

Annex G3

## Monitoring Results for Water Quality

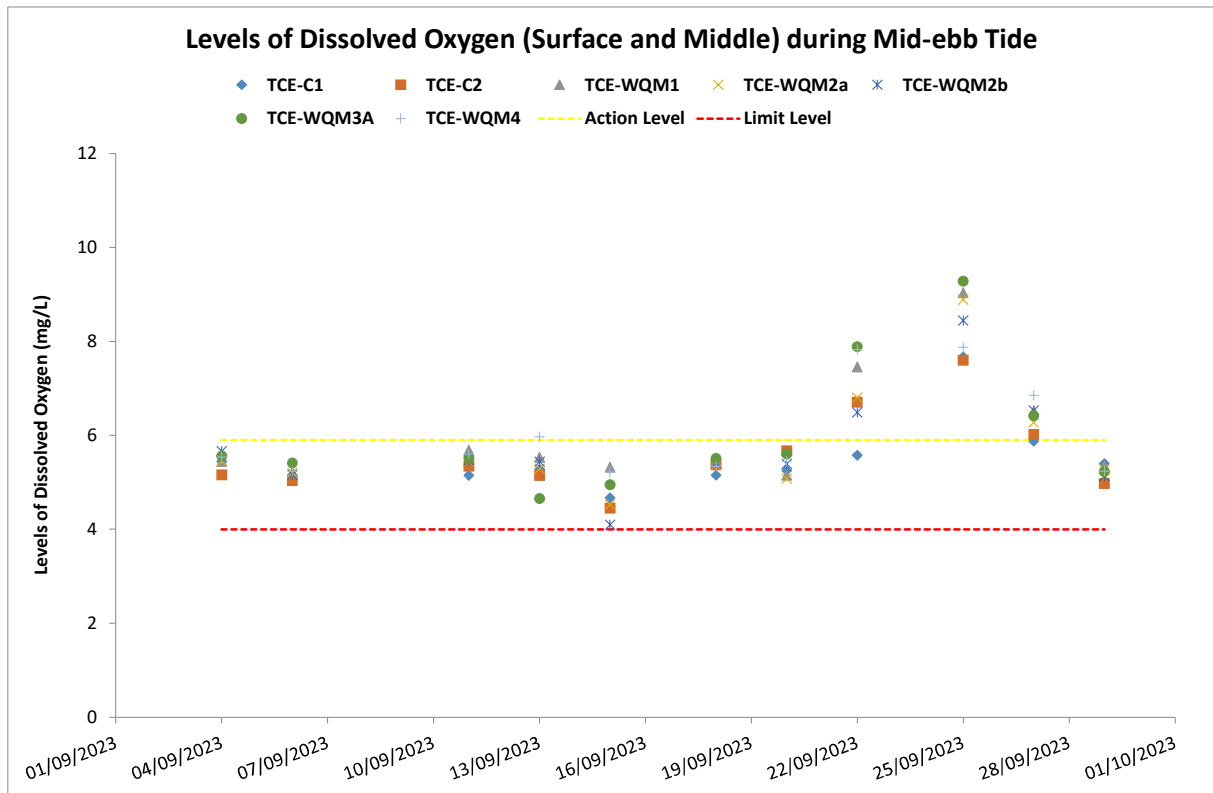


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 September 2023

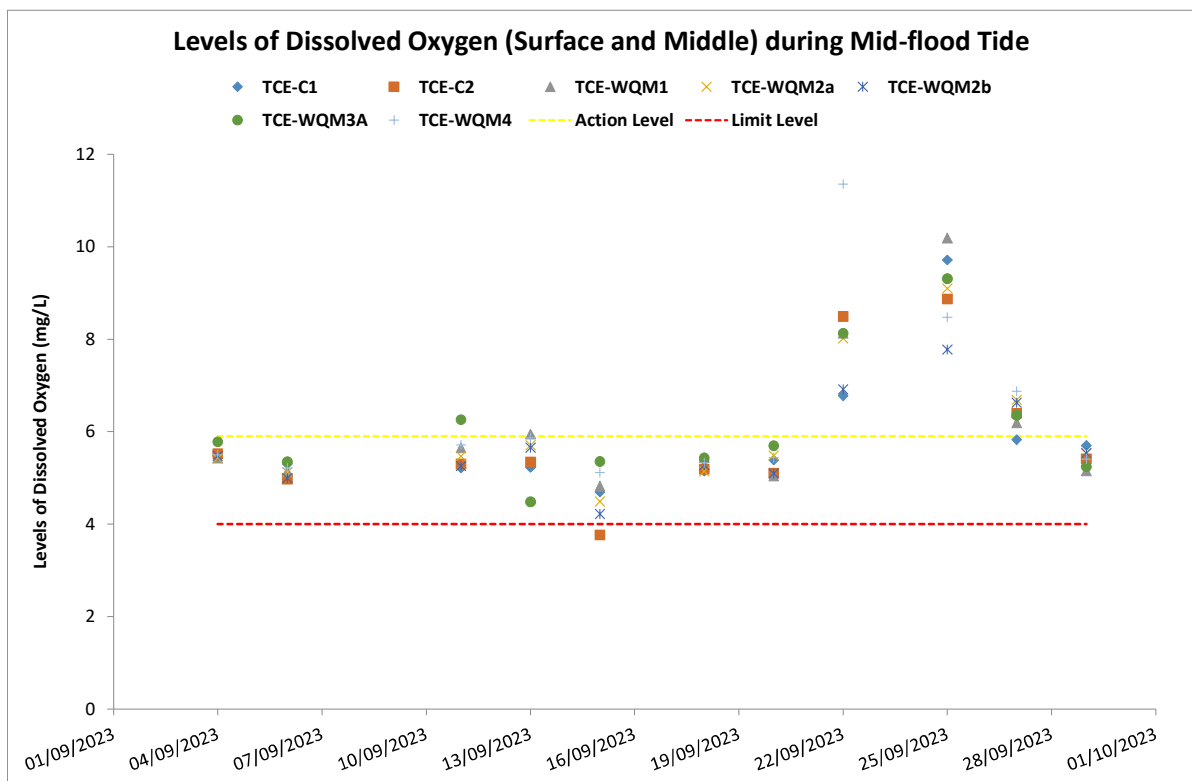


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 September 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: September 2023

**Environmental Resources Management**



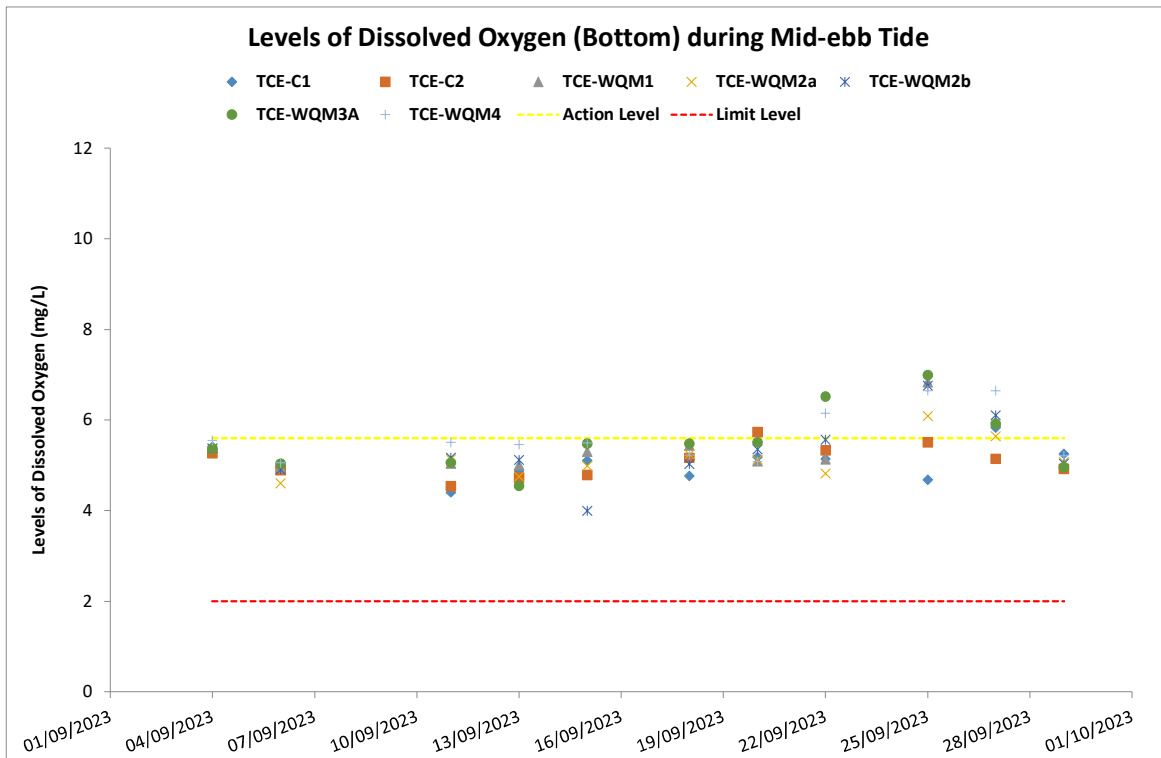


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 September 2023

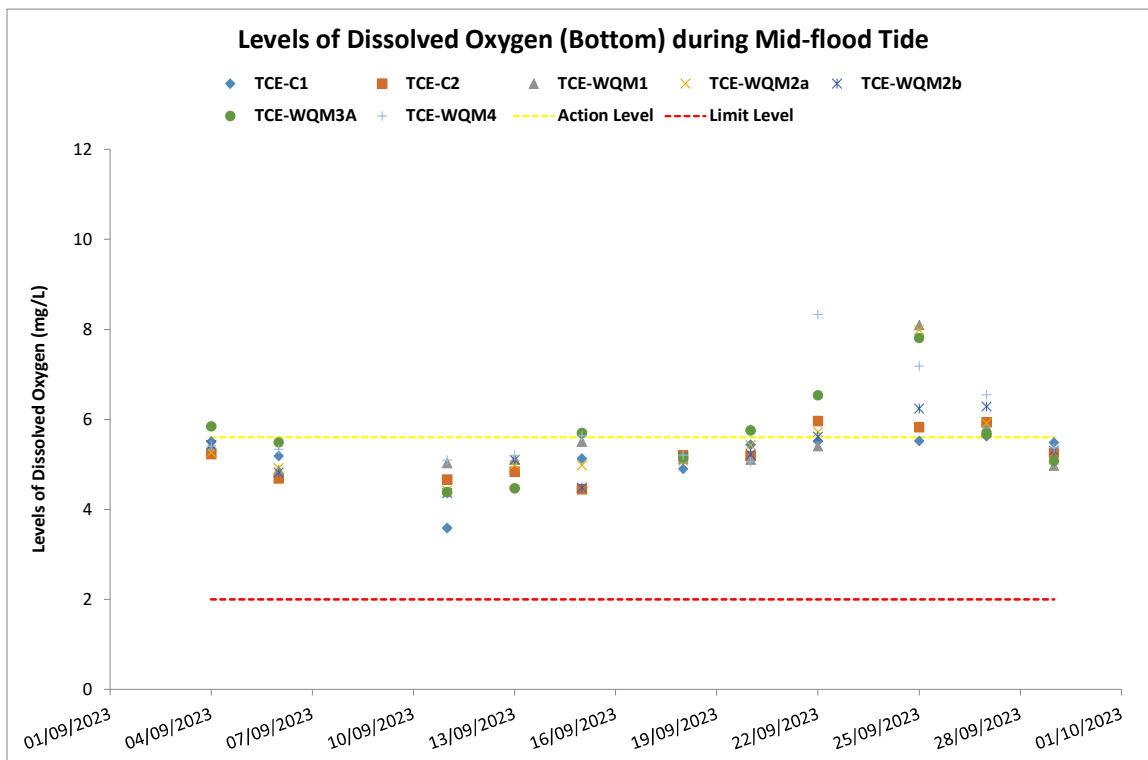


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 September 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: September 2023

**Environmental  
 Resources  
 Management**



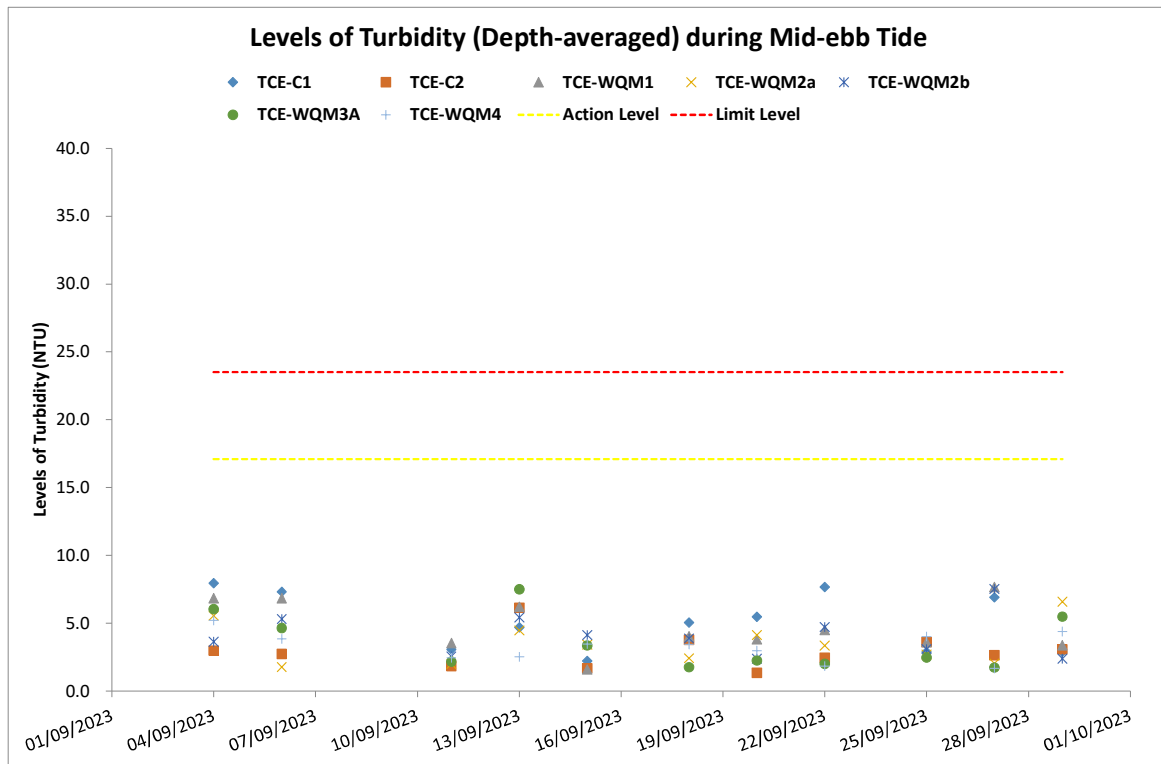


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 September 2023

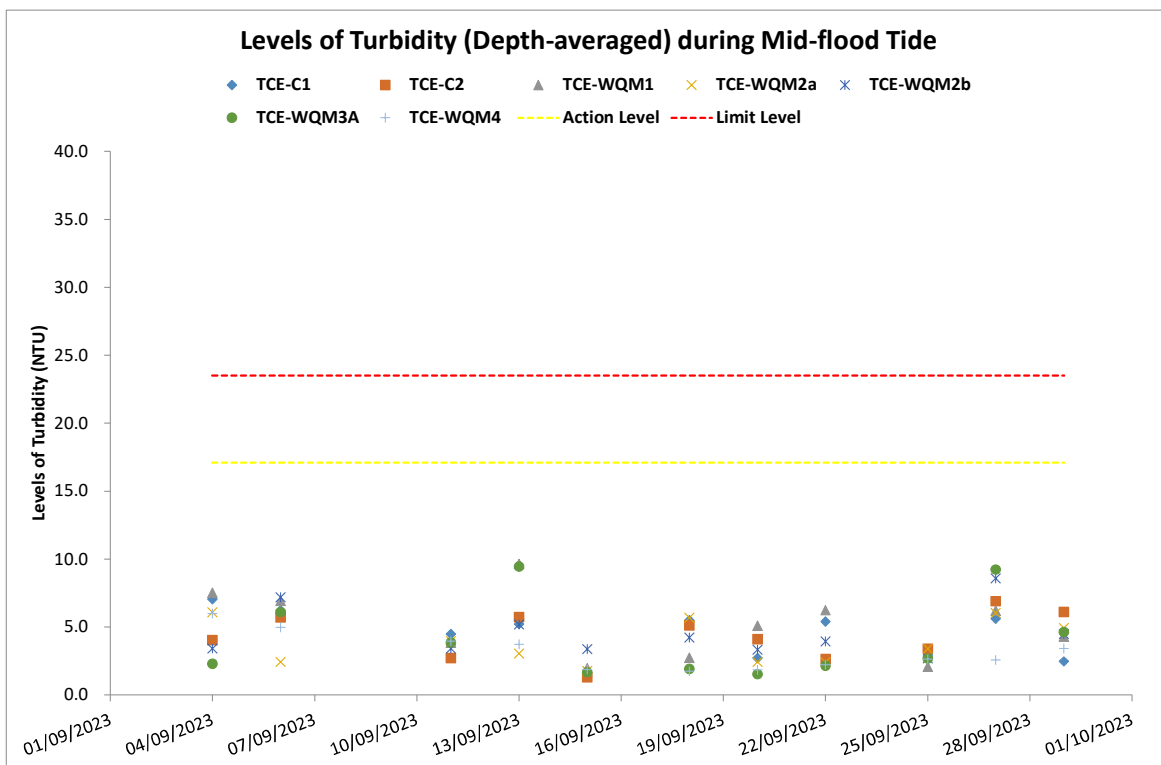


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 September 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: September 2023

**Environmental  
Resources  
Management**



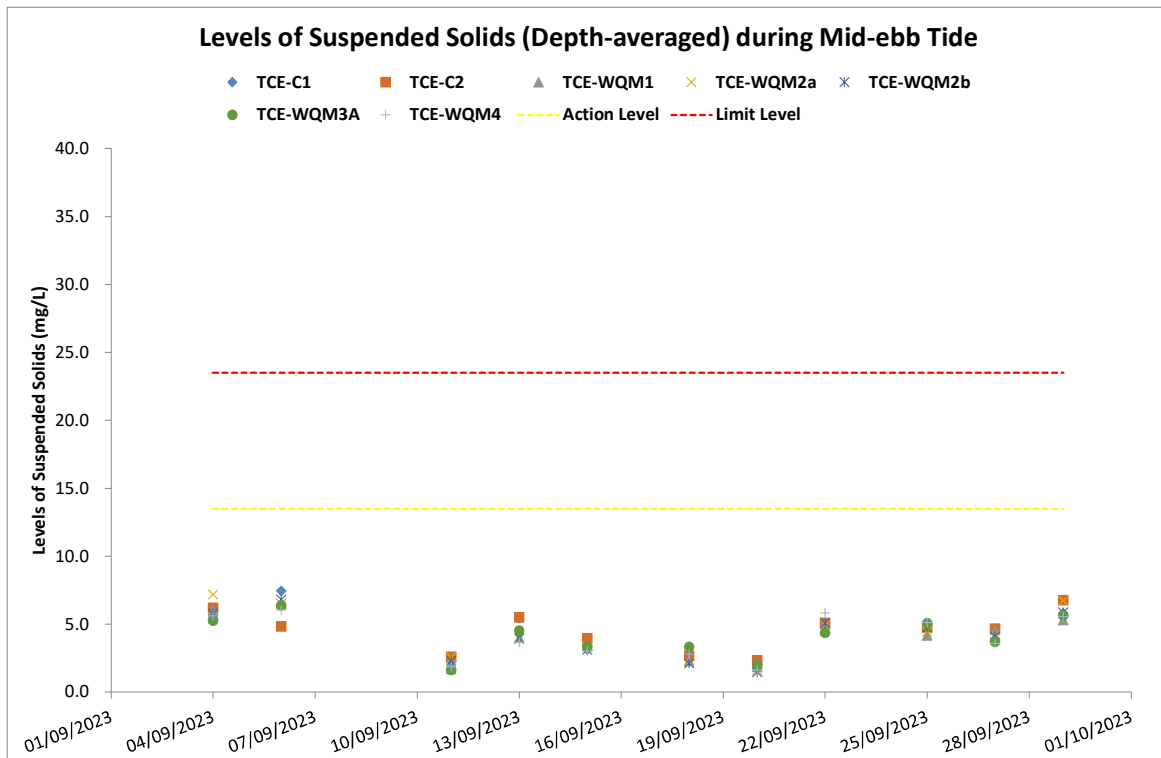


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 September 2023

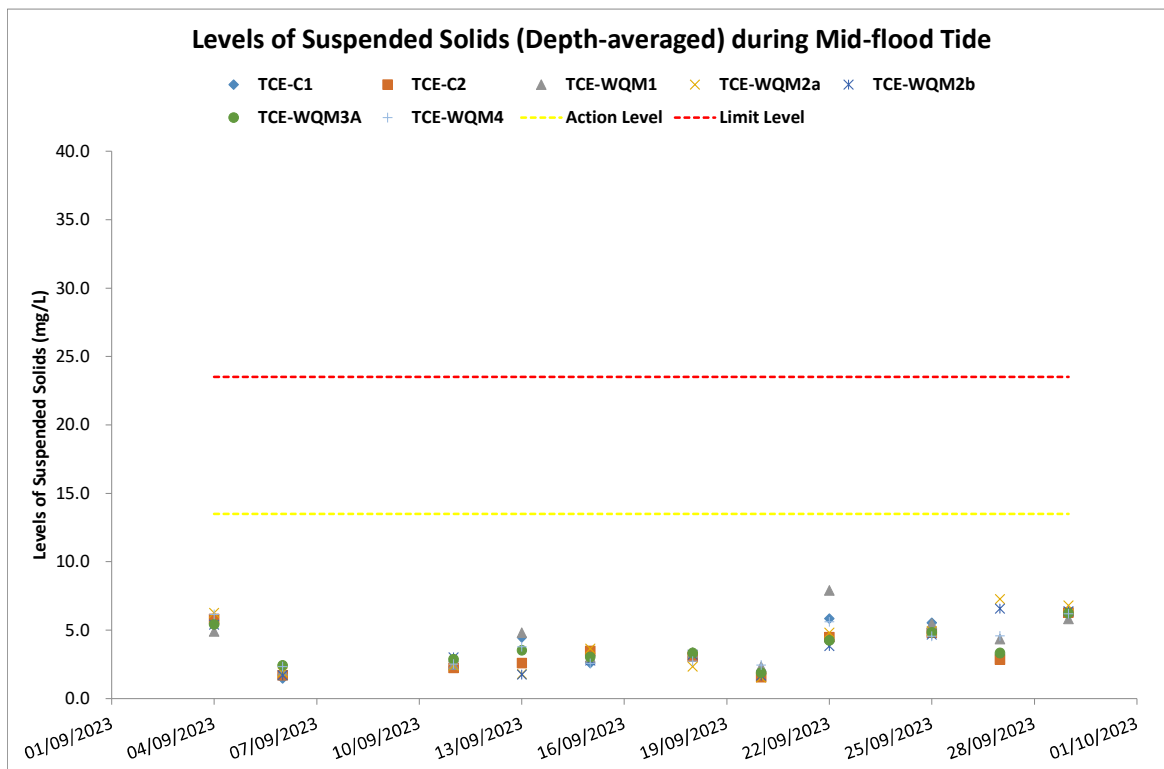


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 September 2023

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)			
2023-09-04	Mid-Ebb	TCE-C1	Misty	Moderate	14:09	8.2	Surface	1.0	1	26.7	7.9	29.5	5.5	80.5	6.7	6.0	5.4	7.9	5.6			
									2	26.7	7.9	29.5	5.5	80.5	6.7	6.2						
							Middle	4.1	1	26.6	7.9	29.7	5.4	79.7	8.1	5.5						
									2	26.6	7.9	29.7	5.4	79.6	8.2	5.8						
				Bottom	7.2	1	26.5	7.9	29.7	5.4	79.5	9.0	5.3	5.4								
				2	26.5	7.9	29.7	5.4	79.5	9.0	5.0											
		TCE-C2	Misty	Moderate	16:01	10.4	Surface	1.0	1	25.5	7.9	32.1	5.1				75.1	1.1	5.6	5.2	3.0	6.2
								2	25.5	7.9	32.1	5.1	75.1				1.1	5.3				
		Middle					5.2	1	25.7	7.9	31.8	5.2	76.3	3.2	5.9							
								2	25.7	7.9	31.8	5.2	76.3	3.3	6.2							
				Bottom	9.4	1	25.5	8.0	32.2	5.3	77.1	4.5	7.4	5.3								
				2	25.5	8.0	32.2	5.3	77.4	4.6	6.9											
	TCE-WQM1	Misty	Moderate	14:52	7.8	Surface	1.0	1	26.5	7.9	29.7	5.5	80.1				5.5	7.2	5.4	6.9	6.0	
							2	26.5	7.9	29.7	5.5	80.1	5.6				7.0					
	Middle					3.9	1	26.5	7.9	29.7	5.4	80.0	7.0	5.8								
							2	26.5	7.9	29.7	5.4	79.9	7.0	6.2								
			Bottom	6.8	1	26.5	7.9	29.8	5.4	79.5	8.0	4.8	5.4									
			2	26.5	7.9	29.8	5.4	79.5	8.0	5.2												
	TCE-WQM2a	Misty	Moderate	15:26	7.2	Surface	1.0	1	26.8	7.9	29.0	5.5				81.4	4.2	6.4	5.4	5.6	7.2	
							2	26.8	7.9	29.0	5.5	81.4				4.2	6.8					
	Middle					3.6	1	26.3	7.9	29.8	5.4	78.4	5.5	7.3								
							2	26.3	7.9	29.9	5.4	78.6	5.5	7.1								
			Bottom	6.2	1	25.9	7.9	30.9	5.4	78.6	7.0	7.9	5.4									
			2	25.9	7.9	30.9	5.4	78.7	7.0	7.6												
TCE-WQM2b	Misty	Moderate	15:39	9.6	Surface	1.0	1	27.0	7.9	29.0	5.7	84.6				3.0	5.3	5.7	3.6	5.8		
						2	26.9	7.9	29.1	5.7	84.4	2.9				5.0						
Middle					4.8	1	26.5	7.9	30.0	5.6	82.4	3.5	6.0									
						2	26.5	7.9	30.0	5.6	82.5	3.4	5.7									
		Bottom	8.6	1	26.0	7.9	31.0	5.4	78.8	4.6	6.5	5.4										
		2	26.1	7.9	30.7	5.4	79.0	4.5	6.2													
TCE-WQM3A	Misty	Moderate	15:16	4.2	Surface	1.0	1	26.9	7.9	27.5	5.6				81.4	5.8	5.0	5.6	6.0	5.3		
						2	26.9	7.9	27.5	5.6	81.1				5.9	4.6						
Bottom					3.2	1	26.5	7.9	28.6	5.4	78.4	6.2	5.8									
						2	26.5	7.9	28.6	5.4	78.5	6.2	5.6									
		TCE-WQM4	Misty	Moderate	15:05	4.0	Surface	1.0	1	26.6	7.9	29.1	5.5	81.2	4.6	5.2	5.5	5.2	5.6			
		2					26.6	7.9	29.1	5.5	81.3	4.6	5.1									
Bottom	3.0	1					26.5	7.9	29.1	5.6	81.3	5.6	6.2									
		2					26.5	7.9	29.2	5.6	81.5	6.0	5.9									
2023-09-04	Mid-Flood	TCE-C1	Misty	Moderate	11:34	9.0	Surface	1.0	1	26.6	7.9	29.5	5.5	80.6	5.9	5.0	5.5	7.1	5.4			
									2	26.6	7.9	29.5	5.5	80.6	5.9	4.8						
							Middle	4.5	1	26.6	7.9	29.6	5.5	80.6	7.2	5.5						
									2	26.6	7.9	29.6	5.5	80.7	7.2	5.2						
				Bottom	8.0	1	26.5	7.9	29.7	5.5	80.8	8.1	6.2	5.5								
				2	26.5	7.9	29.7	5.5	80.9	8.1	5.8											
		TCE-C2	Misty	Moderate	10:02	12.4	Surface	1.0	1	26.4	7.9	29.8	5.6				81.7	3.1	6.8	5.5	4.0	5.8
								2	26.4	7.9	29.8	5.6	81.6				3.1	6.4				
		Middle					6.2	1	26.2	7.9	30.1	5.5	80.6	3.4	5.7							
								2	26.2	7.9	30.2	5.5	80.4	3.4	6.0							
				Bottom	11.4	1	25.8	7.9	31.3	5.2	76.6	5.5	5.2	5.2								
				2	25.7	7.9	31.4	5.2	76.6	5.6	4.8											
	TCE-WQM1	Misty	Moderate	11:08	8.2	Surface	1.0	1	26.5	7.9	29.7	5.4	79.9				6.0	4.1	5.4	7.5	4.9	
							2	26.5	7.9	29.7	5.4	79.9	6.0				4.5					
	Middle					4.1	1	26.4	7.9	29.8	5.4	79.6	7.7	4.7								
							2	26.4	7.9	29.8	5.4	79.6	7.7	4.9								
			Bottom	7.2	1	26.4	7.9	29.8	5.4	79.7	8.9	5.8	5.4									
			2	26.4	7.9	29.8	5.4	79.7	9.0	5.5												
	TCE-WQM2a	Misty	Moderate	10:39	8.0	Surface	1.0	1	26.5	7.9	28.7	5.4				79.5	4.7	7.1	5.4	6.1	6.3	
							2	26.5	7.9	28.7	5.4	79.5				4.7	6.7					
	Middle					4.0	1	26.4	7.9	29.1	5.4	79.0	6.5	6.1								
							2	26.4	7.9	29.1	5.4	78.9	6.5	6.5								
			Bottom	7.0	1	26.0	7.9	30.5	5.3	77.0	7.0	5.4	5.3									
			2	26.0	7.9	30.5	5.3	77.1	7.0	5.8												
TCE-WQM2b	Misty	Moderate	10:27	11.0	Surface	1.0	1	26.6	7.9	28.5	5.5	81.1				2.7	6.2	5.5	3.4	5.4		
						2	26.6	7.9	28.5	5.5	81.0	2.7				5.8						
Middle					5.5	1	26.2	7.9	29.6	5.4	79.2	3.0	5.1									
						2	26.2	7.9	29.6	5.4	79.2	3.0	5.5									
		Bottom	10.0	1	26.1	7.9	30.3	5.4	79.4	4.6	5.0	5.4										
		2	26.1	7.9	30.3	5.4	79.5	4.6	4.8													
TCE-WQM3A	Misty	Moderate	10:48	3.6	Surface	1.0	1	27.0	7.9	26.7	5.8				84.3	1.9	5.7	5.8	2.3	5.4		
						2	27.0	7.9	26.7	5.8	84.4				1.9	6.1						
Bottom					2.6	1	27.1	7.9	26.6	5.8	85.3	2.7	4.7									
						2	27.1	7.9	26.6	5.9	85.3	2.7	5.2									
		TCE-WQM4	Misty	Moderate	10:57	4.6	Surface	1.0	1	26.6	7.9	28.2	5.5	80.4	5.0	5.4	5.5	6.0	6.2			
		2					26.6	7.9	28.2	5.5	80.4	5.0	5.0									
Bottom	3.6	1					26.4	7.9	29.4	5.4	79.1	7.0	7.3									
		2					26.4	7.9	29.4	5.4	79.3	7.0	6.9									

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)
2023-09-06	Mid-Ebb	TCE-C1	Cloudy	Moderate	15:34	8.5	Surface	1.0	1	26.6	7.9	25.0	5.3	75.8	5.2	8.2	5.2	7.3	7.5
									2	26.6	7.9	25.0	5.3	75.6	5.2	7.0			
							Middle	4.3	1	26.3	7.9	26.0	5.1	72.4	5.6	7.0			
									2	26.2	7.9	26.1	5.0	72.2	5.9	7.2			
							Bottom	7.5	1	25.9	7.9	26.9	5.0	71.0	11.1	7.5			
									2	25.9	7.9	26.8	5.0	71.1	10.9	7.8			
				1	26.4	8.0	26.6	5.3	75.7	1.7	7.9								
				2	26.3	8.0	26.6	5.3	75.7	1.7	7.6								
		Middle	7.4	1	25.2	8.0	29.7	4.8	69.3	2.3	6.3								
				2	25.2	8.0	29.8	4.8	69.2	2.5	1.3								
		Bottom	13.7	1	25.1	8.0	30.1	4.9	70.3	4.2	2.3								
				2	25.1	8.0	30.1	4.9	70.5	4.1	3.6								
			1	27.1	7.9	24.8	5.5	79.3	1.1	6.2									
			2	27.1	7.9	24.8	5.5	79.2	1.2	6.6									
	Middle	3.7	1	26.3	7.9	24.8	5.0	70.8	6.0	5.8									
			2	26.2	7.9	24.8	5.0	70.7	5.3	6.6									
	Bottom	6.4	1	26.2	7.9	26.4	5.0	71.0	13.7	6.8									
			2	26.2	7.9	26.4	5.0	71.2	13.7	7.0									
			1	26.8	7.9	24.4	5.4	77.3	1.6	6.5									
			2	26.8	7.9	24.4	5.4	77.3	1.6	6.7									
	Middle	3.1	1	26.3	7.9	25.8	5.0	71.7	2.1	6.8									
			2	26.3	7.9	25.7	5.0	71.9	2.1	5.5									
	Bottom	5.2	1	25.7	7.9	27.6	4.6	65.9	1.7	6.9									
			2	25.7	7.9	27.6	4.6	66.1	1.7	6.6									
		1	26.8	7.9	24.4	5.5	78.2	1.3	6.8										
		2	26.8	7.9	24.4	5.5	78.2	1.3	7.2										
Middle	5.4	1	25.6	7.9	28.0	4.9	69.8	5.2	6.8										
		2	25.6	7.9	28.1	4.9	69.8	5.7	7.0										
Bottom	9.8	1	25.4	7.9	28.9	4.9	70.3	9.1	6.3										
		2	25.4	7.9	28.9	4.9	70.4	9.3	6.8										
		1	26.8	7.9	24.0	5.4	77.6	3.6	6.6										
		2	26.8	7.9	24.1	5.4	77.5	4.2	7.2										
Bottom	3.5	1	26.6	7.9	25.0	5.0	72.3	5.5	5.6										
		2	26.6	7.9	25.0	5.0	72.3	5.4	6.1										
		1	26.7	7.9	24.8	5.2	75.1	6.3	5.6										
		2	26.7	7.9	24.8	5.2	74.8	6.0	4.7										
Bottom	2.5	1	26.4	7.9	25.2	5.1	72.4	1.5	7.1										
		2	26.4	7.9	25.2	5.1	72.5	1.6	6.7										
2023-09-06	Mid-Flood	TCE-C1	Cloudy	Moderate	12:50	8.1	Surface	1.0	1	26.6	8.0	24.9	5.4	77.4	5.3	1.4	5.3	6.2	1.5
									2	26.6	8.0	24.8	5.4	77.5	5.2	1.2			
							Middle	4.1	1	26.4	7.9	25.9	5.2	74.8	5.8	1.7			
									2	26.4	7.9	25.9	5.2	74.6	6.0	1.5			
							Bottom	7.1	1	26.1	7.9	26.6	5.2	74.2	7.9	1.5			
									2	26.0	7.9	26.6	5.2	74.3	7.2	1.5			
				1	26.2	8.0	26.1	5.2	74.0	0.9	2.1								
				2	26.1	8.0	26.2	5.2	74.0	1.0	1.6								
		Middle	7.6	1	25.5	8.0	28.6	4.8	68.6	4.3	1.5								
				2	25.5	8.0	28.6	4.8	68.6	4.4	1.7								
		Bottom	14.2	1	25.1	8.0	30.4	4.7	67.5	11.9	1.6								
				2	25.1	8.0	30.4	4.7	67.6	11.8	1.8								
				1	26.9	7.9	24.9	5.4	77.0	1.9	2.3								
				2	26.9	7.9	24.9	5.3	76.9	1.9	1.8								
		Middle	3.8	1	26.6	7.9	25.4	4.9	70.8	8.2	1.8								
				2	26.6	7.9	25.4	4.9	70.8	8.2	1.8								
		Bottom	6.6	1	26.1	7.9	26.8	4.9	69.7	10.7	2.2								
				2	26.1	7.9	26.8	4.9	70.0	10.8	2.5								
				1	26.7	7.9	24.1	5.4	76.6	1.1	2.2								
				2	26.7	7.9	24.1	5.4	76.6	1.1	1.8								
		Middle	3.4	1	26.0	7.9	26.5	4.9	69.8	3.0	2.1								
				2	26.0	7.9	26.5	4.9	69.9	3.0	1.5								
		Bottom	5.8	1	26.0	7.9	26.6	4.9	70.4	3.2	2.5								
				2	26.0	7.9	26.6	4.9	70.5	3.2	1.4								
		1	26.2	7.9	25.7	5.1	73.5	2.2	1.0										
		2	26.2	7.9	25.7	5.1	73.5	2.1	1.3										
Middle	5.2	1	25.7	7.9	27.4	4.9	69.5	8.9	2.4										
		2	25.7	7.9	27.4	4.9	69.5	9.0	2.0										
Bottom	9.3	1	25.6	7.9	28.0	4.8	69.0	10.2	1.3										
		2	25.6	7.9	28.0	4.8	69.0	10.9	2.2										
		1	26.3	7.9	25.3	5.3	76.3	5.0	1.8										
		2	26.3	7.9	25.3	5.4	76.6	5.1	1.9										
Bottom	3.3	1	26.8	7.9	23.8	5.5	78.3	7.0	2.5										
		2	26.8	7.9	23.9	5.5	78.2	7.3	3.5										
		1	26.6	7.9	24.4	5.2	74.5	8.4	2.6										
		2	26.6	7.9	24.4	5.2	74.5	8.2	2.7										
Bottom	2.9	1	26.7	7.9	24.2	5.4	76.4	1.6	2.3										
		2	26.6	7.9	24.2	5.3	76.0	1.7	1.8										

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)
2023-09-11	Mid-Ebb	TCE-C1	Rainy	Rough	11:52	7.9	Surface	1.0	1	26.7	7.8	23.4	5.5	77.5	3.1	1.5	5.2	3.1	2.2
									2	26.7	7.8	23.4	5.5	77.6	3.1	1.7			
							Middle	4.0	1	26.6	7.8	25.3	4.9	69.6	2.6	2.1			
							Bottom	6.9	1	26.6	7.8	25.3	4.9	69.6	2.6	2.4			
				2	26.4	7.8	27.4	4.4	63.7	3.4	2.7								
				2	26.4	7.8	27.5	4.4	63.9	3.4	3.0								
		TCE-C2	Rainy	Rough	9:38	13.4	Surface	1.0	1	26.5	7.8	24.0	5.7	80.4	1.4	2.3	5.3	1.8	2.6
				2	26.5	7.8	24.0	5.7	80.4	1.5	2.1								
		Middle	6.7	1	26.4	7.8	26.5	5.0	72.5	1.8	2.6								
		Bottom	12.4	1	26.4	7.8	26.5	5.0	72.6	1.8	2.5								
				2	26.1	7.8	30.2	4.5	66.5	2.2	2.9								
				2	26.1	7.8	30.3	4.5	66.5	2.3	3.2								
	TCE-WQM1	Rainy	Moderate	11:03	9.7	Surface	1.0	1	26.6	7.9	23.1	6.0	85.2	2.4	1.2	5.7	3.5	1.7	
			2	26.6	7.9	23.1	6.0	85.2	2.3	1.4									
	Middle	4.9	1	26.5	7.8	24.7	5.4	76.5	4.3	1.8									
	Bottom	8.7	1	26.5	7.8	24.7	5.4	76.6	4.3	1.7									
			2	26.5	7.8	25.9	5.0	72.5	3.9	2.0									
			2	26.5	7.8	25.9	5.0	72.5	3.9	2.2									
	TCE-WQM2a	Rainy	Moderate	10:18	6.7	Surface	1.0	1	26.7	7.8	23.0	5.5	78.7	1.7	2.3	5.4	2.0	2.6	
			2	26.7	7.8	23.0	5.5	78.7	1.7	2.1									
	Middle	3.4	1	26.6	7.8	23.8	5.4	76.2	1.9	2.7									
	Bottom	5.7	1	26.6	7.8	23.7	5.4	76.4	1.9	2.4									
			2	26.5	7.9	24.9	5.1	73.4	2.4	3.0									
			2	26.5	7.9	24.9	5.1	73.4	2.4	2.8									
TCE-WQM2b	Rainy	Rough	10:03	10.4	Surface	1.0	1	26.6	7.8	23.8	5.7	81.5	1.4	1.8	5.5	2.6	2.3		
		2	26.6	7.8	23.8	5.7	81.4	1.4	1.7										
Middle	5.2	1	26.5	7.8	25.5	5.2	74.8	2.5	2.5										
Bottom	9.4	1	26.5	7.8	25.5	5.2	74.8	2.5	2.2										
		2	26.4	7.8	26.3	5.2	74.5	3.8	2.9										
		2	26.4	7.8	26.3	5.2	74.5	3.8	2.6										
TCE-WQM3A	Rainy	Moderate	10:34	5.5	Surface	1.0	1	26.7	7.8	23.0	5.5	78.2	1.8	1.9	5.5	2.2	1.6		
		2	26.7	7.8	23.0	5.5	78.2	1.9	1.6										
Bottom	4.5	1	26.5	7.8	24.8	5.1	72.3	2.5	1.4										
		2	26.5	7.8	24.8	5.1	72.4	2.5	1.6										
TCE-WQM4	Rainy	Moderate	10:46	4.8	Surface	1.0	1	26.8	7.8	22.9	5.6	79.6	1.7	2.1	5.6	2.5	1.9		
		2	26.8	7.8	22.9	5.6	79.6	1.7	2.3										
Bottom	3.8	1	26.7	7.8	23.0	5.5	78.4	3.2	1.7										
		2	26.7	7.8	23.0	5.5	78.1	3.2	1.4										
2023-09-11	Mid-Flood	TCE-C1	Rainy	Rough	16:52	7.3	Surface	1.0	1	26.5	7.9	22.4	6.1	85.7	2.1	1.7	5.2	4.5	2.3
									2	26.5	7.9	22.4	6.1	85.7	2.1	1.5			
							Middle	3.7	1	26.6	7.7	25.0	4.4	62.6	5.2	2.2			
							Bottom	6.3	1	26.6	7.8	25.0	4.4	62.9	5.3	2.6			
				2	26.4	7.8	26.2	3.6	51.4	6.1	3.1								
				2	26.4	7.8	26.2	3.6	51.4	6.1	2.8								
		TCE-C2	Rainy	Rough	19:08	12.8	Surface	1.0	1	26.8	7.8	24.2	5.5	79.1	1.4	1.8	5.3	2.7	2.3
				2	26.8	7.8	24.2	5.5	79.1	1.4	1.9								
		Middle	6.4	1	26.6	7.8	25.5	5.1	73.0	2.5	2.3								
		Bottom	11.8	1	26.6	7.8	25.5	5.1	72.9	2.5	2.1								
				2	26.3	7.8	28.0	4.7	67.6	4.2	2.6								
				2	26.3	7.8	28.0	4.7	67.6	4.3	2.8								
	TCE-WQM1	Rainy	Rough	17:47	9.4	Surface	1.0	1	26.8	7.9	22.2	6.2	87.5	3.1	2.6	5.7	3.8	2.5	
			2	26.8	7.9	22.2	6.2	87.6	3.1	3.0									
	Middle	4.7	1	26.3	7.9	26.4	5.1	73.6	3.6	2.3									
	Bottom	8.4	1	26.3	7.9	26.3	5.1	73.7	3.6	2.6									
			2	26.2	7.9	29.0	5.0	73.1	4.9	2.0									
			2	26.2	7.9	29.0	5.0	73.2	4.9	2.3									
	TCE-WQM2a	Rainy	Rough	18:28	6.7	Surface	1.0	1	26.7	7.8	23.9	5.9	83.5	2.1	1.9	5.5	4.0	2.4	
			2	26.7	7.8	23.9	5.9	83.5	2.1	1.7									
	Middle	3.4	1	26.5	7.8	25.5	5.1	73.1	2.4	2.2									
	Bottom	5.7	1	26.5	7.8	25.5	5.1	73.1	2.4	2.5									
			2	26.3	7.8	28.2	4.4	64.2	7.4	3.2									
			2	26.3	7.8	28.2	4.4	64.2	7.4	2.9									
TCE-WQM2b	Rainy	Rough	18:44	9.7	Surface	1.0	1	26.8	7.8	22.9	5.6	80.1	1.7	2.4	5.3	3.4	3.0		
		2	26.8	7.8	22.9	5.6	80.1	1.7	2.1										
Middle	4.9	1	26.5	7.8	26.2	4.9	70.3	2.2	2.8										
Bottom	8.7	1	26.5	7.8	26.2	4.9	70.2	2.3	3.1										
		2	26.0	7.8	30.6	4.4	64.0	6.3	3.6										
		2	26.0	7.8	30.6	4.4	64.0	6.3	4.0										
TCE-WQM3A	Rainy	Moderate	18:14	4.2	Surface	1.0	1	26.5	7.9	22.5	6.3	88.4	2.0	2.4	6.3	3.9	2.9		
		2	26.5	7.9	22.5	6.3	88.3	2.0	2.8										
Bottom	3.2	1	26.6	7.7	25.0	4.4	62.7	5.7	3.3										
		2	26.6	7.7	25.0	4.4	62.8	5.8	3.0										
TCE-WQM4	Rainy	Moderate	18:01	3.9	Surface	1.0	1	26.5	7.8	22.3	5.7	80.5	3.4	2.1	5.7	4.0	2.5		
		2	26.5	7.8	22.3	5.7	80.5	3.4	2.4										
Bottom	2.9	1	26.3	7.8	27.3	5.1	73.5	4.5	3.0										
		2	26.3	7.8	27.3	5.1	73.7	4.6	2.6										



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)
2023-09-13	Mid-Ebb	TCE-C1	Cloudy	Moderate	13:32	8.3	Surface	1.0	1	27.2	8.0	25.5	5.6	81.4	2.7	4.9	5.3	4.7	5.5
									2	27.2	8.0	25.5	5.6	81.3	2.9	4.3			
							Middle	4.2	1	26.5	8.0	28.6	5.0	72.3	4.7	5.7			
							Bottom	7.3	1	26.5	8.0	28.6	5.0	72.3	4.6	5.4			
				2	26.5	8.0	29.1	4.9	71.3	6.7	6.4								
				2	26.5	8.0	29.2	4.9	71.4	6.7	6.0								
				2	26.9	7.8	25.5	5.4	77.9	3.8	4.9								
				2	26.9	7.8	25.5	5.4	77.9	3.7	4.6								
				1	26.3	7.9	30.3	4.9	72.0	1.7	5.4								
				2	26.3	7.8	30.3	4.9	72.0	1.7	5.7								
				1	26.2	7.9	31.4	4.7	69.9	13.0	6.0								
				2	26.2	7.9	31.4	4.7	69.9	13.0	6.4								
	TCE-C2	Cloudy	Moderate	11:28	14.7	Surface	1.0	1	26.9	7.8	25.5	5.4	77.9	3.8	4.9	5.1	6.1	5.5	
								2	26.9	7.8	25.5	5.4	77.9	3.7	4.6				
						Middle	7.4	1	26.3	7.9	30.3	4.9	72.0	1.7	5.4				
						Bottom	13.7	1	26.3	7.8	30.3	4.9	72.0	1.7	5.7				
			2	26.2	7.9	31.4	4.7	69.9	13.0	6.0									
			2	26.2	7.9	31.4	4.7	69.9	13.0	6.4									
	TCE-WQM1	Cloudy	Moderate	12:43	8.4	Surface	1.0	1	27.5	7.9	24.3	5.8	84.5	3.1	3.7	5.5	6.2	4.0	
								2	27.4	7.9	24.3	5.8	84.3	3.1	3.4				
						Middle	4.2	1	26.8	7.9	26.5	5.2	76.0	5.7	4.0				
						Bottom	7.4	1	26.8	7.9	26.5	5.3	76.1	6.1	3.7				
			2	26.7	8.0	27.6	5.0	72.9	9.3	4.5									
			2	26.7	8.0	27.6	5.0	72.9	10.0	4.8									
TCE-WQM2a	Cloudy	Moderate	12:12	7.6	Surface	1.0	1	27.0	7.9	26.2	5.4	78.2	3.8	2.8	5.3	4.5	3.9		
							2	27.0	7.9	26.2	5.4	78.2	3.8	3.0					
					Middle	3.8	1	26.7	7.9	26.6	5.2	75.4	4.5	3.7					
					Bottom	6.6	1	26.6	7.9	26.6	5.2	75.3	4.7	4.1					
		2	26.3	7.9	30.4	4.8	69.8	5.2	5.2										
		2	26.3	7.9	30.4	4.8	69.9	4.8	4.7										
TCE-WQM2b	Cloudy	Moderate	12:00	11.3	Surface	1.0	1	27.2	7.9	24.4	5.8	83.5	1.2	3.1	5.4	5.4	4.0		
							2	27.1	7.9	24.4	5.8	83.6	1.3	2.8					
					Middle	5.7	1	26.8	7.9	26.4	5.1	73.6	3.8	3.6					
					Bottom	10.3	1	26.8	7.9	26.4	5.1	73.7	3.6	3.2					
		2	26.8	7.9	26.5	5.1	74.3	11.5	5.3										
		2	26.8	7.9	26.5	5.1	74.3	11.1	5.8										
TCE-WQM3A	Cloudy	Moderate	12:23	4.2	Surface	1.0	1	26.8	7.8	26.0	4.7	67.4	6.8	4.3	4.7	7.5	4.5		
							2	26.8	7.9	26.1	4.7	67.3	6.9	3.8					
					Bottom	3.2	1	26.7	7.9	27.1	4.6	66.1	8.1	4.9					
		2	26.7	7.9	27.1	4.6	66.1	8.1	5.1										
TCE-WQM4	Cloudy	Moderate	12:33	3.2	Surface	1.0	1	27.6	7.9	24.4	6.0	86.8	2.3	3.4	6.0	2.5	3.7		
							2	27.6	7.9	24.5	6.0	86.8	2.3	3.1					
					Bottom	2.2	1	27.4	7.9	24.8	5.5	79.2	2.7	3.9					
		2	27.4	7.9	24.8	5.5	79.2	2.7	4.3										
2023-09-13	Mid-Flood	TCE-C1	Cloudy	Moderate	17:40	8.2	Surface	1.0	1	27.1	8.0	25.7	5.6	80.9	3.0	3.9	5.2	5.2	4.5
									2	27.0	8.0	25.7	5.6	80.7	3.1	3.6			
							Middle	4.1	1	26.5	7.9	28.6	4.9	71.5	5.0	4.1			
							Bottom	7.2	1	26.5	7.9	28.6	4.9	71.3	5.2	4.4			
				2	26.5	7.9	29.2	4.8	70.8	7.7	5.6								
				2	26.5	7.9	29.2	4.8	70.9	7.4	5.1								
		TCE-C2	Cloudy	Moderate	19:38	14.4	Surface	1.0	1	27.4	7.9	25.1	5.8	84.5	2.2	3.6	5.3	5.7	2.6
									2	27.4	7.9	25.1	5.8	84.6	2.2	3.2			
							Middle	7.2	1	26.5	7.9	27.9	4.9	70.9	7.1	2.9			
							Bottom	13.4	1	26.4	7.9	27.9	4.9	70.8	7.2	2.5			
				2	26.3	8.0	30.1	4.8	70.9	7.8	1.5								
				2	26.3	8.0	30.0	4.8	71.0	7.9	1.9								
	TCE-WQM1	Cloudy	Moderate	18:26	7.6	Surface	1.0	1	27.7	8.0	24.5	6.1	89.5	5.0	6.6	6.0	9.6	4.8	
								2	27.7	8.0	24.6	6.1	89.5	5.2	6.8				
						Middle	3.8	1	27.1	8.0	25.1	5.8	83.3	12.6	4.4				
						Bottom	6.6	1	27.1	8.0	25.1	5.8	83.2	12.1	4.0				
			2	26.7	7.9	27.4	5.1	74.4	11.9	3.5									
			2	26.7	7.9	27.4	5.1	74.5	11.2	3.6									
	TCE-WQM2a	Cloudy	Moderate	18:56	6.3	Surface	1.0	1	27.5	7.9	25.6	5.7	83.8	2.4	1.3	5.7	3.1	1.8	
								2	27.5	7.9	25.6	5.7	83.8	2.4	1.5				
						Middle	3.2	1	27.2	7.9	26.4	5.7	82.9	3.2	1.9				
						Bottom	5.3	1	27.1	7.9	26.5	5.7	82.7	3.2	1.7				
			2	26.7	7.9	27.6	5.0	72.8	3.6	2.3									
			2	26.7	7.9	27.6	5.0	72.8	3.6	2.1									
TCE-WQM2b	Cloudy	Moderate	19:07	11.0	Surface	1.0	1	27.3	7.9	23.4	6.3	89.9	2.9	2.5	5.7	5.2	1.8		
							2	27.2	7.9	23.4	6.2	89.1	3.5	2.2					
					Middle	5.5	1	26.7	7.9	26.5	5.1	73.5	6.1	1.5					
					Bottom	10.0	1	26.7	7.9	26.6	5.1	73.4	6.2	1.8					
		2	26.7	7.9	26.8	5.1	74.0	6.2	1.1										
		2	26.7	7.9	26.7	5.1	74.1	6.4	1.4										
TCE-WQM3A	Cloudy	Moderate	18:47	4.2	Surface	1.0	1	26.8	7.8	27.1	4.5	65.1	8.7	3.1	4.5	9.5	3.5		
							2	26.8	7.8	27.1	4.5	65.2	8.3	3.3					
					Bottom	3.2	1	26.6	7.8	27.8	4.5	65.2	10.4	4.0					
		2	26.6	7.8	27.9	4.5	65.2	10.4	3.7										
TCE-WQM4	Cloudy	Moderate	18:38	3.4	Surface	1.0	1	27.6	7.9	25.0	5.9	85.6	3.3	3.6	5.9	3.7	3.8		
							2	27.6	7.9	25.0	5.9	85.5	3.3	3.0					
					Bottom	2.4	1	27.2	7.9	25.9	5.2	75.9	4.2	4.4					
		2	27.2	7.9	25.9	5.2	75.8	4.2	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)		
2023-09-15	Mid-Ebb	TCE-C1	Misty	Moderate	14:27	9.0	Surface	1.0	1	27.3	8.0	26.2	4.9	71.3	1.3	3.5	4.7	2.2	3.1		
									2	27.3	8.0	26.3	4.6	67.6	1.3	3.8					
							Middle	4.5	1	27.2	8.0	29.0	4.6	67.8	2.2	3.1					
									2	27.2	8.0	29.0	4.6	68.2	2.2	3.2					
				Bottom	8.0	1	27.2	8.0	29.1	5.0	74.2	3.1	2.7	5.1							
						2	27.2	8.0	29.1	5.2	77.1	3.1	2.5								
		TCE-C2	1.0	1	27.6	7.9	26.0	4.4	65.1	1.0	3.4										
				2	27.6	7.9	26.0	4.4	65.0	1.0	3.0										
				Middle	6.2	1	27.6	7.9	26.1	4.5	65.3	1.3	4.1	4.5	1.7	4.0					
						2	27.6	7.9	26.1	4.5	65.5	1.3	3.7								
				Bottom	11.4	1	27.6	7.9	26.0	4.8	70.0	2.7	4.6								
						2	27.6	7.9	26.0	4.8	70.4	2.7	5.0								
			TCE-WQM1	Misty	Moderate	13:48	8.2	Surface	1.0	1	28.2	8.0	24.4	5.3	77.6	1.1	3.1	5.3	1.6	3.4	
					2	28.2	8.0	24.4	5.3	77.7	1.1	2.9									
			Middle	4.1	1	28.2	8.0	24.4	5.3	78.3	1.6	3.2									
					2	28.2	8.0	24.5	5.4	78.8	1.5	3.4									
					Bottom	7.2	1	28.1	8.0	24.8	5.3	78.5	2.1	4.2	5.3						
					2	28.1	8.0	24.7	5.3	78.4	2.1	3.8									
	TCE-WQM2a	1.0	1	27.9	8.0	25.2	4.5	66.2	2.7	3.8											
			2	27.9	8.0	25.2	4.5	66.2	2.7	4.2											
			Middle	4.0	1	27.6	8.0	26.1	4.4	64.8	3.4	3.5	4.5	3.4	3.4						
					2	27.5	8.0	26.1	4.7	68.3	3.4	3.2									
			Bottom	7.0	1	27.4	8.0	26.3	4.9	72.2	4.2	2.9									
					2	27.5	8.0	26.2	5.1	74.0	4.3	2.7									
		TCE-WQM2b	Misty	Moderate	13:08	11.0	Surface	1.0	1	27.5	7.9	26.2	4.2	60.9	3.2	4.1	4.1	4.1	3.1		
				2	27.5	7.9	26.3	4.1	60.6	3.2	3.8										
		Middle	5.5	1	27.1	7.9	27.0	4.1	59.3	4.4	2.8										
				2	27.1	7.9	27.0	4.1	59.3	4.4	3.2										
				Bottom	10.0	1	27.2	7.9	27.3	4.0	58.6	4.8	2.5	4.0							
				2	27.3	7.9	27.2	4.0	58.7	4.8	2.3										
TCE-WQM3A	1.0	1	28.0	8.0	24.8	5.0	72.5	3.0	4.2												
		2	27.9	8.0	24.9	5.0	72.6	2.9	4.7												
		Bottom	4.6	1	27.9	8.0	25.2	5.5	80.7	3.8	2.1	5.5	3.4	3.4							
				2	27.9	8.0	25.0	5.4	80.4	3.8	2.5										
TCE-WQM4	1.0	1	27.9	8.0	24.9	5.2	76.2	3.1	3.2												
		2	27.9	8.0	24.9	5.2	76.6	3.1	3.7												
		Bottom	3.6	1	27.9	8.0	24.9	5.4	79.3	3.8	2.6	5.5	3.5	3.0							
				2	27.9	8.0	24.9	5.6	81.8	3.8	2.6										
TCE-WQM4	1.0	1	27.9	8.0	24.9	5.2	76.2	3.1	3.2												
		2	27.9	8.0	24.9	5.2	76.6	3.1	3.7												
2023-09-15	Mid-Flood	TCE-C1	Misty	Moderate	18:09	8.2	Surface	1.0	1	27.4	8.0	25.3	4.9	72.2	1.1	1.9	4.7	1.3	2.6		
									2	27.3	8.0	25.3	4.7	68.0	1.1	1.6					
							Middle	4.1	1	27.1	8.0	28.9	4.6	68.3	1.1	2.6					
									2	27.1	8.0	29.0	4.6	68.8	1.1	2.3					
				Bottom	7.2	1	27.1	7.9	29.3	5.0	75.1	1.9	3.4	5.1							
						2	27.2	7.9	29.2	5.2	77.9	1.8	3.8								
		TCE-C2	1.0	1	26.6	7.9	28.7	3.7	54.8	0.5	2.7										
				2	26.5	7.9	28.9	3.7	54.5	0.6	3.0										
				Middle	5.2	1	26.2	7.9	29.4	3.8	55.5	1.3	3.2	3.8	1.3	3.5					
						2	26.1	7.9	29.5	3.9	56.9	1.3	3.6								
				Bottom	9.4	1	26.1	7.9	29.6	4.4	64.3	2.1	4.0								
						2	26.1	7.9	29.4	4.5	66.2	2.1	4.4								
				TCE-WQM1	Misty	Moderate	18:46	7.8	Surface	1.0	1	28.4	8.0	24.2	4.7	69.4	1.2	2.5	4.8	2.0	3.0
						2	28.3	8.0	24.3	4.7	69.8	1.2	2.1								
				Middle	3.9	1	28.3	8.0	24.3	4.8	71.3	1.8	3.2								
						2	28.2	8.0	24.3	5.1	74.9	1.8	2.9								
						Bottom	6.8	1	28.1	8.0	24.4	5.4	79.6	3.0	3.9	5.5					
						2	28.1	8.0	24.4	5.6	82.9	2.9	3.4								
		TCE-WQM2a	1.0	1	27.9	7.9	25.4	4.5	66.6	1.1	3.2										
				2	27.9	7.9	25.4	4.5	66.6	1.1	3.0										
				Middle	3.6	1	27.7	7.9	25.8	4.5	66.2	1.3	3.8	4.5	1.8	3.7					
						2	27.6	7.9	25.9	4.5	66.3	1.3	3.4								
				Bottom	6.2	1	27.4	7.9	26.8	5.0	73.6	2.9	4.4								
						2	27.4	7.9	26.8	5.0	73.6	2.9	4.1								
			TCE-WQM2b	Misty	Moderate	19:27	9.6	Surface	1.0	1	27.2	7.9	27.1	4.4	65.1	2.8	3.5	4.2	3.4	2.8	
					2	27.1	7.9	27.2	4.3	63.6	2.9	3.2									
			Middle	4.8	1	26.8	7.9	27.8	4.1	59.9	3.2	2.6									
					2	26.8	7.9	28.0	4.1	60.2	3.2	2.9									
					Bottom	8.6	1	26.6	7.9	28.6	4.4	64.4	4.1	2.4	4.5						
					2	26.8	7.9	28.4	4.6	67.8	4.1	2.1									
	TCE-WQM3A	1.0	1	28.1	7.9	24.8	5.3	78.9	1.2	2.3											
			2	28.1	7.9	24.8	5.4	79.6	1.2	2.5											
			Bottom	3.2	1	27.9	7.9	25.0	5.6	83.2	2.1	3.5	5.7	1.7	3.1						
					2	27.8	7.9	25.0	5.8	84.8	2.1	3.9									
	TCE-WQM4	1.0	1	28.5	7.9	24.8	5.1	75.6	1.5	3.2											
			2	28.5	7.9	24.8	5.2	76.8	1.4	3.6											
			Bottom	3.0	1	28.4	7.9	24.8	5.6	83.0	2.3	1.6	5.6	1.9	2.6						
					2	28.4	7.9	24.8	5.7	84.4	2.3	1.9									

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)
2023-09-18	Mid-Ebb	TCE-C1	Sunny	Moderate	13:07	8.1	Surface	1.0	1	28.1	7.8	23.3	5.3	76.5	2.4	1.7	5.2	5.0	2.4
									2	28.1	7.8	23.3	5.3	76.5	2.4	1.8			
							Middle	4.1	1	27.8	7.8	23.8	5.1	73.4	4.7	2.7			
									2	27.8	7.8	23.8	5.1	73.3	4.7	2.3			
							Bottom	7.1	1	27.8	7.8	24.3	4.8	69.5	8.0	3.1			
									2	27.8	7.8	24.3	4.8	69.6	8.1	2.9			
				1	27.6	7.9	25.2	5.5	80.1	2.1	2.1								
				2	27.5	7.9	25.2	5.5	80.2	2.1	2.4								
		Middle	6.5	1	27.2	7.9	28.8	5.2	77.7	2.7	2.8								
				2	27.2	7.9	28.8	5.2	77.6	2.7	2.6								
		Bottom	11.9	1	27.1	8.0	29.4	5.2	76.3	6.5	3.1								
				2	27.1	8.0	29.4	5.2	76.4	6.5	3.0								
			1	28.4	7.9	23.7	5.4	79.3	4.1	3.0									
			2	28.4	7.9	23.7	5.4	79.3	4.2	2.7									
	Middle	4.6	1	28.2	7.9	23.7	5.4	79.3	3.2	2.4									
			2	28.2	7.9	23.7	5.4	79.3	3.2	2.2									
	Bottom	8.2	1	28.1	7.9	23.7	5.4	79.4	4.8	1.9									
			2	28.1	7.9	23.7	5.4	79.4	4.8	1.7									
			1	28.1	7.9	24.3	5.5	79.9	1.3	2.5									
			2	28.1	7.9	24.3	5.5	79.9	1.3	2.8									
	Middle	3.6	1	27.5	7.9	26.1	5.3	77.6	2.3	2.3									
			2	27.5	7.9	26.1	5.3	77.6	2.3	2.1									
	Bottom	6.1	1	27.2	7.9	28.4	5.2	77.3	3.7	1.7									
			2	27.2	7.9	28.4	5.2	77.3	3.7	1.8									
		1	27.4	7.9	25.7	5.6	82.6	2.8	2.5										
		2	27.4	7.9	25.7	5.6	82.5	2.9	2.8										
Middle	4.8	1	27.2	7.9	28.3	5.2	76.3	3.6	2.3										
		2	27.2	7.9	28.3	5.2	76.3	3.6	2.1										
Bottom	8.6	1	27.1	7.9	29.0	5.0	74.4	5.1	1.7										
		2	27.1	7.9	29.0	5.0	74.4	5.2	1.3										
		1	28.3	7.9	23.4	5.5	80.5	1.8	5.2										
		2	28.3	7.9	23.4	5.5	80.5	1.8	2.3										
Bottom	4.1	1	28.1	7.9	23.9	5.5	80.2	1.7	3.0										
		2	28.1	7.9	23.9	5.5	80.2	1.7	2.8										
		1	28.1	7.9	23.4	5.3	77.9	2.8	3.0										
		2	28.1	7.9	23.4	5.3	77.9	2.8	3.4										
Bottom	3.3	1	27.9	7.9	24.0	5.2	76.2	4.0	2.5										
		2	27.9	7.9	24.0	5.2	76.3	4.1	2.2										
		1	27.9	7.8	22.9	5.2	75.6	4.7	2.8										
		2	27.9	7.8	22.9	5.2	75.6	4.8	2.5										
Middle	3.9	1	27.8	7.8	23.4	5.1	73.3	5.2	3.1										
		2	27.8	7.8	23.4	5.1	73.3	5.2	3.4										
Bottom	6.7	1	27.8	7.8	23.4	4.9	71.0	6.5	4.1										
		2	27.8	7.8	23.4	4.9	71.1	6.6	3.9										
		1	27.2	7.9	29.1	5.2	76.8	3.1	3.9										
		2	27.2	7.9	29.1	5.2	76.8	3.1	3.6										
Middle	6.7	1	27.0	7.9	29.9	5.2	76.9	4.8	3.2										
		2	27.0	7.9	29.9	5.2	76.9	4.8	2.8										
Bottom	12.4	1	27.0	7.9	30.7	5.2	77.5	7.6	2.3										
		2	27.0	7.9	30.7	5.2	77.5	7.5	2.6										
		1	28.2	7.9	23.8	5.5	79.3	1.9	3.7										
		2	28.2	7.9	23.7	5.5	79.3	1.9	4.1										
Middle	4.4	1	27.4	7.9	26.2	5.4	79.1	2.6	3.2										
		2	27.4	7.9	26.2	5.4	79.1	2.6	3.5										
Bottom	7.8	1	27.3	7.9	26.7	5.1	75.0	3.7	3.0										
		2	27.3	7.9	26.7	5.1	75.0	3.7	2.7										
		1	27.6	7.9	25.1	5.2	76.3	3.4	2.7										
		2	27.6	7.9	25.1	5.2	76.3	3.4	2.9										
Middle	3.6	1	27.1	7.9	28.3	5.1	74.5	6.5	2.5										
		2	27.1	7.9	28.3	5.1	74.5	6.5	2.2										
Bottom	6.2	1	27.1	7.9	28.3	5.1	74.8	7.1	1.8										
		2	27.1	7.9	28.3	5.1	74.8	7.2	1.9										
		1	27.5	7.9	26.3	5.3	78.2	3.2	4.2										
		2	27.5	7.9	26.3	5.3	78.2	3.3	3.8										
Middle	4.9	1	27.1	7.9	29.7	5.3	77.5	4.4	3.0										
		2	27.1	7.9	29.7	5.3	77.5	4.4	3.2										
Bottom	8.8	1	27.0	7.9	29.8	5.2	76.7	5.0	2.3										
		2	27.0	7.9	29.8	5.2	76.7	5.0	2.7										
		1	28.1	7.9	23.8	5.4	79.4	1.6	3.0										
		2	28.1	7.9	23.8	5.4	79.3	1.6	2.6										
Bottom	3.9	1	27.4	7.9	26.4	5.2	75.5	2.2	4.0										
		2	27.4	7.9	26.4	5.2	75.5	2.3	3.7										
		1	28.1	7.9	23.8	5.3	78.0	1.5	3.2										
		2	28.1	7.9	23.8	5.3	78.1	1.5	2.9										
Bottom	3.1	1	27.6	7.9	25.2	5.2	76.1	2.0	2.2										
		2	27.6	7.9	25.3	5.2	76.1	2.0	2.6										

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)
2023-09-20	Mid-Ebb	TCE-C1	Sunny	Moderate	14:13	8.0	Surface	1.0	1	28.1	7.9	20.5	5.3	75.7	4.9	1.6	5.3	5.5	1.8
									2	28.1	7.9	20.5	5.3	75.5	4.9	1.7			
							Middle	4.0	1	28.0	7.9	20.6	5.2	75.0	5.4	2.2			
							Bottom	7.0	1	28.1	7.9	20.5	5.2	74.6	6.1	1.6			
				2	28.1	7.9	20.5	5.2	73.9	6.1	2.0								
		TCE-C2	Cloudy	Moderate	15:55	10.0	Surface	1.0	1	27.7	8.0	21.8	5.7	82.0	1.0	2.8	5.7	1.3	2.4
									2	27.6	8.0	21.9	5.7	81.9	1.0	2.3			
							Middle	5.0	1	27.4	8.0	25.8	5.6	82.0	1.3	2.7			
							Bottom	9.0	1	27.3	8.0	26.0	5.6	82.2	1.3	2.0			
				2	27.3	8.0	26.1	5.7	83.7	1.7	1.7								
		TCE-WQM1	Sunny	Moderate	14:51	8.8	Surface	1.0	1	28.0	7.9	20.7	5.2	75.0	2.0	2.7	5.2	3.8	1.8
									2	28.0	7.9	20.7	5.2	74.7	2.0	1.9			
	Middle						4.4	1	27.8	7.9	21.4	5.1	72.9	3.4	1.8				
	Bottom						7.8	1	27.8	7.9	21.5	5.1	72.9	3.4	1.5				
			2	27.8	7.9	21.8	5.1	73.1	5.9	1.5									
	TCE-WQM2a	Sunny	Moderate	15:22	7.8	Surface	1.0	1	27.5	7.9	21.5	5.1	72.8	2.9	1.8	5.1	4.1	1.6	
								2	27.5	7.9	21.5	5.1	72.8	2.9	1.7				
						Middle	3.9	1	27.1	7.9	24.9	5.1	73.0	4.4	1.6				
						Bottom	6.8	1	27.1	7.9	25.0	5.1	73.2	4.5	1.8				
			2	27.1	7.9	25.2	5.1	74.1	5.0	1.6									
	TCE-WQM2b	Cloudy	Moderate	15:31	9.4	Surface	1.0	1	28.6	7.9	19.2	5.5	79.0	1.3	1.2	5.4	2.4	1.5	
								2	28.6	7.9	19.2	5.5	78.8	1.3	1.8				
						Middle	4.7	1	27.2	7.9	22.6	5.3	75.6	2.4	1.9				
						Bottom	8.4	1	27.2	7.9	24.9	5.3	76.2	2.4	1.3				
		2	27.2	7.9	24.9	5.3	76.5	3.4	1.4										
TCE-WQM3A	Sunny	Moderate	15:12	4.0	Surface	1.0	1	28.2	7.9	19.2	5.6	80.0	1.6	2.4	5.6	2.2	2.0		
							2	28.1	7.9	19.3	5.6	79.8	1.7	1.5					
					Bottom	3.0	1	27.9	7.9	20.1	5.5	78.5	2.8	2.4					
							2	27.9	7.9	20.2	5.5	78.7	2.9	1.7					
TCE-WQM4	Sunny	Moderate	15:03	4.2	Surface	1.0	1	28.3	7.9	20.8	5.5	78.7	2.4	1.8	5.4	3.0	1.7		
							2	28.1	7.9	21.0	5.4	77.9	2.3	1.4					
					Bottom	3.2	1	27.9	7.9	21.2	5.1	72.9	3.5	1.8					
							2	27.9	7.9	21.2	5.1	72.8	3.7	1.6					
2023-09-20	Mid-Flood	TCE-C1	Sunny	Moderate	11:16	9.0	Surface	1.0	1	28.0	7.9	20.5	5.4	77.0	2.0	1.8	5.4	2.7	1.8
									2	28.0	7.9	20.5	5.4	77.0	2.0	2.0			
							Middle	4.5	1	28.0	7.9	20.6	5.4	77.4	2.9	1.5			
							Bottom	8.0	1	28.0	7.9	20.6	5.4	77.4	2.9	1.8			
				2	28.0	7.9	20.5	5.4	77.8	3.3	1.8								
		TCE-C2	Sunny	Moderate	9:36	12.0	Surface	1.0	1	27.3	8.0	23.2	5.2	74.2	2.9	1.5	5.1	4.1	1.6
									2	27.2	8.0	23.2	5.2	74.1	3.0	1.2			
							Middle	6.0	1	26.8	8.0	27.7	5.0	73.5	4.0	2.0			
							Bottom	11.0	1	26.9	8.0	27.8	5.2	75.5	5.4	1.7			
				2	26.9	8.0	27.8	5.2	76.2	5.4	1.8								
		TCE-WQM1	Sunny	Moderate	10:36	8.6	Surface	1.0	1	27.9	7.9	20.9	5.1	73.1	4.1	1.7	5.0	5.1	2.3
									2	27.9	7.9	21.0	5.1	72.8	4.1	1.8			
	Middle						4.3	1	27.8	7.9	21.5	5.0	71.7	5.2	3.0				
	Bottom						7.6	1	27.7	7.9	21.6	5.0	71.6	5.2	2.6				
			2	27.6	7.9	22.1	5.1	72.9	6.0	2.7									
	TCE-WQM2a	Cloudy	Moderate	10:07	7.0	Surface	1.0	1	28.3	7.9	19.2	5.6	80.5	1.2	1.9	5.5	2.4	1.5	
								2	28.3	7.9	19.2	5.6	80.5	1.2	1.6				
						Middle	3.5	1	27.6	7.9	21.5	5.3	76.3	2.6	1.0				
						Bottom	6.0	1	27.7	7.9	21.6	5.3	76.4	2.7	1.6				
			2	28.1	7.9	21.8	5.4	77.9	3.4	1.6									
	TCE-WQM2b	Sunny	Moderate	9:57	11.2	Surface	1.0	1	27.5	7.9	22.1	5.1	73.0	1.3	2.4	5.1	3.3	1.7	
								2	27.5	7.9	22.2	5.1	72.9	1.3	1.7				
						Middle	5.6	1	27.3	7.9	23.5	5.1	73.5	3.2	1.5				
						Bottom	10.2	1	27.3	7.9	23.6	5.1	73.6	3.2	1.4				
		2	27.3	7.9	23.8	5.2	75.1	5.5	1.5										
TCE-WQM3A	Cloudy	Moderate	10:17	4.0	Surface	1.0	1	28.0	7.9	19.4	5.7	81.0	1.0	2.3	5.7	1.5	1.9		
							2	28.0	7.9	19.4	5.7	81.1	1.0	1.6					
					Bottom	3.0	1	28.0	7.9	19.6	5.8	81.9	2.1	2.1					
							2	28.1	7.9	19.6	5.8	82.2	2.1	1.6					
TCE-WQM4	Cloudy	Moderate	10:26	4.4	Surface	1.0	1	28.3	7.9	20.2	5.4	78.2	1.0	2.9	5.4	1.9	2.5		
							2	28.2	7.9	20.3	5.4	78.1	1.0	2.2					
					Bottom	3.4	1	27.8	7.9	21.2	5.1	72.3	2.7	1.9					
							2	27.8	7.9	21.2	5.1	72.6	2.7	2.8					

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)	
2023-09-22	Mid-Ebb	TCE-C1	Fine	Moderate	6:49	7.8	Surface	1.0	1	27.8	8.1	26.8	5.9	86.5	5.4	5.7	5.6	7.7	4.7	
									2	27.8	8.1	26.7	5.9	86.5	5.4	6.0				
							Middle	3.9	1	27.3	8.1	29.7	5.3	79.0	8.2	5.0				
							Bottom	6.8	1	27.2	8.1	29.7	5.3	78.8	8.2	4.5				
						2	27.2	8.1	31.0	5.1	77.0	9.4	3.4	5.1						
				2	27.2	8.1	31.0	5.2	77.1	9.5	3.8									
		Surface	1.0	1	29.9	8.1	18.3	7.7	111.9	1.9	4.8									
				2	29.9	8.1	18.3	7.7	111.7	1.8	4.4									
				Middle	6.2	1	28.4	7.9	25.2	5.8	85.3	2.3	5.2	6.7	2.4	5.1				
				2	28.4	7.9	25.2	5.8	85.3	2.3	5.0									
		Bottom	11.4	1	28.0	7.9	28.1	5.3	79.7	3.2	5.5									
				2	28.0	7.9	28.1	5.3	79.7	3.2	5.7									
			TCE-WQM1	Fine	Moderate	5:58	8.3	Surface	1.0	1	29.7	8.2	20.2	8.9	130.2	2.6	4.7	7.5	4.5	5.1
									2	29.7	8.2	20.2	8.8	129.6	2.6	4.3				
			Middle					4.2	1	29.0	8.0	22.0	6.1	89.1	3.2	5.4				
			2					29.0	8.0	21.9	6.1	89.2	3.2	5.0						
			Bottom	7.3	1	28.3	8.0	24.9	5.1	75.7	7.7	5.6	5.1							
					2	28.3	8.0	24.9	5.1	75.7	7.7	5.3								
			Surface	1.0	1	29.4	8.1	19.0	7.8	112.8	2.2	4.6				6.8	3.3	5.0		
					2	29.4	8.1	19.0	7.8	112.8	2.2	4.4								
			Middle	3.5	1	28.8	7.9	22.5	5.9	85.8	3.1	4.8								
			2	28.7	7.9	22.5	5.8	85.5	3.1	5.1										
			Bottom	5.9	1	28.3	7.9	26.0	4.8	71.5	4.8	5.4	4.8							
					2	28.3	7.9	26.0	4.8	71.5	4.7	5.4								
		Surface	1.0	1	29.3	8.1	19.5	7.3	106.5	2.0	4.2	6.5				4.7	5.1			
				2	29.2	8.1	19.5	7.3	106.3	2.1	4.6									
		Middle	4.8	1	28.5	8.0	23.8	5.8	84.7	5.9	5.3									
		2	28.5	8.0	24.6	5.6	82.1	5.9	5.0											
		Bottom	8.6	1	28.5	8.0	24.6	5.6	82.2	6.1	5.8	5.6								
				2	28.5	8.0	24.6	5.6	82.3	6.2	5.5									
		Surface	1.0	1	29.5	8.1	18.8	7.9	114.9	2.0	3.6				7.9	2.0	4.4			
				2	29.4	8.1	18.8	7.9	114.3	2.1	3.1									
		Bottom	3.1	1	29.0	8.0	21.8	6.5	95.6	2.0	5.1									
				2	29.0	8.0	21.8	6.5	95.6	1.9	5.6									
		TCE-WQM4	Fine	Moderate	5:46	3.8	Surface	1.0	1	29.5	8.1	21.1	7.8	115.4	1.9	5.4	7.8	1.8	5.8	
								2	29.5	8.1	21.1	7.8	115.2	1.9	5.0					
		Bottom					2.8	1	28.8	8.0	22.7	6.2	90.5	1.8	6.7					
								2	28.8	8.0	22.7	6.2	90.5	1.9	6.2					
2023-09-22	Mid-Flood	TCE-C1	Fine	Moderate	15:51	8.1	Surface	1.0	1	30.0	8.3	20.6	7.7	113.6	4.3	5.0	6.8	5.4	5.9	
									2	29.9	8.3	20.6	7.7	113.6	4.4	4.6				
							Middle	4.1	1	28.5	8.0	24.0	5.9	86.5	5.1	6.2				
							2	28.5	8.0	24.2	5.9	86.5	5.2	5.9						
				Bottom	7.1	1	28.4	8.0	24.5	5.5	81.3	6.7	6.9	5.5						
						2	28.5	8.0	24.4	5.5	81.4	6.7	6.5							
				Surface	1.0	1	29.8	8.3	20.9	10.0	147.0	2.2	5.2				8.5	2.7	4.5	
						2	29.8	8.3	20.7	10.0	147.4	2.2	4.9							
				Middle	6.7	1	28.7	8.1	25.2	7.0	104.1	2.1	4.3							
				2	28.6	8.1	25.2	7.0	104.2	2.1	4.6									
				Bottom	12.3	1	27.8	8.1	31.2	6.0	90.2	3.7	4.2	6.0						
						2	27.8	8.1	31.2	6.0	90.2	3.7	3.8							
				Surface	1.0	1	30.3	8.4	20.3	10.1	150.7	4.1	8.8				8.1	6.2	7.9	
						2	30.3	8.4	20.3	10.1	150.7	4.1	8.6							
				Middle	4.4	1	28.8	8.0	23.0	6.1	90.0	5.3	7.6							
				2	28.7	8.0	23.2	6.1	89.9	5.5	8.0									
				Bottom	7.7	1	28.4	8.0	24.5	5.4	79.6	9.2	7.0	5.4						
						2	28.4	8.0	24.5	5.4	79.7	9.3	7.4							
				Surface	1.0	1	29.7	8.4	20.7	10.2	150.4	2.2	5.6				8.0	2.4	4.8	
						2	29.7	8.4	20.7	10.2	150.4	2.2	5.3							
				Middle	3.6	1	28.4	8.0	24.8	5.8	86.2	2.0	4.9							
				2	28.4	8.0	24.8	5.9	86.6	2.0	4.6									
				Bottom	6.2	1	28.1	8.0	27.2	5.7	85.2	3.1	4.1	5.7						
						2	28.1	8.0	27.2	5.7	85.2	3.1	4.4							
		Surface	1.0	1	30.1	8.2	16.3	8.3	119.6	3.2	4.6	6.9	3.9				3.8			
				2	30.1	8.2	16.2	8.2	118.7	3.2	4.3									
		Middle	5.4	1	28.3	8.0	26.3	5.6	83.2	3.9	3.6									
		2	28.3	8.0	26.2	5.6	83.3	3.9	4.0											
		Bottom	9.7	1	27.8	8.0	29.8	5.6	84.3	4.7	3.4	5.6								
				2	27.8	8.0	29.8	5.6	84.5	4.7	3.1									
		Surface	1.0	1	29.2	8.2	21.2	8.1	119.3	1.9	4.0				8.1	2.2	4.3			
				2	29.2	8.2	21.3	8.1	119.2	2.0	3.8									
		Bottom	3.9	1	28.9	8.0	22.7	6.5	96.2	2.4	4.4									
				2	28.9	8.1	22.7	6.5	96.1	2.4	4.8									
		TCE-WQM4	Fine	Calm	16:42	4.5	Surface	1.0	1	29.9	8.4	20.2	11.4	167.8	2.1	6.4	11.4	2.2	5.6	
								2	29.9	8.4	20.2	11.4	167.5	2.1	6.0					
		Bottom					3.5	1	29.3	8.2	21.3	8.3	122.5	2.3	4.9					
								2	29.3	8.2	21.4	8.3	122.5	2.3	5.2					

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)
2023-09-25	Mid-Ebb	TCE-C1	Sunny	Rough	10:04	7.4	Surface	1.0	1	28.2	8.3	23.5	8.0	117.1	2.3	4.2	7.7	2.9	4.8
									2	28.2	8.3	23.5	8.0	117.2	2.3	4.4			
							Middle	3.7	1	28.0	8.3	24.1	7.3	106.9	2.6	4.7			
							Bottom	6.4	1	27.7	8.0	25.3	4.7	68.5	3.7	5.4			
									2	27.7	8.0	25.3	4.7	68.5	3.8	5.1	4.7		
									2	28.2	8.4	23.9	9.1	133.2	2.1	4.2			
		Middle	6.6	1	27.6	8.1	24.6	6.1	88.8	2.8	5.0								
		Bottom	12.2	1	27.2	8.1	28.4	5.5	81.2	5.9	5.4								
									2	27.2	8.1	28.4	5.5	81.4	5.9	5.0	5.5		
									2	28.1	8.4	23.7	9.4	136.8	2.0	3.5			
		Middle	4.8	1	27.9	8.4	24.0	8.7	127.3	2.4	4.0								
		Bottom	8.6	1	27.7	8.2	25.1	6.8	100.0	6.4	4.7								
									2	27.7	8.2	25.2	6.8	99.8	6.4	4.9	6.8		
									2	28.3	8.5	23.3	9.5	138.8	1.7	4.9			
		Middle	3.6	1	28.1	8.4	23.7	8.3	120.9	2.7	4.4								
		Bottom	6.1	1	27.6	8.1	24.7	6.1	88.7	3.6	4.2								
									2	27.6	8.1	24.7	6.1	88.7	3.6	4.1	6.1		
									2	28.5	8.5	22.0	10.0	145.0	2.2	5.3			
		Middle	4.8	1	27.7	8.2	23.3	6.9	100.4	2.9	4.5								
		Bottom	8.6	1	27.7	8.2	23.3	6.9	100.3	3.0	4.9								
									2	27.7	8.2	23.5	6.8	97.9	4.2	4.5	6.8		
									2	27.7	8.2	23.5	6.8	98.0	4.1	4.1			
		Middle	3.9	1	27.7	8.2	24.4	7.0	101.9	3.2	5.8								
		Bottom	3.9	1	27.7	8.2	24.4	7.0	101.8	3.3	5.2								
								2	27.7	8.2	24.4	7.0	101.8	3.3	5.2	7.0			
								2	27.8	8.4	24.6	7.9	115.5	3.5	4.7				
	Middle	3.1	1	27.7	8.2	25.0	6.7	97.1	4.5	6.0									
	Bottom	3.1	1	27.7	8.2	25.0	6.7	97.1	4.5	6.0									
								2	27.7	8.2	25.0	6.7	97.1	4.5	6.0	6.7			
								2	28.7	8.5	22.7	10.1	147.4	2.2	4.8				
	Middle	3.6	1	28.4	8.5	23.0	9.4	137.2	2.3	5.4									
	Bottom	6.1	1	27.9	8.3	23.9	5.5	81.1	2.1	6.2									
								2	27.9	8.3	23.9	5.5	81.1	2.1	6.0	5.5			
								2	28.3	8.5	23.8	10.5	153.9	2.6	4.2				
	Middle	6.5	1	27.6	8.3	24.8	7.3	105.7	3.4	4.9									
	Bottom	11.9	1	27.3	8.1	27.3	5.8	85.0	4.2	5.4									
								2	27.3	8.1	27.3	5.8	85.1	4.3	5.1	5.8			
								2	28.7	8.5	22.7	10.3	151.2	2.1	4.4				
	Middle	4.5	1	28.6	8.5	22.8	10.1	147.6	2.1	5.8									
	Bottom	7.9	1	28.2	8.3	23.6	8.1	118.3	2.1	6.0									
								2	28.2	8.3	23.6	8.1	118.4	2.1	6.7	8.1			
								2	28.5	8.5	23.5	10.1	148.5	3.2	5.4				
	Middle	3.5	1	27.9	8.3	23.8	8.1	117.7	4.1	4.6									
	Bottom	5.9	1	27.8	8.3	23.9	8.0	116.2	2.9	4.8									
								2	27.8	8.3	23.9	8.0	116.2	2.9	4.6	8.0			
								2	27.8	8.3	24.3	7.9	114.9	2.8	4.3				
	Middle	4.6	1	27.7	8.3	24.5	7.7	111.8	2.9	4.5									
	Bottom	8.2	1	27.5	8.1	25.9	6.2	91.3	2.4	5.2									
							2	27.5	8.1	25.8	6.2	91.3	2.5	5.1	6.2				
							2	28.1	8.5	23.7	9.3	135.9	3.4	4.4					
Middle	3.1	1	27.8	8.3	23.9	7.8	113.6	1.9	5.2										
Bottom	3.1	1	27.8	8.3	23.9	7.8	113.7	2.0	5.0										
							2	27.8	8.3	23.9	7.8	113.7	2.0	5.0	7.8				
							2	28.2	8.4	23.5	8.5	124.0	1.9	5.5					
Middle	2.8	1	27.6	8.1	25.2	7.2	104.9	3.4	3.7										
Bottom	2.8	1	27.6	8.1	25.2	7.2	104.7	3.4	4.0										
							2	27.6	8.1	25.2	7.2	104.7	3.5	4.0	7.2				
							2	28.2	8.4	23.5	8.5	123.5	1.9	5.0					
Middle	1.0	1	28.2	8.4	23.5	8.5	123.5	1.9	5.0										
Bottom	2.8	1	27.6	8.1	25.2	7.2	104.9	3.4	3.7										
							2	27.6	8.1	25.2	7.2	104.7	3.5	4.0	7.2				

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)
2023-09-27	Mid-Ebb	TCE-C1	Sunny	Moderate	12:28	8.2	Surface	1.0	1	28.7	8.0	26.9	6.0	90.3	3.8	4.7	5.9	6.9	3.9
									2	28.7	8.0	26.9	6.0	90.1	3.9	4.4			
							Middle	4.1	1	28.3	8.0	27.5	5.7	85.7	8.9	3.7			
							Bottom	7.2	1	28.3	8.0	27.5	5.7	85.7	7.8	4.0			
				2	28.3	8.0	27.5	5.8	87.1	8.6	3.2	5.8							
				2	28.3	8.0	27.5	5.9	87.5	8.4	3.5								
		Surface	1.0	1	28.5	8.0	25.4	6.4	95.0	0.2	4.0								
				2	28.5	8.0	25.4	6.4	94.7	0.2	3.6								
				1	28.1	7.9	26.8	5.6	83.8	3.1	4.9	6.0	2.6	4.7					
		Middle	7.3	1	28.1	7.9	26.8	5.6	83.8	3.1	4.5								
		Bottom	13.6	1	27.8	7.8	28.3	5.1	76.6	4.6	5.8								
				2	27.8	7.8	28.3	5.2	76.8	4.7	5.3								
			1	29.1	8.1	25.0	6.7	100.3	7.5	4.9	6.5	7.7	4.6						
			2	29.1	8.1	25.0	6.7	100.1	7.5	5.2									
	Middle	3.9	1	28.7	8.0	25.3	6.3	93.9	4.6	4.3									
	Bottom	6.7	1	28.7	8.0	25.3	6.3	93.7	4.6	4.6									
			2	28.3	8.0	26.1	6.0	88.4	10.9	4.1	6.0								
			2	28.3	8.0	26.1	6.0	88.6	11.0	4.3									
	Surface	1.0	1	28.7	8.0	25.5	6.4	95.7	0.6	3.7									
			2	28.7	8.0	25.5	6.4	95.7	0.6	3.5									
			1	28.4	8.0	25.9	6.1	91.0	0.8	4.1	6.3	2.0	4.2						
	Middle	3.4	1	28.4	8.0	25.9	6.1	90.6	0.8	4.3									
	Bottom	5.8	1	28.1	8.0	27.0	5.7	84.4	4.5	4.9									
			2	28.0	8.0	27.2	5.6	83.4	5.0	4.6									
		1	28.7	8.1	25.1	7.0	103.9	1.5	3.4	6.5	7.5	4.1							
		2	28.7	8.1	25.1	7.0	103.6	1.5	3.0										
Middle	5.6	1	28.2	8.0	26.2	6.1	90.3	10.6	4.0										
Bottom	10.2	1	28.2	8.0	26.2	6.1	90.2	10.7	4.3										
		2	28.2	8.0	26.2	6.1	90.5	10.9	5.1	6.1									
		2	28.2	8.0	26.2	6.1	90.6	10.1	4.9										
Surface	1.0	1	28.7	8.0	24.5	6.4	95.3	1.3	3.5										
		2	28.7	8.0	24.5	6.4	95.1	1.3	3.1										
		1	28.3	8.0	25.8	5.9	87.8	2.2	3.9	5.9	1.7	3.7							
Bottom	3.0	1	28.3	8.0	25.8	5.9	87.8	2.2	3.9										
		2	28.3	8.0	25.8	5.9	87.8	2.1	4.3										
		2	28.3	8.0	25.8	5.9	87.8	2.1	4.3										
		1	29.0	8.1	24.9	6.9	102.3	1.6	4.1	6.9	1.7	3.6							
		2	29.0	8.1	24.9	6.9	102.1	1.6	3.8										
Bottom	2.5	1	28.9	8.1	24.9	6.7	99.1	1.8	3.1										
		2	28.9	8.1	24.9	6.6	98.8	1.8	3.4										
2023-09-27	Mid-Flood	TCE-C1	Fine	Moderate	16:46	8.4	Surface	1.0	1	28.9	8.0	26.7	6.0	90.8	2.7	2.5	5.8	5.6	3.2
									2	28.9	8.0	26.7	6.0	90.7	2.9	2.8			
							Middle	4.2	1	28.3	8.0	27.5	5.6	84.0	6.0	3.1			
							Bottom	7.4	1	28.3	8.0	27.5	5.6	84.1	6.3	3.4			
				2	28.3	8.0	27.4	5.6	84.1	7.8	3.6	5.6							
				2	28.3	8.0	27.3	5.6	84.1	8.0	3.8								
		Surface	1.0	1	28.8	8.1	25.2	6.7	99.5	2.7	2.1								
				2	28.8	8.1	25.2	6.7	99.3	2.9	2.4								
				1	28.4	8.0	25.7	6.1	90.8	7.5	2.6	6.4	6.9	2.9					
		Middle	7.1	1	28.4	8.0	25.7	6.1	90.8	7.2	3.0								
		Bottom	13.2	1	28.2	8.0	26.3	5.9	88.0	10.5	3.6								
				2	28.3	8.0	26.3	5.9	88.2	10.6	3.4								
				1	29.2	8.1	24.8	6.5	97.9	5.1	4.7	6.2	6.2	4.4					
				2	29.2	8.1	24.8	6.5	97.5	5.3	5.1								
		Middle	4.2	1	28.5	8.0	25.4	5.9	87.1	3.3	4.2								
		Bottom	7.4	1	28.5	8.0	25.5	5.9	87.0	2.9	4.4								
				2	28.3	8.0	26.0	5.8	86.5	10.1	3.6	5.8							
				2	28.3	8.0	26.0	5.8	86.5	10.6	4.0								
		Surface	1.0	1	29.0	8.1	24.9	6.9	103.1	0.8	5.1								
				2	29.0	8.1	24.9	6.9	103.1	0.8	5.4								
				1	28.6	8.1	25.7	6.5	96.3	5.9	6.8	6.7	6.0	7.3					
		Middle	3.6	1	28.6	8.1	25.7	6.5	96.3	5.9	6.8								
		Bottom	6.2	1	28.5	8.1	25.9	6.4	95.8	6.4	7.2								
				2	28.3	8.0	26.5	5.9	87.9	11.3	9.4								
		2	28.2	8.0	26.5	5.9	88.0	11.0	9.7	5.9									
		2	28.2	8.0	26.5	5.9	88.0	11.0	9.7										
Surface	1.0	1	28.7	8.1	24.6	6.8	101.4	6.4	5.8										
		2	28.7	8.1	24.6	6.8	101.3	6.7	6.2										
		1	28.6	8.1	25.0	6.4	95.4	8.6	6.8	6.6	8.6	6.6							
Middle	5.8	1	28.6	8.1	25.0	6.4	95.4	8.6	6.8										
Bottom	10.6	1	28.5	8.0	25.2	6.3	93.1	10.4	7.0										
		2	28.5	8.0	25.2	6.3	93.1	10.8	7.2										
		1	28.9	8.1	25.0	6.4	94.7	8.0	3.2	6.4	9.2	3.3							
		2	28.8	8.1	25.0	6.4	94.5	8.2	2.9										
Bottom	3.2	1	28.5	8.0	25.7	5.7	84.6	10.2	3.4										
		2	28.5	8.0	25.8	5.7	84.4	10.5	3.8										
		1	29.0	8.1	25.0	6.9	102.6	2.0	5.4	6.9	2.6	4.6							
		2	29.0	8.1	25.0	6.9	102.5	2.1	4.9										
Bottom	2.1	1	28.7	8.1	25.4	6.6	97.5	2.8	4.2										
		2	28.7	8.1	25.4	6.6	97.5	3.4	3.8										

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)			
2023-09-29	Mid-Ebb	TCE-C1	Sunny	Rough	13:42	7.9	Surface	1.0	1	29.0	7.9	25.9	5.5	82.2	0.8	6.1	5.4	2.9	5.8			
							Middle	4.0	1	28.7	7.9	26.0	5.3	79.7	2.1	5.5						
							Bottom	6.9	1	28.5	7.9	26.7	5.3	79.5	5.7	5.4						
		TCE-C2	Sunny	Moderate	11:34	13.1	Surface	1.0	1	28.2	7.9	28.1	5.0	75.1	2.1	7.3	5.0	3.1	6.8			
							Middle	6.6	1	28.2	7.9	28.4	4.9	74.3	3.1	6.8						
							Bottom	12.1	1	28.2	7.8	28.9	4.9	74.1	3.9	6.5						
		TCE-WQM1	Sunny	Moderate	12:49	9.6	Surface	1.0	1	28.8	7.9	26.0	5.4	81.3	1.9	4.5	5.4	3.4	5.3			
							Middle	4.8	1	28.7	7.9	26.1	5.3	78.6	2.0	5.1						
							Bottom	8.6	1	28.4	7.9	27.3	5.0	75.2	6.2	6.2						
		TCE-WQM2a	Sunny	Moderate	12:12	7.1	Surface	1.0	1	28.5	7.9	26.6	5.3	79.5	5.4	6.2	5.3	6.6	6.7			
							Middle	3.6	1	28.4	7.9	27.0	5.2	78.2	6.3	6.9						
							Bottom	6.1	1	28.4	7.9	27.3	5.1	75.8	7.9	6.2						
		TCE-WQM2b	Sunny	Moderate	11:59	10.5	Surface	1.0	1	28.5	7.9	26.7	5.3	78.5	2.0	5.6	5.1	2.4	5.9			
							Middle	5.3	1	28.3	7.9	28.0	5.0	75.2	2.3	6.0						
							Bottom	9.5	1	28.2	7.9	28.3	5.0	75.6	2.8	6.5						
		TCE-WQM3A	Sunny	Calm	12:23	5.2	Surface	1.0	1	28.5	7.9	26.6	5.2	78.2	4.2	5.4	5.2	5.5	5.7			
							Bottom	4.2	1	28.4	7.9	26.9	5.0	74.6	6.7	6.2						
							Surface	1.0	1	28.6	7.9	26.6	5.2	78.5	3.3	5.4						
		TCE-WQM4	Sunny	Calm	12:35	4.8	Surface	1.0	1	28.6	7.9	26.6	5.2	78.4	3.3	5.3	5.2	4.4	5.6			
							Bottom	3.8	1	28.5	7.9	26.7	5.2	77.8	5.5	5.9						
							Surface	1.0	1	29.3	7.9	25.6	5.8	86.8	1.0	7.2				5.7	2.5	6.1
		Middle	3.7	1	29.0	7.9	25.7	5.6	84.6	1.2	5.8											
		Bottom	6.3	1	28.6	7.9	25.9	5.5	81.6	5.2	5.4											
		TCE-C2	Fine	Moderate	19:57	12.9	Surface	1.0	1	28.9	7.9	26.1	5.5	82.6	3.4	7.0	5.4	6.1	6.3			
Middle	6.5						1	28.6	7.9	26.6	5.3	79.7	6.2	6.4								
Bottom	11.9						1	28.5	7.9	26.8	5.3	78.5	8.7	5.9								
TCE-WQM1	Fine	Moderate	18:35	8.9	Surface	1.0	1	28.8	7.9	25.8	5.2	78.2	3.7	5.4	5.2	4.3	5.8					
					Middle	4.5	1	28.8	7.9	25.8	5.1	75.9	4.8	5.9								
					Bottom	7.9	1	28.6	7.9	25.9	5.0	74.1	4.3	6.3								
TCE-WQM2a	Fine	Moderate	19:19	6.9	Surface	1.0	1	28.5	7.9	26.9	5.8	87.4	3.1	7.3	5.5	4.9	6.8					
					Middle	3.5	1	28.4	7.9	27.0	5.3	78.6	5.2	6.6								
					Bottom	5.9	1	28.4	7.9	27.2	5.1	76.4	6.4	6.1								
TCE-WQM2b	Fine	Moderate	19:34	9.7	Surface	1.0	1	28.5	7.9	26.8	5.7	84.6	3.1	5.6	5.5	4.5	6.4					
					Middle	4.9	1	28.4	7.9	26.9	5.4	80.8	4.1	6.3								
					Bottom	8.7	1	28.4	7.9	26.9	5.4	80.9	4.2	6.6								
TCE-WQM3A	Fine	Moderate	19:03	4.9	Surface	1.0	1	28.4	7.9	27.0	5.2	78.4	3.8	6.0	5.2	4.6	6.3					
					Bottom	3.9	1	28.4	7.9	27.2	5.1	75.9	5.4	6.4								
					Surface	1.0	1	29.0	7.9	25.8	5.4	81.1	2.9	6.8				5.4	3.4	6.2		
Bottom	2.7	1	29.0	7.9	25.8	5.4	80.5	3.9	5.6													
Surface	1.0	1	29.0	7.9	25.8	5.4	80.4	3.9	5.9													