.8	10.8	7.1										
						2	23.6	8.1	26.6	7.1	96.8	9.8	10.5											
		29-04-20	Mid-Flood	TCE-C1	Cloudy	Moderate	10:19	8.4	Surface	1.0	1	23.2	8.5				28.0	7.8	107.5	5.1	9.8	7.5	7.4	10.1
											2	23.1	8.5				28.0	7.8	107.3	5.3	9.8			
									Middle	4.2	1	22.9	8.5	30.3	7.3	100.4	7.2	10.1						
											2	22.8	8.5	30.4	7.2	99.3	7.4	9.8						
						Bottom	7.4	1	22.7	8.5	30.7	6.8	93.9	9.5	10.7	6.8								
								2	22.7	8.5	30.7	6.8	94.0	10.0	10.5									
TCE-C2	Cloudy			Moderate	8:24	12.1	Surface	1.0	1	23.0	7.8	28.8	6.5	90.0	5.4				3.1	6.3	7.8	4.4		
									2	23.0	7.8	28.7	6.6	90.1	5.5				3.1					
							Middle	6.1	1	22.6	7.8	31.6	6.0	83.2	6.8	4.6								
									2	22.6	7.8	31.6	6.0	83.2	6.8	4.3								
				Bottom	11.1	1	22.5	7.8	31.8	6.0	83.6	11.1	5.5	6.0										
						2	22.5	7.8	31.8	6.0	83.7	11.1	5.8											
TCE-WQM1	Cloudy			Moderate	9:34	8.4	Surface	1.0	1	23.7	8.3	26.5	7.2				99.1	9.1	8.3	7.2	9.3	7.0		
									2	23.7	8.3	26.5	7.2				99.0	9.1	8.1					
							Middle	4.2	1	23.6	8.3	26.5	7.2	98.5	9.3	7.5								
									2	23.6	8.3	26.5	7.2	98.5	9.3	7.1								
				Bottom	7.4	1	23.6	8.3	26.5	7.2	98.2	9.5	5.5	7.2										
						2	23.7	8.3	26.5	7.2	98.3	9.5	5.7											
TCE-WQM2a	Cloudy			Moderate	9:03	7.3	Surface	1.0	1	23.3	8.0	27.3	6.9				94.7	8.6	5.8	6.6	9.7	6.3		
									2	23.3	8.0	27.3	6.9				94.7	8.6	6.1					
							Middle	3.7	1	22.9	8.0	28.0	6.2	85.1	9.8	6.1								
									2	22.9	8.0	27.9	6.3	85.3	10.0	6.4								
				Bottom	6.3	1	22.7	8.0	29.9	6.0	82.9	10.8	6.5	6.0										
						2	22.7	8.0	29.9	6.0	82.9	10.6	6.8											
TCE-WQM2b	Cloudy			Moderate	8:50	11.1	Surface	1.0	1	23.2	8.0	27.6	6.8				93.5	5.4	4.6	6.5	7.7	4.8		
									2	23.2	8.0	27.8	6.8				93.4	5.5	4.3					
							Middle	5.6	1	22.8	8.0	29.4	6.1	84.0	7.5	4.6								
									2	22.8	8.0	29.5	6.1	83.9	7.6	4.9								
				Bottom	10.1	1	22.7	8.0	30.5	6.0	83.2	10.2	5.0	6.0										
						2	22.7	8.0	30.5	6.0	83.2	10.2	5.2											
TCE-WQM3A	Cloudy			Moderate	9:13	4.0	Surface	1.0	1	23.7	8.1	26.4	7.2				98.2	7.2	3.9	7.1	8.1	4.5		
									2	23.7	8.1	26.4	7.1				98.0	7.4	3.6					
							Middle	3.0	1	23.6	8.1	26.5	7.1	97.4	8.8	5.1								
									2	23.6	8.1	26.5	7.1	97.5	8.9	5.4								
				Bottom	3.0	1	23.6	8.1	26.5	7.1	97.4	8.8	5.1	7.1										
						2	23.6	8.1	26.5	7.1	97.5	8.9	5.4											
TCE-WQM4	Cloudy			Moderate	9:23	3.6	Surface	1.0	1	24.0	8.2	26.8	7.2				100.3	6.9	5.8	7.2	6.7	5.3		
									2	24.0	8.2	26.8	7.2				100.2	6.9	5.5					
							Middle	2.6	1	23.9	8.2	26.6	7.2	99.8	6.6	5.1								
									2	23.9	8.2	26.6	7.2	99.9	6.6	4.7								