

Annex G3

Monitoring Results for Water Quality

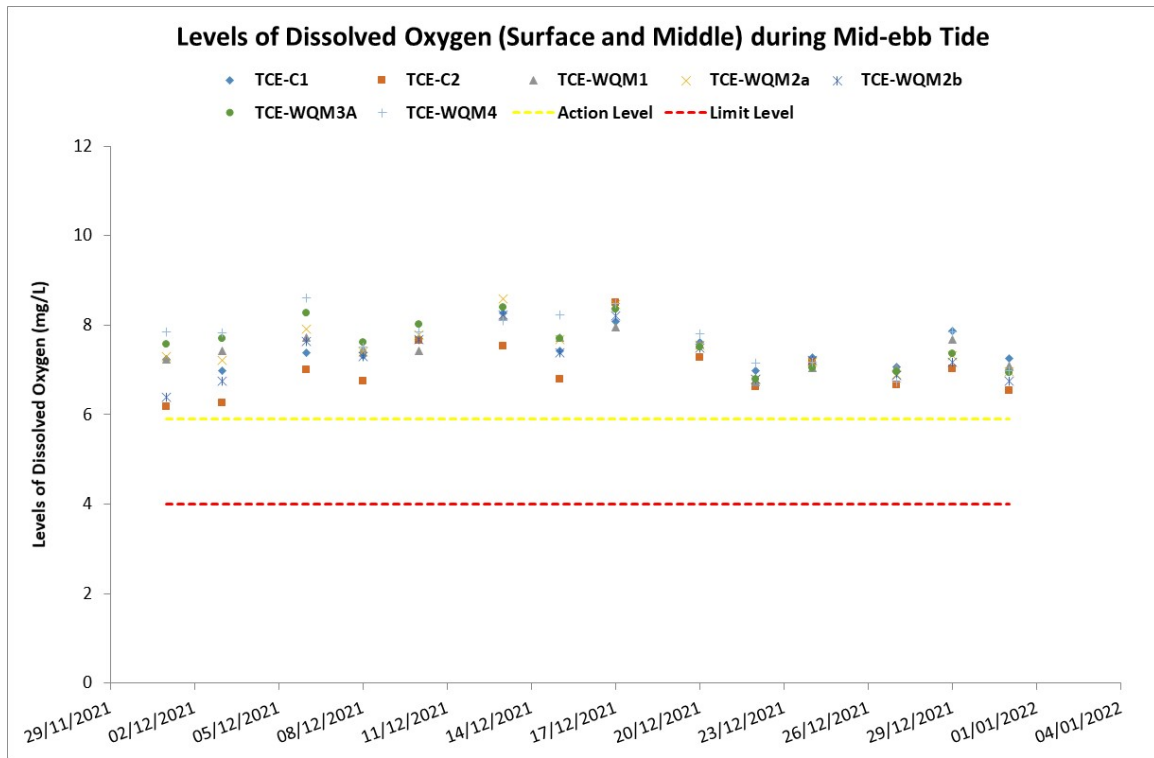


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2021

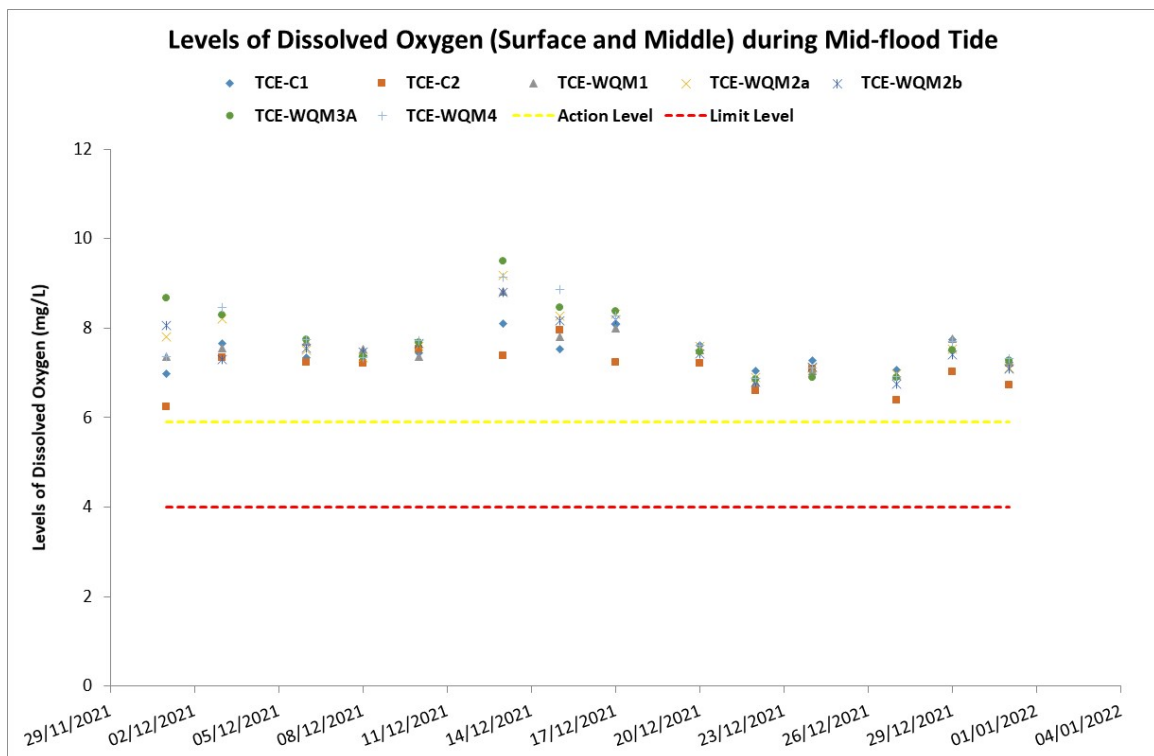


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2021

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

**Environmental
 Resources
 Management**



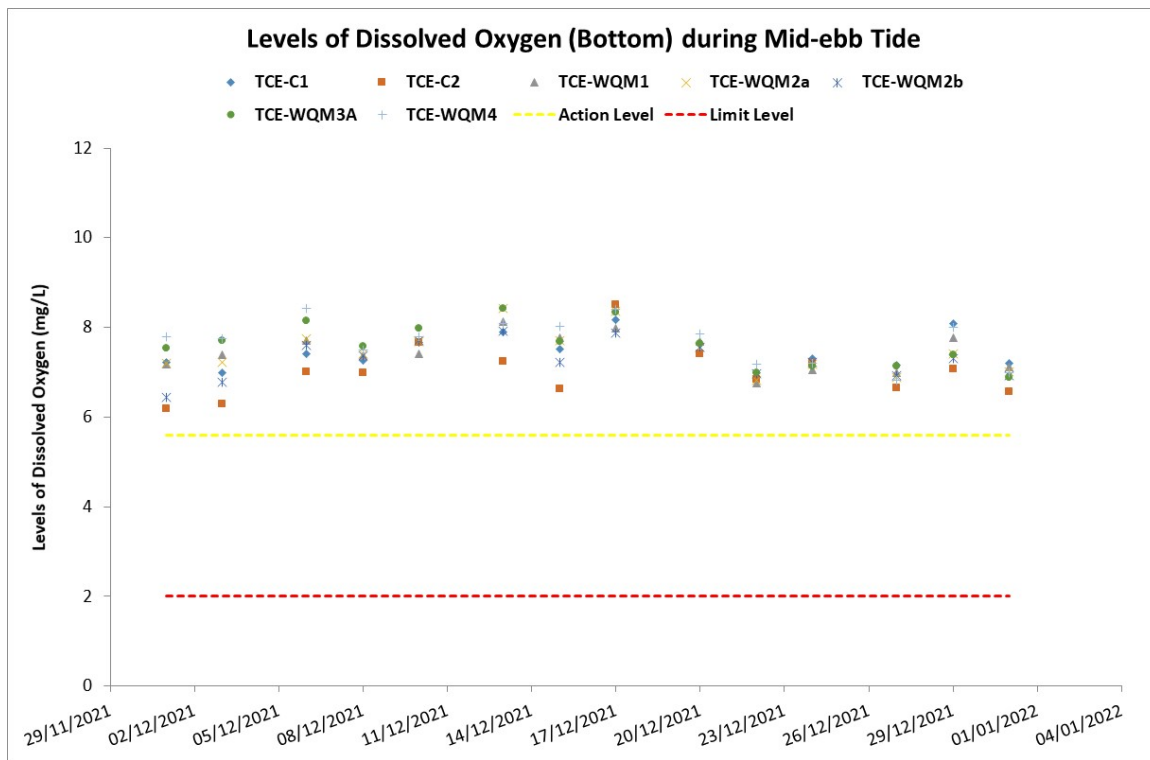


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2021

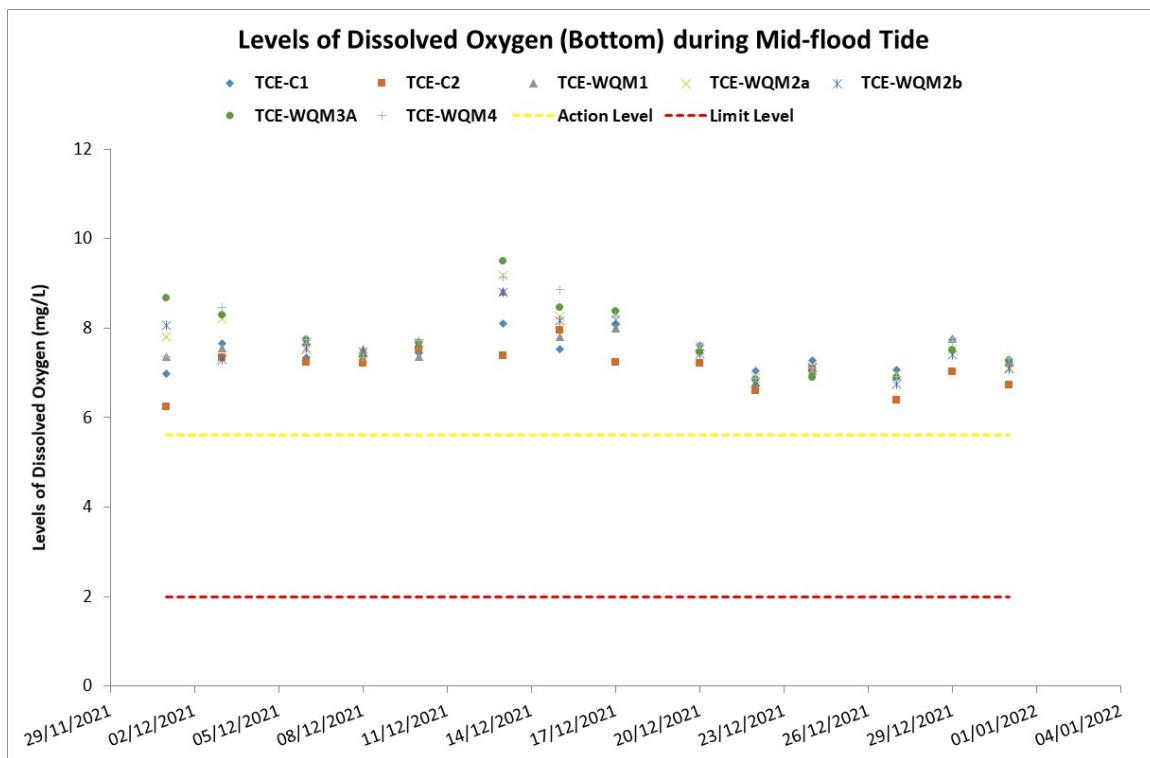


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2021

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

**Environmental
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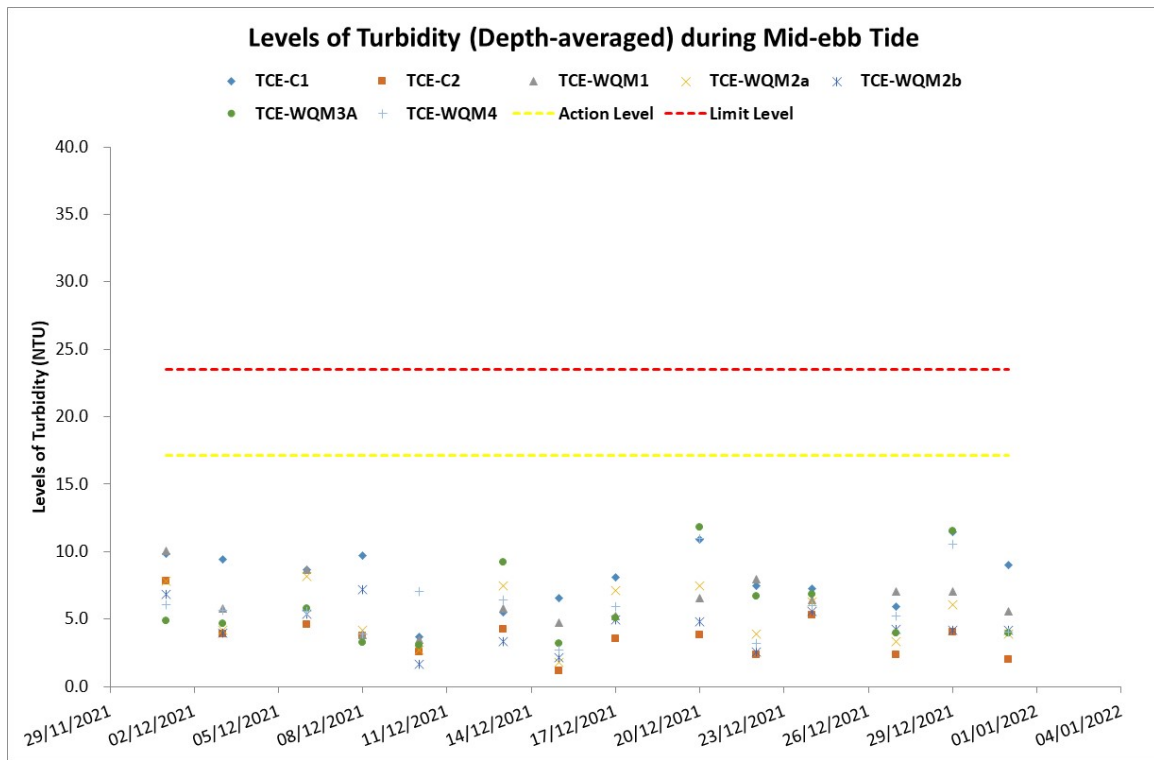


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2021

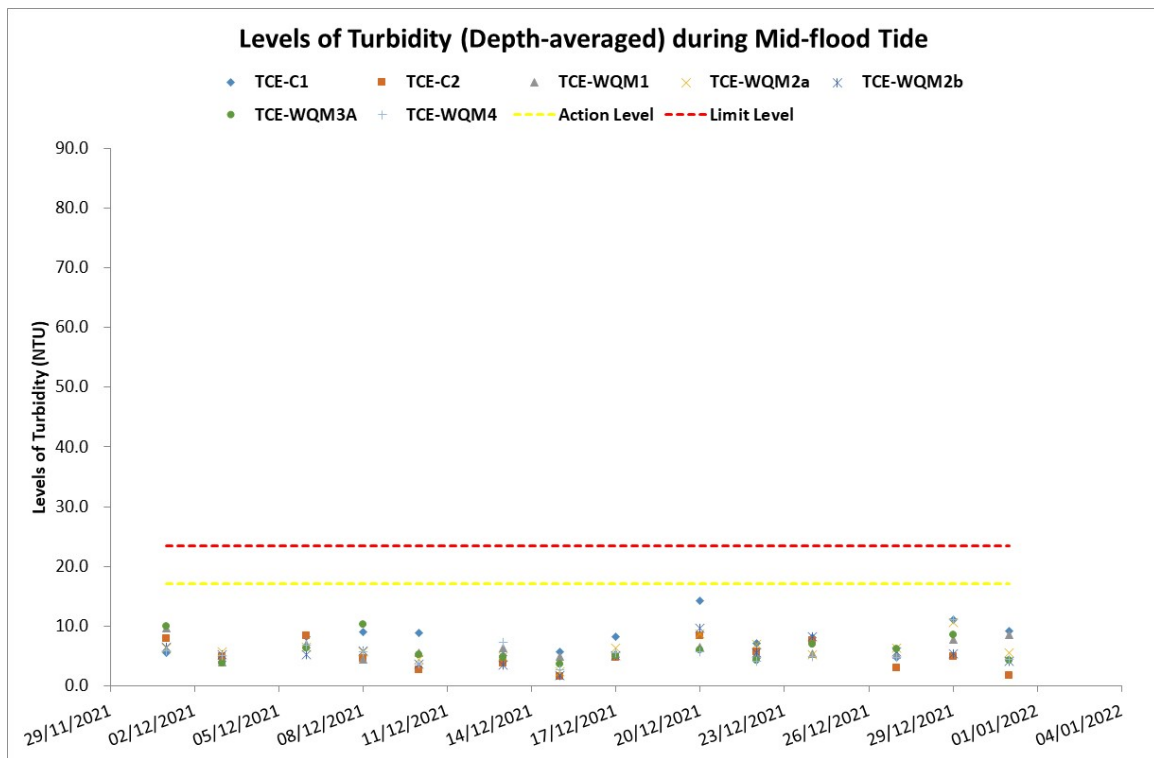


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2021

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

Date: December 2021

**Environmental
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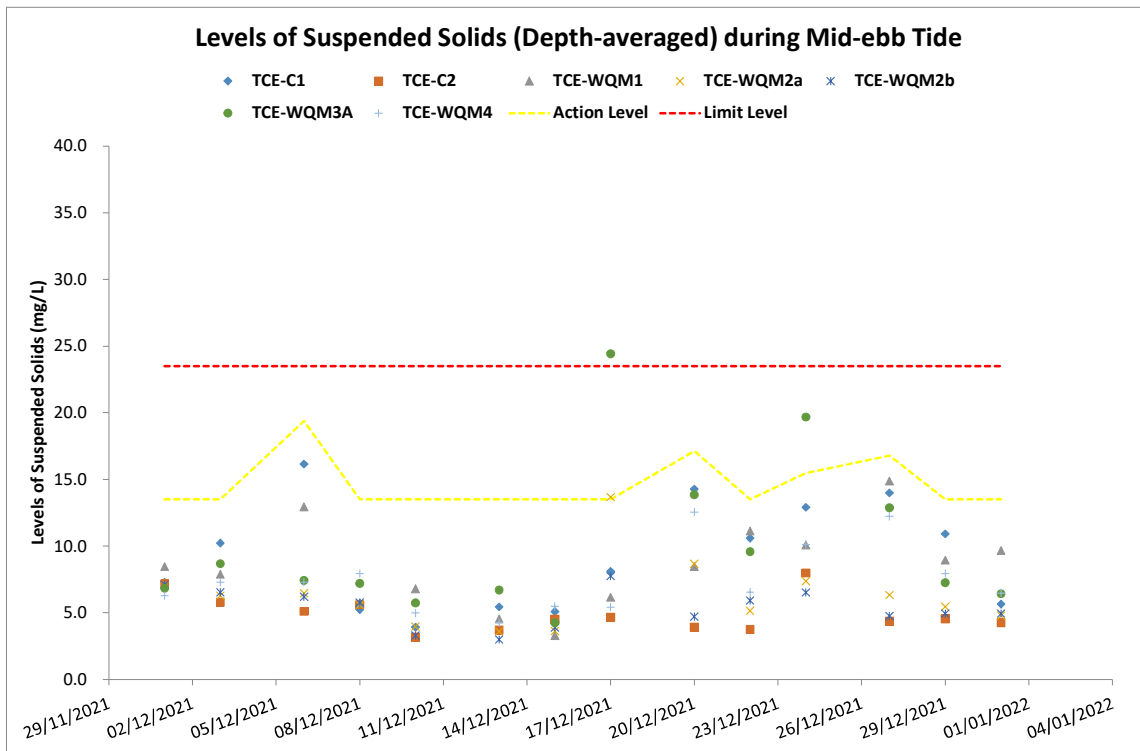


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 December 2021

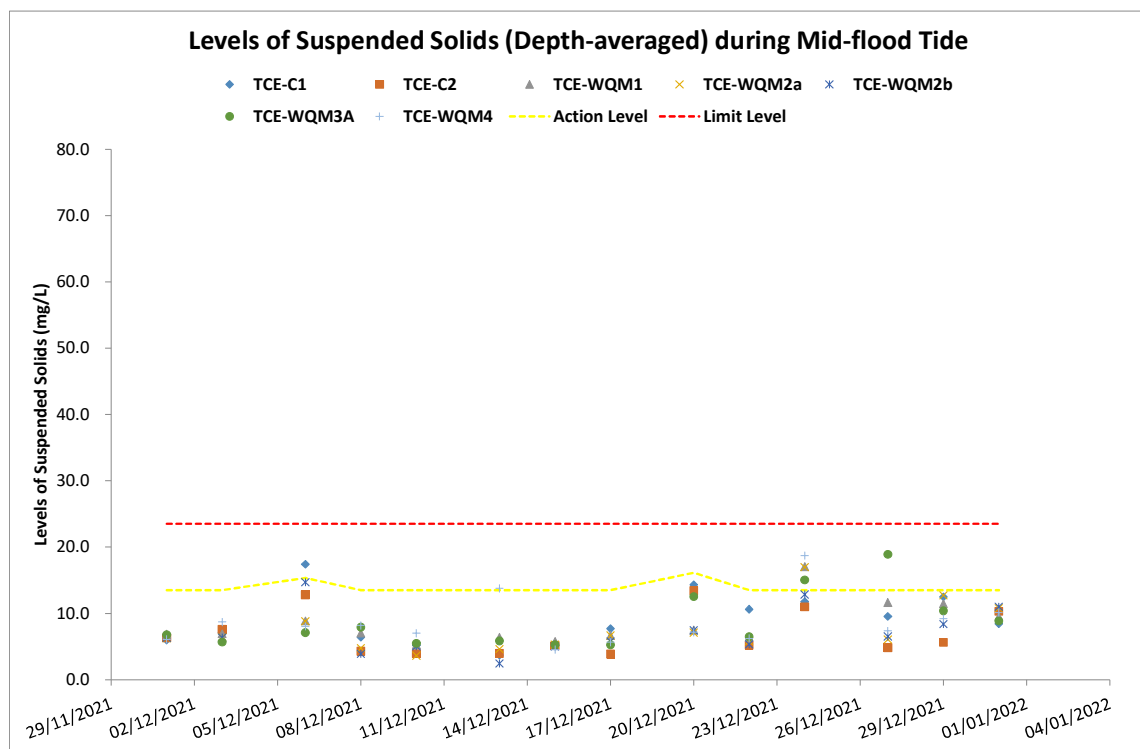


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 December 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: December 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)		
2021-12-01	Mid-Ebb	TCE-C1	Fine	Rough	10:43	7.8	Surface	1.0	1	21.3	8.2	32.3	7.2	98.5	9.6	5.6	7.2	9.8	7.3		
											2	21.3	8.2	32.3	7.2	98.5				9.6	5.9
							Middle	3.9	1	21.3	8.2	32.3	7.2	98.5	9.7	7.8					
									2	21.3	8.2	32.3	7.2	98.5	9.7	7.4					
							Bottom	6.8	1	21.3	8.2	32.2	7.2	98.4	10.1	8.4					
									2	21.3	8.2	32.2	7.2	98.4	10.1	8.6					
		TCE-C2	Fine	Rough	8:47	15.1	Surface	1.0	1	22.1	8.1	32.7	6.2	85.6	7.1	8.1	6.2	7.8	7.2		
											2	22.1	8.1	32.7	6.2	85.6				7.2	8.5
							Middle	7.6	1	22.2	8.1	32.7	6.2	85.6	8.1	7.3					
									2	22.2	8.1	32.7	6.2	85.6	8.1	7.2					
							Bottom	14.1	1	22.1	8.1	32.7	6.2	85.7	8.2	6.0					
									2	22.1	8.1	32.7	6.2	85.7	8.3	5.8					
		TCE-WQM1	Fine	Moderate	9:54	9.1	Surface	1.0	1	21.3	8.2	32.2	7.2	98.6	10.0	7.4	7.2	10.1	8.5		
											2	21.3	8.2	32.2	7.2	98.5				9.9	7.8
							Middle	4.6	1	21.3	8.2	32.2	7.2	98.2	10.0	8.5					
									2	21.3	8.2	32.2	7.2	98.2	10.0	8.2					
							Bottom	8.1	1	21.2	8.2	32.2	7.2	97.7	10.3	9.6					
									2	21.2	8.2	32.2	7.2	97.7	10.3	9.3					
		TCE-WQM2a	Fine	Rough	9:24	7.8	Surface	1.0	1	21.5	8.2	32.2	7.3	100.0	6.9	6.1	7.3	7.8	7.1		
											2	21.5	8.2	32.2	7.3	100.0				6.9	6.4
							Middle	3.9	1	21.5	8.2	32.2	7.3	99.2	7.4	6.6					
									2	21.5	8.2	32.2	7.3	99.2	7.5	6.8					
							Bottom	6.8	1	21.5	8.2	32.2	7.2	98.3	9.1	8.3					
									2	21.5	8.2	32.2	7.2	98.2	9.1	8.2					
	TCE-WQM2b	Fine	Rough	9:13	10.7	Surface	1.0	1	21.9	8.1	32.5	6.4	88.2	4.3	8.2	6.4	6.8	7.1			
										2	21.9	8.1	32.5	6.4	88.2				4.3	8.3	
						Middle	5.4	1	21.9	8.1	32.5	6.4	88.0	6.9	6.9						
								2	21.9	8.1	32.5	6.4	88.0	7.0	6.9						
						Bottom	9.7	1	21.9	8.1	32.4	6.4	88.6	9.2	6.1						
								2	21.9	8.1	32.4	6.4	88.7	9.3	6.2						
	TCE-WQM3A	Fine	Moderate	9:33	4.5	Surface	1.0	1	21.1	8.2	32.1	7.6	102.6	4.4	6.0	7.6	4.9	6.8			
										2	21.1	8.2	32.1	7.6	102.6				4.4	6.2	
						Bottom	3.5	1	21.0	8.2	32.0	7.5	102.0	5.3	7.7						
								2	21.0	8.2	32.0	7.5	102.0	5.3	7.4						
						Surface	1.0	1	21.2	8.3	32.0	7.9	106.7	5.4	6.1				7.9	6.1	6.3
										2	21.2	8.3	32.0	7.9	106.6						
	Bottom	3.0	1	21.1	8.2	32.0	7.8	105.6	6.7	6.8											
			2	21.1	8.2	32.0	7.8	105.6	6.7	6.3											
	Surface	1.0	1	21.3	8.2	32.7	7.0	95.5	4.9	4.6	7.0	5.5	6.0								
					2	21.3	8.2	32.7	7.0	95.5				4.9	4.8						
	Middle	3.8	1	21.3	8.2	32.7	7.0	95.3	5.4	6.1											
			2	21.3	8.2	32.7	7.0	95.3	5.4	5.8											
	Bottom	6.5	1	21.3	8.2	32.7	7.0	95.1	6.2	7.2											
			2	21.3	8.2	32.7	7.0	95.0	6.3	7.4											
	TCE-C2	Fine	Rough	16:59	14.6	Surface	1.0	1	22.3	8.1	32.6	6.2	86.5	7.4	7.1	6.2	8.0	6.3			
										2	22.3	8.1	32.6	6.2	86.5				7.5	7.1	
						Middle	7.3	1	22.2	8.1	32.6	6.3	86.8	7.9	6.6						
								2	22.2	8.1	32.6	6.3	86.9	7.9	6.7						
Bottom						13.6	1	22.1	8.1	32.5	6.3	87.0	8.5	5.2							
							2	22.1	8.1	32.5	6.3	87.0	8.6	5.2							
TCE-WQM1	Fine	Rough	15:30	9.6	Surface	1.0	1	21.3	8.2	32.2	7.4	100.6	7.9	8.7	7.4	9.6	6.9				
									2	21.3	8.2	32.2	7.4	100.6				7.9	8.5		
					Middle	4.8	1	21.3	8.2	32.2	7.3	100.0	11.1	6.4							
							2	21.3	8.2	32.2	7.3	100.0	11.1	6.1							
					Bottom	8.6	1	21.3	8.2	32.2	7.3	99.2	9.9	5.8							
							2	21.3	8.2	32.2	7.3	99.2	10.0	5.7							
TCE-WQM2a	Fine	Rough	16:14	7.1	Surface	1.0	1	21.3	8.3	32.1	7.9	108.1	5.2	5.6	7.8	6.4	6.3				
									2	21.3	8.3	32.1	7.9	108.1				5.2	5.2		
					Middle	3.6	1	21.3	8.2	32.1	7.7	104.5	6.1	6.5							
							2	21.3	8.2	32.1	7.7	104.3	6.2	6.3							
					Bottom	6.1	1	21.3	8.2	32.1	7.6	103.0	7.8	7.0							
							2	21.3	8.2	32.1	7.6	103.0	7.9	7.0							
TCE-WQM2b	Fine	Rough	16:26	10.1	Surface	1.0	1	21.3	8.3	32.1	8.1	110.2	5.5	7.0	8.1	6.5	6.3				
									2	21.3	8.3	32.1	8.1	110.2				5.5	6.9		
					Middle	5.1	1	21.3	8.3	32.1	8.0	108.9	6.8	6.6							
							2	21.3	8.3	32.1	8.0	108.8	6.8	6.5							
					Bottom	9.1	1	21.3	8.3	32.1	7.7	105.2	7.3	5.2							
							2	21.3	8.3	32.1	7.7	105.2	7.3	5.7							
TCE-WQM3A	Fine	Moderate	15:57	4.1	Surface	1.0	1	21.2	8.3	32.0	8.7	117.7	8.9	7.2	8.7	10.0	6.8				
									2	21.2	8.3	32.0	8.7	117.7				9.0	7.4		
					Bottom	3.1	1	21.1	8.3	32.0	8.5	115.3	11.2	6.1							
							2	21.1	8.3	32.0	8.5	115.3	11.2	6.4							
					Surface	1.0	1	21.3	8.2	32.2	7.4	100.5	4.9	7.2				7.4	5.9	6.1	
									2	21.3	8.2	32.2	7.4	100.4							4.9
Bottom	2.9	1	21.3	8.2	32.2	7.4	100.1	6.9	5.0												
		2	21.3	8.2	32.2	7.4	100.1	6.9	4.9												

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)		
2021-12-03	Mid-Ebb	TCE-C1	Sunny	Rough	12:13	7.9	Surface	1.0	1	20.5	8.2	33.0	7.0	94.4	8.1	7.3	7.0	9.4	10.2		
									2	20.5	8.2	33.0	7.0	94.4	8.1	7.6					
							Middle	4.0	1	20.5	8.2	33.0	7.0	94.2	9.3	10.7					
							Bottom	6.9	1	20.5	8.2	33.0	7.0	94.1	9.3	11.1					
				2	20.5	8.1	32.9	7.0	94.1	10.8	12.4										
				2	20.5	8.1	32.9	7.0	94.2	10.7	12.3										
		TCE-C2	Sunny	Rough	10:25	15.8	Surface	1.0	1	21.7	8.1	32.9	6.3	86.2	3.4	4.6	6.3	3.9	5.8		
									2	21.7	8.1	32.9	6.3	86.2	3.4	4.9					
							Middle	7.9	1	21.7	8.1	32.9	6.3	86.1	4.0	5.4					
									2	21.7	8.1	32.9	6.3	86.2	4.0	5.3					
							Bottom	14.8	1	21.6	8.1	32.8	6.3	86.4	4.2	7.1					
									2	21.6	8.1	32.8	6.3	86.4	4.2	7.4					
	TCE-WQM1	Sunny	Moderate	11:34	10.8	Surface	1.0	1	20.1	8.2	32.6	7.5	99.5	5.1	6.3	7.4	5.8	7.9			
								2	20.1	8.2	32.6	7.4	99.4	5.1	6.2						
						Middle	5.4	1	20.1	8.2	32.6	7.4	98.6	6.1	8.3						
								2	20.1	8.2	32.6	7.4	98.6	6.2	7.9						
						Bottom	9.8	1	20.1	8.2	32.6	7.4	98.7	6.1	9.1						
								2	20.1	8.2	32.6	7.4	98.8	6.1	9.5						
	TCE-WQM2a	Sunny	Rough	11:02	8.8	Surface	1.0	1	21.1	8.2	32.7	7.2	98.2	3.7	5.3	7.2	4.1	6.3			
								2	21.1	8.2	32.7	7.2	98.2	3.7	5.6						
						Middle	4.4	1	21.0	8.2	32.6	7.2	98.1	3.7	6.5						
								2	21.0	8.2	32.6	7.2	97.8	3.7	6.4						
						Bottom	7.8	1	20.8	8.2	32.6	7.2	97.5	5.1	7.0						
								2	20.8	8.1	32.6	7.2	97.5	5.1	6.9						
	TCE-WQM2b	Sunny	Rough	10:52	10.5	Surface	1.0	1	21.3	8.1	32.7	6.8	92.5	4.0	5.7	6.8	4.0	6.5			
								2	21.3	8.1	32.7	6.8	92.5	4.0	5.9						
						Middle	5.3	1	21.3	8.1	32.7	6.7	91.9	4.0	6.4						
								2	21.3	8.1	32.7	6.7	91.9	4.0	6.7						
						Bottom	9.5	1	21.3	8.1	32.7	6.8	92.5	3.9	7.1						
								2	21.3	8.1	32.7	6.8	92.6	4.0	7.4						
	TCE-WQM3A	Sunny	Moderate	11:13	4.7	Surface	1.0	1	20.7	8.2	32.5	7.7	103.7	4.1	7.6	7.7	4.6	8.7			
								2	20.7	8.2	32.5	7.7	103.8	4.1	8.0						
						Bottom	3.7	1	20.6	8.2	32.5	7.7	103.7	5.2	9.8						
			2	20.6	8.2	32.5	7.7	103.6	5.2	9.3											
	TCE-WQM4	Sunny	Moderate	11:23	4.5	Surface	1.0	1	20.7	8.2	32.5	7.8	105.7	4.6	6.8	7.8	5.6	7.3			
								2	20.6	8.2	32.5	7.8	105.6	4.7	7.0						
						Bottom	3.5	1	20.6	8.2	32.4	7.8	104.4	6.6	7.5						
			2	20.6	8.2	32.4	7.8	104.4	6.6	7.9											
	2021-12-03	Mid-Flood	TCE-C1	Sunny	Rough	15:58	7.2	Surface	1.0	1	20.2	8.3	32.7	7.7	102.7	4.1	6.0	7.7	4.1	7.1	
										2	20.2	8.3	32.7	7.7	102.7	4.1	5.9				
								Middle	3.6	1	20.2	8.3	32.7	7.7	102.4	4.3	6.6				
										2	20.2	8.3	32.7	7.7	102.4	4.3	6.8				
						1	20.2	8.3	32.7	7.6	102.0	4.1	8.9								
						2	20.2	8.3	32.7	7.6	102.0	4.1	8.4								
				TCE-C2	Fine	Rough	17:36	14.6	Surface	1.0	1	21.0	8.2	32.7	7.4	100.1	3.6	8.3	7.3	4.9	7.6
											2	21.0	8.2	32.7	7.4	100.1	3.6	8.5			
									Middle	7.3	1	21.0	8.2	32.7	7.3	99.4	4.5	7.9			
											2	21.0	8.2	32.7	7.3	99.3	4.5	7.6			
Bottom									13.6	1	21.0	8.2	32.7	7.3	98.9	6.5	6.6				
										2	21.0	8.2	32.7	7.3	99.0	6.5	6.6				
TCE-WQM1			Sunny	Rough	16:28	9.5	Surface	1.0	1	20.2	8.2	32.7	7.6	101.4	4.1	8.2	7.6	3.9	6.9		
									2	20.2	8.2	32.7	7.6	101.3	4.1	8.6					
							Middle	4.8	1	20.2	8.2	32.7	7.5	100.8	4.2	7.2					
									2	20.2	8.2	32.7	7.5	100.8	4.2	7.1					
							Bottom	8.5	1	20.1	8.2	32.7	7.3	97.6	3.5	5.3					
									2	20.1	8.2	32.7	7.3	97.6	3.6	5.1					
TCE-WQM2a			Fine	Rough	17:01	7.4	Surface	1.0	1	20.7	8.3	32.5	8.3	112.6	4.6	7.4	8.2	5.7	6.4		
									2	20.7	8.3	32.5	8.3	112.6	4.6	7.3					
							Middle	3.7	1	20.7	8.2	32.5	8.1	108.9	5.8	6.6					
									2	20.7	8.2	32.5	8.1	108.7	5.8	6.3					
							Bottom	6.4	1	20.6	8.2	32.4	8.0	107.7	6.7	5.6					
									2	20.6	8.2	32.4	8.0	107.6	6.8	5.2					
TCE-WQM2b			Fine	Rough	17:12	9.6	Surface	1.0	1	21.0	8.2	32.6	7.3	99.6	3.3	7.0	7.3	5.2	6.4		
									2	21.0	8.2	32.6	7.3	99.4	3.3	6.8					
							Middle	4.8	1	21.0	8.2	32.6	7.3	98.9	5.1	6.4					
									2	21.0	8.2	32.6	7.3	98.9	5.1	6.2					
							Bottom	8.6	1	21.0	8.2	32.6	7.2	98.2	7.3	5.9					
									2	21.0	8.2	32.6	7.2	98.2	7.3	5.9					
TCE-WQM3A			Sunny	Moderate	16:51	4.2	Surface	1.0	1	20.8	8.3	32.4	8.3	112.0	3.9	6.7	8.3	3.7	5.7		
									2	20.8	8.3	32.4	8.3	111.9	3.9	6.2					
							Bottom	3.2	1	20.8	8.2	32.4	8.1	109.1	3.6	5.0					
				2	20.8	8.2	32.4	8.1	109.1	3.6	4.8										
TCE-WQM4			Sunny	Moderate	16:41	3.9	Surface	1.0	1	20.8	8.3	32.5	8.5	114.5	4.6	7.4	8.5	5.1	8.7		
									2	20.8	8.3	32.5	8.5	114.4	4.6	7.8					
							Bottom	2.9	1	20.7	8.2	32.5	8.3	112.5	5.5	9.9					
				2	20.7	8.2	32.5	8.3	112.4	5.6	9.7										

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)							
2021-12-06	Mid-Ebb	TCE-C1	Sunny	Rough	12:52	8.2	Surface	1.0	1	20.9	8.2	34.0	7.4	101.1	7.3	16.7	7.4	8.6	16.2							
									2	20.9	8.2	34.0	7.4	101.0	7.2	15.7										
							Middle	4.1	1	20.8	8.2	34.0	7.4	100.6	8.9	15.1										
									2	20.8	8.2	34.0	7.4	100.6	9.0	14.9										
							Bottom	7.2	1	20.8	8.2	34.0	7.4	101.2	9.7	16.8										
									2	20.8	8.2	34.0	7.4	101.3	9.7	17.7										
		TCE-C2	Sunny	Rough	14:32	15.9	Surface	1.0	1	21.7	8.1	33.8	7.1	98.1	4.2	5.2	7.0	4.6	5.1							
									2	21.7	8.1	33.8	7.1	98.1	4.3	4.3										
							Middle	8.0	1	21.5	8.1	33.8	6.9	95.5	5.1	5.8										
									2	21.5	8.1	33.8	6.9	95.6	5.1	4.5										
							Bottom	14.9	1	21.5	8.1	33.8	7.0	96.7	4.5	5.2										
									2	21.5	8.1	33.8	7.0	96.8	4.5	5.6										
		TCE-WQM1	Sunny	Moderate	13:25	10.2	Surface	1.0	1	20.6	8.2	33.8	7.7	104.9	7.6	12.1	7.7	8.6	13.0							
									2	20.6	8.2	33.8	7.7	104.9	7.6	12.1										
							Middle	5.1	1	20.6	8.2	33.8	7.7	104.7	8.8	13.5										
									2	20.6	8.2	33.8	7.7	104.6	8.8	13.4										
							Bottom	9.2	1	20.6	8.2	33.7	7.7	104.5	9.5	13.1										
									2	20.6	8.2	33.7	7.7	104.5	9.5	13.5										
		TCE-WQM2a	Sunny	Moderate	13:59	8.5	Surface	1.0	1	21.4	8.2	33.8	7.9	108.6	6.5	6.5	7.9	8.2	6.5							
									2	21.4	8.2	33.8	7.9	108.6	6.5	5.8										
							Middle	4.3	1	21.2	8.2	33.8	7.9	108.7	8.4	5.7										
									2	21.2	8.2	33.8	7.9	108.7	8.4	5.7										
							Bottom	7.5	1	20.8	8.2	33.8	7.8	105.5	9.6	8.0										
									2	20.8	8.2	33.8	7.7	105.4	9.7	7.0										
	TCE-WQM2b	Sunny	Rough	14:10	10.6	Surface	1.0	1	21.3	8.2	33.8	7.7	105.7	4.8	6.0	7.6	5.4	6.2								
								2	21.3	8.2	33.8	7.7	105.7	4.8	6.2											
						Middle	5.3	1	21.0	8.2	33.8	7.6	103.8	5.6	6.5											
								2	21.0	8.2	33.8	7.6	103.8	5.6	6.0											
						Bottom	9.6	1	21.0	8.2	33.8	7.6	103.8	5.7	6.3											
								2	21.0	8.2	33.8	7.6	103.8	5.7	6.2											
	TCE-WQM3A	Sunny	Moderate	13:48	4.9	Surface	1.0	1	21.1	8.2	33.7	8.3	113.1	5.6	6.7	8.3	5.8	7.4								
								2	21.1	8.2	33.8	8.3	113.0	5.6	6.6											
						Bottom	3.9	1	20.9	8.2	33.7	8.1	111.2	6.0	7.8											
								2	20.9	8.2	33.7	8.1	111.1	6.1	8.6											
						TCE-WQM4	Sunny	Moderate	13:39	4.5	Surface	1.0	1	21.1	8.2				33.8	8.6	118.0	5.4	7.2	8.6	5.6	7.3
												2	21.1	8.2	33.8				8.6	118.0	5.4	6.7				
	Bottom	3.5	1	21.0	8.2	33.8					8.4	115.1	5.7	7.0												
			2	21.0	8.2	33.8					8.4	115.0	5.7	8.3												
	TCE-C1	Sunny	Rough	10:20	7.9	Surface					1.0	1	20.8	8.1	34.0	7.4	100.6	8.6	18.5	7.3	8.3	17.4				
											2	20.8	8.1	34.0	7.4	100.5	8.6	18.6								
	Middle					4.0	1	20.7	8.1	34.0	7.3	99.7	6.8	17.6												
							2	20.7	8.1	34.0	7.3	99.6	6.8	16.3												
	Bottom					6.9	1	20.7	8.1	34.0	7.3	99.6	9.4	16.2												
							2	20.7	8.1	34.0	7.3	99.6	9.4	17.3												
	TCE-C2	Sunny	Rough	8:22	14.3	Surface	1.0	1	21.2	8.1	33.8	7.2	98.8	7.9	14.0	7.2	8.5	12.8								
								2	21.2	8.1	33.8	7.2	99.0	7.9	14.5											
						Middle	7.2	1	21.1	8.1	33.8	7.3	99.4	8.2	12.7											
								2	21.1	8.1	33.8	7.3	99.4	8.2	11.9											
Bottom						13.3	1	21.1	8.1	33.8	7.2	98.9	9.4	11.9												
							2	21.1	8.1	33.8	7.2	98.9	9.4	11.7												
TCE-WQM1	Sunny	Moderate	9:26	9.8	Surface	1.0	1	20.5	8.2	33.7	7.7	104.3	7.0	9.0	7.7	6.9	8.9									
							2	20.5	8.2	33.7	7.7	104.3	7.0	8.9												
					Middle	4.9	1	20.5	8.2	33.7	7.7	104.4	6.8	8.8												
							2	20.5	8.2	33.7	7.7	104.4	6.8	8.3												
					Bottom	8.8	1	20.5	8.2	33.7	7.7	103.8	6.9	8.6												
							2	20.5	8.2	33.7	7.7	103.7	7.0	9.6												
TCE-WQM2a	Sunny	Rough	8:55	7.3	Surface	1.0	1	20.7	8.2	33.8	7.5	102.4	4.8	9.5	7.5	6.5	8.8									
							2	20.7	8.2	33.8	7.5	102.4	4.8	8.1												
					Middle	3.7	1	20.7	8.2	33.7	7.5	101.8	6.5	9.1												
							2	20.7	8.2	33.7	7.5	101.7	6.6	9.0												
					Bottom	6.3	1	20.7	8.1	33.8	7.5	101.4	8.3	8.6												
							2	20.7	8.1	33.8	7.5	101.4	8.3	8.6												
TCE-WQM2b	Sunny	Rough	8:43	9.6	Surface	1.0	1	20.8	8.2	33.7	7.6	103.0	4.2	15.7	7.6	5.2	14.7									
							2	20.8	8.2	33.7	7.6	103.0	4.2	14.6												
					Middle	4.8	1	20.8	8.2	33.7	7.6	102.7	5.2	15.9												
							2	20.8	8.2	33.7	7.6	102.7	5.2	15.0												
					Bottom	8.6	1	20.8	8.1	33.7	7.5	102.1	6.3	14.4												
							2	20.8	8.1	33.7	7.5	102.1	6.4	12.6												
TCE-WQM3A	Sunny	Moderate	9:05	4.7	Surface	1.0	1	20.8	8.2	33.7	7.7	105.2	6.3	6.6	7.7	6.4	7.1									
							2	20.7	8.2	33.7	7.7	105.2	6.3	6.5												
					Bottom	3.7	1	20.6	8.2	33.7	7.8	105.4	6.5	7.9												
							2	20.6	8.2	33.7	7.8	105.5	6.5	7.4												
					TCE-WQM4	Sunny	Moderate	9:15	4.1	Surface	1.0	1	20.6	8.2				33.7	7.7	105.1	6.5	8.6	7.7	6.8	8.1	
											2	20.6	8.2	33.7				7.7	105.0	6.5	7.8					
Bottom	3.1	1	20.6	8.2	33.8					7.6	102.8	7.2	7.6													
		2	20.6	8.2	33.8					7.6	102.8	7.1	8.2													

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)						
2021-12-08	Mid-Ebb	TCE-C1	Fine	Moderate	14:45	8.4	Surface	1.0	1	19.9	8.3	32.3	7.4	98.5	9.7	4.4	7.3	9.7	5.2						
									2	19.9	8.3	32.3	7.4	98.5	9.7	5.1									
							Middle	4.2	1	19.9	8.3	32.6	7.2	96.0	9.9	5.2									
							Bottom	7.4	1	19.9	8.3	32.6	7.2	96.0	10.0	5.7									
						2	19.9	8.3	32.6	7.3	96.6	9.5	5.8	7.3											
				2	19.9	8.3	32.6	7.3	96.7	9.5	5.2														
		Surface	1.0	1	20.6	8.2	32.9	6.8	91.4	3.0	6.2														
				2	20.6	8.2	32.9	6.7	91.1	3.0	6.0														
				Middle	6.7	1	20.7	8.2	32.9	6.7	91.0	3.9	5.2	6.7	3.7	5.6									
				2	20.7	8.2	32.9	6.7	91.1	4.0	5.4														
		Bottom	12.4	1	20.7	8.2	32.9	6.9	92.8	4.2	5.6														
				2	20.7	8.2	32.9	7.1	95.8	4.3	5.2														
				TCE-WQM1	Fine	Moderate	15:23	8.1	Surface	1.0	1	20.2	8.3	32.8	7.6	101.5	3.5	6.4	7.5	3.8	5.7				
										2	20.2	8.3	32.8	7.6	101.4	3.6	7.0								
				Middle					4.1	1	20.1	8.2	32.8	7.4	98.5	3.9	5.5								
				Bottom					7.1	1	20.1	8.2	32.8	7.4	98.5	3.9	6.0								
						2	20.1	8.2	32.8	7.4	98.3	3.9	4.4	7.4											
				Surface	1.0	1	20.2	8.3	32.7	7.4	99.2	4.0	6.0												
						2	20.2	8.3	32.7	7.4	99.2	4.0	6.8												
				Middle	3.4	1	20.1	8.3	32.7	7.4	98.9	4.2	5.5												
						2	20.1	8.2	32.7	7.4	98.8	4.3	5.6	7.4	4.2	5.6									
				Bottom	5.8	1	20.1	8.2	32.7	7.4	99.0	4.3	4.6												
						2	20.1	8.2	32.7	7.4	99.1	4.2	5.0												
				Surface	1.0	1	20.2	8.2	32.6	7.3	97.7	5.7	6.0				7.3	7.2	5.8						
					2	20.2	8.2	32.6	7.3	97.7	5.8	6.6													
			Middle	5.9	1	20.2	8.3	32.6	7.3	97.7	7.1	5.5													
			Bottom	10.7	1	20.2	8.3	32.6	7.3	97.8	7.3	5.9													
					2	20.2	8.3	32.6	7.4	98.8	8.4	5.2	7.4												
			Surface	1.0	1	20.3	8.3	32.6	7.4	98.9	8.7	5.4													
					2	20.3	8.3	32.6	7.4	98.9	8.7	5.4													
			Middle	3.5	1	20.5	8.3	32.8	7.6	102.6	3.3	8.0				7.6	3.3	7.2							
					2	20.5	8.3	32.8	7.6	102.5	3.3	8.5													
			Bottom	7.1	1	20.5	8.3	32.8	7.6	102.0	3.2	5.8													
					2	20.5	8.3	32.8	7.6	102.0	3.2	6.5													
			TCE-WQM4	Fine	Moderate	15:34	3.2	Surface	1.0	1	20.3	8.3	32.7	7.5	100.5	3.8	7.5	7.5	3.9	8.0					
									2	20.3	8.3	32.7	7.5	100.5	3.9	8.2									
			Bottom					2.2	1	20.3	8.2	32.7	7.5	100.4	3.9	8.5									
									2	20.3	8.2	32.7	7.5	100.4	4.0	7.6									
	2021-12-08	Mid-Flood	TCE-C1	Fine	Moderate	11:44	8.5	Surface	1.0	1	20.0	8.3	32.2	7.5	99.4	7.1	5.0	7.4	9.1	6.4					
										2	20.0	8.3	32.2	7.5	99.2	7.2	5.9								
								Middle	4.3	1	19.9	8.3	32.3	7.3	97.0	8.6	7.0								
										2	19.9	8.3	32.4	7.3	96.8	8.7	6.7								
								Bottom	7.5	1	19.9	8.2	32.6	7.2	95.9	11.5	6.6				7.2				
										2	19.9	8.2	32.6	7.2	96.1	11.4	7.2								
								Surface	1.0	1	20.1	8.2	32.7	7.2	96.5	3.2	4.7								
										2	20.1	8.2	32.7	7.2	96.5	3.3	4.4								
										Middle	6.9	1	20.1	8.2	32.7	7.2	96.0				5.3	4.4	7.2	4.7	4.3
										Bottom	12.8	1	20.1	8.2	32.7	7.2	96.5				5.5	4.2			
											2	20.1	8.2	32.7	7.2	96.6	5.4				3.8				
									Surface	1.0	1	20.2	8.2	32.8	7.6	101.1	4.1				7.3	7.5			
						2	20.1	8.2	32.8	7.6	101.0	4.1	8.2												
				Middle	4.1	1	20.0	8.2	32.8	7.5	100.2	4.4	7.5												
				Bottom	7.1	1	20.0	8.2	32.8	7.5	100.1	4.6	6.8												
						2	20.0	8.2	32.8	7.5	99.7	4.6	6.0	7.5											
				Surface	1.0	1	19.9	8.2	32.7	7.4	98.2	5.3	4.7												
						2	19.9	8.2	32.7	7.4	98.2	5.3	4.5												
				Middle	3.4	1	19.9	8.2	32.7	7.3	97.5	5.8	4.6				7.3	5.6	4.8						
				Bottom	5.8	1	19.9	8.2	32.7	7.3	97.5	5.7	4.6												
						2	19.9	8.2	32.7	7.3	97.1	5.6	5.2												
				Surface	1.0	1	19.9	8.3	32.6	7.5	100.3	3.5	3.2	7.5	5.8	3.9									
						2	19.9	8.3	32.6	7.5	100.3	3.6	3.8												
				Middle	5.8	1	19.9	8.3	32.6	7.4	98.8	4.7	3.6												
				Bottom	10.6	1	19.9	8.3	32.6	7.4	98.5	5.2	3.8												
						2	19.9	8.3	32.7	7.4	97.9	9.0	4.3	7.4											
				Surface	1.0	1	20.4	8.2	32.9	7.4	98.9	8.1	7.7												
						2	20.4	8.2	32.9	7.4	98.8	8.3	8.2												
				Bottom	3.1	1	20.2	8.2	32.9	7.3	98.2	12.0	7.7				7.3	10.3	7.9						
						2	20.2	8.2	32.8	7.3	98.3	12.6	8.0												
				Surface	1.0	1	20.2	8.2	32.8	7.4	98.5	5.8	7.6	7.4	5.8	8.2									
						2	20.2	8.2	32.8	7.4	98.5	5.8	8.4												
				Bottom	2.2	1	20.1	8.2	32.9	7.4	98.9	5.8	8.9												
						2	20.1	8.2	32.8	7.4	99.0	5.7	7.8												

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)
2021-12-10	Mid-Ebb	TCE-C1	Fine	Calm	18:27	8.0	Surface	1.0	1	20.2	8.3	31.8	7.7	102.7	2.7	4.0	7.7	3.7	3.9
									2	20.2	8.3	31.8	7.7	102.6	2.8	4.2			
							Middle	4.0	1	20.2	8.3	31.8	7.7	102.3	3.8	4.0			
							Bottom	7.0	1	20.2	8.3	31.8	7.7	102.2	3.7	3.8			
				2	20.2	8.3	31.7	7.7	101.9	4.5	3.8								
				2	20.2	8.3	31.7	7.7	101.7	4.5	3.7								
		TCE-C2	Fine	Calm	20:08	12.4	Surface	1.0	1	20.3	8.3	32.2	7.7	102.9	1.4	2.9	7.7	2.5	3.2
				2	20.3	8.3	32.2	7.7	102.8	1.3	2.7								
		Middle	6.2	1	20.3	8.3	32.3	7.6	102.0	2.5	3.1								
		Bottom	11.4	1	20.3	8.3	32.3	7.6	102.0	2.5	3.2								
				2	20.3	8.3	32.3	7.7	102.3	3.8	3.4								
				2	20.3	8.3	32.3	7.7	102.5	3.8	3.7								
	TCE-WQM1	Fine	Calm	19:00	8.6	Surface	1.0	1	20.4	8.3	32.5	7.4	99.8	2.5	6.5	7.4	3.5	6.8	
			2	20.4	8.3	32.5	7.4	99.8	2.6	6.5									
	Middle	4.3	1	20.4	8.3	32.5	7.4	99.6	3.0	6.7									
	Bottom	7.6	1	20.4	8.3	32.5	7.4	99.6	3.1	6.6									
			2	20.4	8.3	32.5	7.4	99.6	4.8	7.0									
			2	20.4	8.3	32.5	7.4	99.6	4.8	7.4									
	TCE-WQM2a	Fine	Calm	19:32	8.2	Surface	1.0	1	20.3	8.3	32.1	7.8	104.5	1.6	5.0	7.8	2.7	4.0	
			2	20.3	8.3	32.1	7.8	104.5	1.6	4.6									
	Middle	4.1	1	20.3	8.3	32.1	7.8	103.7	2.6	4.1									
	Bottom	7.2	1	20.3	8.3	32.1	7.8	103.5	2.5	4.3									
			2	20.3	8.3	32.1	7.7	102.7	3.9	3.0									
			2	20.3	8.3	32.1	7.7	102.6	3.8	2.7									
TCE-WQM2b	Fine	Calm	19:42	10.8	Surface	1.0	1	20.3	8.3	32.1	7.7	103.4	1.0	2.6	7.7	1.7	3.3		
		2	20.3	8.3	32.1	7.7	103.2	1.1	2.5										
Middle	5.4	1	20.3	8.3	32.3	7.6	101.8	1.5	2.9										
Bottom	9.8	1	20.3	8.3	32.3	7.6	101.8	1.4	3.1										
		2	19.8	8.3	32.6	7.7	102.1	2.4	4.3										
		2	19.7	8.3	32.7	7.7	102.2	2.5	4.3										
TCE-WQM3A	Fine	Calm	19:25	4.0	Surface	1.0	1	20.5	8.3	32.4	8.0	107.7	2.1	4.8	8.0	3.0	5.7		
		2	20.5	8.3	32.4	8.0	107.6	2.2	5.0										
Bottom	3.0	1	20.5	8.3	32.4	8.0	107.2	3.9	6.6										
		2	20.5	8.3	32.4	8.0	107.1	3.9	6.5										
TCE-WQM4	Fine	Calm	19:12	4.4	Surface	1.0	1	20.5	8.3	32.4	7.9	105.7	6.5	4.6	7.9	7.0	5.0		
		2	20.5	8.3	32.4	7.9	105.5	6.4	4.6										
Bottom	3.4	1	20.5	8.3	32.4	7.8	104.9	7.9	5.5										
		2	20.5	8.3	32.4	7.8	104.7	7.4	5.2										
2021-12-10	Mid-Flood	TCE-C1	Fine	Calm	13:50	8.0	Surface	1.0	1	20.2	8.3	32.0	7.5	99.7	7.1	4.7	7.5	8.8	5.2
									2	20.2	8.3	32.1	7.5	99.5	7.2	4.6			
							Middle	4.0	1	20.2	8.3	32.2	7.4	99.3	9.2	4.9			
							Bottom	7.0	1	20.2	8.3	32.2	7.4	99.3	9.4	5.1			
				2	20.2	8.3	32.2	7.5	99.4	10.0	5.6								
				2	20.2	8.3	32.2	7.5	99.4	10.0	6.1								
		TCE-C2	Fine	Calm	11:55	12.8	Surface	1.0	1	20.2	8.3	32.2	7.6	101.5	1.8	3.5	7.5	2.7	3.9
				2	20.2	8.3	32.2	7.6	101.3	1.8	3.2								
		Middle	6.4	1	20.1	8.3	32.2	7.5	99.7	2.5	3.6								
		Bottom	11.8	1	20.1	8.3	32.2	7.5	99.6	2.6	4.0								
				2	20.1	8.3	32.2	7.5	99.5	3.6	4.6								
				2	20.1	8.3	32.2	7.5	99.5	3.7	4.7								
	TCE-WQM1	Fine	Calm	13:06	8.2	Surface	1.0	1	20.4	8.2	32.5	7.4	99.5	4.5	4.6	7.4	5.5	5.2	
			2	20.4	8.2	32.5	7.4	99.3	4.5	4.4									
	Middle	4.1	1	20.3	8.2	32.6	7.3	98.3	5.1	5.4									
	Bottom	7.2	1	20.3	8.2	32.6	7.3	98.2	5.2	5.4									
			2	20.3	8.2	32.6	7.3	98.3	6.8	5.6									
			2	20.3	8.2	32.6	7.3	98.4	6.9	6.0									
	TCE-WQM2a	Fine	Calm	12:33	7.0	Surface	1.0	1	20.2	8.3	32.2	7.6	101.7	3.3	3.4	7.6	4.4	3.6	
			2	20.2	8.3	32.2	7.6	101.7	3.3	3.4									
	Middle	3.5	1	20.2	8.3	32.3	7.6	101.1	4.4	3.6									
	Bottom	6.0	1	20.2	8.3	32.3	7.6	101.0	4.5	3.6									
			2	20.1	8.2	32.5	7.5	100.0	5.6	4.0									
			2	20.1	8.2	32.5	7.5	99.8	5.5	3.8									
TCE-WQM2b	Fine	Calm	12:21	10.4	Surface	1.0	1	20.2	8.3	31.9	7.8	103.4	2.8	4.1	7.7	3.7	5.0		
		2	20.2	8.3	31.9	7.7	103.1	2.9	4.0										
Middle	5.2	1	20.1	8.3	32.0	7.6	100.8	3.8	5.3										
Bottom	9.4	1	20.1	8.3	32.0	7.6	100.7	4.0	5.2										
		2	20.1	8.3	32.1	7.6	100.6	4.3	5.6										
		2	20.1	8.3	32.1	7.6	100.5	4.3	6.0										
TCE-WQM3A	Fine	Calm	12:44	4.0	Surface	1.0	1	20.5	8.3	32.5	7.7	103.1	4.5	4.8	7.7	5.3	5.5		
		2	20.5	8.3	32.5	7.7	103.0	4.8	4.5										
Bottom	3.0	1	20.4	8.3	32.5	7.7	102.9	5.8	6.2										
		2	20.4	8.3	32.6	7.7	102.9	6.1	6.5										
TCE-WQM4	Fine	Calm	12:54	3.6	Surface	1.0	1	20.3	8.3	32.5	7.7	103.5	3.6	7.6	7.7	3.6	7.0		
		2	20.3	8.3	32.5	7.7	103.5	3.5	7.6										
Bottom	2.6	1	20.5	8.2	32.3	7.4	99.0	3.7	6.7										
		2	20.5	8.2	32.3	7.4	98.8	3.7	6.2										

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)
2021-12-13	Mid-Ebb	TCE-C1	Sunny	Rough	9:58	7.5	Surface	1.0	1	21.1	8.2	33.2	8.3	113.4	4.5	4.7	8.3	5.5	5.4
									2	21.1	8.2	33.2	8.3	113.3	4.6	4.6			
							Middle	3.8	1	21.1	8.2	33.2	8.3	112.6	5.9	5.0			
							Bottom	6.5	1	21.0	8.2	33.4	7.9	107.8	6.1	6.6			
				2	21.0	8.2	33.4	7.9	107.9	6.2	6.4	7.9							
				2	21.0	8.1	33.1	7.8	106.0	5.5	3.9								
		Middle	6.7	1	21.2	8.0	33.4	7.3	99.4	3.4	3.9								
		Bottom	12.4	1	21.2	8.0	33.4	7.3	99.3	3.5	3.9								
				2	21.2	8.0	33.4	7.2	99.0	3.7	3.4	7.2							
				2	21.2	8.0	33.4	7.2	99.0	3.8	3.2								
		Middle	4.8	1	21.4	8.2	32.8	8.1	111.5	5.6	4.4								
		Bottom	8.5	1	21.4	8.2	32.9	8.1	111.3	5.6	4.7								
				2	21.4	8.2	32.9	8.1	111.3	6.7	4.8	8.1							
				2	21.4	8.2	32.9	8.1	111.3	6.7	4.8								
		Middle	3.6	1	21.1	8.2	32.8	8.5	115.5	6.9	3.6								
		Bottom	6.1	1	21.1	8.2	32.8	8.5	115.4	6.9	3.5								
				2	21.1	8.2	32.8	8.4	114.8	11.0	3.7	8.4							
				2	21.1	8.2	32.8	8.4	114.8	11.1	4.0								
		Middle	5.7	1	20.9	8.2	33.0	8.1	109.2	3.1	2.7								
		Bottom	10.3	1	20.9	8.2	33.0	8.0	109.1	3.1	2.8								
				2	20.9	8.2	33.0	7.9	107.5	3.9	4.0	7.9							
				2	20.9	8.2	33.0	7.9	107.5	4.0	3.8								
		Middle	3.9	1	21.0	8.2	32.7	8.4	114.1	9.9	8.3								
		Bottom	3.9	1	21.0	8.2	32.7	8.4	114.1	9.9	8.3								
			2	20.9	8.2	32.8	8.4	114.2	10.0	7.8	8.4								
			2	20.9	8.2	32.8	8.4	114.2	10.0	7.8									
	Middle	1.0	1	21.4	8.2	32.9	8.1	111.0	6.3	3.9									
	Bottom	3.2	1	21.3	8.2	32.9	8.1	110.6	6.5	4.6									
			2	21.3	8.2	32.9	8.1	110.7	6.4	4.5	8.1								
			2	21.3	8.2	32.9	8.1	110.7	6.4	4.5									
	Middle	3.9	1	21.1	8.2	33.5	7.8	106.1	5.0	3.6									
	Bottom	6.8	1	21.3	8.2	33.6	7.6	104.4	6.0	3.3									
			2	21.3	8.2	33.6	7.6	104.4	6.0	3.2	7.6								
			2	21.3	8.1	33.5	7.5	102.9	3.5	3.2									
	Middle	7.4	1	21.3	8.1	33.5	7.3	99.9	3.3	4.1									
	Bottom	13.8	1	21.3	8.1	33.6	7.2	98.5	4.5	4.6									
			2	21.3	8.1	33.6	7.2	98.5	4.6	4.3	7.2								
			2	21.3	8.1	33.6	7.2	98.5	4.6	4.3									
	Middle	4.7	1	21.4	8.3	32.9	8.8	121.1	6.4	6.3									
	Bottom	8.3	1	21.3	8.3	32.9	8.8	120.4	6.8	7.0									
			2	21.3	8.3	32.9	8.8	120.4	6.8	6.9	8.8								
			2	21.3	8.3	32.9	8.8	120.4	6.8	6.9									
	Middle	3.8	1	21.3	8.3	32.8	9.1	124.6	3.6	4.4									
	Bottom	6.6	1	21.1	8.2	32.8	8.6	116.8	7.9	4.4									
			2	21.1	8.2	32.8	8.6	116.8	7.9	4.0	8.6								
			2	21.1	8.2	32.8	8.6	116.8	7.9	4.0									
	Middle	5.7	1	21.1	8.2	33.2	8.2	111.5	3.7	2.6									
	Bottom	10.3	1	21.1	8.2	33.2	8.2	111.4	3.7	2.4									
		2	21.1	8.2	33.2	8.1	110.4	3.9	3.4	8.1									
		2	21.1	8.2	33.2	8.1	110.4	3.9	3.0										
Middle	1.0	1	21.3	8.3	32.6	9.5	129.6	4.7	5.5										
Bottom	3.2	1	21.1	8.3	32.6	9.1	123.1	4.9	6.3										
		2	21.1	8.3	32.6	9.0	122.9	4.9	6.1	9.0									
		2	21.1	8.3	32.6	9.0	122.9	4.9	6.1										
Middle	1.0	1	21.1	8.3	32.5	9.1	124.2	5.7	20.3										
Bottom	2.7	1	21.1	8.3	32.6	8.8	119.8	8.9	7.0										
		2	21.1	8.3	32.6	8.8	119.7	9.0	6.9	8.8									
		2	21.1	8.3	32.6	8.8	119.7	9.0	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)	
2021-12-15	Mid-Ebb	TCE-C1	Fine	Moderate	11:16	8.1	Surface	1.0	1	20.6	8.1	33.2	7.5	101.3	3.6	4.5	7.4	6.6	5.1	
									2	20.6	8.1	33.2	7.5	101.1	3.6	4.6				
							Middle	4.1	1	20.6	8.1	33.2	7.4	99.8	6.6	4.8				
							Bottom	7.1	1	20.6	8.1	33.2	7.4	99.8	6.8	4.7				
						2	20.6	8.1	33.3	7.5	101.6	9.4	5.7	7.5						
				2	20.6	8.1	33.3	7.5	101.7	9.6	6.2									
		Surface	1.0	1	20.6	8.0	32.7	7.0	94.8	1.1	4.8									
				2	20.6	8.0	32.7	7.0	94.3	1.1	5.1									
				Middle	6.6	1	20.7	8.0	32.9	6.6	89.2	1.0	5.0	6.8	1.1	4.5				
						2	20.7	8.0	32.9	6.6	89.1	0.9	4.0							
				Bottom	12.1	1	20.7	8.0	33.0	6.6	89.6	1.3	3.9							
						2	20.7	8.0	33.0	6.6	89.7	1.3	4.2							
			TCE-WQM1	Fine	Moderate	10:35	8.4	Surface	1.0	1	20.8	8.1	32.3	7.7	104.5	4.2	3.0	7.7	4.7	3.3
									2	20.8	8.1	32.3	7.7	104.4	4.4	2.8				
			Middle					4.2	1	20.8	8.1	32.3	7.7	104.4	4.9	3.2				
									2	20.8	8.1	32.3	7.7	104.5	5.0	3.1				
							Bottom	7.4	1	20.8	8.1	32.3	7.8	104.9	5.0	4.0	7.8			
					2	20.8	8.1	32.3	7.8	104.9	4.9	3.6								
			Surface	1.0	1	20.5	8.1	32.4	7.7	103.6	1.7	4.2								
					2	20.5	8.1	32.4	7.7	103.6	1.7	2.7								
					Middle	3.6	1	20.5	8.1	32.4	7.7	102.9	1.8	3.4	7.7	1.8	3.6			
					2	20.5	8.1	32.4	7.7	102.9	1.8	3.2								
					Bottom	6.2	1	20.5	8.1	32.4	7.7	103.2	1.8	3.0						
					2	20.5	8.1	32.4	7.7	103.3	1.8	5.2								
			TCE-WQM2b	Fine	Moderate	9:40	11.2	Surface	1.0	1	20.5	8.1	32.4	7.6	102.7	1.9	4.6	7.4	2.1	3.9
									2	20.5	8.1	32.4	7.6	102.5	1.8	4.4				
			Middle					5.6	1	20.6	8.1	32.6	7.1	96.2	2.1	3.9				
									2	20.6	8.1	32.6	7.1	96.0	2.2	4.2				
							Bottom	10.2	1	20.6	8.1	32.6	7.2	97.0	2.3	2.8	7.2			
					2	20.6	8.1	32.6	7.2	97.4	2.2	3.3								
			Surface	1.0	1	20.6	8.1	32.2	7.7	103.5	2.9	4.1								
					2	20.6	8.1	32.2	7.7	103.5	2.9	3.0								
					Middle	2.9	1	20.6	8.1	32.3	7.7	103.3	3.5	4.7	7.7	3.2	4.3			
					2	20.6	8.1	32.2	7.7	103.3	3.5	5.2								
			Surface	1.0	1	20.7	8.2	32.2	8.3	111.0	2.7	5.3								
					2	20.7	8.2	32.2	8.2	110.7	2.7	6.0								
						Bottom	2.2	1	21.0	8.1	31.9	8.0	108.8	2.6	5.8	8.0	2.7	5.5		
				2	21.1	8.1	31.9	8.0	108.6	2.7	4.8									
		Surface	1.0	1	20.6	8.1	33.2	7.5	101.4	4.2	5.4									
				2	20.6	8.1	33.2	7.5	101.4	4.3	5.2									
				Middle	4.2	1	20.6	8.1	33.2	7.6	102.1	5.1	4.6	7.5	5.7	5.2				
				2	20.6	8.1	33.2	7.6	102.2	5.6	5.2									
				Bottom	7.4	1	20.6	8.1	33.2	7.7	103.4	7.6	5.1							
				2	20.6	8.1	33.2	7.7	103.6	7.7	5.4									
		TCE-C2	Fine	Moderate	16:55	14.1	Surface	1.0	1	20.7	8.2	32.3	8.9	119.7	1.4	5.8	8.0	1.7	5.2	
								2	20.7	8.2	32.3	8.9	119.7	1.3	5.3					
		Middle					7.1	1	20.7	8.1	32.6	7.0	95.0	1.5	5.3					
								2	20.7	8.1	32.6	7.0	95.1	1.6	4.8					
						Bottom	13.1	1	20.7	8.0	32.7	7.2	96.6	2.1	4.9	7.2				
				2	20.7	8.0	32.7	7.2	96.9	2.1	4.8									
		Surface	1.0	1	20.9	8.1	32.2	7.8	106.0	3.5	5.6									
				2	20.9	8.1	32.2	7.8	105.7	3.7	5.2									
				Middle	4.1	1	20.9	8.1	32.3	7.8	105.4	5.1	5.7	7.8	5.0	5.8				
				2	20.9	8.1	32.3	7.8	105.6	5.2	6.0									
				Bottom	7.1	1	20.9	8.1	32.3	7.9	106.5	6.0	6.3							
				2	20.9	8.1	32.3	7.9	106.8	6.2	5.9									
		TCE-WQM2a	Fine	Moderate	16:20	7.1	Surface	1.0	1	20.7	8.2	32.2	8.6	115.5	2.2	5.9	8.3	2.4	5.3	
								2	20.7	8.2	32.2	8.6	115.5	2.2	5.0					
		Middle					3.6	1	20.5	8.1	32.3	8.0	106.9	2.3	5.2					
								2	20.5	8.1	32.3	8.0	106.9	2.4	5.9					
						Bottom	6.1	1	20.6	8.1	32.3	8.0	107.0	2.7	4.8	8.0				
				2	20.6	8.1	32.3	8.0	107.1	2.7	5.0									
		Surface	1.0	1	20.7	8.1	32.2	8.5	114.5	1.5	4.5									
				2	20.7	8.1	32.3	8.5	114.2	1.6	4.7									
				Middle	6.1	1	20.6	8.1	32.4	7.8	105.4	1.9	4.9	8.2	1.8	5.0				
				2	20.6	8.1	32.4	7.8	105.4	1.9	4.9									
				Bottom	11.1	1	20.6	8.1	32.4	8.0	107.8	2.0	5.5							
				2	20.6	8.1	32.4	8.0	108.0	2.0	5.6									
		TCE-WQM3A	Fine	Moderate	16:09	4.1	Surface	1.0	1	20.7	8.2	32.1	8.5	114.1	3.3	5.8	8.5	3.6	5.3	
								2	20.7	8.2	32.2	8.5	113.9	3.4	5.2					
								Bottom	3.1	1	20.7	8.2	32.3	8.1	108.7	4.0				5.4
								2	20.7	8.2	32.3	8.1	108.5	3.8	4.7					
		TCE-WQM4	Fine	Moderate	15:59	3.7	Surface	1.0	1	21.0	8.2	32.1	8.9	120.1	2.6	5.2	8.9	2.8	4.5	
								2	21.0	8.2	32.1	8.9	120.0	2.6	4.4					
								Bottom	2.7	1	20.9	8.2	32.2	8.7	118.0	3.0				4.5
								2	20.9	8.2	32.2	8.7	117.8	3.0	4.0					

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)
2021-12-17	Mid-Ebb	TCE-C1	Misty	Calm	10:16	8.0	Surface	1.0	1	21.4	8.2	33.2	8.2	111.9	7.1	6.9	8.1	8.1	8.1
									2	21.4	8.2	33.2	8.1	111.6	7.0	7.3			
							Middle	4.0	1	21.4	8.2	33.7	8.0	110.2	8.2	8.3			
							Bottom	7.0	1	21.4	8.2	33.7	8.0	110.3	8.2	8.6			
				2	21.4	8.2	33.6	8.2	112.2	9.0	8.9								
				2	21.4	8.2	33.5	8.2	112.4	9.1	8.6								
		TCE-C2	Misty	Calm	12:04	12.4	Surface	1.0	1	21.5	8.2	33.0	8.5	116.9	2.4	5.1	8.5	3.5	4.7
									2	21.5	8.2	33.0	8.5	116.9	2.5	5.2			
							Middle	6.2	1	21.5	8.2	33.0	8.5	116.8	3.5	4.6			
							Bottom	11.4	1	21.5	8.2	33.0	8.5	116.8	3.6	4.9			
				2	21.5	8.2	33.0	8.5	116.7	4.6	4.1								
				2	21.5	8.2	33.0	8.5	116.7	4.6	4.1								
	TCE-WQM1	Misty	Calm	10:52	8.6	Surface	1.0	1	21.7	8.2	33.3	8.0	109.9	4.1	6.7	7.9	5.2	6.2	
								2	21.7	8.2	33.3	8.0	109.9	4.1	6.5				
						Middle	4.3	1	21.7	8.2	33.3	7.9	109.7	5.1	6.0				
						Bottom	7.6	1	21.8	8.2	33.3	8.0	110.1	6.6	5.7				
			2	21.8	8.2	33.3	8.0	110.2	6.5	5.7									
	TCE-WQM2a	Misty	Calm	11:24	8.0	Surface	1.0	1	21.5	8.2	32.9	8.5	117.0	6.2	14.4	8.5	7.1	13.7	
								2	21.5	8.2	32.9	8.5	117.0	6.2	14.1				
						Middle	4.0	1	21.5	8.2	33.0	8.4	115.2	7.0	13.5				
						Bottom	7.0	1	21.6	8.2	32.9	8.4	114.8	8.1	13.4				
			2	21.6	8.2	32.9	8.4	114.8	8.2	13.2									
	TCE-WQM2b	Misty	Calm	11:35	10.8	Surface	1.0	1	21.5	8.2	33.0	8.5	116.2	3.7	5.2	8.2	4.9	7.8	
								2	21.5	8.2	33.0	8.5	116.1	3.6	5.0				
						Middle	5.4	1	21.5	8.2	33.2	8.0	109.3	4.8	7.2				
						Bottom	9.8	1	21.5	8.2	33.2	7.9	108.8	4.8	7.9				
			2	21.5	8.2	33.2	7.9	108.0	6.2	10.9									
			2	21.5	8.2	33.2	7.9	108.4	6.4	10.3									
	TCE-WQM3A	Misty	Calm	11:14	4.0	Surface	1.0	1	21.6	8.2	33.0	8.4	114.9	4.6	19.0	8.3	5.0	24.4	
								2	21.6	8.2	33.0	8.3	114.8	4.7	19.6				
						Bottom	3.0	1	21.6	8.3	33.0	8.3	114.7	5.4	29.2				
								2	21.6	8.3	33.0	8.3	114.7	5.5	29.9				
	TCE-WQM4	Misty	Calm	11:04	4.0	Surface	1.0	1	21.7	8.3	33.1	8.5	117.1	5.8	4.7	8.5	5.9	5.4	
								2	21.7	8.3	33.1	8.5	116.8	5.7	4.5				
						Bottom	3.0	1	21.8	8.3	32.9	8.4	116.1	6.1	6.0				
								2	21.9	8.3	32.9	8.4	116.1	6.1	6.5				
2021-12-17	Mid-Flood	TCE-C1	Misty	Calm	8:27	8.0	Surface	1.0	1	21.4	8.2	33.2	8.1	111.6	7.3	7.2	8.1	8.3	7.7
									2	21.4	8.2	33.2	8.1	111.2	7.3	7.1			
							Middle	4.0	1	21.4	8.2	33.8	8.0	110.3	8.4	7.6			
							Bottom	7.0	1	21.4	8.2	33.8	8.0	110.6	8.5	7.5			
				2	21.4	8.2	33.9	8.1	111.7	9.0	8.4								
				2	21.3	8.2	33.9	8.1	111.8	9.1	8.4								
		TCE-C2	Misty	Calm	6:40	12.8	Surface	1.0	1	21.4	8.0	33.5	7.3	100.8	4.0	4.6	7.2	4.8	3.9
									2	21.4	8.0	33.5	7.3	100.4	4.1	4.8			
							Middle	6.4	1	21.5	8.0	33.6	7.2	98.7	4.8	3.5			
							Bottom	11.8	1	21.5	8.0	33.6	7.2	98.7	4.8	3.6			
				2	21.5	8.0	33.6	7.2	99.1	5.6	3.4								
				2	21.5	8.0	33.6	7.2	99.2	5.6	3.2								
	TCE-WQM1	Misty	Calm	7:45	8.2	Surface	1.0	1	21.7	8.2	33.2	8.0	109.7	4.3	6.0	8.0	5.3	6.7	
								2	21.7	8.2	33.2	8.0	109.7	4.3	6.1				
						Middle	4.1	1	21.7	8.2	33.3	8.0	110.6	5.2	6.6				
						Bottom	7.2	1	21.7	8.2	33.3	8.0	110.8	5.3	6.9				
			2	21.2	8.2	33.6	8.1	111.3	6.4	7.1									
			2	21.1	8.2	33.7	8.1	111.3	6.5	7.3									
	TCE-WQM2a	Misty	Calm	7:14	7.0	Surface	1.0	1	21.5	8.2	32.9	8.3	114.3	5.1	5.5	8.3	6.3	6.7	
								2	21.5	8.2	32.9	8.3	114.3	5.1	5.8				
						Middle	3.5	1	21.5	8.2	32.9	8.3	113.7	6.6	6.7				
						Bottom	6.0	1	21.5	8.2	32.9	8.3	113.7	6.7	6.5				
			2	21.5	8.2	32.9	8.3	113.9	7.0	7.8									
			2	21.5	8.2	32.9	8.3	114.0	7.1	7.8									
	TCE-WQM2b	Misty	Calm	7:04	10.4	Surface	1.0	1	21.4	8.2	32.9	8.2	112.8	4.1	4.9	8.2	5.1	5.8	
								2	21.4	8.2	32.9	8.2	112.6	4.1	4.9				
						Middle	5.2	1	21.4	8.2	33.1	8.2	111.8	5.1	5.0				
						Bottom	9.4	1	21.4	8.2	33.1	8.2	111.7	5.2	5.5				
			2	21.4	8.2	33.1	8.2	111.9	6.1	7.1									
			2	21.4	8.2	33.1	8.2	112.0	6.1	7.2									
	TCE-WQM3A	Misty	Calm	7:24	4.0	Surface	1.0	1	21.5	8.2	33.1	8.4	114.9	4.4	5.8	8.4	5.1	5.3	
								2	21.5	8.2	33.1	8.4	114.8	4.4	5.4				
						Bottom	3.0	1	21.5	8.2	33.1	8.4	114.7	5.7	5.0				
								2	21.4	8.2	33.1	8.4	114.7	5.8	4.9				
	TCE-WQM4	Misty	Calm	7:34	3.6	Surface	1.0	1	21.6	8.2	33.1	8.3	114.0	5.2	4.9	8.3	5.6	5.7	
								2	21.6	8.2	33.1	8.3	114.0	5.1	4.5				
Bottom						2.6	1	21.1	8.3	33.5	8.4	114.2	6.1	6.5					
							2	21.0	8.3	33.6	8.4	114.2	6.1	6.7					

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)
2021-12-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	11:58	8.0	Surface	1.0	1	20.3	8.2	34.1	7.6	103.0	10.3	15.2	7.6	10.9	14.3
									2	20.3	8.2	34.1	7.6	103.0	10.3	15.5			
							Middle	4.0	1	20.3	8.2	34.1	7.6	102.9	10.6	14.3			
							Bottom	7.0	1	20.3	8.2	34.1	7.6	102.9	10.7	14.0			
				2	20.3	8.2	34.0	7.6	102.9	11.8	13.2								
				2	20.3	8.2	34.0	7.6	102.9	11.7	13.4								
		TCE-C2	Cloudy	Moderate	13:52	14.8	Surface	1.0	1	20.7	8.1	33.7	7.3	99.4	3.5	3.3	7.3	3.8	3.9
				2	20.7	8.1	33.7	7.3	99.3	3.5	3.6								
		Middle	7.4	1	20.7	8.1	33.8	7.3	98.8	3.7	4.0								
		Bottom	13.8	1	20.7	8.1	33.8	7.3	98.8	3.8	3.9								
				2	20.7	8.1	33.8	7.4	100.8	4.1	4.5								
				2	20.7	8.1	33.8	7.4	101.1	4.1	4.2								
	TCE-WQM1	Cloudy	Moderate	12:40	7.9	Surface	1.0	1	20.0	8.2	33.6	7.5	101.0	6.3	7.1	7.6	6.6	8.5	
			2	20.0	8.2	33.6	7.6	101.1	6.4	7.0									
	Middle	4.0	1	19.9	8.2	33.5	7.6	101.6	6.6	8.6									
	Bottom	6.9	1	19.9	8.2	33.5	7.6	101.7	6.6	8.3									
			2	19.9	8.2	33.5	7.7	102.8	6.7	10.0									
			2	19.9	8.2	33.5	7.7	103.0	6.7	9.8									
	TCE-WQM2a	Cloudy	Moderate	13:16	7.2	Surface	1.0	1	20.2	8.2	33.5	7.6	101.7	6.5	9.8	7.6	7.4	8.7	
			2	20.2	8.2	33.5	7.6	101.7	6.5	9.9									
	Middle	3.6	1	20.2	8.2	33.5	7.6	101.7	7.4	8.7									
	Bottom	6.2	1	20.2	8.2	33.5	7.6	101.6	7.5	8.6									
			2	20.2	8.2	33.5	7.6	101.5	8.2	7.6									
			2	20.2	8.2	33.5	7.6	101.5	8.6	7.4									
TCE-WQM2b	Cloudy	Moderate	13:27	12.7	Surface	1.0	1	20.4	8.2	33.6	7.5	101.0	4.4	5.5	7.5	4.8	4.7		
		2	20.4	8.2	33.6	7.5	101.0	4.4	5.7										
Middle	6.4	1	20.4	8.2	33.6	7.5	101.3	4.6	5.2										
Bottom	11.7	1	20.4	8.2	33.6	7.5	101.4	4.6	5.2										
		2	20.3	8.2	33.6	7.6	102.0	5.4	3.4										
		2	20.3	8.2	33.6	7.6	102.2	5.5	3.2										
TCE-WQM3A	Cloudy	Moderate	13:06	3.9	Surface	1.0	1	20.4	8.2	33.4	7.5	101.1	10.7	12.1	7.5	11.8	13.9		
		2	20.4	8.2	33.4	7.5	101.2	10.8	12.4										
Bottom	2.9	1	20.3	8.2	33.4	7.6	102.8	12.8	15.2										
		2	20.3	8.2	33.4	7.7	103.1	13.0	15.7										
TCE-WQM4	Cloudy	Moderate	12:56	3.8	Surface	1.0	1	20.1	8.2	33.4	7.8	104.5	10.5	13.3	7.8	11.0	12.6		
		2	20.1	8.2	33.4	7.8	104.8	10.6	13.0										
Bottom	2.8	1	20.1	8.2	33.3	7.8	105.2	11.2	11.9										
		2	20.1	8.2	33.3	7.9	105.3	11.6	12.0										
2021-12-20	Mid-Flood	TCE-C1	Cloudy	Moderate	10:26	8.0	Surface	1.0	1	20.2	8.2	34.1	7.6	102.8	14.8	16.6	7.6	14.3	14.3
									2	20.2	8.2	34.1	7.6	102.7	15.2	16.2			
							Middle	4.0	1	20.2	8.2	34.1	7.6	102.7	15.6	14.4			
							Bottom	7.0	1	20.2	8.2	34.1	7.6	102.7	15.4	14.0			
				2	20.2	8.2	34.0	7.6	102.9	12.4	12.1								
				2	20.2	8.2	34.0	7.6	103.0	12.2	12.6								
		TCE-C2	Cloudy	Moderate	8:20	13.6	Surface	1.0	1	20.7	8.1	33.7	7.2	98.2	5.7	5.5	7.2	8.5	13.5
				2	20.7	8.1	33.7	7.2	98.2	5.7	5.4								
		Middle	6.8	1	20.7	8.1	33.6	7.2	97.9	9.1	17.2								
		Bottom	12.6	1	20.7	8.1	33.6	7.2	97.9	9.2	17.1								
				2	20.7	8.1	33.7	7.2	98.0	10.4	17.6								
				2	20.7	8.1	33.7	7.2	98.0	10.8	17.9								
	TCE-WQM1	Cloudy	Moderate	9:27	7.8	Surface	1.0	1	20.1	8.2	33.5	7.5	100.7	6.3	8.3	7.5	6.5	7.5	
			2	20.1	8.2	33.5	7.5	100.7	6.3	8.3									
	Middle	3.9	1	20.1	8.2	33.5	7.5	100.9	6.5	7.1									
	Bottom	6.8	1	20.1	8.2	33.5	7.5	100.9	6.4	7.4									
			2	20.1	8.2	33.5	7.6	101.4	6.7	6.9									
			2	20.1	8.2	33.5	7.6	101.4	6.7	7.0									
	TCE-WQM2a	Cloudy	Moderate	8:55	7.0	Surface	1.0	1	20.2	8.2	33.4	7.6	102.1	7.1	6.6	7.6	8.7	7.1	
			2	20.2	8.2	33.4	7.6	102.1	7.1	6.4									
	Middle	3.5	1	20.2	8.2	33.5	7.6	101.7	8.8	7.0									
	Bottom	6.0	1	20.2	8.2	33.5	7.6	101.7	9.1	7.1									
			2	20.2	8.2	33.5	7.6	102.2	9.9	7.9									
			2	20.2	8.2	33.5	7.6	102.3	10.0	7.5									
TCE-WQM2b	Cloudy	Moderate	8:44	11.7	Surface	1.0	1	20.4	8.1	33.6	7.4	100.4	7.1	4.8	7.4	9.6	7.4		
		2	20.4	8.1	33.6	7.4	100.4	7.2	4.8										
Middle	5.9	1	20.4	8.1	33.6	7.4	100.2	9.9	7.8										
Bottom	10.7	1	20.4	8.1	33.6	7.4	100.2	10.1	8.0										
		2	20.4	8.1	33.6	7.4	100.2	11.7	9.8										
		2	20.4	8.1	33.6	7.4	100.2	11.7	9.4										
TCE-WQM3A	Cloudy	Moderate	9:06	4.7	Surface	1.0	1	20.4	8.1	33.4	7.5	100.8	5.4	16.3	7.5	6.0	12.5		
		2	20.4	8.1	33.4	7.5	100.9	5.4	16.1										
Bottom	3.7	1	20.4	8.1	33.4	7.6	101.9	6.5	8.8										
		2	20.4	8.1	33.4	7.6	102.2	6.7	8.9										
TCE-WQM4	Cloudy	Moderate	9:16	3.4	Surface	1.0	1	20.1	8.2	33.4	7.6	102.3	5.6	5.8	7.6	5.7	7.2		
		2	20.1	8.2	33.4	7.6	102.3	5.5	6.1										
Bottom	2.4	1	20.1	8.2	33.3	7.7	102.6	5.7	8.6										
		2	20.1	8.2	33.3	7.7	102.8	5.8	8.1										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2021-12-22	Mid-Ebb	TCE-C1	Misty	Calm	13:10	8.0	Surface	1.0	1	19.2	8.2	33.3	7.0	92.0	6.1	9.8	7.0	7.4	10.6
									2	19.2	8.2	33.3	7.0	92.0	6.2	9.8			
							Middle	4.0	1	19.2	8.2	33.2	7.0	91.9	7.8	11.0			
							Bottom	7.0	1	19.2	8.2	33.2	7.0	91.9	7.8	10.2			
				2	19.2	8.2	33.2	7.0	92.2	8.4	11.2								
				2	19.2	8.2	33.2	7.0	92.2	8.4	11.6								
		TCE-C2	Misty	Calm	15:07	12.4	Surface	1.0	1	19.8	8.2	33.0	6.6	88.2	1.7	2.7	6.6	2.3	3.8
				2	19.8	8.2	33.0	6.6	88.1	1.7	3.3								
		Middle	6.2	1	19.8	8.2	33.0	6.6	88.2	2.3	4.2								
		Bottom	11.4	1	19.8	8.2	33.0	6.6	88.3	2.2	3.7								
				2	19.8	8.2	33.0	6.8	90.9	3.0	4.1								
				2	19.8	8.2	33.0	6.9	91.1	2.9	4.5								
	TCE-WQM1	Misty	Calm	13:47	8.6	Surface	1.0	1	19.1	8.2	32.7	6.7	88.2	7.5	11.7	6.7	7.9	11.1	
			2	19.1	8.2	32.7	6.7	88.2	7.5	11.6									
	Middle	4.3	1	19.1	8.3	32.7	6.7	88.3	8.0	11.7									
	Bottom	7.6	1	19.1	8.3	32.7	6.7	88.3	8.1	10.8									
			2	19.1	8.3	32.7	6.8	88.5	8.3	10.6									
			2	19.1	8.3	32.7	6.8	88.5	8.3	10.4									
	TCE-WQM2a	Misty	Calm	14:29	8.0	Surface	1.0	1	19.4	8.2	32.8	6.8	89.8	3.2	4.8	6.8	3.9	5.1	
			2	19.4	8.2	32.8	6.8	89.8	3.2	4.5									
	Middle	4.0	1	19.3	8.2	32.8	6.8	89.0	3.6	5.5									
	Bottom	7.0	1	19.3	8.2	32.8	6.8	89.1	3.7	6.0									
			2	19.3	8.2	32.9	6.8	89.8	4.9	5.4									
			2	19.3	8.2	32.9	6.8	89.9	4.8	4.6									
TCE-WQM2b	Misty	Calm	14:42	10.8	Surface	1.0	1	19.7	8.2	32.9	6.8	90.2	1.8	4.3	6.8	2.5	5.9		
		2	19.7	8.2	32.9	6.8	90.1	1.8	4.3										
Middle	5.4	1	19.6	8.2	32.9	6.8	90.2	2.2	6.2										
Bottom	9.8	1	19.6	8.2	32.9	6.8	90.3	2.2	7.0										
		2	19.6	8.2	32.9	7.0	92.1	3.6	6.3										
		2	19.6	8.2	32.9	7.0	92.3	3.5	7.4										
TCE-WQM3A	Misty	Calm	14:18	4.0	Surface	1.0	1	19.5	8.2	32.5	6.8	89.7	5.9	7.9	6.8	6.7	9.6		
		2	19.5	8.2	32.5	6.8	89.7	6.0	8.4										
Bottom	3.0	1	19.4	8.2	32.5	7.0	92.0	7.4	11.4										
		2	19.3	8.2	32.5	7.0	92.1	7.5	10.6										
TCE-WQM4	Misty	Calm	14:07	4.0	Surface	1.0	1	19.6	8.2	32.7	7.1	94.5	2.6	5.2	7.1	3.2	6.6		
		2	19.6	8.2	32.7	7.2	94.5	2.6	4.6										
Bottom	3.0	1	19.4	8.2	32.7	7.2	94.9	3.8	5.7										
		2	19.4	8.2	32.6	7.2	94.8	3.8	10.7										
2021-12-22	Mid-Flood	TCE-C1	Misty	Calm	11:38	8.0	Surface	1.0	1	19.2	8.2	33.3	7.0	92.6	6.1	11.6	7.0	7.2	10.6
									2	19.2	8.2	33.3	7.0	92.6	6.2	10.9			
							Middle	4.0	1	19.2	8.2	33.3	7.1	93.0	7.1	10.8			
							Bottom	7.0	1	19.1	8.2	33.3	7.1	93.2	7.1	10.2			
				2	19.1	8.2	33.3	7.1	93.8	8.4	10.2								
				2	19.1	8.2	33.3	7.1	93.9	8.4	10.0								
		TCE-C2	Misty	Calm	9:49	12.8	Surface	1.0	1	19.7	8.2	33.0	6.6	87.8	3.7	4.8	6.6	5.7	5.2
				2	19.7	8.2	33.0	6.6	87.8	3.9	5.0								
		Middle	6.4	1	19.6	8.2	33.0	6.6	87.8	6.4	4.5								
		Bottom	11.8	1	19.6	8.2	33.0	6.6	87.8	6.4	5.2								
				2	19.6	8.2	33.0	6.6	88.0	7.0	5.3								
				2	19.6	8.2	33.0	6.6	88.1	7.1	6.4								
	TCE-WQM1	Misty	Calm	10:56	8.2	Surface	1.0	1	19.0	8.2	32.7	6.7	87.7	4.0	4.6	6.8	5.3	6.4	
			2	19.0	8.2	32.7	6.7	87.8	4.1	5.2									
	Middle	4.1	1	19.0	8.2	32.7	6.9	89.6	5.1	5.5									
	Bottom	7.2	1	18.9	8.2	32.7	6.9	89.9	5.2	5.8									
			2	18.9	8.2	32.7	7.0	91.1	6.8	9.0									
			2	18.9	8.2	32.7	7.0	91.3	6.8	8.2									
	TCE-WQM2a	Misty	Calm	10:23	7.0	Surface	1.0	1	19.3	8.2	33.0	6.9	90.4	5.6	5.5	6.9	7.1	5.8	
			2	19.3	8.2	33.0	6.9	90.4	5.6	5.3									
	Middle	3.5	1	19.3	8.2	33.0	6.9	91.2	7.2	5.6									
	Bottom	6.0	1	19.3	8.2	33.0	7.0	91.6	7.8	5.8									
			2	19.3	8.2	33.0	7.0	92.5	8.1	6.1									
			2	19.3	8.2	33.0	7.0	92.7	8.0	6.6									
TCE-WQM2b	Misty	Calm	10:12	10.4	Surface	1.0	1	19.3	8.2	33.0	6.8	89.6	4.6	5.2	6.8	5.5	5.4		
		2	19.3	8.2	33.0	6.8	89.6	4.7	5.1										
Middle	5.2	1	19.3	8.2	33.0	6.8	89.6	5.8	5.1										
Bottom	9.4	1	19.3	8.2	33.0	6.8	89.6	5.8	5.4										
		2	19.2	8.2	33.0	6.9	91.3	6.1	5.5										
		2	19.2	8.2	33.0	6.9	91.3	6.1	5.8										
TCE-WQM3A	Misty	Calm	10:34	4.0	Surface	1.0	1	19.2	8.2	32.7	6.8	89.9	3.8	5.7	6.9	4.3	6.5		
		2	19.2	8.2	32.7	6.9	90.1	3.7	6.8										
Bottom	3.0	1	19.2	8.2	32.6	7.0	91.3	4.8	6.4										
		2	19.3	8.2	32.6	7.0	91.8	5.0	7.0										
TCE-WQM4	Misty	Calm	10:44	3.6	Surface	1.0	1	19.2	8.2	32.8	6.9	90.2	3.5	6.0	6.9	4.1	6.2		
		2	19.2	8.2	32.8	6.9	90.4	3.4	5.6										
Bottom	2.6	1	19.2	8.2	32.8	7.0	91.6	4.8	6.9										
		2	19.2	8.2	32.7	7.0	92.0	4.9	6.4										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
2021-12-24	Mid-Ebb	TCE-C1	Misty	Calm	14:38	8.0	Surface	1.0	1	19.9	8.1	32.8	7.3	97.3	6.4	13.9	7.3	7.3	12.9			
									2	19.9	8.1	32.9	7.3	97.3	6.5	13.4						
							Middle	4.0	1	19.9	8.1	33.3	7.3	97.3	7.2	13.0						
									2	19.9	8.1	33.3	7.3	97.3	7.1	13.2						
				Bottom	7.0	1	19.9	8.1	33.0	7.3	97.4	8.2	11.6	7.3	7.3	12.3						
						2	19.9	8.1	32.9	7.3	97.4	8.3	12.3									
		TCE-C2	Misty	Calm	16:27	12.4	Surface	1.0	1	20.2	8.1	33.4	7.2				96.4	4.1	6.2	7.2	5.3	8.0
								2	20.1	8.1	33.4	7.2	96.3				4.1	6.1				
		Middle					6.2	1	20.1	8.1	33.4	7.2	96.2	5.1	8.7							
								2	20.1	8.1	33.4	7.2	96.3	5.2	8.4							
				Bottom	11.4	1	20.1	8.1	33.4	7.2	96.7	6.6	9.1	7.2	6.4	10.1						
						2	20.2	8.1	33.4	7.2	96.8	6.6	9.4									
	TCE-WQM1	Misty	Calm	15:15	8.6	Surface	1.0	1	20.2	8.1	33.5	7.1	94.9				5.8	9.2	7.0	6.4	10.1	
							2	20.2	8.1	33.5	7.1	94.9	5.7				9.4					
	Middle					4.3	1	20.2	8.1	33.5	7.0	94.7	6.1	10.2								
							2	20.2	8.1	33.5	7.0	94.7	6.1	10.3								
			Bottom	7.6	1	20.2	8.2	33.5	7.1	94.8	7.4	10.7	7.0	6.3	7.4							
					2	20.2	8.2	33.5	7.0	94.7	7.5	10.6										
	TCE-WQM2a	Misty	Calm	15:46	8.0	Surface	1.0	1	20.2	8.1	33.5	7.2				97.1	5.1	6.0	7.2	5.5	6.5	
							2	20.2	8.1	33.5	7.2	97.1				5.1	6.1					
	Middle					4.0	1	20.1	8.1	33.4	7.1	95.9	6.8	6.9								
							2	20.1	8.1	33.4	7.1	95.9	6.7	7.2								
			Bottom	7.0	1	20.3	8.0	33.3	7.2	96.5	7.1	9.0	7.2	6.8	19.7							
					2	20.4	7.9	33.2	7.2	96.7	7.1	9.0										
	TCE-WQM2b	Misty	Calm	15:57	10.8	Surface	1.0	1	20.2	8.1	33.4	7.2				96.9	4.1	4.3	7.2	6.0	10.1	
							2	20.2	8.1	33.4	7.2	96.9				4.2	4.7					
	Middle					5.4	1	20.3	8.1	33.3	7.2	97.0	5.7	7.3								
							2	20.4	8.1	33.2	7.2	97.2	5.7	7.1								
			Bottom	9.8	1	20.6	8.1	33.1	7.2	97.8	6.9	7.9	7.1	5.4	17.1							
					2	20.7	8.1	33.0	7.2	97.9	6.7	7.8										
	TCE-WQM3A	Misty	Calm	15:37	4.2	Surface	1.0	1	20.5	8.1	33.5	7.0				95.2	6.1	22.0	7.1	6.0	10.1	
							2	20.5	8.1	33.5	7.1	95.4				6.2	22.7					
	Middle					3.2	1	20.6	8.1	33.4	7.1	96.6	7.4	16.6								
							2	20.6	8.1	33.4	7.2	96.9	7.5	17.4								
			Bottom	3.0	1	20.4	8.1	33.5	7.2	97.2	6.6	9.5	7.2	7.1	11.7							
					2	20.4	8.1	33.4	7.2	97.3	6.5	10.0										
	TCE-WQM4	Misty	Calm	15:27	4.0	Surface	1.0	1	20.3	8.1	33.6	7.2				96.7	5.4	10.7	7.2	5.3	17.0	
							2	20.3	8.1	33.6	7.2	96.8				5.5	10.3					
	Middle					3.0	1	20.4	8.1	33.5	7.2	97.2	6.6	9.5								
							2	20.4	8.1	33.4	7.2	97.3	6.6	10.0								
			Bottom	3.0	1	20.4	8.1	33.5	7.2	97.2	6.6	9.5	7.1	8.3	12.9							
					2	20.4	8.1	33.4	7.2	97.3	6.5	10.0										
	TCE-WQM4	Misty	Calm	10:39	8.2	Surface	1.0	1	20.1	8.1	33.6	7.1				94.8	4.3	14.5	7.1	6.9	15.1	
							2	20.1	8.1	33.6	7.1	94.8				4.3	14.9					
	Middle					4.1	1	20.1	8.1	33.6	7.1	94.7	5.7	16.5								
							2	20.1	8.1	33.6	7.1	94.8	5.7	16.6								
			Bottom	7.2	1	20.1	8.1	33.6	7.1	95.8	6.1	19.9	7.1	4.9	18.7							
					2	20.0	8.1	33.6	7.2	95.9	6.2	19.9										
TCE-WQM2a	Misty	Calm	10:04	7.0	Surface	1.0	1	20.1	8.1	33.5	7.1	95.3				4.1	12.0	7.1	6.9	15.1		
						2	20.1	8.1	33.5	7.1	95.3	4.1				12.4						
Middle					3.5	1	20.1	8.1	33.5	7.1	95.3	5.1	18.6									
						2	20.0	8.1	33.5	7.1	95.3	5.2	17.9									
		Bottom	6.0	1	19.9	8.1	33.6	7.2	96.1	6.7	20.8	7.2	7.1	12.9								
				2	19.8	8.1	33.7	7.2	96.2	6.6	20.2											
TCE-WQM2b	Misty	Calm	9:52	10.4	Surface	1.0	1	20.0	8.1	33.4	7.1				95.5	7.0	11.4	7.1	6.9	15.1		
						2	20.0	8.1	33.4	7.1	95.5				7.1	11.8						
Middle					5.2	1	20.0	8.1	33.4	7.1	95.5	8.7	13.2									
						2	20.0	8.1	33.4	7.1	95.5	8.7	13.0									
		Bottom	9.4	1	20.0	8.1	33.4	7.2	95.8	9.1	14.0	7.2	4.9	18.7								
				2	20.0	8.1	33.4	7.2	95.8	9.1	13.7											
TCE-WQM3A	Misty	Calm	10:16	4.0	Surface	1.0	1	20.3	8.1	33.5	6.9				92.8	6.8	12.4	6.9	6.9	15.1		
						2	20.3	8.1	33.5	6.9	92.8				6.7	12.0						
Middle					3.0	1	20.3	8.1	33.5	6.9	93.4	7.1	17.7									
						2	20.3	8.1	33.5	6.9	93.5	7.1	18.1									
		Bottom	2.6	1	19.7	8.1	33.9	7.2	95.8	5.5	23.6	7.2	7.1	18.7								
				2	19.6	8.1	33.9	7.2	95.7	5.6	23.8											

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)			
2021-12-27	Mid-Ebb	TCE-C1	Rainy	Rough	7:40	7.5	Surface	1.0	1	18.5	8.2	32.3	7.1	89.6	5.1	15.9	7.1	5.9	14.0			
								2	18.5	8.2	32.3	7.1	89.6	5.1	15.4							
							Middle	3.8	1	18.4	8.2	32.3	7.0	89.7	5.8	14.2						
							2	18.4	8.2	32.3	7.0	89.7	5.8	13.8								
			Bottom	6.5	1	18.3	8.2	32.3	7.2	91.0	6.8	12.4	7.2									
			2	18.3	8.2	32.3	7.2	91.3	6.8	12.2												
		TCE-C2	Fine	Rough	6:10	14.6	Surface	1.0	1	18.8	8.1	32.8				6.7	86.7	2.2	4.9	6.7	2.3	4.4
							2	18.8	8.1	32.8	6.7	86.6				2.2	4.5					
		Middle					7.3	1	18.8	8.1	32.8	6.7	86.5	2.2	4.4							
		2					18.8	8.1	32.8	6.7	86.5	2.2	4.2									
			Bottom	13.6	1	18.9	8.1	32.9	6.6	86.5	2.6	4.2	6.6									
			2	18.9	8.1	32.9	6.6	86.5	2.6	4.0												
	TCE-WQM1	Rainy	Rough	7:18	9.7	Surface	1.0	1	18.4	8.1	32.3	7.1				89.2	5.2	13.4	7.0	7.0	14.9	
						2	18.4	8.1	32.3	7.1	89.2	5.2				13.6						
	Middle					4.9	1	18.4	8.1	32.3	7.0	89.1	6.4	15.2								
	2					18.4	8.1	32.3	7.0	89.1	6.4	15.4										
		Bottom	8.7	1	18.2	8.1	32.3	7.0	89.0	9.5	15.6	7.0										
		2	18.2	8.1	32.3	7.0	89.0	9.5	16.1													
	TCE-WQM2a	Fine	Rough	6:47	6.8	Surface	1.0	1	18.4	8.1	32.4				6.9	89.0	3.5	5.1	6.9	3.3	6.3	
						2	18.4	8.1	32.4	6.9	89.0				3.5	5.5						
	Middle					3.4	1	18.5	8.1	32.4	6.9	88.4	3.2	6.5								
	2					18.5	8.1	32.4	6.9	88.4	3.2	6.7										
		Bottom	5.8	1	18.4	8.1	32.4	6.9	88.5	3.3	7.2	6.9										
		2	18.4	8.1	32.4	6.9	88.5	3.3	6.9													
	TCE-WQM2b	Fine	Rough	6:33	11.4	Surface	1.0	1	18.4	8.1	32.4				6.9	88.5	3.1	5.6	6.9	4.2	4.8	
						2	18.4	8.1	32.4	6.9	88.5				3.1	5.3						
	Middle					5.7	1	18.4	8.1	32.4	6.9	88.2	3.3	4.9								
	2					18.4	8.1	32.4	6.9	88.1	3.3	4.5										
		Bottom	10.4	1	18.4	8.1	32.3	6.9	88.6	6.2	4.2	6.9										
		2	18.4	8.1	32.3	6.9	88.6	6.2	4.0													
	TCE-WQM3A	Rainy	Moderate	6:58	3.8	Surface	1.0	1	18.1	8.1	32.1				6.9	87.9	3.9	13.7	7.0	4.0	12.9	
						2	18.1	8.1	32.1	7.0	88.1				3.9	13.5						
	Bottom					2.8	1	18.1	8.1	32.1	7.1	89.9	4.1	12.0								
	2					18.1	8.1	32.1	7.2	90.1	4.1	12.3										
		TCE-WQM4	Rainy	Moderate	7:06	4.1	Surface	1.0	1	18.1	8.1	32.2	6.7	85.4	4.1	11.9	6.7	5.2	12.2			
		2					18.1	8.1	32.2	6.7	85.4	4.1	11.8									
Bottom	3.1	1					18.2	8.1	32.2	6.8	86.7	6.2	12.6									
2	18.2	8.1					32.2	6.8	86.6	6.3	12.6											
2021-12-27	Mid-Flood	TCE-C1	Cloudy	Rough	11:55	9.3	Surface	1.0	1	18.4	8.1	32.2	7.0	90.5	4.6	4.9	7.1	4.8	9.6			
								2	18.4	8.1	32.2	7.0	90.5	4.7	4.4							
							Middle	4.7	1	18.0	8.1	32.2	7.1	90.8	5.0	5.7						
							2	18.0	8.1	32.2	7.1	90.8	5.0	5.8								
			Bottom	8.3	1	17.8	8.1	32.2	7.1	90.7	4.6	18.5	7.1									
			2	17.8	8.1	32.2	7.2	90.9	4.7	18.0												
		TCE-C2	Cloudy	Rough	13:57	13.6	Surface	1.0	1	19.3	8.1	33.0				6.4	84.3	1.9	5.9	6.4	3.0	4.9
							2	19.3	8.1	33.0	6.4	84.3				2.0	5.8					
		Middle					6.8	1	19.3	8.1	33.0	6.4	84.3	3.0	4.8							
		2					19.3	8.1	33.0	6.4	84.3	3.0	4.7									
			Bottom	12.6	1	19.3	8.1	32.9	6.4	84.5	4.1	3.9	6.4									
			2	19.3	8.1	32.9	6.4	84.6	4.1	4.0												
	TCE-WQM1	Cloudy	Rough	12:29	9.8	Surface	1.0	1	18.5	8.2	32.2	6.9				89.3	4.6	8.0	6.9	5.2	11.6	
						2	18.5	8.2	32.2	6.9	89.3	4.7				8.4						
	Middle					4.9	1	18.4	8.2	32.2	7.0	89.9	5.2	9.2								
	2					18.4	8.2	32.2	7.0	89.9	5.1	9.1										
		Bottom	8.8	1	18.2	8.2	32.3	7.0	89.6	5.7	17.5	7.0										
		2	18.2	8.2	32.3	7.0	89.5	5.7	17.6													
	TCE-WQM2a	Cloudy	Rough	13:04	7.1	Surface	1.0	1	18.1	8.2	32.2				7.0	88.2	6.9	7.9	7.0	6.4	6.1	
						2	18.1	8.2	32.2	7.0	88.2				6.9	7.2						
	Middle					3.6	1	18.1	8.2	32.2	7.0	88.2	4.1	6.2								
	2					18.1	8.2	32.2	7.0	88.2	4.1	6.0										
		Bottom	6.1	1	18.1	8.2	32.2	6.9	88.3	8.1	4.6	6.9										
		2	18.2	8.2	32.2	6.9	88.3	8.2	4.5													
	TCE-WQM2b	Cloudy	Rough	13:19	10.5	Surface	1.0	1	18.8	8.2	32.5				6.7	87.8	3.8	7.8	6.8	5.8	6.5	
						2	18.8	8.2	32.5	6.7	87.8				3.7	7.6						
	Middle					5.3	1	18.8	8.1	32.5	6.8	88.2	7.5	6.1								
	2					18.8	8.1	32.5	6.8	88.2	7.5	6.1										
		Bottom	9.5	1	18.7	8.1	32.5	7.0	88.5	6.1	5.9	7.0										
		2	18.7	8.1	32.5	7.0	88.5	6.1	5.7													
	TCE-WQM3A	Cloudy	Moderate	12:49	5.2	Surface	1.0	1	18.1	8.1	32.2				6.9	88.5	4.7	18.1	6.9	6.2	18.9	
						2	18.1	8.1	32.2	6.9	88.6				4.7	18.4						
	Bottom					4.2	1	18.1	8.1	32.2	7.0	89.1	7.6	19.4								
	2					18.1	8.1	32.2	7.0	89.1	7.6	19.7										
		TCE-WQM4	Cloudy	Moderate	12:38	4.4	Surface	1.0	1	18.4	8.2	32.2	6.9	89.1	4.7	7.4	6.9	4.8	7.4			
		2					18.4	8.2	32.2	6.9	89.1	4.7	7.5									
Bottom	3.4	1					18.4	8.2	32.2	6.9	89.0	4.8	7.2									
2	18.4	8.2					32.2	6.9	89.0	4.9	7.4											

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2021-12-29	Mid-Ebb	TCE-C1	Cloudy	Moderate	10:11	7.8	Surface	1.0	1	18.8	8.2	34.1	7.8	101.6	9.7	8.2	7.9	11.4	10.9
									2	18.8	8.2	34.1	7.8	101.6	10.0	8.7			
							Middle	3.9	1	18.8	8.2	34.1	7.9	102.2	11.2	11.7			
							Bottom	6.8	1	18.7	8.2	34.1	8.1	104.4	13.2	12.4			
				2	18.7	8.2	34.1	8.1	104.6	13.1	12.4	8.1							
				2	19.6	8.1	33.9	7.0	92.3	3.5	5.5								
		Middle	6.4	1	19.7	8.0	33.9	7.0	92.4	4.1	4.6								
		Bottom	11.8	1	19.7	8.0	33.9	7.0	92.5	4.2	5.2								
				2	19.7	8.0	34.0	7.1	93.0	4.4	3.3	7.1							
				2	19.7	8.0	34.0	7.1	93.1	4.3	4.0								
		Surface	1.0	1	18.5	8.1	33.6	7.7	98.3	6.8	6.8								
				2	18.5	8.1	33.6	7.7	98.3	6.8	7.4								
			1	18.5	8.1	33.6	7.7	98.6	7.2	7.8	7.7	7.0	9.0						
			2	18.5	8.1	33.6	7.7	98.7	7.2	7.5									
	Bottom	7.4	1	18.5	8.1	33.6	7.8	99.7	7.2	9.6									
			2	18.5	8.1	33.6	7.8	99.9	7.1	14.6									
			1	19.1	8.1	33.6	7.3	94.9	5.2	3.7	7.3								
			2	19.1	8.1	33.6	7.3	94.9	5.2	4.6									
	Middle	3.3	1	19.2	8.1	33.6	7.3	95.3	6.5	4.7									
	Bottom	5.6	1	19.2	8.1	33.6	7.4	96.4	6.4	6.7									
			2	19.2	8.1	33.6	7.4	96.5	6.5	7.2	7.4								
			2	19.5	8.1	33.8	7.1	93.6	3.9	5.9									
	Middle	5.9	1	19.5	8.1	33.8	7.2	94.2	4.3	5.2									
	Bottom	10.8	1	19.5	8.1	33.8	7.2	94.3	4.3	4.6									
			2	19.5	8.1	33.8	7.2	94.3	4.3	4.6	7.3								
			2	19.5	8.1	33.8	7.3	95.7	4.4	4.5									
	Surface	1.0	1	18.8	8.1	33.3	7.4	94.9	10.3	7.6									
			2	18.8	8.1	33.4	7.4	95.0	10.5	7.2									
			1	18.8	8.1	33.4	7.4	95.3	12.8	6.8	7.4	11.5	7.3						
			2	18.8	8.1	33.4	7.4	95.5	12.6	7.4									
	Bottom	3.4	1	18.8	8.1	33.4	7.4	95.3	12.8	6.8									
			2	18.8	8.1	33.4	7.4	95.5	12.6	7.4									
			1	18.3	8.1	33.2	7.8	100.1	11.1	6.4	7.9								
			2	18.3	8.1	33.2	7.9	100.3	10.8	6.1									
	Bottom	2.3	1	18.3	8.1	33.2	8.0	102.0	10.3	11.6									
			2	18.3	8.1	33.2	8.0	102.3	9.9	7.7									
			1	18.9	8.2	34.1	7.7	100.4	9.7	12.2	7.7								
			2	18.8	8.2	34.1	7.7	100.4	9.8	11.1									
	Middle	4.0	1	18.8	8.2	34.1	7.7	100.3	11.2	13.1									
	Bottom	7.0	1	18.8	8.2	34.1	7.7	100.3	11.2	12.5									
			2	18.8	8.2	34.1	7.8	100.8	12.4	13.5	7.8								
			2	18.8	8.2	34.1	7.8	100.8	12.4	12.4									
	Surface	1.0	1	19.5	8.1	33.7	7.1	93.9	3.6	7.6									
			2	19.5	8.1	33.7	7.1	93.9	3.6	8.0									
			1	19.4	8.1	33.7	7.0	92.8	4.4	7.1	7.0	4.9	5.6						
			2	19.4	8.1	33.7	7.0	92.7	4.6	4.0									
	Bottom	12.8	1	19.4	8.1	33.8	7.2	93.8	6.6	3.6									
			2	19.4	8.1	33.8	7.2	94.0	6.8	3.4									
		1	18.7	8.1	33.4	7.7	99.5	7.9	13.4	7.8									
		2	18.7	8.1	33.4	7.7	99.5	7.9	12.1										
Middle	4.1	1	18.6	8.2	33.6	7.8	100.2	8.1	11.0										
Bottom	7.2	1	18.6	8.2	33.5	7.8	100.4	8.1	11.2										
		2	18.6	8.2	33.5	7.9	101.6	7.2	10.8	7.9									
		2	18.6	8.2	33.6	7.9	101.8	7.4	10.2										
Surface	1.0	1	18.9	8.1	33.4	7.5	97.3	9.2	11.0										
		2	18.9	8.1	33.4	7.5	97.3	9.2	10.6										
		1	18.8	8.1	33.4	7.5	97.3	10.2	13.6	7.5	10.6	12.7							
		2	18.8	8.1	33.4	7.5	97.4	10.3	14.0										
Bottom	5.4	1	18.7	8.1	33.4	7.7	98.8	12.4	14.2										
		2	18.7	8.1	33.4	7.7	99.0	12.2	13.0										
		1	19.2	8.1	33.6	7.4	96.1	5.1	11.0	7.4	5.4	8.4							
		2	19.2	8.1	33.6	7.4	96.1	5.1	10.7										
Middle	5.8	1	19.2	8.1	33.7	7.4	96.8	5.4	10.0										
Bottom	10.6	1	19.2	8.1	33.7	7.4	96.9	5.4	5.9										
		2	19.2	8.1	33.6	7.6	98.9	5.6	6.7	7.6									
		2	19.2	8.1	33.6	7.6	99.2	5.6	6.1										
Surface	1.0	1	18.9	8.1	33.3	7.5	97.1	7.7	10.2										
		2	18.9	8.1	33.3	7.5	97.2	7.8	9.4										
		1	18.9	8.1	33.4	7.6	98.0	9.7	11.2	7.6	8.6	10.4							
		2	18.9	8.1	33.4	7.6	98.3	9.1	10.8										
Bottom	3.2	1	18.9	8.1	33.4	7.6	98.0	9.7	11.2										
		2	18.9	8.1	33.4	7.6	98.3	9.1	10.8										
		1	18.5	8.1	33.2	7.7	98.7	9.7	6.4	7.7									
		2	18.5	8.1	33.2	7.7	98.8	9.5	6.6										
Bottom	2.1	1	18.5	8.1	33.2	7.8	100.0	12.3	11.2										
		2	18.4	8.1	33.2	7.8	100.2	12.9	12.6										

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)
2021-12-31	Mid-Ebb	TCE-C1	Cloudy	Rough	11:44	7.3	Surface	1.0	1	18.7	8.3	33.0	7.3	95.4	6.3	6.2	7.3	9.0	5.7
									2	18.7	8.3	33.0	7.3	95.4	6.2	5.5			
							Middle	3.7	1	18.7	8.3	33.2	7.2	94.0	9.7	5.2			
							Bottom	6.3	1	18.8	8.3	33.2	7.2	94.0	9.8	6.0			
				2	18.8	8.3	33.2	7.2	94.3	11.0	5.9								
		TCE-C2	Cloudy	Rough	9:36	14.2	Surface	1.0	1	19.3	8.1	33.3	6.5	86.5	1.8	4.1	6.5	2.0	4.3
				2	19.3	8.1	33.3	6.6	86.5	1.9	3.7								
		Middle	7.1	1	19.3	8.1	33.3	6.5	86.5	2.1	4.6								
		Bottom	13.2	1	19.3	8.1	33.3	6.5	86.5	2.1	3.9								
				2	19.3	8.1	33.3	6.6	86.8	2.0	4.3								
		TCE-WQM1	Cloudy	Moderate	10:47	9.4	Surface	1.0	1	18.4	8.2	33.0	7.1	91.7	5.1	8.5	7.1	5.6	9.7
				2	18.4	8.2	33.0	7.1	91.7	5.1	9.3								
	Middle	4.7	1	18.4	8.2	33.0	7.1	91.9	5.2	8.6									
	Bottom	8.4	1	18.4	8.2	33.0	7.1	91.9	5.2	9.8									
			2	18.4	8.2	33.0	7.1	92.3	6.5	11.0									
	TCE-WQM2a	Cloudy	Rough	10:14	6.9	Surface	1.0	1	18.6	8.2	33.0	6.9	90.3	3.8	5.4	7.0	3.9	4.8	
			2	18.6	8.2	33.0	6.9	90.3	3.8	5.4									
	Middle	3.5	1	18.6	8.2	33.0	7.0	90.9	3.5	5.2									
	Bottom	5.9	1	18.6	8.2	33.0	7.0	90.9	3.5	4.4									
			2	18.6	8.2	33.0	7.0	91.3	4.4	4.1									
	TCE-WQM2b	Cloudy	Rough	10:03	9.1	Surface	1.0	1	19.1	8.2	33.2	6.7	88.6	3.6	4.9	6.8	4.2	4.9	
			2	19.1	8.2	33.2	6.7	88.6	3.5	4.3									
	Middle	4.6	1	19.1	8.2	33.2	6.8	88.8	4.7	4.5									
	Bottom	8.1	1	19.1	8.2	33.2	6.8	88.9	4.7	5.4									
		2	19.1	8.2	33.2	6.9	90.8	4.3	5.0										
TCE-WQM3A	Cloudy	Moderate	10:25	3.9	Surface	1.0	1	18.8	8.2	32.8	7.0	90.7	2.8	6.8	6.9	3.9	6.4		
		2	18.8	8.2	32.8	6.9	90.7	2.8	5.6										
Bottom	2.9	1	18.9	8.2	32.9	6.9	90.0	5.0	7.0										
		2	18.9	8.2	32.9	6.9	90.1	5.1	6.3										
TCE-WQM4	Cloudy	Moderate	10:35	3.6	Surface	1.0	1	18.8	8.2	32.9	7.0	91.2	3.7	7.0	7.0	4.0	6.5		
		2	18.8	8.2	32.9	7.0	91.2	3.7	6.2										
Bottom	2.6	1	18.8	8.2	32.9	7.0	91.1	4.5	6.1										
		2	18.8	8.2	32.9	7.0	91.2	4.3	6.6										
2021-12-31	Mid-Flood	TCE-C1	Fine	Rough	14:43	8.6	Surface	1.0	1	18.8	8.3	33.1	7.3	94.9	7.2	9.6	7.2	9.1	8.5
									2	18.8	8.3	33.1	7.3	94.8	7.3	10.4			
							Middle	4.3	1	18.8	8.3	33.2	7.2	94.2	7.7	8.8			
							Bottom	7.6	1	18.9	8.3	33.2	7.2	94.1	7.6	9.9			
				2	18.9	8.3	33.3	7.2	93.7	12.5	6.2								
		TCE-C2	Fine	Moderate	16:46	15.3	Surface	1.0	1	19.6	8.2	33.3	6.8	90.0	1.9	10.6	6.7	1.8	10.3
				2	19.6	8.2	33.3	6.8	90.0	1.9	11.0								
		Middle	7.7	1	19.5	8.2	33.3	6.7	88.8	2.0	9.9								
		Bottom	14.3	1	19.4	8.2	33.3	6.7	88.2	1.6	10.2								
				2	19.4	8.2	33.3	6.7	88.2	1.6	9.7								
		TCE-WQM1	Fine	Calm	15:41	10.6	Surface	1.0	1	18.8	8.3	33.1	7.3	95.0	7.4	11.0	7.2	8.5	9.5
				2	18.8	8.3	33.1	7.3	95.0	7.4	10.3								
		Middle	5.3	1	18.8	8.3	33.2	7.2	94.2	8.4	8.8								
		Bottom	9.6	1	18.8	8.3	33.2	7.2	94.1	8.5	9.3								
				2	18.8	8.3	33.3	7.2	93.8	9.7	9.1								
		TCE-WQM2a	Fine	Moderate	16:10	7.7	Surface	1.0	1	19.0	8.2	32.9	7.2	94.2	4.4	11.0	7.1	5.5	10.8
				2	19.0	8.2	32.9	7.2	94.2	4.4	11.6								
		Middle	3.9	1	18.8	8.2	32.9	7.0	91.5	4.7	10.8								
		Bottom	6.7	1	18.8	8.2	32.9	7.0	91.5	4.7	11.3								
				2	18.8	8.2	33.0	7.0	91.5	7.4	9.7								
		TCE-WQM2b	Fine	Moderate	16:23	10.1	Surface	1.0	1	19.1	8.2	32.8	7.2	94.3	3.5	11.7	7.1	4.2	11.0
				2	19.1	8.2	32.8	7.2	94.2	3.6	11.6								
		Middle	5.1	1	18.9	8.2	32.9	7.0	91.5	4.0	11.0								
		Bottom	9.1	1	18.9	8.2	32.9	7.0	91.5	4.1	10.3								
		2	18.8	8.2	33.0	6.9	90.6	4.9	11.1										
TCE-WQM3A	Fine	Calm	16:02	4.4	Surface	1.0	1	19.2	8.2	32.9	7.3	95.5	2.8	9.2	7.3	4.2	8.9		
		2	19.2	8.2	32.9	7.3	95.5	2.8	8.4										
Bottom	3.4	1	18.8	8.2	32.9	7.1	92.4	5.6	8.4										
		2	18.8	8.2	32.9	7.1	92.4	5.7	9.5										
TCE-WQM4	Fine	Calm	15:51	4.1	Surface	1.0	1	19.1	8.2	32.9	7.3	96.2	3.0	9.6	7.3	4.4	10.2		
		2	19.1	8.2	32.9	7.3	96.1	3.0	10.5										
Bottom	3.1	1	18.8	8.2	32.9	7.1	92.4	5.8	10.8										
		2	18.8	8.2	32.9	7.1	92.4	5.8	9.7										