

Annex G3

## Monitoring Results for Water Quality

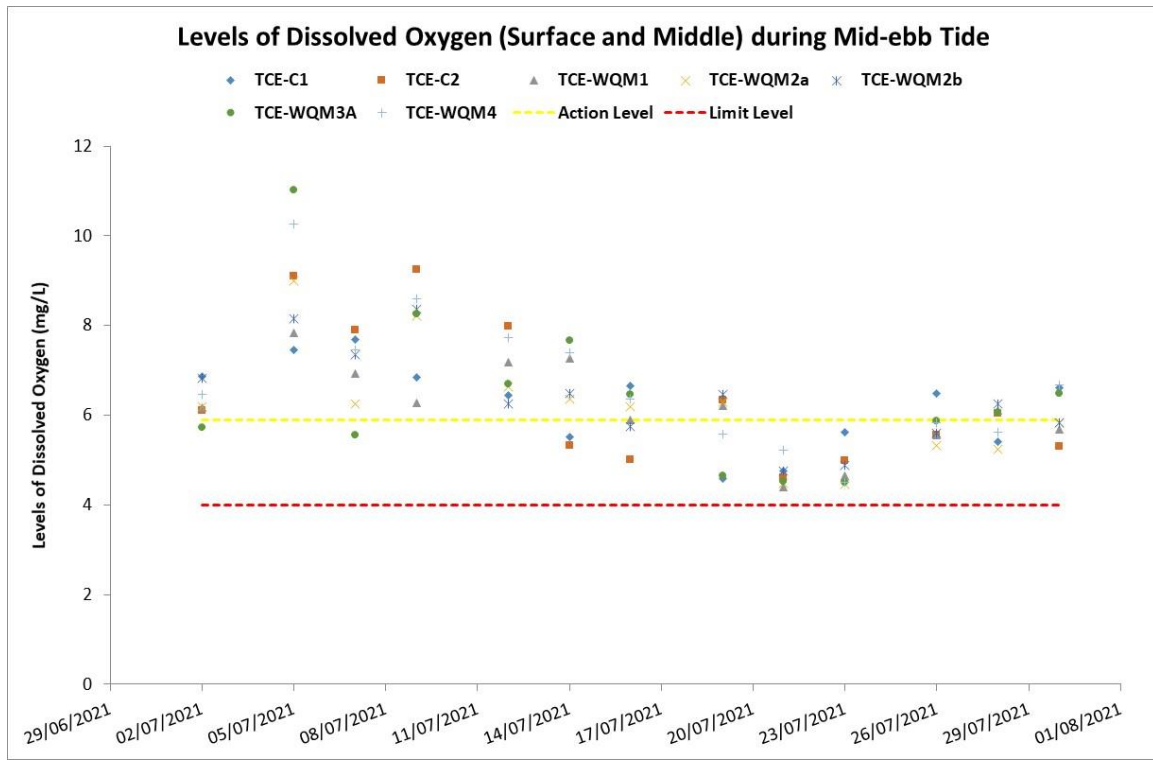


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2021

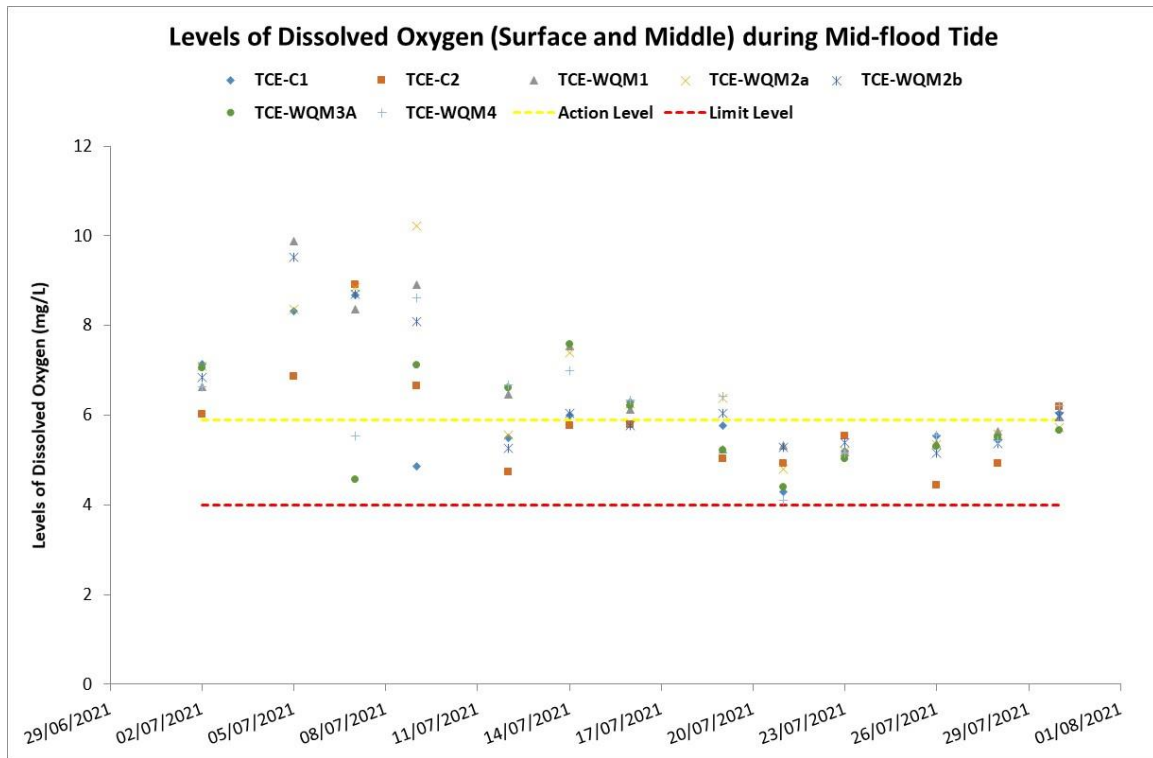


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: July 2021

**Environmental Resources Management**



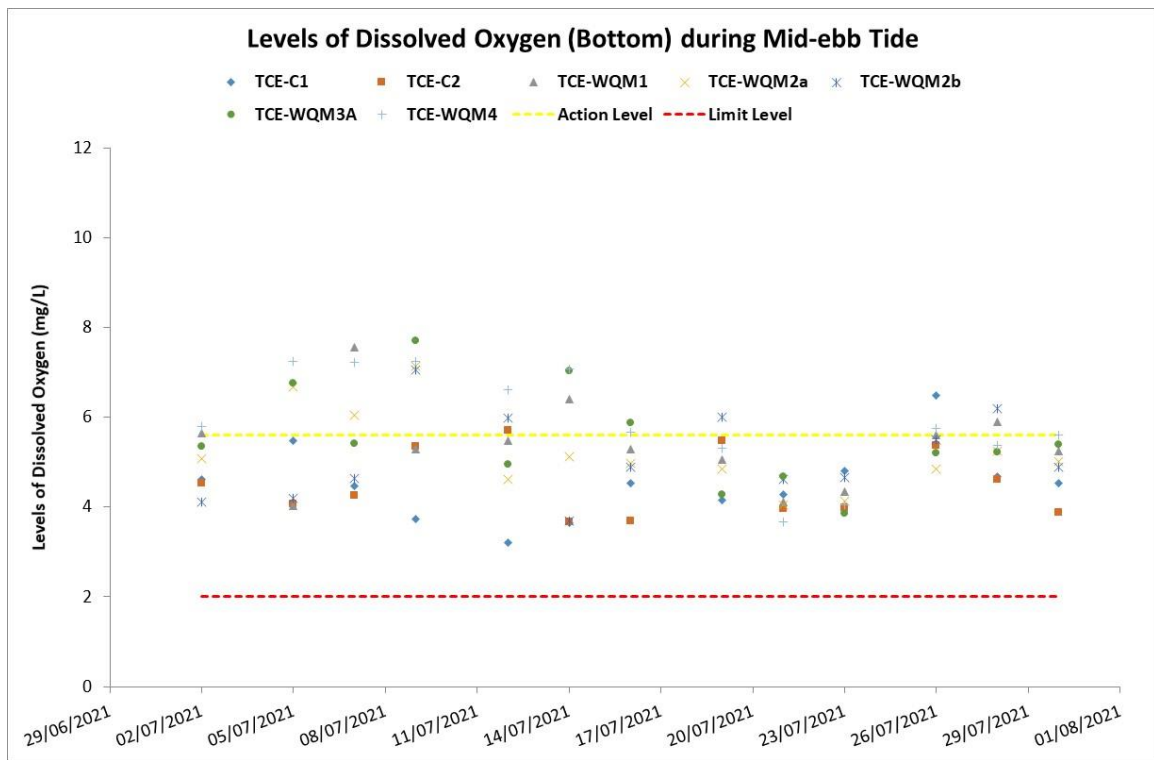


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2021

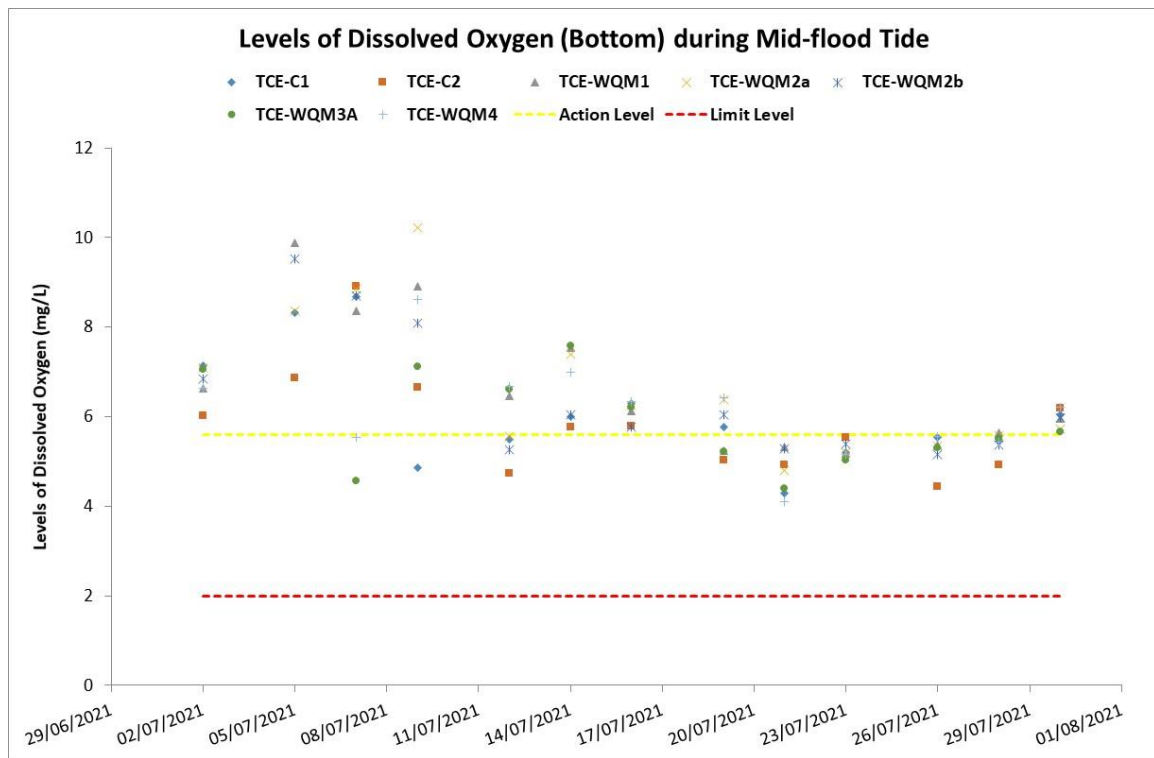


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: July 2021

**Environmental  
 Resources  
 Management**



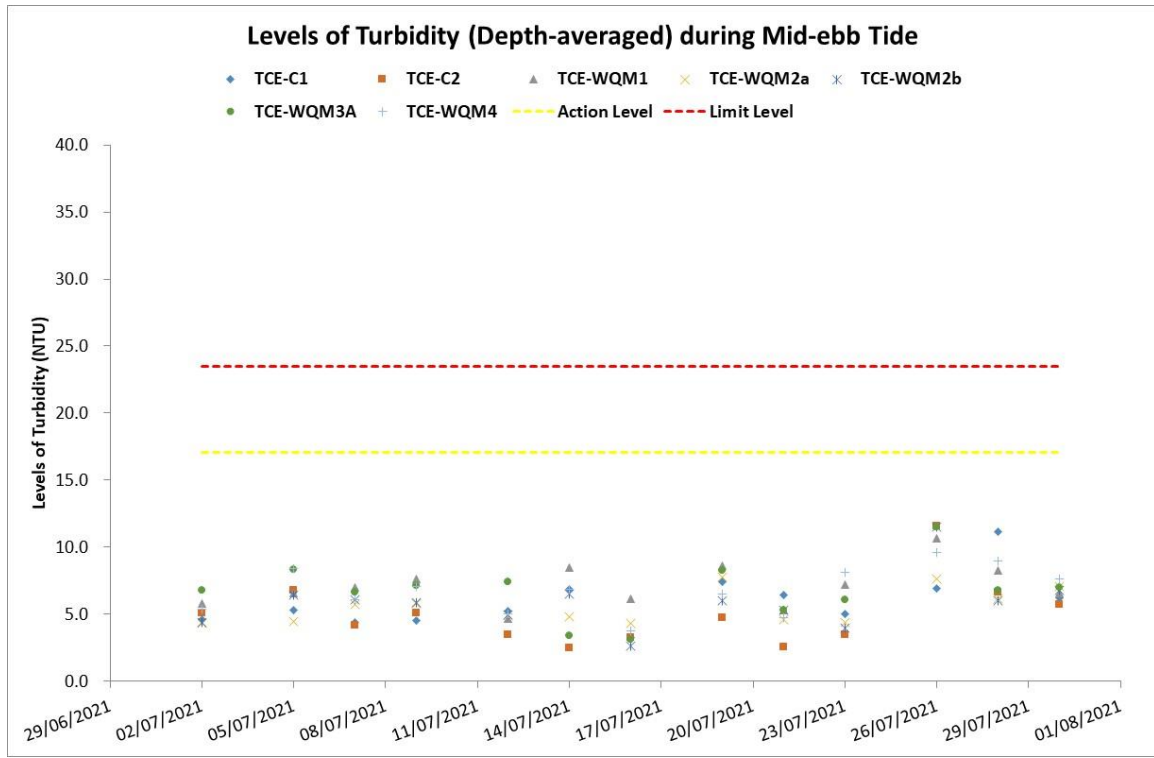


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2021

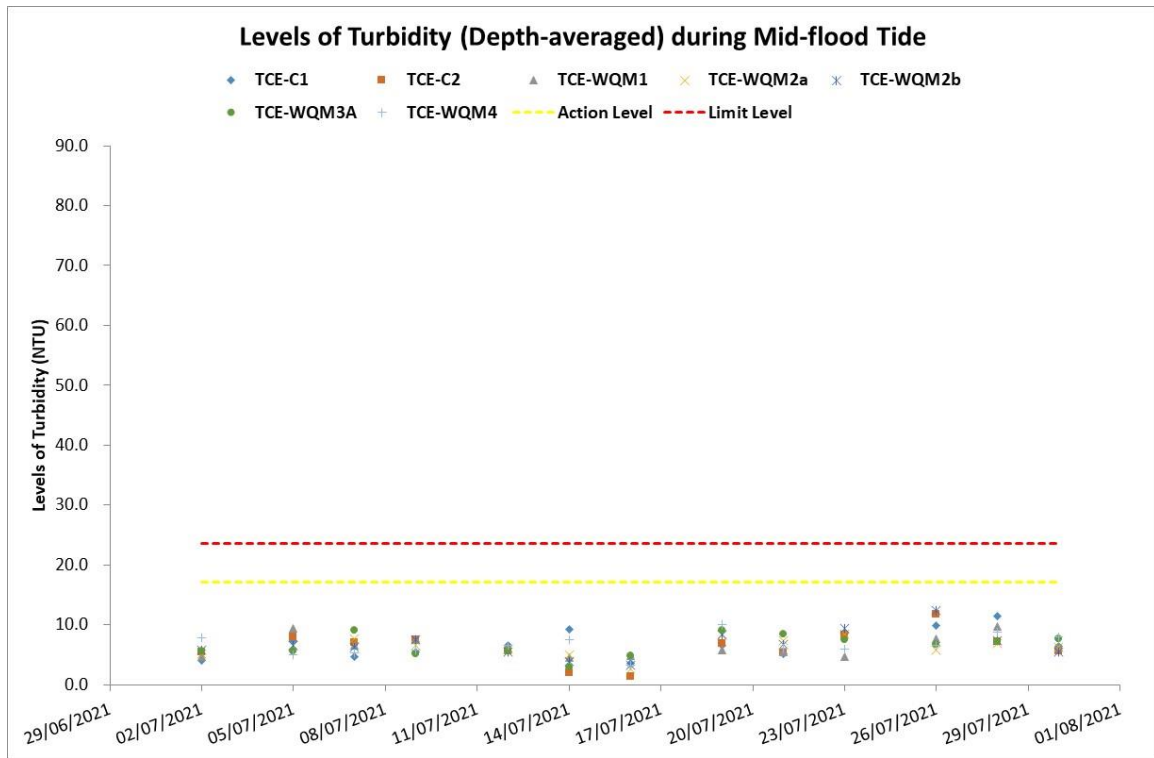


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: July 2021

**Environmental  
 Resources  
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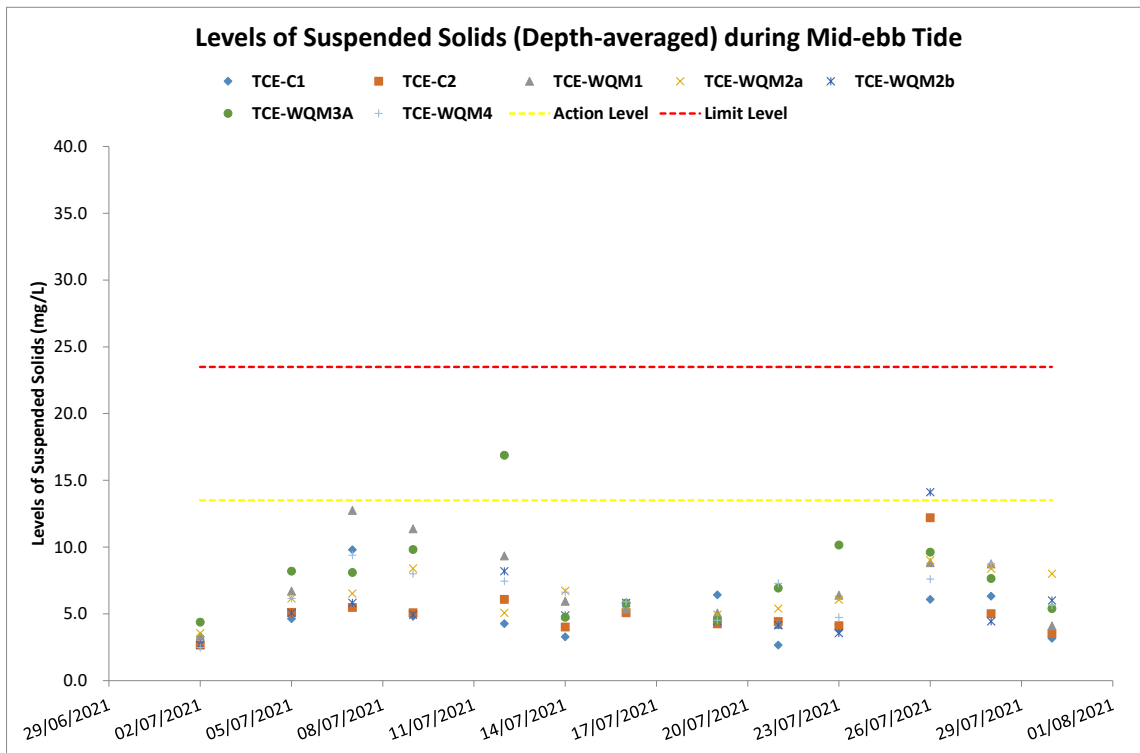


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2021

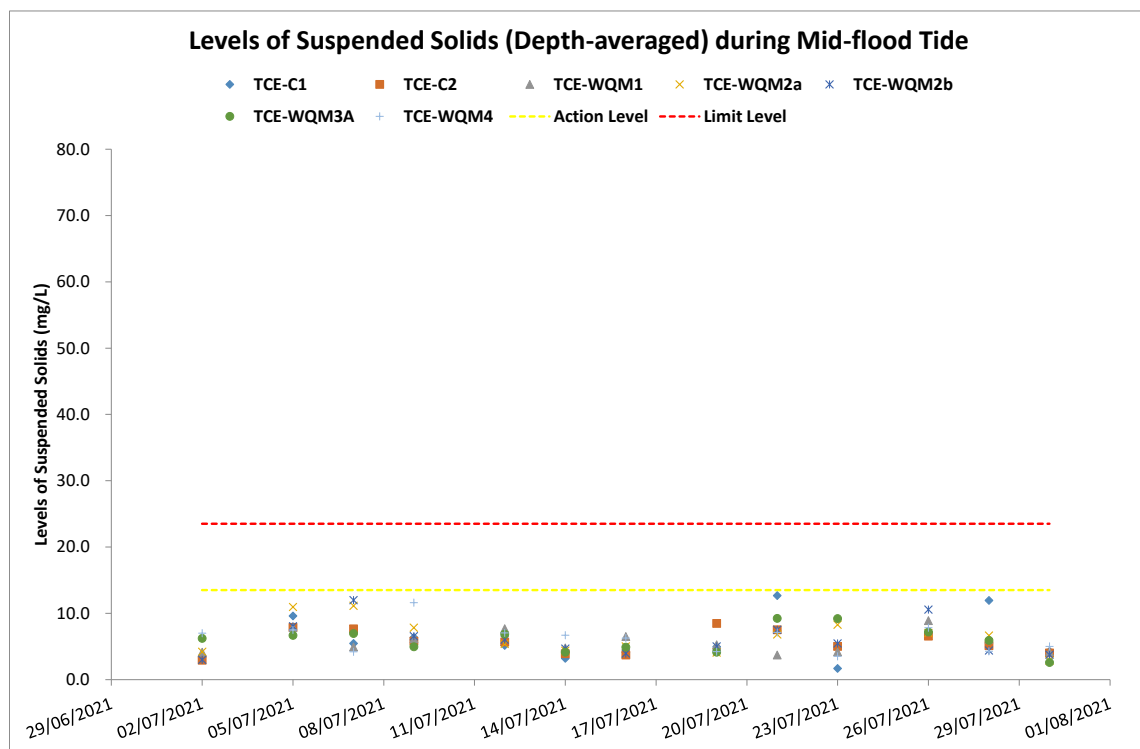


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: July 2021

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Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
2021-07-02	Mid-Ebb	TCE-C1	Cloudy	Rough	9:16	7.9	Surface	1.0	1	28.9	8.2	17.3	7.4	105.9	3.0	4.5	6.9	4.6	3.3	
									2	28.9	8.2	17.3	7.4	105.9	3.0	4.4				
							Middle	4.0	1	28.6	8.1	18.4	6.3	90.7	3.5	2.9				
									2	28.6	8.1	18.4	6.3	90.4	3.5	3.0				
							Bottom	6.9	1	26.2	8.1	29.4	4.6	67.2	7.2	2.7				
									2	26.2	8.1	29.4	4.6	67.4	7.2	2.3				
				1	28.2	8.0	18.5	6.7	94.4	3.0	2.8									
				2	28.2	8.0	18.5	6.6	94.2	3.1	3.1									
		Middle	7.3	1	27.7	8.0	23.0	5.6	80.7	3.6	2.6									
				2	27.7	8.0	23.0	5.6	80.6	3.6	2.6									
		Bottom	13.6	1	26.4	8.0	27.5	4.5	65.8	8.8	2.4									
				2	26.3	8.0	27.8	4.5	65.2	8.7	2.5									
				1	28.5	8.1	19.9	6.3	91.0	4.3	3.4									
				2	28.5	8.1	19.9	6.3	91.0	4.3	3.5									
		Middle	4.1	1	28.4	8.0	21.1	6.0	87.2	4.2	3.4									
				2	28.4	8.0	21.1	6.0	87.1	4.2	3.3									
		Bottom	7.2	1	28.2	8.0	21.7	5.6	81.6	8.9	3.1									
				2	28.2	8.0	21.6	5.7	81.8	8.9	3.3									
				1	28.3	8.1	20.9	6.3	91.1	3.2	3.9									
				2	28.3	8.1	20.9	6.3	91.1	3.2	4.2									
		Middle	3.6	1	28.2	8.1	21.2	6.1	87.3	3.4	3.3									
				2	28.2	8.1	21.2	6.0	87.1	3.5	3.5									
		Bottom	6.1	1	26.9	8.0	26.1	5.1	73.6	6.3	3.1									
				2	26.9	8.0	26.1	5.1	73.8	6.3	3.3									
			1	29.1	8.1	15.5	7.2	101.4	2.7	2.4										
			2	29.1	8.1	15.5	7.2	101.4	2.7	2.2										
	Middle	5.4	1	28.7	8.1	18.1	6.5	93.3	4.2	2.6										
			2	28.7	8.1	18.1	6.5	93.2	4.3	2.9										
	Bottom	9.8	1	26.0	8.0	29.1	4.1	59.5	6.2	3.0										
			2	25.9	8.0	29.2	4.1	59.5	6.2	3.0										
			1	28.2	8.0	21.0	5.7	82.6	7.6	5.3										
			2	28.3	8.0	21.0	5.7	82.6	7.6	5.0										
	Bottom	3.1	1	27.8	8.0	22.7	5.4	77.3	5.9	3.4										
			2	27.8	8.0	22.7	5.4	77.4	6.0	3.8										
			1	28.4	8.1	20.3	6.5	93.1	2.9	2.0										
			2	28.4	8.1	20.3	6.5	93.0	2.9	2.3										
	Bottom	2.8	1	28.4	8.0	20.8	5.8	83.7	7.9	2.7										
			2	28.4	8.0	20.8	5.8	83.8	7.9	2.9										
	2021-07-02	Mid-Flood	TCE-C1	Fine	Rough	10:59	7.9	Surface	1.0	1	29.0	8.2	17.3	7.5	106.5	3.1	3.3	7.1	4.0	3.4
										2	29.0	8.2	17.3	7.5	106.5	3.1	3.1			
								Middle	4.0	1	28.8	8.1	18.2	6.8	97.8	3.5	3.4			
										2	28.8	8.1	18.2	6.8	98.0	3.6	3.4			
								Bottom	6.9	1	28.1	8.1	19.3	6.1	86.9	5.5	3.7			
										2	28.0	8.1	19.4	6.0	85.4	5.5	3.5			
					1	28.8	8.2	18.9	7.3	105.4	2.3	2.1								
					2	28.8	8.2	18.9	7.3	105.2	2.3	2.4								
			Middle	7.4	1	26.7	8.1	26.6	4.7	68.7	4.1	2.6								
					2	26.7	8.1	26.6	4.7	68.5	4.2	2.9								
Bottom			13.8	1	25.1	8.1	32.1	3.9	57.0	9.9	4.0									
				2	25.1	8.1	32.1	3.9	57.1	10.0	3.6									
				1	28.7	8.1	20.7	6.7	96.4	4.4	3.5									
				2	28.7	8.1	20.7	6.6	96.2	4.4	3.2									
Middle			4.4	1	28.6	8.1	20.7	6.6	95.9	4.6	4.1									
				2	28.7	8.1	20.7	6.6	95.9	4.6	4.3									
Bottom			7.8	1	28.6	8.1	20.8	6.6	95.7	5.1	4.7									
				2	28.6	8.1	20.8	6.6	95.8	5.2	5.0									
				1	28.9	8.2	19.0	7.3	104.6	4.1	3.3									
				2	28.9	8.2	19.0	7.3	104.6	4.1	3.0									
Middle			3.7	1	28.7	8.1	19.5	6.9	100.0	4.7	4.1									
				2	28.7	8.1	19.5	6.9	100.0	4.8	4.4									
Bottom			6.3	1	28.5	8.1	20.0	6.5	93.8	6.4	5.2									
				2	28.5	8.1	20.0	6.5	93.7	6.4	5.1									
			1	28.9	8.2	17.5	7.4	105.0	3.1	3.5										
			2	28.8	8.2	17.5	7.4	104.9	3.1	3.8										
Middle		6.4	1	28.2	8.1	20.9	6.4	91.3	4.7	3.2										
			2	28.2	8.1	20.9	6.4	91.3	4.7	2.8										
Bottom		11.8	1	26.2	8.1	28.3	4.5	64.9	9.4	2.4										
			2	26.2	8.1	28.3	4.5	65.2	9.4	2.2										
			1	28.9	8.2	19.1	7.1	101.7	5.5	6.2										
			2	28.9	8.2	19.1	7.1	101.7	5.5	5.8										
Bottom		2.7	1	28.7	8.1	19.7	6.8	98.6	5.7	6.4										
			2	28.7	8.1	19.7	6.9	98.8	5.8	6.5										
			1	28.7	8.1	19.5	6.6	95.6	6.2	4.1										
			2	28.5	8.1	20.5	6.5	94.4	9.4	9.6										
			1	28.5	8.1	20.5	6.6	94.6	9.4	9.9										



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)
2021-07-07	Mid-Ebb	TCE-C1	Misty	Calm	11:58	8.0	Surface	1.0	1	28.4	8.2	19.9	7.8	112.3	2.9	11.5	7.7	4.4	9.8
									2	28.4	8.2	19.9	7.9	112.2	2.8	11.2			
							Middle	4.0	1	28.4	8.2	20.0	7.6	108.9	3.9	9.4			
									2	28.4	8.2	20.0	7.5	108.4	3.9	9.2			
							Bottom	7.0	1	26.7	8.2	26.9	4.5	65.1	6.5	8.6			
									2	26.7	8.2	26.8	4.5	64.7	6.5	8.9			
				1	28.6	8.1	20.8	8.6	124.3	3.0	5.4	7.9	4.2	5.5					
				2	28.5	8.1	20.8	8.6	124.1	2.9	5.3								
		Middle	6.4	1	27.5	8.3	24.9	7.3	105.6	3.0	5.6								
				2	27.5	8.3	24.9	7.3	105.8	3.0	5.2								
		Bottom	11.8	1	25.5	8.1	31.0	4.3	61.9	6.7	5.6								
				2	25.5	8.1	31.0	4.3	62.2	6.7	5.8								
				1	29.4	8.2	17.8	9.0	130.4	5.7	11.8	6.9	7.0	12.8					
				2	29.4	8.2	17.9	9.1	130.9	5.7	14.8								
		Middle	4.1	1	27.4	8.2	23.7	4.8	69.2	7.2	16.7								
				2	27.4	8.2	23.7	4.8	69.1	7.2	8.2								
		Bottom	7.2	1	27.1	8.1	25.1	7.6	109.5	8.0	12.6								
				2	27.0	8.1	25.1	7.6	109.5	8.0	12.4								
				1	29.1	8.2	19.4	6.2	90.1	6.9	5.2	6.3	5.7	6.5					
				2	29.1	8.2	19.4	6.2	90.1	6.9	5.6								
		Middle	3.5	1	27.4	8.3	25.1	6.3	91.5	5.1	5.7								
				2	27.4	8.3	25.0	6.3	91.7	5.1	6.1								
		Bottom	6.0	1	27.1	8.3	26.4	6.1	88.1	5.2	8.1								
				2	27.5	8.4	26.5	6.0	88.5	5.1	8.4								
			1	28.7	8.1	19.2	10.0	144.9	3.7	5.3	7.4	6.1	5.8						
			2	28.8	8.1	19.2	10.1	144.7	3.7	5.6									
	Middle	5.3	1	27.2	8.1	24.6	4.7	67.2	5.7	5.8									
			2	27.3	8.1	24.6	4.7	67.4	5.5	6.0									
	Bottom	9.6	1	27.2	8.1	24.8	4.7	67.2	9.0	6.2									
			2	27.2	8.1	24.8	4.6	67.1	9.1	6.0									
			1	28.6	8.3	20.7	5.6	80.7	6.2	8.0	5.6	6.6	8.1						
			2	28.2	8.2	21.6	5.6	80.3	6.1	8.2									
	Bottom	3.0	1	27.9	8.2	22.6	5.4	78.7	7.1	8.3									
			2	27.9	8.2	22.6	5.4	78.1	7.1	7.9									
			1	29.7	8.2	17.9	7.5	108.5	4.7	8.7				7.5	6.1	9.4			
			2	29.7	8.2	18.0	7.4	108.2	4.7	9.0									
	Bottom	2.6	1	28.8	8.2	19.1	7.2	104.5	7.5	10.1									
			2	28.8	8.2	19.0	7.2	104.6	7.5	9.8									
			1	28.7	8.1	19.9	8.8	127.5	3.8	6.4	8.7	4.7	5.5						
			2	28.7	8.1	19.8	8.8	127.7	3.8	6.1									
	Middle	4.0	1	28.5	8.1	19.9	8.5	122.1	4.1	5.2									
			2	28.5	8.1	19.9	8.6	122.2	4.2	5.3									
	Bottom	7.0	1	26.8	8.2	26.4	4.5	65.0	6.2	5.0									
			2	26.8	8.2	26.3	4.5	65.2	6.1	4.8									
			1	28.8	8.2	20.8	9.4	135.9	4.7	6.5	8.9	7.0	7.7						
			2	28.8	8.2	20.8	9.4	135.8	4.7	6.8									
	Middle	6.6	1	28.5	8.1	22.1	8.4	122.7	8.0	7.6									
			2	28.5	8.1	22.1	8.4	122.6	8.1	7.9									
Bottom	12.2	1	27.3	8.2	24.7	5.5	79.0	8.2	8.4										
		2	27.3	8.2	24.6	5.3	78.3	8.3	8.8										
		1	30.4	8.3	17.9	10.7	157.3	4.1	3.8	8.4	6.6	4.9							
		2	30.4	8.3	17.9	10.8	158.0	4.2	4.2										
Middle	4.1	1	28.0	8.3	22.0	6.0	86.0	5.7	4.9										
		2	28.0	8.3	22.1	6.0	86.1	5.7	5.3										
Bottom	7.2	1	27.1	8.1	25.2	4.5	65.6	9.8	5.6										
		2	27.1	8.2	25.1	4.5	65.8	9.9	5.7										
		1	29.8	8.3	19.4	9.6	141.4	6.7	8.8	8.9	7.6	11.1							
		2	29.8	8.3	19.4	9.6	141.4	6.7	9.2										
Middle	3.5	1	28.8	8.2	20.7	8.1	117.1	7.3	9.9										
		2	28.8	8.2	20.7	8.1	117.3	7.2	10.2										
Bottom	6.0	1	27.3	8.2	24.8	5.1	74.8	8.8	14.1										
		2	27.3	8.2	24.8	5.1	74.3	8.9	14.5										
		1	29.5	8.3	16.5	11.7	167.6	5.2	7.4	8.7	6.2	12.0							
		2	29.5	8.3	16.4	11.7	167.8	5.3	7.7										
Middle	5.3	1	27.8	8.2	22.2	5.7	82.5	6.3	13.6										
		2	27.8	8.3	22.1	5.7	82.1	6.4	14.0										
Bottom	9.6	1	26.4	8.1	27.7	4.2	61.4	7.1	14.8										
		2	26.4	8.1	27.8	4.2	61.1	7.1	14.5										
		1	29.5	8.2	19.6	4.6	66.9	8.3	6.1	4.6	9.1	7.0							
		2	28.4	8.3	21.5	4.6	66.3	8.4	6.6										
Bottom	3.0	1	27.6	8.1	24.0	4.7	67.5	9.7	7.7										
		2	27.6	8.1	24.0	4.6	67.6	9.8	7.4										
		1	29.9	8.3	18.2	5.5	80.9	4.7	4.6				5.5	5.3	4.2				
		2	29.9	8.3	18.2	5.5	80.6	4.8	4.1										
Bottom	2.6	1	27.9	8.2	23.4	5.4	79.0	5.8	4.2										
		2	27.9	8.3	23.5	5.4	79.3	5.7	3.9										



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)
2021-07-09	Mid-Ebb	TCE-C1	Sunny	Calm	13:50	8.0	Surface	1.0	1	29.3	8.5	17.3	8.9	126.4	3.5	3.7	6.8	4.5	4.8
									2	29.3	8.5	15.5	8.8	125.8	3.5	4.1			
							Middle	4.0	1	26.8	8.2	25.2	4.9	70.1	4.9	4.7			
									2	26.7	8.2	25.2	4.8	69.3	5.0	4.5			
							Bottom	7.0	1	26.7	8.1	28.0	3.7	54.1	5.1	5.8			
									2	26.7	8.1	28.0	3.8	54.9	5.1	6.1			
		TCE-C2	Sunny	Calm	11:22	12.8	Surface	1.0	1	28.9	8.6	18.1	11.1	159.0	4.2	5.5	9.3	5.1	5.1
									2	28.8	8.6	18.1	11.0	157.6	4.2	5.2			
							Middle	6.4	1	28.2	8.3	21.0	7.5	107.9	4.8	5.3			
									2	28.2	8.3	21.1	7.4	106.7	4.8	5.0			
							Bottom	11.8	1	26.5	8.1	28.3	5.3	77.3	6.3	4.8			
									2	26.5	8.1	28.3	5.4	78.4	6.3	4.7			
	TCE-WQM1	Sunny	Calm	12:51	8.2	Surface	1.0	1	28.6	8.4	19.3	7.3	105.0	6.9	10.5	6.3	7.6	11.4	
								2	28.5	8.4	19.3	7.4	105.7	6.9	10.0				
						Middle	4.1	1	27.8	8.2	22.6	5.2	74.9	7.7	15.4				
								2	27.8	8.2	22.6	5.2	75.0	7.6	13.0				
						Bottom	7.2	1	27.7	8.2	22.8	5.3	76.1	8.4	10.1				
								2	27.7	8.2	22.8	5.3	76.6	8.4	9.2				
	TCE-WQM2a	Sunny	Calm	12:11	7.0	Surface	1.0	1	29.0	8.5	19.3	8.8	127.9	4.9	8.0	8.2	5.8	8.4	
								2	29.0	8.5	19.3	8.8	127.9	4.9	7.5				
						Middle	3.5	1	28.4	8.4	21.9	7.6	109.7	5.8	8.0				
								2	28.3	8.4	21.9	7.6	110.1	5.8	8.4				
						Bottom	6.0	1	28.1	8.4	22.6	7.2	103.8	6.7	9.5				
								2	28.2	8.4	22.7	7.1	103.2	6.8	9.0				
TCE-WQM2b	Sunny	Calm	11:57	10.4	Surface	1.0	1	29.1	8.5	16.5	9.7	137.7	4.3	5.4	8.4	5.9	4.9		
							2	29.0	8.5	16.6	9.6	137.0	4.4	5.7					
					Middle	5.2	1	28.4	8.3	19.9	7.1	102.0	6.2	5.0					
							2	28.4	8.3	19.9	7.1	101.8	6.4	5.1					
					Bottom	9.4	1	28.3	8.3	20.0	7.1	101.5	7.0	4.0					
							2	28.4	8.3	20.0	7.1	101.5	7.1	4.4					
TCE-WQM3A	Sunny	Calm	12:25	4.0	Surface	1.0	1	29.2	8.4	19.9	8.3	120.7	6.6	9.6	8.3	7.1	9.8		
							2	29.2	8.4	20.0	8.2	119.8	6.6	13.1					
					Bottom	3.0	1	29.2	8.4	20.1	7.7	112.2	7.7	5.2					
							2	29.2	8.4	20.1	7.7	112.3	7.7	11.4					
TCE-WQM4	Sunny	Calm	12:37	3.6	Surface	1.0	1	29.2	8.4	19.7	8.7	125.8	6.7	6.8	8.6	7.1	8.0		
							2	29.1	8.4	19.8	8.6	124.2	6.0	7.2					
2021-07-09	Mid-Flood	TCE-C1	Sunny	Calm	18:20	7.9	Surface	1.0	1	29.9	8.5	14.4	5.0	70.7	4.2	3.7	4.9	5.4	6.4
									2	29.8	8.5	14.6	4.9	70.0	4.2	4.3			
							Middle	4.0	1	27.1	8.3	24.1	4.8	69.5	5.3	8.8			
									2	26.9	8.3	24.4	4.7	68.1	5.4	11.8			
							Bottom	6.9	1	26.7	8.2	25.4	4.9	69.8	6.7	5.1			
									2	26.6	8.2	25.4	4.8	69.5	6.6	4.5			
		TCE-C2	Sunny	Calm	20:16	12.6	Surface	1.0	1	29.8	8.5	15.6	6.8	97.3	6.2	5.8	6.6	7.5	5.8
									2	29.8	8.5	15.6	6.8	97.2	6.3	6.1			
							Middle	6.3	1	28.3	8.4	21.0	6.7	96.1	7.5	5.5			
									2	28.3	8.3	21.3	6.4	92.6	7.4	4.9			
							Bottom	11.6	1	26.6	8.2	27.9	5.2	76.4	8.9	5.9			
									2	26.6	8.2	27.9	5.2	75.6	9.0	6.6			
	TCE-WQM1	Sunny	Calm	19:09	8.2	Surface	1.0	1	29.4	8.6	19.5	9.8	143.3	6.5	5.4	8.9	7.5	6.2	
								2	29.3	8.6	19.6	9.8	142.1	6.5	5.1				
						Middle	4.1	1	28.7	8.5	20.5	8.1	116.9	7.8	5.8				
								2	28.6	8.5	20.7	8.0	116.1	7.9	6.3				
						Bottom	7.2	1	29.0	8.3	20.4	6.9	99.7	8.2	7.0				
								2	29.1	8.3	20.1	7.0	101.7	8.2	7.4				
	TCE-WQM2a	Sunny	Calm	19:44	7.0	Surface	1.0	1	29.5	8.6	19.4	10.7	155.7	5.4	4.8	10.2	6.5	7.8	
								2	29.5	8.6	19.4	10.7	155.7	5.4	5.9				
						Middle	3.5	1	29.4	8.5	19.9	9.8	143.2	6.5	10.1				
								2	29.4	8.5	20.0	9.7	141.9	6.6	7.0				
						Bottom	6.0	1	29.2	8.5	20.4	9.0	131.0	7.6	9.0				
								2	29.2	8.5	20.4	8.8	128.6	7.6	10.2				
TCE-WQM2b	Sunny	Calm	19:56	10.2	Surface	1.0	1	29.9	8.5	15.4	7.1	101.9	5.9	4.6	8.1	7.4	6.6		
							2	29.9	8.5	15.3	7.1	102.3	6.0	5.2					
					Middle	5.1	1	28.5	8.4	20.6	9.1	131.2	7.9	7.2					
							2	28.0	8.3	21.9	9.0	130.1	7.9	6.7					
					Bottom	9.2	1	26.6	8.2	27.7	7.0	102.0	8.5	7.6					
							2	26.7	8.2	27.6	7.0	102.6	8.5	8.0					
TCE-WQM3A	Sunny	Calm	19:29	4.0	Surface	1.0	1	29.3	8.5	20.4	7.1	104.5	4.9	5.2	7.1	5.1	5.0		
							2	29.3	8.5	20.5	7.1	103.6	4.9	5.3					
					Bottom	3.0	1	29.2	8.4	20.5	7.2	105.7	5.3	4.5					
							2	29.3	8.4	20.5	7.2	104.8	5.3	4.8					
TCE-WQM4	Sunny	Calm	19:22	3.6	Surface	1.0	1	29.3	8.5	20.4	8.6	126.4	5.3	14.9	8.6	5.8	11.6		
							2	29.3	8.5	20.5	8.6	125.9	5.4	9.0					
					Bottom	2.6	1	29.3	8.4	20.5	8.1	118.2	6.3	10.4					
							2	29.3	8.4	20.5	8.0	117.6	6.3	12.1					

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)									
2021-07-12	Mid-Ebb	TCE-C1	Sunny	Rough	12:59	7.5	Surface	1.0	1	28.9	8.2	22.3	8.1	119.1	2.9	3.5	6.4	5.2	4.3									
									2	28.8	8.2	22.3	8.1	119.1	2.9	4.0												
							Middle	3.8	1	27.3	8.2	28.2	4.7	70.1	4.2	4.8												
									2	27.4	8.2	28.1	4.8	70.3	4.2	4.5												
							Bottom	6.5	1	26.4	8.1	31.0	3.2	47.3	8.5	4.6												
									2	26.4	8.1	31.0	3.2	47.4	8.6	4.2												
		TCE-C2	Sunny	Rough	14:56	14.2	Surface	1.0	1	29.2	8.3	22.7	9.7	143.9	3.9	5.1	8.0	3.5	6.1									
									2	29.2	8.3	22.7	9.7	143.9	3.9	5.6												
							Middle	7.1	1	27.6	8.1	26.1	6.2	91.2	3.3	6.2												
									2	27.6	8.1	26.1	6.2	91.2	3.3	6.4												
							Bottom	13.2	1	27.4	8.1	26.6	5.7	84.0	3.2	6.8												
									2	27.4	8.1	26.6	5.7	83.8	3.2	6.4												
		TCE-WQM1	Sunny	Moderate	13:39	9.2	Surface	1.0	1	28.9	8.2	23.0	7.4	108.5	6.7	9.4	7.2	4.7	9.3									
									2	28.9	8.2	23.0	7.4	108.4	6.8	9.1												
							Middle	4.6	1	28.8	8.2	23.3	7.0	102.9	4.3	9.6												
									2	28.8	8.2	23.2	7.0	102.9	4.3	9.4												
							Bottom	8.2	1	28.1	8.2	24.7	5.5	80.5	2.9	9.4												
									2	28.1	8.2	24.7	5.5	80.5	2.9	9.1												
		TCE-WQM2a	Sunny	Rough	14:12	7.8	Surface	1.0	1	28.4	8.2	24.0	6.9	101.4	5.3	4.3	6.6	5.0	5.1									
									2	28.4	8.2	24.0	6.9	101.4	5.3	4.0												
							Middle	3.9	1	28.1	8.1	24.6	6.2	91.5	5.2	5.2												
									2	28.1	8.1	24.6	6.5	95.1	5.2	4.8												
							Bottom	6.8	1	26.8	8.0	28.7	4.6	67.7	4.3	5.7												
									2	26.8	8.0	28.7	4.6	67.9	4.5	6.4												
	TCE-WQM2b	Sunny	Rough	14:24	10.4	Surface	1.0	1	28.6	8.1	21.6	6.7	97.6	5.0	7.4	6.3	5.0	8.2										
								2	28.6	8.1	21.6	6.7	97.5	5.0	8.0													
						Middle	5.2	1	28.3	8.1	22.8	5.8	84.6	5.1	7.6													
								2	28.3	8.1	22.8	5.8	84.6	5.1	8.1													
						Bottom	9.4	1	28.2	8.1	23.6	6.0	87.4	4.8	9.2													
								2	28.2	8.1	23.6	6.0	87.5	4.9	8.9													
	TCE-WQM3A	Sunny	Moderate	14:02	4.5	Surface	1.0	1	29.3	8.1	22.2	6.7	98.9	8.7	16.4	6.7	7.5	16.9										
								2	29.3	8.1	22.2	6.7	98.9	8.7	16.5													
						Bottom	3.5	1	28.0	8.0	23.9	5.0	72.5	6.3	18.1													
								2	28.0	8.0	23.9	5.0	72.5	6.2	16.5													
						TCE-WQM4	Sunny	Moderate	13:51	3.9	Surface	1.0	1	29.1	8.2				21.9	7.7	113.6	5.1	6.6	7.7	5.1	7.5		
													2	29.1	8.2				21.9	7.7	113.6	5.2	7.3					
	Bottom	2.9	1	28.6	8.1						22.1	6.6	96.5	5.0	7.6													
			2	28.6	8.1						22.1	6.6	96.5	5.0	8.3													
	2021-07-12	Mid-Flood	TCE-C1	Sunny	Moderate						8:58	7.9	Surface	1.0	1	28.5	8.2	23.2	7.0	102.6	3.0	4.1	5.5				6.6	5.2
															2	28.5	8.2	23.2	7.0	102.7	3.0	5.2						
						Middle	4.0	1	27.1	8.1			28.6	4.0	59.1	7.9	4.9											
								2	27.0	8.1			28.7	4.0	58.4	7.9	6.1											
						Bottom	6.9	1	26.3	8.1			31.5	3.2	47.2	8.9	5.6											
								2	26.3	8.1			31.5	3.2	47.5	8.9	5.0											
			TCE-C2	Sunny	Moderate	6:52	14.9	Surface	1.0	1	28.0	8.2	23.8	5.8	83.8	3.5	4.7	4.7	5.7	5.7								
										2	28.0	8.2	23.9	5.7	83.5	3.5	4.3											
								Middle	7.5	1	26.5	8.1	29.8	3.8	55.4	5.4	5.2											
										2	26.5	8.1	29.9	3.7	54.5	5.4	5.5											
Bottom								13.9	1	25.6	8.0	32.4	2.9	42.6	8.2	7.0												
									2	25.6	8.0	32.4	2.9	42.8	8.1	7.4												
TCE-WQM1		Sunny	Moderate	8:07	10.7	Surface	1.0	1	28.9	8.3	22.1	6.7	98.5	6.0	7.4	6.5	6.1	7.7										
								2	28.9	8.3	22.1	6.7	98.4	6.0	7.8													
						Middle	5.4	1	28.8	8.3	22.4	6.2	91.0	7.8	7.7													
								2	28.8	8.3	22.4	6.2	90.7	7.8	7.3													
						Bottom	9.7	1	28.2	8.2	24.0	5.2	75.8	4.4	7.8													
								2	28.2	8.2	24.0	5.2	76.0	4.4	8.1													
TCE-WQM2a		Sunny	Moderate	7:31	8.6	Surface	1.0	1	28.1	8.2	23.9	5.6	82.4	5.1	4.6	5.5	6.0	5.4										
								2	28.1	8.2	23.9	5.6	82.4	5.1	5.0													
						Middle	4.3	1	27.8	8.2	24.4	5.5	79.6	5.3	5.5													
								2	27.7	8.2	24.4	5.5	79.4	5.4	5.2													
						Bottom	7.6	1	27.5	8.2	26.9	5.0	73.5	7.4	6.1													
								2	27.6	8.2	26.9	5.0	74.0	7.5	5.8													
TCE-WQM2b	Sunny	Moderate	7:16	11.6	Surface	1.0	1	27.9	8.2	24.5	5.6	82.5	4.3	5.7	5.3	5.5	6.0											
							2	27.9	8.2	24.4	5.7	82.5	4.4	5.6														
					Middle	5.8	1	27.5	8.2	26.2	4.9	71.5	5.2	6.2														
							2	27.5	8.2	26.2	4.9	71.5	5.2	5.9														
					Bottom	10.6	1	26.7	8.2	29.2	4.1	60.6	6.9	6.5														
							2	26.7	8.2	29.1	4.1	60.9	6.9	6.3														
TCE-WQM3A	Sunny	Moderate	7:44	4.9	Surface	1.0	1	28.7	8.3	21.7	6.6	96.5	4.9	6.4	6.6	5.6	6.9											
							2	28.7	8.3	21.7	6.6	96.3	5.0	6.7														
					Bottom	3.9	1	28.7	8.3	21.7	6.6	95.6	6.1	7.0														
							2	28.7	8.3	21.7	6.6	95.5	6.2	7.4														
					TCE-WQM4	Sunny	Moderate	7:55	4.2	Surface	1.0	1	28.6	8.3				21.8	6.7	97.5	6.0	6.8	6.7	6.6	7.1			
												2	28.6	8.3				21.8	6.7	97.3	6.0	6.6						
Bottom	3.2	1	28.5	8.3						22.0	6.3	92.1	7.1	7.6														
		2	28.5	8.3						22.0	6.3	92.1	7.1	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)
2021-07-14	Mid-Ebb	TCE-C1	Sunny	Moderate	14:14	8.8	Surface	1.0	1	29.1	8.0	22.0	7.4	109.0	2.3	3.8	5.5	6.8	3.3
									2	29.0	8.0	22.0	7.4	108.3	2.3	3.4			
							Middle	4.4	1	27.0	7.9	30.1	3.6	54.0	8.9	3.0			
									2	27.0	7.9	30.1	3.6	54.0	8.9	3.4			
							Bottom	7.8	1	26.9	8.0	30.6	3.7	54.3	9.2	3.2			
									2	26.9	8.0	30.6	3.7	54.5	9.4	2.9			
				1	29.1	8.0	23.1	7.1	105.3	1.4	3.6								
				2	29.1	8.0	23.1	7.1	105.0	1.4	3.8								
		Middle	6.4	1	26.5	8.0	30.4	3.5	52.2	2.2	3.7								
				2	26.5	8.0	30.5	3.5	52.2	2.4	4.0								
		Bottom	11.8	1	26.5	8.0	30.7	3.7	53.9	4.0	4.7								
				2	26.5	8.0	30.6	3.7	54.2	3.8	4.3								
	TCE-C2	Sunny	Moderate	15:53	12.8	Surface	1.0	1	29.7	8.1	21.5	7.6	112.1	5.1	3.2	5.3	2.5	4.0	
								2	29.1	8.0	23.1	7.1	105.0	1.4	3.8				
						Middle	6.4	1	26.5	8.0	30.4	3.5	52.2	2.2	3.7				
								2	26.5	8.0	30.5	3.5	52.2	2.4	4.0				
						Bottom	11.8	1	26.5	8.0	30.7	3.7	53.9	4.0	4.7				
								2	26.5	8.0	30.6	3.7	54.2	3.8	4.3				
	TCE-WQM1	Sunny	Moderate	14:47	8.2	Surface	1.0	1	29.7	8.1	21.5	7.6	112.1	5.1	3.2	7.3	8.5	6.0	
								2	29.7	8.1	21.5	7.6	111.9	5.4	3.7				
						Middle	4.1	1	29.5	8.0	22.0	7.0	103.1	8.1	6.0				
								2	29.5	8.0	22.1	7.0	103.1	8.5	6.4				
						Bottom	7.2	1	29.4	8.0	22.7	6.4	95.0	12.0	8.0				
								2	29.4	8.0	22.7	6.4	95.1	12.1	8.4				
TCE-WQM2a	Sunny	Moderate	15:20	6.8	Surface	1.0	1	28.9	8.0	22.7	6.6	96.9	4.1	5.7	6.4	4.8	6.7		
							2	28.9	8.0	22.7	6.6	96.9	4.1	6.0					
					Middle	3.4	1	28.5	8.0	23.7	6.1	89.8	2.9	6.8					
							2	28.4	8.0	23.8	6.1	89.9	2.9	7.4					
					Bottom	5.8	1	27.8	8.0	26.8	5.1	75.5	7.3	7.5					
							2	27.8	8.0	26.8	5.1	75.5	7.3	6.9					
TCE-WQM2b	Sunny	Moderate	15:31	10.8	Surface	1.0	1	29.7	8.0	21.8	7.5	111.0	7.9	4.4	6.5	6.5	4.9		
							2	29.7	8.0	21.7	7.5	110.7	7.9	4.7					
					Middle	5.4	1	28.2	7.9	24.6	5.5	80.8	4.7	4.8					
							2	28.2	7.9	24.6	5.5	80.4	5.0	5.0					
					Bottom	9.8	1	26.8	7.9	29.7	3.7	54.5	6.9	5.1					
							2	26.8	7.9	29.7	3.7	54.7	6.9	5.3					
TCE-WQM3A	Sunny	Moderate	15:10	4.3	Surface	1.0	1	29.7	8.1	20.1	7.7	112.8	2.8	3.9	7.7	3.4	4.8		
							2	29.6	8.1	20.2	7.7	112.4	3.0	4.4					
					Bottom	3.3	1	29.7	8.1	20.4	7.0	103.6	3.9	5.1					
							2	29.7	8.1	20.3	7.0	103.3	3.9	5.6					
					Surface	1.0	1	29.6	8.0	20.7	7.4	108.9	6.0	6.2					
							2	29.6	8.0	20.7	7.4	108.9	6.0	6.2					
TCE-WQM4	Sunny	Moderate	14:59	3.5	Surface	1.0	1	29.6	8.0	20.9	7.1	104.2	7.6	7.3	7.4	6.8	6.6		
							2	29.6	8.0	20.9	7.1	104.2	7.6	7.3					
					Bottom	2.5	1	29.6	8.0	21.0	7.1	104.5	7.7	6.8					
							2	29.6	8.0	21.0	7.1	104.5	7.7	6.8					
					Surface	1.0	1	29.2	7.9	19.5	7.2	105.2	2.3	3.7					
							2	29.2	7.9	19.5	7.2	104.9	2.5	4.0					
2021-07-14	Mid-Flood	TCE-C1	Sunny	Moderate	10:06	8.6	Surface	1.0	1	29.2	7.9	21.0	7.6	111.9	2.0	3.8	6.0	9.2	3.2
									2	29.2	7.9	21.0	7.6	111.7	2.0	4.4			
							Middle	4.3	1	27.8	7.9	27.1	4.8	70.9	11.3	3.2			
									2	27.8	7.9	27.1	4.8	70.8	12.0	3.3			
							Bottom	7.6	1	27.5	7.9	28.4	4.4	64.7	13.7	2.4			
									2	27.5	7.9	28.4	4.4	64.6	13.3	2.7			
		TCE-C2	Sunny	Moderate	8:09	13.7	Surface	1.0	1	29.3	7.9	20.0	6.6	96.6	1.8	4.8	5.8	1.9	3.9
									2	29.3	7.9	20.1	6.6	96.3	1.8	4.4			
							Middle	6.9	1	27.5	7.9	26.6	4.9	72.2	2.6	4.3			
									2	27.5	7.9	26.6	5.0	72.8	2.4	3.8			
							Bottom	12.7	1	26.8	8.0	30.0	3.8	55.6	1.4	2.9			
									2	26.8	8.0	30.0	3.8	55.7	1.6	3.3			
	TCE-WQM1	Sunny	Moderate	9:24	8.6	Surface	1.0	1	29.6	8.0	21.0	7.6	111.9	2.0	3.8	7.5	4.5	4.8	
								2	29.6	8.0	21.0	7.6	111.7	2.0	4.4				
						Middle	4.3	1	29.5	7.9	21.2	7.5	110.4	2.3	5.1				
								2	29.5	7.9	21.3	7.5	110.3	2.9	4.7				
						Bottom	7.6	1	29.5	7.9	21.7	7.1	104.3	8.9	5.5				
								2	29.5	7.9	21.7	7.1	104.4	9.0	5.2				
	TCE-WQM2a	Sunny	Moderate	8:50	7.7	Surface	1.0	1	29.6	7.9	20.1	7.5	110.3	2.0	3.5	7.4	5.0	4.4	
								2	29.6	7.9	20.1	7.5	110.3	2.0	3.9				
						Middle	3.9	1	29.4	7.9	20.5	7.3	106.4	3.2	4.6				
								2	29.3	7.9	20.5	7.3	106.1	3.8	4.2				
						Bottom	6.7	1	28.8	7.8	23.3	6.0	87.7	9.6	4.7				
								2	28.8	7.8	23.2	6.0	88.2	9.2	5.2				
TCE-WQM2b	Sunny	Moderate	8:36	10.6	Surface	1.0	1	29.0	7.9	21.8	6.4	94.1	2.7	5.6	6.1	3.8	4.7		
							2	29.0	7.9	21.8	6.4	94.2	2.6	5.0					
					Middle	5.3	1	28.7	7.8	22.6	5.7	83.3	3.3	4.8					
							2	28.7	7.8	22.6	5.7	83.1	3.6	4.4					
					Bottom	9.6	1	27.4	7.8	27.5	4.3	62.6	5.4	3.9					
							2	27.4	7.8	27.5	4.3	62.9	5.4	4.3					
TCE-WQM3A	Sunny	Moderate	9:01	4.3	Surface	1.0	1	29.6	7.9	19.8	7.6	111.2	1.9	3.9	7.6	3.0	4.2		
							2	29.6	7.9	19.9	7.6	111.0	2.0	3.5					
					Bottom	3.3	1	29.3	7.9	20.8	7.1	104.0	3.7	4.6					
							2	29.3	7.9	21.0	7.0	102.9	4.4	4.6					
					Surface	1.0	1	29.6	7.9	19.7	7.0	102.4	4.8	7.3					
							2	29.6	7.9	19.7	7.0	102.3	4.9	7.6					
TCE-WQM4	Sunny	Moderate	9:12	3.8	Surface	1.0	1	29.5	7.9	21.0	7.0	102.9	4.4	4.6	7.0	7.5	6.7		
							2	29.5	7.9	21.0	7.0	102.9	4.4	4.6					
					Bottom	2.8	1	29.5	7.9	21.0	7.0	102.9	4.4	4.6					
							2	29.5	7.9	21.0	7.0	102.9	4.4	4.6					
					Surface	1.0	1	29.6	7.9	19.7	7.0	102.4	4.8	7.3					
							2	29.6	7.9	19.7	7.0	102.3	4.9	7.6					
		1	29.5	7.9	21.0	6.7	99.1	10.0	5.8										
		2	29.5	7.9	21.1	6.7	99.1	10.3	6.1										

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)
2021-07-16	Mid-Ebb	TCE-C1	Cloudy	Rough	15:41	7.5	Surface	1.0	1	29.5	7.9	20.9	6.9	101.8	1.2	6.6	6.7	3.3	5.4
									2	29.5	7.9	20.9	6.9	101.8	1.1	6.1			
							Middle	3.8	1	29.2	7.9	22.1	6.4	94.2	1.6	5.5			
									2	29.2	7.9	22.1	6.4	94.2	1.5	5.1			
							Bottom	6.5	1	28.0	7.8	26.6	4.5	67.1	7.1	4.6			
									2	28.0	7.8	26.6	4.5	67.3	7.2	4.3			
				1	28.6	7.7	24.9	5.8	86.4	1.6	4.5								
				2	28.6	7.7	25.0	5.8	86.2	1.6	5.1								
		Middle	6.9	1	27.4	7.7	28.4	4.2	62.0	1.8	4.7								
				2	27.3	7.7	28.4	4.2	61.9	1.8	5.0								
		Bottom	12.7	1	26.6	7.7	30.6	3.7	54.5	6.3	5.8								
				2	26.6	7.7	30.6	3.7	54.8	6.5	5.4								
			1	29.9	8.3	21.5	6.3	94.3	2.2	6.6									
			2	29.9	8.3	21.5	6.3	94.2	2.3	6.2									
	Middle	4.4	1	29.6	8.6	22.3	5.5	81.1	6.7	6.1									
			2	29.6	8.6	22.3	5.5	81.1	6.7	6.1									
	Bottom	7.7	1	29.5	8.9	22.7	5.3	78.5	9.5	3.8									
			2	29.5	8.9	22.7	5.3	78.5	9.5	3.4									
			1	29.2	7.8	22.7	6.6	97.9	1.8	6.6									
			2	29.2	7.8	22.7	6.6	97.9	1.8	6.1									
	Middle	3.8	1	28.6	7.8	24.8	5.8	85.9	3.3	5.7									
			2	28.6	7.8	24.8	5.8	85.9	3.3	5.4									
	Bottom	6.5	1	28.3	7.9	25.6	5.0	73.7	7.9	5.0									
			2	28.3	7.9	25.6	5.0	73.8	7.9	4.8									
		1	29.3	7.8	22.3	6.0	88.5	1.7	5.2										
		2	29.3	7.8	22.4	6.0	88.3	1.8	4.8										
Middle	5.2	1	29.0	7.8	23.6	5.5	81.9	2.9	5.5										
		2	29.0	7.8	23.6	5.5	81.9	2.9	5.9										
Bottom	9.4	1	28.5	7.8	25.1	4.9	72.4	3.2	6.6										
		2	28.5	7.8	25.1	4.9	72.4	3.2	6.9										
		1	30.0	8.0	21.4	6.5	96.2	1.9	6.1										
		2	30.0	8.0	21.4	6.5	96.2	1.9	6.2										
Bottom	3.1	1	29.7	8.0	22.0	5.9	87.2	4.4	5.7										
		2	29.7	8.0	22.0	5.9	87.3	4.5	5.2										
		1	30.0	8.1	21.4	6.4	94.5	1.9	6.7										
		2	30.0	8.1	21.4	6.4	94.5	1.9	6.2										
Bottom	2.9	1	29.7	8.1	22.1	5.7	84.0	5.7	5.5										
		2	29.7	8.1	22.1	5.7	84.1	5.7	5.2										
		1	29.5	7.9	20.0	6.8	100.1	2.5	4.1										
		2	29.5	7.9	20.0	6.8	100.1	2.6	4.6										
Middle	4.0	1	28.9	7.9	23.2	5.8	85.2	2.8	4.5										
		2	28.9	7.9	23.2	5.8	84.9	2.8	4.0										
Bottom	6.9	1	28.1	7.9	26.3	4.6	67.8	5.3	3.6										
		2	28.1	7.9	26.3	4.6	67.9	5.4	3.9										
		1	29.7	7.7	20.3	6.3	92.6	1.2	2.7										
		2	29.7	7.7	20.2	6.3	92.5	1.2	3.3										
Middle	7.5	1	28.6	7.7	24.7	5.3	78.3	1.6	3.8										
		2	28.6	7.7	24.7	5.3	78.4	1.6	3.5										
Bottom	13.9	1	28.4	7.7	25.5	5.2	76.9	1.2	4.4										
		2	28.4	7.7	25.5	5.2	76.8	1.2	4.6										
		1	29.8	7.8	21.7	6.2	92.4	2.7	7.0										
		2	29.8	7.8	21.7	6.2	92.5	2.7	7.6										
Middle	4.9	1	29.7	7.8	22.0	6.0	89.3	5.2	6.7										
		2	29.7	7.8	22.0	6.0	89.3	5.2	6.3										
Bottom	8.8	1	29.6	7.8	22.1	6.0	89.3	6.9	5.6										
		2	29.6	7.8	22.1	6.0	89.3	6.7	5.9										
		1	29.5	7.8	21.7	6.3	93.8	1.5	5.5										
		2	29.5	7.8	21.7	6.3	93.8	1.5	5.1										
Middle	3.9	1	29.4	7.8	21.9	6.2	90.9	2.9	5.4										
		2	29.4	7.8	21.9	6.1	90.8	2.9	5.0										
Bottom	6.8	1	29.3	7.8	22.4	5.8	85.4	3.4	4.7										
		2	29.3	7.8	22.4	5.8	85.5	3.4	4.4										
		1	29.6	7.8	18.4	6.5	94.3	1.6	4.6										
		2	29.6	7.8	18.4	6.5	94.2	1.6	4.9										
Middle	5.9	1	28.8	7.7	23.6	5.0	74.4	3.2	3.9										
		2	28.8	7.7	23.6	5.0	74.4	3.2	4.2										
Bottom	10.7	1	27.7	7.7	27.3	4.3	63.0	5.2	3.2										
		2	27.7	7.7	27.3	4.3	63.2	5.1	2.8										
		1	29.6	7.8	21.5	6.2	92.0	4.3	4.4										
		2	29.6	7.8	21.5	6.2	92.0	4.3	4.1										
Bottom	3.6	1	29.4	7.8	21.9	6.1	90.1	5.2	5.4										
		2	29.4	7.8	21.9	6.1	90.1	5.3	5.7										
		1	29.6	7.8	21.1	6.3	93.4	2.0	6.4										
		2	29.6	7.8	21.1	6.3	93.4	2.0	6.8										
Bottom	3.2	1	29.4	7.8	21.9	6.0	88.7	4.5	6.0										
		2	29.4	7.8	21.9	6.0	88.8	4.5	5.9										

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)
2021-07-19	Mid-Ebb	TCE-C1	Rainy	Rough	8:51	6.7	Surface	1.0	1	27.9	8.1	26.7	4.7	69.8	5.5	4.7	4.6	7.4	6.4
									2	27.9	8.1	26.7	4.7	69.0	5.6				
							Middle	3.4	1	27.8	8.4	27.9	4.5	67.3	6.9				
									2	27.9	8.4	26.9	4.5	65.8	6.8				
							Bottom	5.7	1	27.7	8.4	28.3	4.1	61.0	9.8				
									2	27.7	8.4	28.2	4.2	65.7	9.9				
				1	28.3	8.1	25.1	6.7	99.4	3.9	3.4	4.2	6.3	4.3					
				2	28.3	8.1	25.1	6.7	99.3	3.9									
		Middle	7.2	1	28.2	8.1	25.6	6.0	89.3	4.6	3.9								
				2	28.2	8.1	25.6	5.8	86.3	4.7	4.3								
		Bottom	13.3	1	28.0	8.1	26.6	5.4	80.3	5.6	5.1								
				2	28.0	8.1	26.6	5.6	82.4	5.7	5.4								
			1	28.2	8.1	21.2	6.6	95.7	6.6	5.6	6.2	5.0	5.1						
			2	28.2	8.1	21.1	6.6	95.4	6.7	5.2									
	Middle	4.3	1	28.3	8.3	23.3	5.9	86.6	8.8	5.1									
			2	28.3	8.4	23.3	5.7	83.2	8.9	5.3									
	Bottom	7.6	1	28.1	8.2	25.9	5.0	73.8	10.3	4.7									
			2	28.2	8.2	25.8	5.1	81.2	10.4	4.4									
			1	28.3	8.1	24.7	6.4	93.7	5.7	4.3	6.3	7.8	4.9						
			2	28.3	8.1	24.7	6.4	93.7	5.7	4.1									
	Middle	3.8	1	28.3	8.1	24.7	6.3	92.0	6.1	4.8									
			2	28.3	8.1	24.7	6.2	91.8	6.1	4.5									
	Bottom	6.6	1	27.9	8.4	26.8	4.8	71.7	11.5	5.8									
			2	27.9	8.4	26.8	4.8	71.8	11.6	6.1									
		1	28.4	8.0	24.8	6.7	99.0	4.5	5.0	6.5	6.0	4.5							
		2	28.4	8.0	24.8	6.7	98.8	4.5	5.4										
Middle	5.1	1	28.3	8.0	25.3	6.2	92.0	6.4	4.0										
		2	28.3	8.0	25.3	6.2	92.0	6.5	4.4										
Bottom	9.2	1	28.2	8.4	25.9	6.0	88.7	7.1	3.8										
		2	28.2	8.4	25.8	6.0	88.8	7.1	4.1										
		1	28.4	8.3	24.2	4.7	69.5	7.0	4.0	4.7	8.3	4.5							
		2	28.4	8.3	24.8	4.6	67.5	7.1	3.7										
Bottom	3.1	1	28.2	8.0	27.0	4.2	62.6	9.4	5.4										
		2	28.2	7.8	27.0	4.4	64.8	9.5	5.0										
		1	28.3	8.4	24.6	5.6	82.8	6.1	3.8				5.6	6.5	4.5				
		2	28.3	8.4	24.6	5.5	81.6	6.3	4.2										
Bottom	2.6	1	28.3	8.2	25.2	5.2	77.2	6.8	4.9										
		2	28.3	8.1	25.1	5.4	79.5	6.8	5.2										
		1	28.1	8.0	25.3	6.1	89.9	5.3	5.5	5.3	6.5	5.0							
		2	28.1	8.0	25.3	6.1	89.5	5.3	5.7										
Middle	4.3	1	28.1	8.0	25.8	5.5	81.3	6.0	4.6										
		2	28.1	8.0	25.8	5.4	80.1	6.1	5.0										
Bottom	7.5	1	27.8	8.0	27.9	4.4	64.9	8.2	4.2										
		2	27.8	8.0	27.9	4.4	64.9	8.3	4.8										
		1	27.8	8.0	27.2	5.9	86.9	4.9	9.7	5.0	6.8	8.5							
		2	27.8	8.0	27.2	5.9	86.7	4.9	9.4										
Middle	6.1	1	26.9	8.4	30.1	4.2	62.4	7.4	8.1										
		2	26.9	8.4	30.2	4.2	62.1	7.5	7.8										
Bottom	11.1	1	26.4	8.3	31.7	4.0	59.0	8.1	8.0										
		2	26.4	8.3	31.7	4.0	59.1	8.1	7.8										
		1	27.7	8.4	28.7	3.8	56.0	3.7	5.5	5.2	5.8	5.3							
		2	27.7	8.4	28.7	3.8	56.4	3.8	6.0										
Middle	4.0	1	28.1	8.3	22.5	6.7	97.8	5.1	5.6										
		2	28.1	8.3	22.4	6.7	97.5	5.2	5.1										
Bottom	7.0	1	28.2	8.0	23.7	6.8	97.7	8.6	4.8										
		2	28.2	8.0	23.8	6.7	96.6	8.6	4.5										
		1	28.1	7.9	25.6	6.5	95.2	6.4	3.6	6.4	8.5	4.1							
		2	28.1	7.9	25.6	6.5	95.2	6.4	3.8										
Middle	3.7	1	28.1	7.9	25.7	6.3	93.3	8.7	4.1										
		2	28.1	8.0	25.7	6.3	93.4	8.6	4.3										
Bottom	6.4	1	28.1	8.4	25.8	6.1	89.4	10.5	4.2										
		2	28.1	8.3	25.8	6.0	87.9	10.4	4.5										
		1	28.0	8.0	25.9	6.4	94.8	6.9	4.2	6.0	8.3	5.0							
		2	28.0	8.0	25.9	6.4	94.3	6.9	4.8										
Middle	5.2	1	27.9	8.0	26.7	5.7	84.0	8.2	5.2										
		2	27.9	8.0	26.7	5.7	83.9	8.3	4.8										
Bottom	9.4	1	27.7	8.3	28.7	5.4	79.9	9.6	5.4										
		2	27.7	8.3	28.6	5.4	79.9	9.6	5.6										
		1	28.3	8.4	24.3	5.4	78.9	7.4	3.4	5.2	9.1	4.2							
		2	28.3	8.4	24.3	5.1	74.7	7.7	3.6										
Bottom	2.6	1	28.3	8.3	26.5	4.1	61.1	10.6	5.0										
		2	28.3	8.2	26.7	4.3	64.6	10.6	4.6										
		1	28.2	8.4	25.3	6.4	94.8	9.6	2.8				6.4	10.0	4.2				
		2	28.2	8.4	25.3	6.4	94.7	9.7	3.3										
Bottom	2.8	1	28.2	8.3	25.5	6.3	92.7	10.3	5.6										
		2	28.2	8.3	25.5	6.1	90.3	10.5	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)									
2021-07-21	Mid-Ebb	TCE-C1	Rainy	Rough	11:13	7.8	Surface	1.0	1	26.9	8.2	25.5	5.2	74.5	2.2	2.4	4.8	6.5	2.7									
									2	26.9	8.2	25.5	5.2	74.5	2.1	2.2												
							Middle	3.9	1	27.0	8.1	26.8	4.4	63.6	7.8	2.7												
									2	27.0	8.1	26.8	4.4	63.6	7.7	2.4												
							Bottom	6.8	1	27.0	8.1	27.1	4.3	62.6	9.5	3.4												
									2	27.0	8.1	27.1	4.3	62.6	9.5	2.9												
		TCE-C2	Rainy	Rough	9:11	14.6	Surface	1.0	1	26.6	8.0	24.9	5.0	72.1	2.2	4.0	4.6	2.6	4.4									
									2	26.6	8.0	24.9	5.0	72.1	2.2	3.7												
							Middle	7.3	1	26.3	8.0	26.3	4.2	60.1	2.9	4.6												
									2	26.3	8.0	26.3	4.2	60.1	2.9	4.4												
							Bottom	13.6	1	26.0	8.0	27.0	4.0	56.9	2.7	5.1												
									2	26.0	8.0	26.9	4.0	56.9	2.7	4.7												
		TCE-WQM1	Rainy	Rough	10:35	10.4	Surface	1.0	1	26.7	8.1	21.9	4.8	67.2	3.3	3.8	4.4	5.3	4.2									
									2	26.7	8.1	21.9	4.8	67.2	3.3	3.4												
							Middle	5.2	1	26.9	8.0	25.2	4.0	58.3	5.2	4.0												
									2	26.9	8.0	25.2	4.0	58.3	5.3	4.3												
							Bottom	9.4	1	26.9	8.0	25.6	4.1	59.3	7.3	5.0												
									2	26.9	8.0	25.6	4.1	59.4	7.3	4.7												
		TCE-WQM2a	Rainy	Rough	10:00	8.2	Surface	1.0	1	26.6	8.1	25.2	4.5	64.5	3.7	4.3	4.5	4.6	5.4									
									2	26.6	8.1	25.2	4.5	64.5	3.7	4.7												
							Middle	4.1	1	26.6	8.1	25.4	4.5	64.2	4.0	5.9												
									2	26.6	8.1	25.4	4.5	64.2	4.0	5.4												
							Bottom	7.2	1	26.1	8.0	27.6	4.1	58.4	6.1	6.2												
									2	26.1	8.0	27.6	4.1	58.5	6.1	5.9												
	TCE-WQM2b	Rainy	Rough	9:47	11.5	Surface	1.0	1	26.9	8.1	24.2	4.9	71.0	3.2	5.1	4.8	5.3	4.2										
								2	26.9	8.1	24.2	4.9	70.9	3.2	5.2													
						Middle	5.8	1	26.7	8.1	25.3	4.6	66.0	5.3	3.8													
								2	26.7	8.1	25.3	4.6	66.0	5.2	4.2													
						Bottom	10.5	1	26.7	8.0	25.4	4.6	66.3	7.5	3.1													
								2	26.7	8.0	25.4	4.6	66.3	7.6	3.5													
	TCE-WQM3A	Rainy	Rough	10:13	4.8	Surface	1.0	1	26.8	8.0	23.5	4.5	64.5	5.0	7.0	4.5	5.3	6.9										
								2	26.8	8.0	23.5	4.5	64.5	5.0	7.4													
						Bottom	3.8	1	26.8	8.0	24.8	4.7	67.3	5.6	6.5													
								2	26.8	8.0	24.8	4.7	67.4	5.8	6.8													
						TCE-WQM4	Rainy	Rough	10:23	4.2	Surface	1.0	1	26.6	8.1				21.7	5.2	73.3	3.0	7.7	5.2	4.8	7.3		
													2	26.6	8.1				21.7	5.2	73.3	3.0	7.7					
	Bottom	3.2	1	26.9	8.0						24.4	3.7	52.7	6.6	6.7													
			2	26.9	8.0						24.4	3.7	52.8	6.6	7.0													
	2021-07-21	Mid-Flood	TCE-C1	Rainy	Rough						16:30	7.2	Surface	1.0	1	27.0	8.2	26.6	4.3	62.6	3.6	7.2	4.3				5.2	12.7
															2	27.0	8.2	26.6	4.3	62.6	3.7	17.0						
						Middle	3.6	1	27.0	8.1			26.7	4.3	62.2	4.5	13.2											
								2	27.0	8.1			26.7	4.3	62.3	4.6	16.2											
						Bottom	6.2	1	27.0	8.1			26.8	4.3	62.4	7.3	6.3											
								2	27.0	8.1			26.8	4.3	62.5	7.3	16.1											
			TCE-C2	Cloudy	Rough	18:28	13.8	Surface	1.0	1	26.8	8.2	25.0	5.0	72.4	3.8	7.4	4.9	5.3	7.5								
										2	26.8	8.2	25.0	5.0	72.4	3.8	7.1											
								Middle	6.9	1	26.8	8.1	25.2	4.8	69.2	5.8	10.9											
										2	26.8	8.1	25.2	4.8	69.2	5.8	6.5											
Bottom								12.8	1	26.7	8.1	25.5	4.7	67.2	6.3	6.4												
									2	26.7	8.1	25.5	4.7	67.2	6.4	6.8												
TCE-WQM1		Rainy	Rough	17:17	8.5	Surface	1.0	1	26.8	8.1	22.1	5.5	77.1	2.7	4.1	5.3	5.4	3.7										
								2	26.8	8.1	22.1	5.5	77.1	2.6	4.4													
						Middle	4.3	1	26.8	8.1	22.8	5.2	73.7	3.1	3.9													
								2	26.8	8.1	22.8	5.2	73.6	3.1	3.4													
						Bottom	7.5	1	26.9	8.1	25.4	4.0	58.1	10.5	3.3													
								2	26.9	8.1	25.4	4.0	58.1	10.6	3.1													
TCE-WQM2a		Cloudy	Rough	17:53	7.1	Surface	1.0	1	26.8	8.2	23.3	5.1	72.0	4.0	7.7	4.8	7.3	6.8										
								2	26.8	8.2	23.3	5.1	72.0	4.0	8.1													
						Middle	3.6	1	26.6	8.1	24.8	4.6	65.3	9.5	7.4													
								2	26.6	8.1	24.8	4.6	65.4	9.6	7.8													
						Bottom	6.1	1	26.6	8.1	25.7	4.2	61.0	8.2	4.7													
								2	26.6	8.1	25.7	4.2	61.0	8.3	5.2													
TCE-WQM2b	Cloudy	Rough	18:05	10.1	Surface	1.0	1	27.0	8.2	24.1	5.4	77.2	4.7	6.5	5.3	6.7	7.5											
							2	27.0	8.2	24.1	5.4	77.2	4.6	6.3														
					Middle	5.1	1	27.0	8.1	24.3	5.2	74.5	9.4	7.7														
							2	27.0	8.1	24.3	5.2	74.6	9.2	7.4														
					Bottom	9.1	1	26.9	8.1	24.6	5.0	71.6	6.1	8.4														
							2	26.9	8.1	24.6	5.0	71.6	6.2	8.8														
TCE-WQM3A	Rainy	Rough	17:42	3.8	Surface	1.0	1	26.8	8.2	23.5	4.4	62.6	5.9	10.3	4.4	8.5	9.2											
							2	26.8	8.2	23.6	4.4	62.6	6.0	10.9														
					Bottom	2.8	1	26.7	8.1	25.7	3.9	56.6	11.0	7.7														
							2	26.7	8.1	25.7	3.9	56.7	11.0	8.0														
					TCE-WQM4	Rainy	Rough	17:30	3.4	Surface	1.0	1	26.9	8.1				24.0	4.1	58.8	5.1	6.2	4.1	6.1	7.1			
												2	26.9	8.1				24.0	4.1	58.9	5.2	6.0						
Bottom	2.4	1	26.8	8.1						24.5	4.1	58.2	6.9	8.3														
		2	26.8	8.1						24.6	4.1	58.2	7.0	8.0														



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged											
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)									
2021-07-26	Mid-Ebb	TCE-C1	Sunny	Moderate	12:57	8.8	Surface	1.0	1	31.3	8.0	24.4	6.5	101.4	9.6	4.4	6.5	6.9	6.1									
									2	31.3	8.0	24.4	6.5	101.4	9.6	3.8												
							Middle	4.4	1	30.8	8.0	24.3	6.5	101.3	6.5	5.8												
									2	30.8	8.0	24.3	6.5	101.2	6.6	6.2												
							Bottom	7.8	1	30.5	8.1	24.3	6.5	100.4	4.6	8.1												
									2	30.5	8.1	24.3	6.5	100.3	4.6	8.2												
		TCE-C2	Sunny	Moderate	15:04	12.5	Surface	1.0	1	29.0	8.0	24.2	5.6	84.5	9.1	10.5	5.6	11.6	12.2									
									2	29.0	8.0	24.2	5.6	84.4	9.2	10.7												
							Middle	6.3	1	28.9	8.0	24.5	5.6	82.5	10.3	12.2												
									2	28.9	8.0	24.5	5.5	82.1	10.5	12.3												
							Bottom	11.5	1	28.8	7.9	25.0	5.4	80.0	15.2	13.7												
									2	28.8	7.9	25.0	5.4	80.0	15.2	13.8												
	TCE-WQM1	Sunny	Moderate	13:43	8.2	Surface	1.0	1	29.2	8.0	24.6	5.6	84.3	10.0	9.8	5.6	10.7	8.8										
								2	29.2	8.0	24.6	5.5	84.0	10.2	10.0													
						Middle	4.1	1	29.1	8.0	24.6	5.6	83.1	11.0	8.8													
								2	29.1	8.0	24.6	5.6	83.1	11.0	8.5													
						Bottom	7.2	1	29.1	8.0	24.6	5.6	83.4	11.0	8.1													
								2	29.1	8.0	24.6	5.6	83.5	10.8	7.8													
	TCE-WQM2a	Sunny	Moderate	14:29	6.5	Surface	1.0	1	29.0	7.9	24.5	5.4	80.4	6.7	8.3	5.3	7.6	9.0										
								2	29.0	7.9	24.5	5.4	80.4	6.7	7.8													
						Middle	3.2	1	28.6	7.9	25.1	5.3	78.1	7.5	9.2													
								2	28.5	7.9	25.1	5.3	78.0	7.6	8.8													
						Bottom	5.5	1	28.3	7.9	25.7	4.8	71.6	8.6	9.8													
								2	28.2	7.9	25.8	4.8	71.6	8.6	10.2													
	TCE-WQM2b	Sunny	Moderate	14:42	11.1	Surface	1.0	1	29.1	8.0	23.9	5.8	87.0	12.1	9.7	5.6	11.5	14.1										
								2	29.1	8.0	24.0	5.7	86.9	12.3	10.1													
						Middle	5.6	1	28.9	7.9	24.2	5.4	81.5	10.9	12.2													
								2	28.8	7.9	24.2	5.5	81.5	10.3	12.8													
						Bottom	10.1	1	28.8	7.9	24.2	5.5	81.5	12.0	19.5													
								2	28.8	7.9	24.2	5.5	81.6	11.7	20.4													
	TCE-WQM3A	Sunny	Moderate	14:19	3.9	Surface	1.0	1	29.1	7.9	23.4	5.8	87.9	8.3	9.2	5.9	11.5	9.6										
								2	29.0	7.9	23.4	5.9	87.8	9.0	9.4													
						Bottom	2.9	1	28.8	7.9	23.6	5.2	76.6	13.8	9.9													
								2	28.9	7.9	23.6	5.2	76.8	15.0	10.0													
						TCE-WQM4	Sunny	Moderate	14:08	3.3	Surface	1.0	1	29.5	8.0				24.0	5.8	87.5	7.4	5.5	5.8	9.6	7.6		
													2	29.5	8.0				24.0	5.8	87.3	7.3	5.9					
	Bottom	2.3	1	29.5	7.9						24.1	5.7	86.8	11.8	9.5													
			2	29.5	7.9						24.1	5.8	86.8	12.0	9.5													
	2021-07-26	Mid-Flood	TCE-C1	Sunny	Moderate						9:23	9.1	Surface	1.0	1	28.4	8.0	25.0	5.8	85.7	7.8	8.6	5.5				9.8	7.2
															2	28.3	8.0	25.0	5.8	85.7	7.8	8.6						
						Middle	4.6	1	28.0	8.0			28.3	5.3	79.0	10.2	7.2											
								2	28.0	8.0			28.4	5.3	78.9	10.7	7.3											
						Bottom	8.1	1	28.0	8.0			28.5	5.3	78.6	11.1	6.0											
								2	28.0	8.0			28.5	5.3	78.6	11.4	5.6											
			TCE-C2	Sunny	Moderate	7:38	12.3	Surface	1.0	1	27.8	7.9	26.9	4.5	66.3	12.0	7.8	4.4	11.7	6.6								
										2	27.8	7.9	26.9	4.5	66.1	12.4	7.6											
								Middle	6.2	1	27.7	7.9	27.2	4.4	64.9	10.5	6.1											
										2	27.7	7.9	27.2	4.4	64.9	10.6	6.5											
Bottom								11.3	1	27.6	7.9	27.4	4.4	65.2	12.3	5.7												
									2	27.6	7.9	27.4	4.4	65.3	12.4	5.6												
TCE-WQM1	Sunny	Moderate	8:42	8.4	Surface	1.0	1	28.9	7.9	24.2	5.4	80.3	7.5	7.7	5.4	7.6	8.9											
							2	28.9	7.9	24.2	5.4	80.2	7.5	8.3														
					Middle	4.2	1	28.8	7.9	24.2	5.3	79.1	7.7	8.8														
							2	28.8	7.9	24.2	5.3	79.0	7.8	8.9														
					Bottom	7.4	1	28.8	7.9	24.1	5.3	78.9	7.6	9.8														
							2	28.8	7.9	24.1	5.3	78.9	7.6	9.9														
TCE-WQM2a	Sunny	Moderate	8:11	7.0	Surface	1.0	1	28.7	7.9	23.3	5.6	82.6	4.0	10.2	5.4	5.8	7.1											
							2	28.7	7.9	23.3	5.6	82.6	4.0	9.8														
					Middle	3.5	1	28.6	7.9	24.1	5.1	75.2	5.7	5.6														
							2	28.5	7.9	24.1	5.1	75.2	5.7	6.1														
					Bottom	6.0	1	28.5	7.9	24.2	5.1	75.0	7.7	5.2														
							2	28.5	7.9	24.2	5.1	75.1	7.7	5.4														
TCE-WQM2b	Sunny	Moderate	7:59	11.4	Surface	1.0	1	28.6	7.9	23.9	5.3	77.8	10.9	8.2	5.2	12.4	10.6											
							2	28.6	7.9	23.9	5.3	77.6	11.1	8.6														
					Middle	5.7	1	28.4	7.9	24.3	5.1	74.7	12.1	11.0														
							2	28.4	7.9	24.4	5.0	74.2	11.9	11.4														
					Bottom	10.4	1	28.3	7.9	24.7	4.9	72.5	14.2	11.9														
							2	28.4	7.9	24.5	4.9	72.8	14.2	12.2														
TCE-WQM3A	Sunny	Moderate	8:22	4.5	Surface	1.0	1	28.6	7.9	23.5	5.3	78.1	6.4	5.3	5.3	6.8	7.2											
							2	28.6	7.9	23.6	5.3	78.0	6.4	5.4														
					Bottom	3.5	1	28.6	7.9	23.5	5.3	77.8	6.7	8.8														
							2	28.6	7.9	23.5	5.3	78.0	7.6	9.2														
					TCE-WQM4	Sunny	Moderate	8:31	3.9	Surface	1.0	1	28.7	7.9				23.5	5.6	81.7	6.0	7.0	5.6	6.5	7.8			
												2	28.7	7.9				23.5	5.6	81.7	6.0	6.4						
Bottom	2.9	1	28.7	7.9						23.5	5.6	82.7	7.1	9.2														
		2	28.6	7.9						23.5	5.7	83.1	6.9	8.7														



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2021-07-28	Mid-Ebb	TCE-C1	Cloudy	Moderate	14:17	8.4	Surface	1.0	1	30.1	8.0	24.4	6.1	94.4	9.6	7.2	5.4	11.2	6.3
									2	30.1	8.0	24.4	6.0	90.4	10.0	6.9			
							Middle	4.2	1	28.3	8.0	32.0	4.8	73.3	11.5	6.5			
							Bottom	7.4	1	28.3	8.0	32.0	4.8	72.9	11.5	6.1			
						2	28.3	8.0	32.0	4.7	71.8	12.2	5.8	4.7					
				2	28.3	8.0	32.0	4.7	71.7	12.2	5.4								
		Surface	1.0	1	30.3	8.0	25.7	6.7	104.3	4.0	5.6								
				2	30.3	8.0	25.7	6.7	104.0	4.0	5.4								
						1	29.5	7.9	27.3	5.4	81.8	7.4	5.4	6.0	6.7	5.0			
		Middle	6.4	1	29.5	7.9	27.3	5.4	81.7	7.6	4.9								
				2	28.5	7.9	30.4	4.6	70.3	8.6	4.6								
		Bottom	11.8	1	28.5	7.9	30.4	4.6	70.5	8.6	4.2								
					2	28.5	7.9	30.4	4.6	70.3	8.6	4.2	6.1	8.3	8.7				
	Surface	1.0	1	30.2	8.0	24.8	6.1	93.9	6.8	8.1									
			2	30.2	8.0	24.8	6.2	93.9	6.8	7.7									
	Middle	4.5	1	30.1	7.9	25.1	6.1	92.8	8.2	8.6									
					2	30.1	7.9	25.1	6.1	92.6	8.5	8.4	5.9						
			2	30.0	8.0	25.4	5.9	89.5	9.8	9.7									
	Bottom	7.9	1	30.0	8.0	25.4	5.9	89.8	9.7	9.9									
			2	29.7	7.9	26.4	5.3	79.8	6.3	7.3									
					2	29.7	7.9	26.4	5.3	79.8	6.3	7.5	5.3	6.1	8.4				
	Middle	3.7	1	29.6	7.9	26.7	5.3	79.9	6.1	8.4									
			2	29.6	7.9	26.7	5.3	79.9	6.1	8.7									
	Bottom	6.4	1	29.6	7.9	26.8	5.3	79.8	6.0	9.4									
				2	29.6	7.9	26.8	5.2	79.8	6.0	9.0	5.2							
Surface	1.0	1	30.2	8.0	25.0	6.4	98.5	4.0	3.4										
		2	30.2	8.0	25.1	6.4	98.5	4.1	3.8										
Middle	6.0	1	30.0	7.9	25.5	6.1	94.0	5.8	4.8										
				2	30.0	7.9	25.5	6.2	94.0	6.1	4.3	6.2	6.0	4.4					
		2	30.0	7.9	25.6	6.2	94.1	8.2	5.4										
Bottom	10.9	1	30.0	7.9	25.6	6.2	94.4	8.0	4.9										
		2	30.0	7.9	25.6	6.2	94.4	8.0	4.9										
				1	30.5	7.9	25.0	6.1	92.8	6.7	7.0	6.1	6.8	7.7					
Surface	1.0	1	30.6	7.9	25.0	6.1	92.8	6.7	7.3										
		2	29.9	7.9	25.6	5.2	79.4	6.9	7.9										
Bottom	4.0	1	29.9	7.9	25.6	5.2	79.4	6.9	8.4										
				2	29.9	7.9	25.6	5.2	79.4	6.9	8.4	5.2							
Surface	1.0	1	30.2	7.9	25.6	5.6	85.7	8.5	7.3										
		2	30.2	7.9	25.6	5.6	85.7	8.6	7.8										
Bottom	3.1	1	30.1	7.9	25.6	5.4	81.8	9.5	10.0										
				2	30.1	7.9	25.6	5.4	82.3	9.5	10.0	5.4	9.0	8.8					
Surface	1.0	1	29.0	8.0	27.9	6.0	90.3	5.4	11.6										
		2	28.8	8.0	27.8	5.9	89.5	6.4	11.7										
Middle	4.5	1	28.2	8.0	32.2	5.0	76.2	12.6	11.5										
				2	28.2	8.0	32.2	5.0	76.1	13.1	11.3	5.5	11.4	12.0					
		2	28.2	8.0	32.4	5.0	76.1	15.5	13.0										
Bottom	7.9	1	28.2	8.0	32.4	5.0	76.2	15.4	12.6										
		2	28.2	8.0	32.4	5.0	76.2	15.4	12.6										
				1	29.9	8.0	26.4	5.5	83.2	4.5	3.6	4.9	7.2	5.1					
Surface	1.0	1	29.9	8.0	26.4	5.4	82.8	4.5	3.9										
		2	28.3	8.0	30.9	4.4	67.5	7.2	5.0										
Middle	6.2	1	28.3	8.0	30.9	4.4	67.4	7.4	4.6										
				2	28.0	8.0	31.9	4.3	66.1	10.0	7.0	4.3							
		2	28.0	8.0	31.9	4.3	66.1	9.8	6.6										
Bottom	11.4	1	28.0	8.0	31.9	4.3	66.1	9.8	6.6										
		2	30.0	7.9	25.6	5.6	85.7	9.0	7.2										
				2	30.0	7.9	25.6	5.6	85.7	9.0	6.9	5.6	9.7	6.1					
Middle	4.3	1	30.0	7.9	25.6	5.7	86.0	9.8	5.8										
		2	30.0	7.9	25.6	5.7	86.1	9.8	6.4										
Bottom	7.6	1	30.0	7.9	25.6	5.8	87.6	10.2	5.4										
				2	30.0	7.9	25.6	5.8	87.7	10.1	5.0	5.8							
Surface	1.0	1	29.8	7.9	25.8	5.9	90.2	5.0	6.9										
		2	29.8	7.9	25.8	5.9	90.2	5.0	7.4										
Middle	3.6	1	29.4	7.9	26.7	5.2	79.4	6.9	6.4										
				2	29.4	7.9	26.8	5.2	79.3	7.4	6.7	5.6	6.9	6.7					
		2	29.2	7.9	27.4	4.9	74.9	8.1	4.0										
Bottom	6.2	1	29.2	7.9	27.4	4.9	74.9	8.2	4.5										
		2	28.5	7.9	30.2	4.5	68.8	10.2	3.7										
				2	28.5	7.9	30.2	4.5	68.8	10.3	4.0	4.9	7.4	4.4					
Surface	1.0	1	29.8	7.9	25.6	5.8	88.0	3.7	5.0										
		2	29.8	7.9	25.5	5.8	87.8	3.6	5.2										
Middle	5.8	1	29.2	7.9	27.4	4.9	74.9	8.1	4.0										
				2	29.2	7.9	27.4	4.9	74.9	8.2	4.5	5.4	7.2	5.9					
		2	28.5	7.9	30.2	4.5	68.8	10.2	3.7										
Bottom	10.6	1	28.5	7.9	30.2	4.5	68.8	10.3	4.0										
		2	28.5	7.9	30.2	4.5	68.8	10.3	4.0										
				1	30.1	7.9	25.4	5.5	84.1	6.1	8.0	5.5	7.2	5.9					
Surface	1.0	1	30.1	7.9	25.5	5.5	83.8	6.3	7.6										
		2	30.1	7.9	25.5	5.5	83.8	6.3	7.6										
Middle	3.3	1	29.8	7.9	25.7	5.3	80.0	8.3	3.8										
				2	29.8	7.9	25.7	5.3	80.0	8.3	3.8	5.3							
Bottom	3.3	1	29.8	7.9	25.7	5.3	80.0	8.3	3.8										
		2	29.8	7.9	25.7	5.3	80.0	8.3	3.8										
Surface	1.0	1	29.8	7.9	25.8	5.4	82.4	9.2	3.4										
				2	29.8	7.9	25.8	5.5	82.8	9.1	3.5	5.4	8.8	4.3					
		2	29.8	7.9	25.8	5.5	82.8	9.1	3.5										
Bottom	2.8	1	29.8	7.9	25.8	5.6	84.6	8.5	4.9										
		2	29.8	7.9	25.8	5.6	85.0	8.5	5.3										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
2021-07-30	Mid-Ebb	TCE-C1	Rainy	Rough	16:04	7.9	Surface	1.0	1	29.3	8.4	23.5	7.8	116.2	3.7	3.8	6.6	6.3	3.2			
									2	29.3	8.4	23.5	7.8	116.1	3.8	3.4						
							Middle	4.0	1	28.7	8.3	28.9	5.4	82.0	5.4	3.6						
							Bottom	6.9	1	28.2	8.2	28.9	5.4	82.0	5.4	3.1						
						2	28.2	8.2	31.2	4.5	69.2	9.6	2.4	4.5								
				2	28.2	8.2	31.2	4.5	69.2	9.6	2.7											
		Surface	1.0	1	29.3	8.3	26.3	6.2	94.2	4.0	3.3											
				2	29.3	8.3	26.3	6.2	94.2	4.0	3.0											
				Middle	7.3	1	27.9	8.2	30.5	4.4	66.3	5.3	3.3	5.3	5.8	3.5						
				2	27.9	8.2	30.5	4.4	66.3	5.3	3.6											
		Bottom	13.5	1	27.3	8.2	32.0	3.9	58.6	8.0	3.7											
				2	27.3	8.2	32.0	3.9	58.6	8.0	4.2											
			TCE-WQM1	Cloudy	Rough	16:42	9.1	Surface	1.0	1	29.7	8.2	24.2	5.8	87.6	6.0	2.2	5.7	6.6	4.1		
			2					29.7	8.2	24.2	5.8	87.6	6.0	2.6								
			Middle					4.6	1	29.7	8.2	24.6	5.5	83.4	7.3	4.6						
			2					29.7	8.2	24.6	5.5	83.4	7.3	4.9								
					Bottom	8.1	1	29.5	8.2	25.4	5.3	79.3	6.4	5.4	5.3							
					2	29.5	8.2	25.4	5.3	79.3	6.5	4.9										
			Surface	1.0	1	29.7	8.3	24.4	6.3	94.0	7.3	8.4										
					2	29.7	8.3	24.4	6.3	94.0	7.3	8.2										
					Middle	4.2	1	29.3	8.2	26.3	5.4	82.0	6.0	8.1	5.8	7.0	8.0					
					2	29.3	8.2	26.3	5.4	82.0	6.0	8.1										
			Bottom	7.4	1	29.1	8.2	27.2	5.0	75.9	7.8	7.8										
					2	29.1	8.2	27.2	5.0	75.9	7.9	7.4										
		TCE-WQM2a	Cloudy	Rough	17:17	8.4	Surface	1.0	1	29.6	8.3	25.2	6.4	96.7	3.7	7.4	5.8	6.8	6.0			
		2					29.6	8.3	25.2	6.4	96.6	3.7	7.9									
		Middle					6.0	1	29.1	8.2	27.2	5.3	79.7	8.0	6.1							
		2					29.1	8.2	27.2	5.3	79.7	8.0	5.8									
				Bottom	10.9	1	28.8	8.2	28.0	4.9	74.0	8.7	4.2	4.9								
				2	28.8	8.2	28.0	4.9	74.0	8.8	4.6											
		Surface	1.0	1	29.6	8.3	23.8	6.5	97.3	4.6	5.4											
				2	29.6	8.3	23.8	6.5	97.2	4.5	5.8											
				Bottom	3.6	1	29.6	8.2	25.2	5.4	81.5	9.5	5.1	5.4	7.0	5.4						
				2	29.6	8.2	25.2	5.4	81.6	9.5	5.3											
		TCE-WQM3A	Cloudy	Rough	17:06	4.6	Surface	1.0	1	29.8	8.3	24.0	6.7				100.1	6.0	5.6	6.7	7.7	5.7
								2	29.8	8.3	24.0	6.7	100.2				5.9	6.2				
		Bottom					2.9	1	29.6	8.2	25.0	5.6	84.4	9.3	5.2							
								2	29.6	8.2	25.0	5.6	84.4	9.4	5.6							
		TCE-WQM4	Cloudy	Rough	16:54	3.9	Surface	1.0	1	29.5	8.3	24.7	6.5	97.0	3.7	5.0	6.0	6.4	4.3			
								2	29.5	8.3	24.6	6.5	97.2	3.7	5.4							
		Middle					3.8	1	29.0	8.3	27.7	5.6	85.3	4.6	4.6							
		2					29.0	8.3	27.7	5.6	85.3	4.6	4.2									
				Bottom	6.6	1	28.3	8.2	30.7	4.8	73.5	11.0	3.1	4.8								
				2	28.3	8.2	30.7	4.8	73.5	10.9	3.4											
		TCE-C2	Rainy	Rough	9:12	13.7	Surface	1.0	1	29.8	8.2	23.1	6.5				97.7	4.8	3.4	6.2	5.7	4.0
								2	29.8	8.2	23.1	6.5	97.7				4.7	3.1				
		Middle					6.9	1	29.4	8.2	25.7	5.9	88.3	4.4	3.7							
		2					29.4	8.2	25.7	5.9	88.3	4.4	4.0									
				Bottom	12.7	1	28.3	8.1	29.9	4.4	66.2	7.8	5.2	4.4								
				2	28.2	8.1	30.0	4.4	66.1	7.8	4.8											
		TCE-WQM1	Rainy	Rough	10:25	8.9	Surface	1.0	1	29.7	8.3	23.9	6.1				90.7	5.0	3.8	6.0	6.3	4.2
								2	29.7	8.3	23.9	6.0	90.7				5.0	3.4				
		Middle					4.5	1	29.7	8.2	24.2	5.9	88.1	6.3	3.9							
		2					29.7	8.2	24.2	5.9	88.1	6.3	4.3									
				Bottom	7.9	1	29.7	8.2	25.0	5.3	80.1	7.5	4.6	5.3								
				2	29.7	8.2	25.0	5.3	80.1	7.6	5.0											
		Surface	1.0	1	29.5	8.2	24.7	5.8	87.1	4.4	3.4											
				2	29.5	8.2	24.7	5.8	87.1	4.4	3.2											
				Middle	3.9	1	29.6	8.2	25.2	5.7	85.3	4.3	2.9	5.7	6.2	2.8						
				2	29.6	8.2	25.2	5.7	85.2	4.4	3.1											
		Bottom	6.8	1	29.3	8.2	26.6	5.2	78.4	9.9	2.0											
				2	29.3	8.2	26.6	5.2	78.3	9.9	2.4											
		TCE-WQM2b	Rainy	Rough	9:38	10.1	Surface	1.0	1	29.7	8.2	23.6	6.3	94.5	4.0	4.1	6.0	5.4	3.8			
								2	29.7	8.2	23.6	6.3	94.5	4.0	4.4							
		Middle					5.1	1	29.6	8.2	25.3	5.6	85.0	5.5	3.4							
		2					29.6	8.2	25.3	5.6	85.0	5.6	3.7									
				Bottom	9.1	1	29.0	8.2	27.7	4.9	74.4	6.7	3.5	4.9								
				2	29.0	8.2	27.7	4.9	74.4	6.7	3.4											
		TCE-WQM3A	Rainy	Rough	10:03	4.1	Surface	1.0	1	29.7	8.2	24.8	5.7				85.5	6.0	2.1	5.7	7.7	2.6
								2	29.7	8.2	24.9	5.7	85.6				6.3	2.4				
		Bottom					3.1	1	29.6	8.2	25.5	5.3	80.1	9.3	2.7							
								2	29.6	8.2	25.5	5.3	80.1	9.3	3.1							
		TCE-WQM4	Rainy	Rough	10:13	3.8	Surface	1.0	1	29.4	8.3	23.8	6.2	92.9	6.3	5.9	6.2	7.9	5.0			
								2	29.4	8.3	23.8	6.2	92.9	6.3	5.4							
		Bottom					2.8	1	29.5	8.2	24.4	6.0	89.2	9.5	4.2							
								2	29.5	8.2	24.4	6.0	89.2	9.6	4.5							