

Annex G3

Monitoring Results for Water Quality

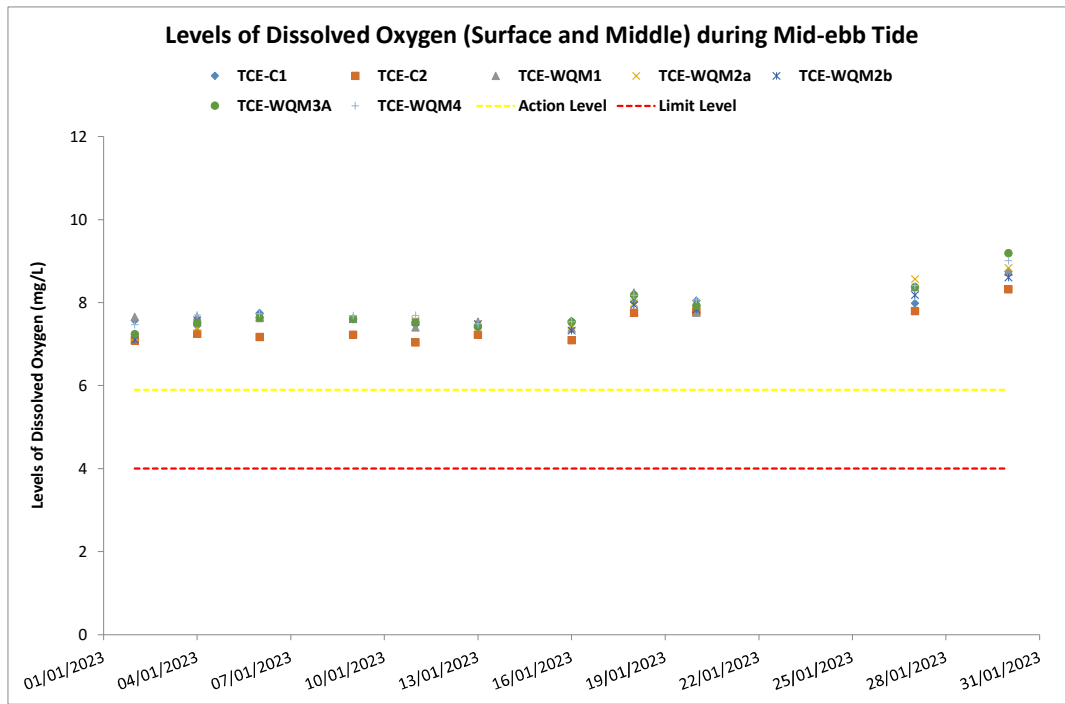


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 January 2023

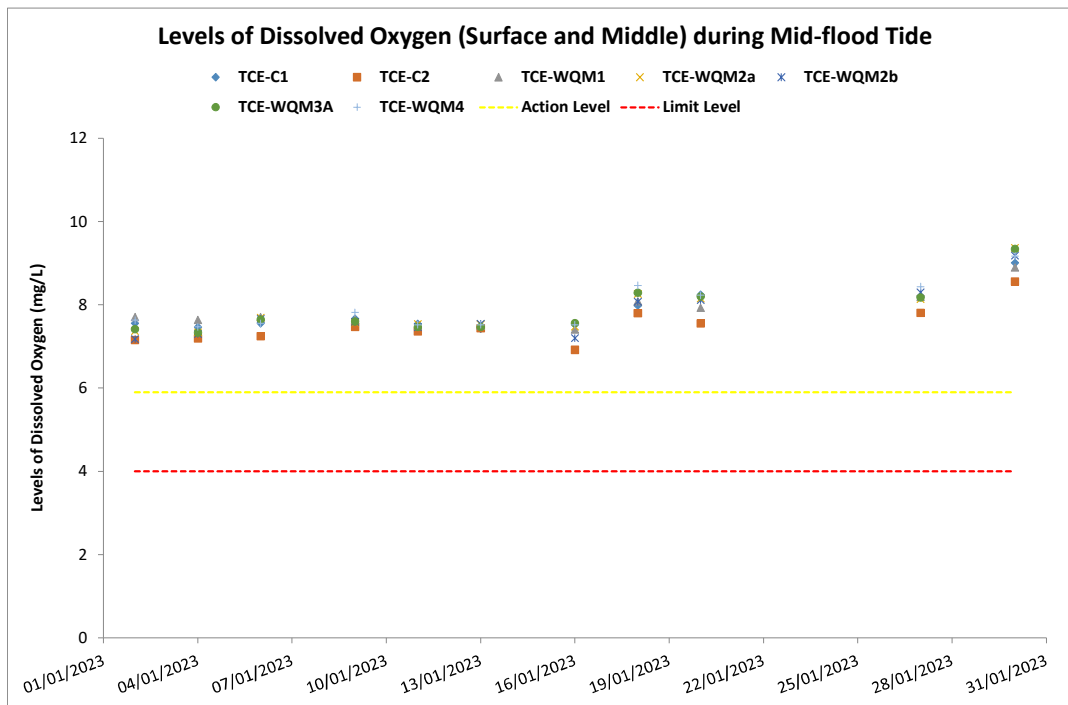


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 January 2023

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

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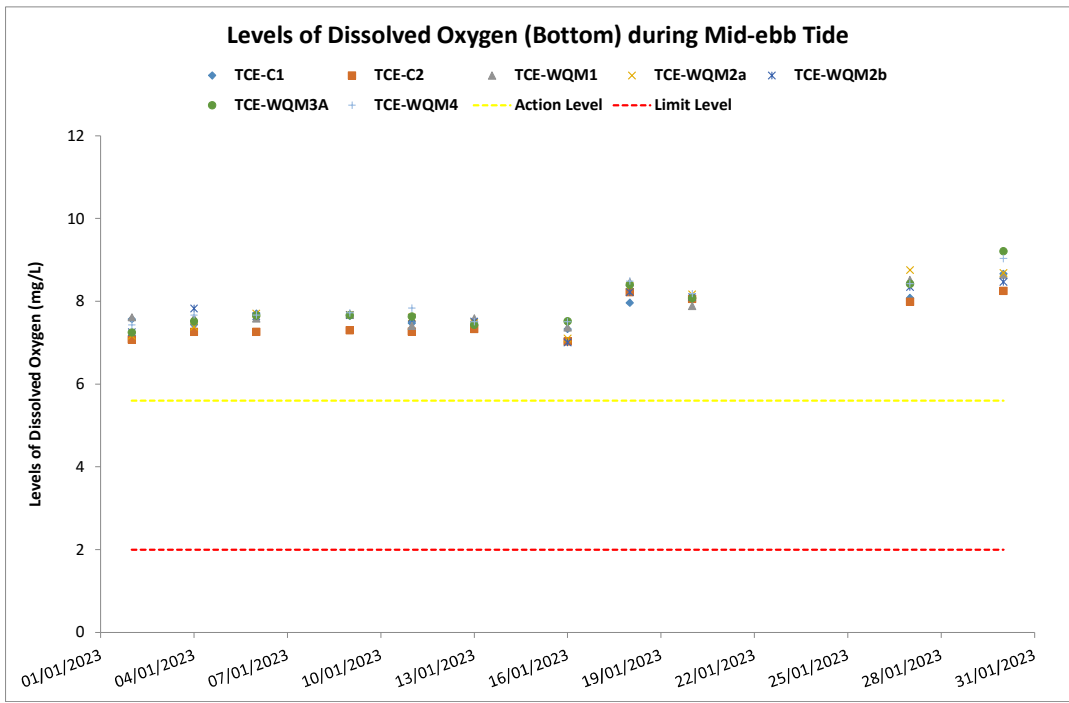


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 January 2023

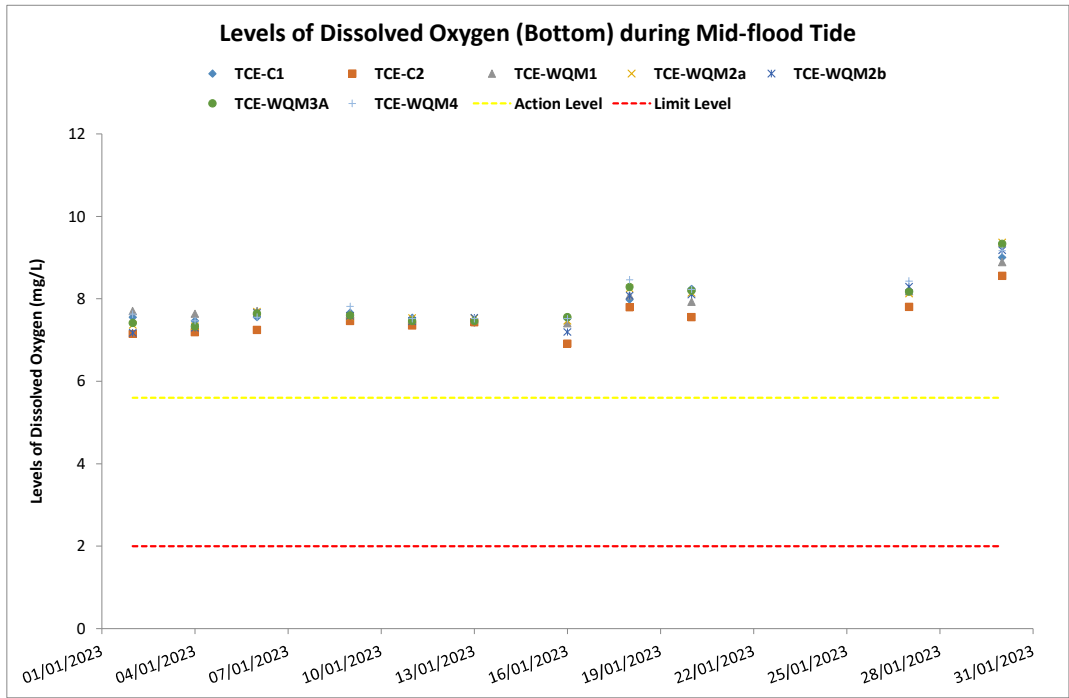


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 January 2023

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

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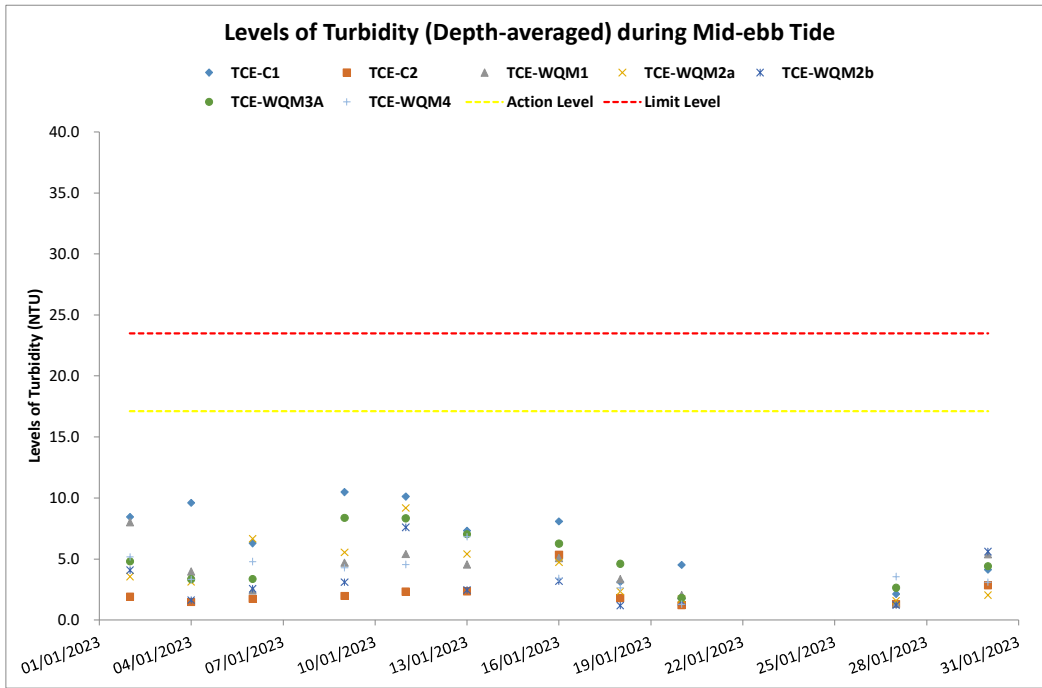


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 January 2023

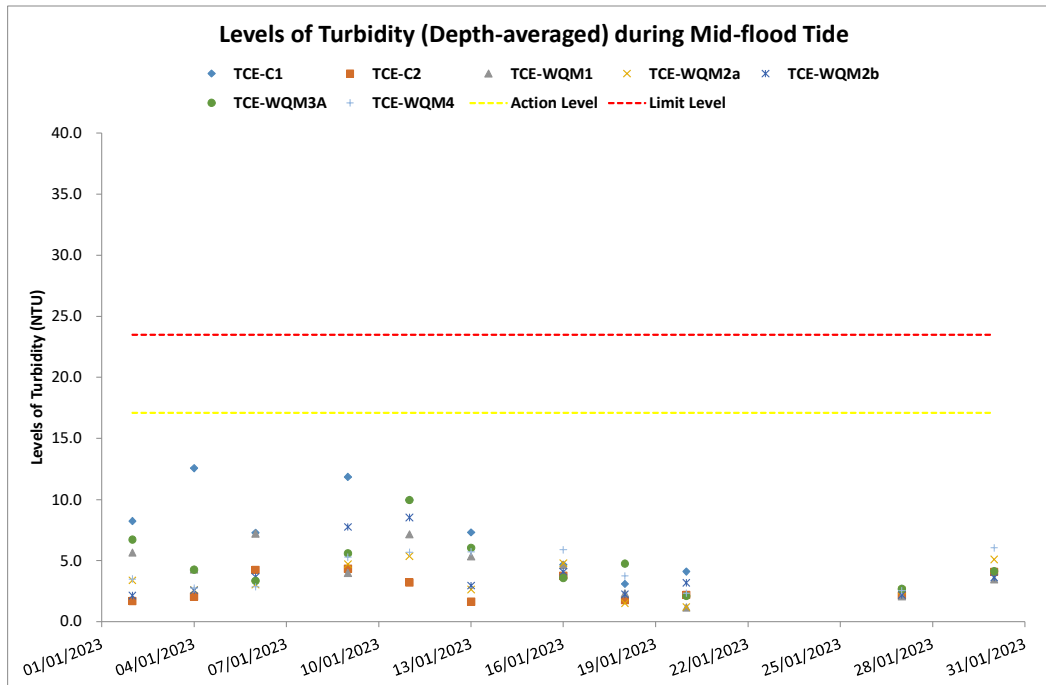


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 January 2023

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

Date: January 2023

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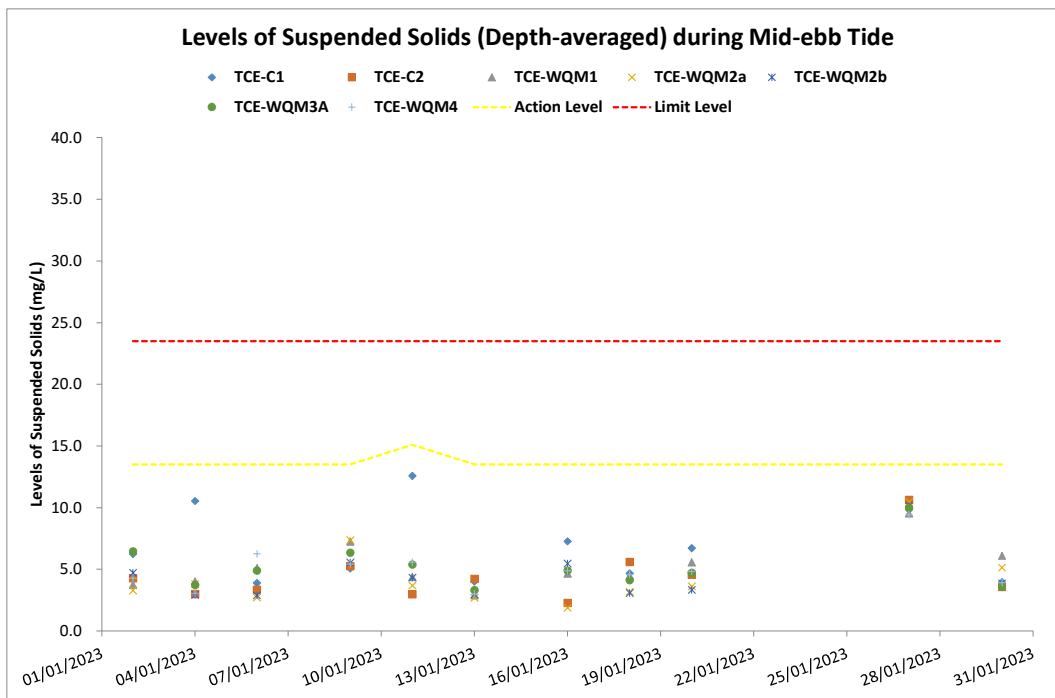


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 January 2023

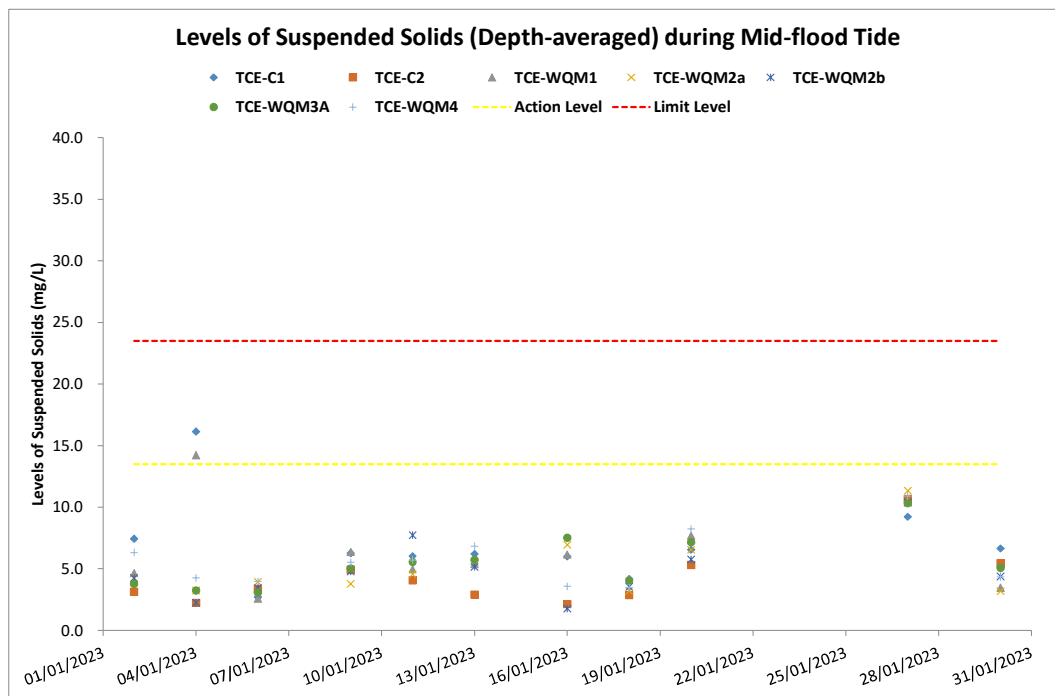


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 January 2023

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

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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)						
2023-01-02	Mid-Ebb	TCE-C1	Cloudy	Moderate	11:19	8.4	Surface	1.0	1	17.0	8.1	32.7	7.6	95.5	6.5	4.9	7.6	8.4	6.3						
									2	17.0	8.1	32.7	7.6	95.5	6.6	4.6									
							Middle	4.2	1	16.9	8.0	32.7	7.6	95.1	8.8	5.7									
									2	16.9	8.0	32.6	7.6	95.1	10.2	6.0									
							Bottom	7.4	1	17.0	8.0	32.5	7.6	95.3	9.2	8.3									
									2	17.0	8.0	32.4	7.6	95.4	9.3	8.0									
		TCE-C2	Cloudy	Moderate	9:17	13.5	Surface	1.0	1	17.5	7.4	32.2	7.1	89.9	1.8	3.5	7.1	1.9	4.3						
									2	17.5	7.4	32.2	7.1	89.9	1.8	3.8									
							Middle	6.8	1	17.5	7.3	32.2	7.1	89.7	2.0	4.0									
									2	17.5	7.3	32.2	7.1	89.7	2.1	4.4									
							Bottom	12.5	1	17.5	7.3	32.1	7.1	89.7	1.9	4.8									
									2	17.5	7.3	32.1	7.1	89.7	1.9	5.2									
	TCE-WQM1	Cloudy	Moderate	10:30	8.5	Surface	1.0	1	16.7	8.0	32.1	7.7	96.0	8.3	2.3	7.7	8.0	3.8							
								2	16.7	8.0	32.1	7.7	95.9	8.3	2.6										
						Middle	4.3	1	16.7	8.0	32.1	7.6	95.5	6.1	4.2										
								2	16.7	8.0	32.1	7.6	95.4	6.2	3.7										
						Bottom	7.5	1	16.7	8.0	32.1	7.6	95.2	9.3	4.7										
								2	16.7	8.0	32.1	7.6	95.1	9.8	5.0										
	TCE-WQM2a	Cloudy	Moderate	9:59	7.0	Surface	1.0	1	17.3	8.0	32.3	7.2	90.7	2.1	3.7	7.2	3.5	3.3							
								2	17.3	8.0	32.3	7.2	90.7	2.1	3.9										
						Middle	3.5	1	17.3	8.0	32.3	7.1	90.3	2.4	3.2										
								2	17.3	8.0	32.3	7.1	90.2	2.5	3.5										
						Bottom	6.0	1	17.2	8.0	32.3	7.2	90.6	6.0	2.5										
								2	17.2	8.0	32.3	7.2	90.7	6.1	2.9										
TCE-WQM2b	Cloudy	Moderate	9:48	11.2	Surface	1.0	1	17.3	8.0	32.4	7.1	90.0	2.0	5.4	7.1	4.1	4.7								
							2	17.3	8.0	32.4	7.1	90.0	2.0	5.1											
					Middle	5.6	1	17.3	8.0	32.4	7.1	89.9	3.4	4.6											
							2	17.3	8.0	32.4	7.1	89.9	3.8	4.9											
					Bottom	10.2	1	17.4	8.0	32.4	7.2	91.7	6.6	4.0											
							2	17.4	8.0	32.4	7.3	92.0	6.9	4.3											
TCE-WQM3A	Cloudy	Moderate	10:09	4.5	Surface	1.0	1	17.2	8.0	32.2	7.2	91.2	3.7	5.3	7.2	4.8	6.5								
							2	17.2	8.0	32.2	7.2	91.2	3.8	5.6											
					Bottom	3.5	1	17.2	8.0	32.2	7.3	91.4	5.8	7.3											
							2	17.2	8.0	32.2	7.3	91.4	6.0	7.6											
					TCE-WQM4	Cloudy	Moderate	10:18	3.7	Surface	1.0	1	17.0	8.0				32.1	7.5	93.8	8.0	3.8	7.5	5.2	4.3
											2	17.0	8.0	32.1				7.5	93.8	8.0	3.4				
Bottom	2.7	1	17.1	8.0	32.2					7.4	93.4	2.4	5.2												
		2	17.1	8.0	32.2					7.4	93.5	2.4	4.8												
TCE-C1	Mid-Flood	Cloudy	Moderate	14:07	8.2					Surface	1.0	1	17.0	8.1	32.7	7.6	95.3	6.2	8.2	7.6	8.2	7.4			
											2	17.0	8.1	32.7	7.6	95.3	6.3	8.4							
Middle						4.1	1	16.9	8.1	32.7	7.5	94.9	8.1	7.5											
							2	16.9	8.1	32.6	7.5	94.9	8.5	7.3											
Bottom						7.2	1	16.9	8.1	32.6	7.6	95.0	10.2	6.8											
							2	16.9	8.1	32.6	7.6	95.1	10.2	6.4											
TCE-C2						Cloudy	Moderate	15:53	14.1	Surface	1.0	1	17.6	8.0	32.5	7.2	91.1	1.5	2.6				7.2	1.7	3.2
												2	17.6	8.0	32.5	7.2	91.0	1.6	2.4						
										Middle	7.1	1	17.5	8.0	32.5	7.2	90.9	1.6	2.9						
												2	17.5	8.0	32.5	7.2	91.0	1.7	3.3						
										Bottom	13.1	1	17.5	7.9	32.5	7.3	92.3	1.9	3.7						
												2	17.5	7.9	32.5	7.3	92.5	1.9	4.0						
TCE-WQM1		Cloudy	Moderate	14:45	8.5	Surface	1.0	1	16.9	8.0	32.1	7.7	96.8	4.2	3.8	7.7	5.7	4.7							
								2	16.8	8.0	32.1	7.7	96.7	4.4	3.5										
						Middle	4.3	1	16.7	8.0	32.1	7.7	96.0	5.4	4.5										
								2	16.7	8.0	32.2	7.7	96.0	5.7	4.9										
						Bottom	7.5	1	16.7	7.9	32.2	7.7	96.1	6.8	5.4										
								2	16.7	7.9	32.2	7.7	96.2	7.5	5.8										
TCE-WQM2a		Cloudy	Moderate	15:15	6.2	Surface	1.0	1	17.4	7.9	32.3	7.4	93.1	3.2	4.9	7.4	3.4	4.3							
								2	17.4	7.9	32.3	7.4	93.1	3.2	5.3										
						Middle	3.1	1	17.4	7.9	32.3	7.4	93.3	3.4	4.1										
								2	17.4	7.9	32.3	7.4	93.4	3.4	4.4										
						Bottom	5.2	1	17.4	7.9	32.3	7.4	93.8	3.6	3.6										
								2	17.4	7.9	32.3	7.4	94.1	3.6	3.2										
TCE-WQM2b	Cloudy	Moderate	15:26	11.8	Surface	1.0	1	17.4	7.9	32.4	7.2	90.8	2.1	3.5	7.2	2.1	4.3								
							2	17.4	7.9	32.4	7.2	90.8	2.1	3.9											
					Middle	5.9	1	17.4	7.9	32.4	7.2	91.1	2.2	4.1											
							2	17.4	7.9	32.4	7.2	91.2	2.2	4.4											
					Bottom	10.8	1	17.4	7.9	32.4	7.3	92.6	2.2	4.9											
							2	17.4	7.9	32.4	7.3	92.7	2.1	4.7											
TCE-WQM3A	Cloudy	Moderate	15:06	4.9	Surface	1.0	1	17.3	7.9	32.1	7.4	93.6	4.2	4.7	7.4	6.7	3.8								
							2	17.3	7.9	32.1	7.4	93.6	4.3	4.4											
					Bottom	3.9	1	17.2	7.9	32.2	7.5	94.3	9.4	3.2											
							2	17.2	7.9	32.2	7.5	94.4	9.0	2.8											
					TCE-WQM4	Cloudy	Moderate	14:55	3.1	Surface	1.0	1	17.1	7.9				32.1	7.6	96.0	3.2	5.8	7.6	3.5	6.3
											2	17.1	7.9	32.1				7.6	96.0	3.3	5.5				
Bottom	2.1	1	17.1	7.9	32.1					7.6	96.2	3.7	6.8												
		2	17.1	7.9	32.1					7.7	96.2	3.8	7.2												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged								
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)						
2023-01-04	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:09	8.0	Surface	1.0	1	17.0	8.0	32.7	7.5	94.0	9.9	6.2	7.4	9.6	10.5						
									2	17.0	8.0	32.7	7.5	93.9	9.9	6.6									
							Middle	4.0	1	17.0	8.0	32.7	7.4	93.7	8.2	9.4									
									2	17.0	8.0	32.7	7.4	93.7	8.9	9.2									
							Bottom	7.0	1	17.0	8.0	32.7	7.4	93.7	10.5	15.7									
									2	17.0	8.0	32.7	7.4	93.8	10.3	16.1									
		TCE-C2	Cloudy	Moderate	10:23	13.7	Surface	1.0	1	17.6	8.0	32.5	7.3	92.3	1.2	3.3	7.2	1.5	3.0						
									2	17.6	8.0	32.5	7.3	92.3	1.2	3.4									
							Middle	6.9	1	17.5	8.0	32.5	7.2	92.0	1.5	2.9									
									2	17.5	8.0	32.5	7.2	91.9	1.5	3.2									
							Bottom	12.7	1	17.4	8.0	32.5	7.3	92.1	1.7	2.7									
									2	17.4	8.0	32.5	7.3	92.2	1.7	2.5									
	TCE-WQM1	Cloudy	Moderate	11:32	8.4	Surface	1.0	1	17.0	8.0	32.3	7.7	96.6	3.8	3.0	7.7	4.0	4.0							
								2	17.0	8.0	32.3	7.7	96.6	3.8	2.7										
						Middle	4.2	1	16.9	8.0	32.4	7.7	96.1	4.0	4.0										
								2	16.9	8.0	32.4	7.7	96.0	4.1	4.2										
						Bottom	7.4	1	16.9	8.0	32.4	7.6	95.5	4.1	4.9										
								2	17.0	8.0	32.3	7.6	95.4	4.1	5.3										
	TCE-WQM2a	Cloudy	Moderate	11:00	7.2	Surface	1.0	1	17.4	8.0	32.5	7.4	93.8	1.8	3.3	7.4	3.1	3.8							
								2	17.4	8.0	32.5	7.4	93.8	1.8	3.0										
						Middle	3.6	1	17.3	8.0	32.5	7.4	93.5	2.1	3.6										
								2	17.3	8.0	32.5	7.4	93.5	2.1	3.9										
						Bottom	6.2	1	17.2	7.9	32.5	7.4	93.4	5.4	4.3										
								2	17.2	7.9	32.5	7.4	93.5	5.5	4.7										
TCE-WQM2b	Cloudy	Moderate	10:49	11.4	Surface	1.0	1	17.4	8.2	32.5	7.5	95.2	1.6	3.2	7.6	1.6	2.9								
							2	17.4	8.2	32.5	7.5	95.3	1.6	3.6											
					Middle	5.7	1	17.3	8.2	32.5	7.6	96.7	1.7	3.0											
							2	17.3	8.2	32.5	7.7	96.9	1.7	2.8											
					Bottom	10.4	1	17.3	8.2	32.5	7.8	99.0	1.7	2.5											
							2	17.3	8.2	32.5	7.8	99.3	1.7	2.4											
TCE-WQM3A	Cloudy	Moderate	11:10	4.5	Surface	1.0	1	17.4	8.0	32.3	7.5	95.3	3.0	4.5	7.5	3.3	3.7								
							2	17.4	8.0	32.3	7.5	95.3	3.1	4.2											
					Bottom	3.5	1	17.4	7.9	32.3	7.5	95.3	3.7	3.3											
							2	17.4	7.9	32.3	7.5	95.3	3.6	2.9											
					TCE-WQM4	Cloudy	Moderate	11:20	3.9	Surface	1.0	1	17.4	8.0				32.3	7.7	97.6	2.9	2.5	7.7	3.3	3.1
											2	17.4	8.0	32.3				7.7	97.6	2.9	2.8				
Bottom	2.9	1	17.3	8.0	32.3					7.7	96.9	3.7	3.3												
		2	17.3	8.0	32.3					7.7	96.9	3.7	3.6												
TCE-C1	Mid-Flood	Cloudy	Moderate	6:20	8.0					Surface	1.0	1	17.0	8.0	32.7	7.5	94.1	11.9	17.0	7.5	12.6	16.1			
											2	17.0	8.0	32.7	7.5	94.1	12.0	16.7							
Middle						4.0	1	17.0	8.0	32.7	7.5	94.1	13.2	16.2											
							2	17.0	8.0	32.7	7.5	94.2	13.4	15.8											
Bottom						7.0	1	17.0	8.0	32.7	7.6	95.2	12.7	15.4											
							2	17.0	8.0	32.7	7.6	95.4	12.2	15.7											
TCE-C2		Cloudy	Moderate	8:11	14.3	Surface	1.0	1	17.4	7.9	32.2	7.2	91.1	1.6	2.6	7.2	2.1	2.2							
								2	17.4	7.9	32.2	7.2	91.1	1.6	2.8										
						Middle	7.2	1	17.4	7.9	32.2	7.2	90.8	2.1	2.4										
								2	17.4	7.9	32.2	7.2	90.8	2.2	2.2										
						Bottom	13.3	1	17.4	7.8	32.1	7.2	91.0	2.5	1.8										
								2	17.4	7.8	32.1	7.2	91.0	2.5	1.6										
TCE-WQM1		Cloudy	Moderate	7:03	8.6	Surface	1.0	1	16.9	8.0	32.3	7.7	96.0	3.8	15.9	7.6	4.3	14.2							
								2	16.9	8.0	32.3	7.7	96.0	3.8	15.5										
						Middle	4.3	1	16.9	8.0	32.3	7.6	95.7	4.1	14.0										
								2	16.9	8.0	32.3	7.6	95.7	4.3	14.5										
						Bottom	7.6	1	16.9	8.0	32.3	7.6	95.6	4.8	12.9										
								2	16.9	8.0	32.3	7.6	95.5	4.8	12.6										
TCE-WQM2a		Cloudy	Moderate	7:36	7.5	Surface	1.0	1	17.3	8.0	32.4	7.3	92.7	2.3	4.1	7.3	2.6	3.3							
								2	17.3	8.0	32.4	7.3	92.7	2.3	3.8										
						Middle	3.8	1	17.3	8.0	32.4	7.4	93.1	2.3	3.5										
								2	17.3	8.0	32.4	7.4	93.1	2.3	3.1										
						Bottom	6.5	1	17.2	8.1	32.5	7.5	94.7	3.3	2.4										
								2	17.2	8.1	32.5	7.5	94.9	3.3	2.6										
TCE-WQM2b	Cloudy	Moderate	7:46	11.7	Surface	1.0	1	17.3	7.9	32.5	7.3	92.5	2.3	1.7	7.3	2.6	2.3								
							2	17.3	7.9	32.5	7.3	92.5	2.3	1.9											
					Middle	5.9	1	17.2	7.9	32.5	7.3	92.2	2.7	2.1											
							2	17.2	7.9	32.5	7.3	92.2	2.7	2.4											
					Bottom	10.7	1	17.2	7.9	32.5	7.3	92.2	2.7	2.8											
							2	17.2	7.9	32.5	7.3	92.2	2.7	2.6											
TCE-WQM3A	Cloudy	Moderate	7:26	4.8	Surface	1.0	1	17.3	8.0	32.3	7.3	92.7	2.5	4.2	7.3	4.3	3.3								
							2	17.3	8.0	32.3	7.3	92.7	2.6	3.8											
					Bottom	3.8	1	17.3	8.0	32.4	7.3	92.2	6.0	2.6											
							2	17.3	8.0	32.4	7.3	92.2	5.9	2.4											
					TCE-WQM4	Cloudy	Moderate	7:15	3.3	Surface	1.0	1	17.3	8.0				32.4	7.5	94.6	2.0	4.4	7.5	2.7	4.3
											2	17.3	8.0	32.4				7.5	94.6	2.0	4.7				
Bottom	2.3	1	17.3	8.0	32.4					7.5	94.6	3.4	4.1												
		2	17.3	8.0	32.4					7.5	94.7	3.5	3.8												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged										
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)								
2023-01-06	Mid-Ebb	TCE-C1	Misty	Moderate	11:22	8.4	Surface	1.0	1	17.4	8.1	32.2	7.8	96.8	5.6	2.4	7.7	6.3	3.9								
									2	17.4	8.1	32.2	7.8	96.8	5.6	2.2											
							Middle	4.2	1	17.4	8.1	32.2	7.7	96.6	6.2	2.7											
									2	17.4	8.1	32.2	7.7	96.6	6.2	3.1											
							Bottom	7.4	1	17.4	8.1	32.2	7.7	96.3	7.1	6.6											
									2	17.4	8.1	32.2	7.7	96.2	7.1	6.3											
		TCE-C2	Misty	Moderate	12:53	14.0	Surface	1.0	1	17.6	8.0	32.5	7.1	90.9	1.0	3.0	7.2	1.7	3.4								
									2	17.6	8.0	32.4	7.1	90.9	1.0	2.9											
							Middle	7.0	1	17.5	8.0	32.5	7.2	91.3	2.0	3.5											
									2	17.5	8.0	32.5	7.2	91.5	2.0	3.2											
							Bottom	13.0	1	17.5	7.9	32.5	7.3	92.3	2.2	3.9											
									2	17.5	7.9	32.5	7.3	92.4	2.2	3.6											
	TCE-WQM1	Misty	Moderate	11:53	9.0	Surface	1.0	1	17.5	8.1	32.4	7.6	95.8	1.6	5.9	7.6	2.4	5.1									
								2	17.5	8.1	32.4	7.6	95.7	1.5	5.6												
						Middle	4.5	1	17.5	8.1	32.4	7.6	95.5	2.3	5.1												
								2	17.5	8.1	32.4	7.6	95.4	2.3	5.3												
						Bottom	8.0	1	17.5	8.1	32.4	7.6	95.1	3.4	4.2												
								2	17.5	8.1	32.4	7.6	95.0	3.4	4.5												
	TCE-WQM2a	Misty	Calm	12:19	8.2	Surface	1.0	1	17.6	8.0	32.5	7.7	97.5	5.6	3.2	7.7	6.7	2.7									
								2	17.6	8.0	32.5	7.7	97.5	5.6	3.0												
						Middle	4.1	1	17.6	8.0	32.4	7.6	97.1	6.5	2.6												
								2	17.6	8.0	32.3	7.6	97.1	6.6	2.9												
						Bottom	7.2	1	17.6	8.0	32.3	7.8	97.2	7.9	2.2												
								2	17.7	8.0	32.3	7.6	97.2	7.9	2.4												
TCE-WQM2b	Misty	Moderate	12:31	12.8	Surface	1.0	1	17.6	8.0	32.4	7.6	97.2	2.2	2.6	7.7	2.6	2.9										
							2	17.6	8.0	32.4	7.6	97.1	2.2	2.4													
					Middle	6.4	1	17.5	8.0	32.4	7.7	96.3	2.4	2.8													
							2	17.5	8.0	32.4	7.7	96.2	2.3	3.0													
					Bottom	11.8	1	17.5	7.9	32.4	7.7	95.9	3.1	3.4													
							2	17.5	7.9	32.4	7.6	95.8	3.1	3.1													
TCE-WQM3A	Misty	Calm	12:12	4.6	Surface	1.0	1	18.0	8.0	32.5	7.6	97.9	3.1	5.6	7.6	3.4	4.9										
							2	18.0	8.0	32.5	7.6	97.8	3.0	6.0													
					Bottom	3.6	1	17.9	8.0	32.5	7.7	96.9	3.7	3.9													
							2	17.9	8.0	32.5	7.7	96.7	3.7	4.1													
					TCE-WQM4	Misty	Calm	12:02	5.2	Surface	1.0	1	17.8	8.0				32.4	7.7	97.4	4.5	6.0	7.7	4.8	6.3		
												2	17.8	8.0				32.4	7.7	97.4	4.5	6.1					
Bottom	4.2	1	17.8	8.0						32.4	7.7	96.7	5.1	6.5													
		2	17.8	8.0						32.4	7.7	96.7	5.1	6.4													
2023-01-06	Mid-Flood	TCE-C1	Misty	Moderate						9:42	8.0	Surface	1.0	1	17.3	8.0	32.3	7.6	94.5	6.2	2.1	7.6				7.3	2.7
														2	17.3	8.0	32.3	7.6	94.4	6.2	2.4						
					Middle	4.0	1	17.3	8.0			32.3	7.5	94.0	7.5	2.6											
							2	17.3	8.0			32.3	7.5	93.9	7.5	2.8											
					Bottom	7.0	1	17.4	8.0			32.3	7.5	93.8	8.1	3.4											
							2	17.4	8.0			32.3	7.5	93.8	8.1	3.0											
		TCE-C2	Misty	Calm	8:02	12.6	Surface	1.0	1	17.5	8.0	32.1	7.3	90.6	2.9	3.0	7.2	4.2	3.4								
									2	17.5	8.0	32.1	7.3	90.5	2.9	3.3											
							Middle	6.3	1	17.5	8.0	32.0	7.2	90.3	4.3	3.2											
									2	17.5	8.0	32.0	7.2	90.3	4.2	2.8											
							Bottom	11.6	1	17.5	8.0	31.8	7.3	90.8	5.6	4.1											
									2	17.5	8.0	31.8	7.3	90.8	5.5	3.7											
	TCE-WQM1	Misty	Moderate	9:08	9.2	Surface	1.0	1	17.5	8.1	32.4	7.7	96.2	6.0	2.9	7.7	7.2	2.6									
								2	17.5	8.1	32.4	7.7	96.2	6.1	3.2												
						Middle	4.6	1	17.4	8.0	32.4	7.7	96.4	7.6	2.6												
								2	17.4	8.0	32.4	7.7	96.4	7.6	2.4												
						Bottom	8.2	1	17.2	8.0	32.6	7.8	96.7	8.0	2.1												
								2	17.2	8.0	32.6	7.8	96.7	8.1	2.2												
	TCE-WQM2a	Misty	Calm	8:38	6.8	Surface	1.0	1	17.5	8.1	32.5	7.7	96.4	2.6	4.2	7.7	3.0	3.9									
								2	17.5	8.1	32.5	7.7	96.4	2.6	4.5												
						Middle	3.4	1	17.4	8.1	32.4	7.7	95.9	2.9	3.8												
								2	17.4	8.1	32.4	7.7	95.9	2.9	4.2												
						Bottom	5.8	1	17.3	8.1	32.5	7.6	95.1	3.7	3.6												
								2	17.3	8.1	32.5	7.6	94.8	3.7	3.3												
TCE-WQM2b	Misty	Calm	8:26	11.6	Surface	1.0	1	17.4	8.1	32.4	7.7	96.0	3.3	2.4	7.7	3.7	3.5										
							2	17.4	8.1	32.4	7.7	96.0	3.3	2.6													
					Middle	5.8	1	17.4	8.1	32.4	7.6	95.3	3.8	3.3													
							2	17.4	8.1	32.4	7.6	95.3	3.8	3.7													
					Bottom	10.6	1	17.4	8.1	32.4	7.6	95.1	3.9	4.2													
							2	17.4	8.1	32.4	7.6	95.1	3.9	4.5													
TCE-WQM3A	Misty	Calm	8:48	5.0	Surface	1.0	1	17.8	8.1	32.5	7.7	96.3	3.0	3.6	7.6	3.3	3.1										
							2	17.8	8.1	32.5	7.6	96.2	2.9	3.2													
					Bottom	4.0	1	17.7	8.1	32.5	7.7	96.2	3.8	2.9													
							2	17.7	8.1	32.5	7.7	96.2	3.7	2.6													
					TCE-WQM4	Misty	Calm	8:57	5.0	Surface	1.0	1	17.6	8.0				32.5	7.6	94.9	2.1	4.9	7.6	2.9	4.0		
												2	17.6	8.0				32.6	7.6	94.7	2.2	4.6					
Bottom	4.0	1	17.5	8.0						32.6	7.5	93.9	3.5	4.0													
		2	17.5	8.0						32.6	7.5	93.9	3.5	4.0													
		2	17.5	8.0						32.5	7.5	93.7	3.6	3.4													

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)										
2023-01-09	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:46	8.6	Surface	1.0	1	17.3	7.9	32.0	7.6	95.9	7.8	4.5	7.6	10.5	5.1										
									2	17.3	7.9	32.0	7.6	95.8	8.0	4.6													
							Middle	4.3	1	17.3	7.9	32.1	7.6	95.8	12.2	5.2													
									2	17.3	7.9	32.1	7.6	95.9	12.3	4.9													
							Bottom	7.6	1	17.3	7.9	32.0	7.7	96.5	11.1	5.8													
									2	17.3	7.9	32.0	7.7	96.6	11.5	5.5													
				7.7																									
				TCE-C2	Cloudy	Moderate	14:24	12.3	Surface	1.0	1	17.5	7.9	32.3	7.2	91.7	1.9	4.5	7.2	2.0	5.3								
									2	17.5	7.9	32.3	7.2	91.6	1.9	4.8													
		Middle	6.2						1	17.5	7.9	32.4	7.2	92.0	1.9	5.2													
									2	17.5	7.9	32.4	7.3	92.1	1.9	5.4													
		Bottom	11.3						1	17.5	7.9	32.4	7.3	92.7	2.1	6.0													
			2						17.6	7.9	32.4	7.3	92.9	2.1	5.7														
			7.3																										
			TCE-WQM1	Cloudy	Moderate	13:19	8.3	Surface	1.0	1	17.4	7.9	32.3	7.6	96.5	4.0	6.4	7.6	4.7	7.3									
								2	17.4	7.9	32.3	7.6	96.5	4.1	6.6														
	Middle	4.2						1	17.4	7.9	32.3	7.6	96.7	4.3	7.4														
								2	17.4	7.9	32.3	7.6	96.8	4.4	7.1														
	Bottom	7.3						1	17.4	7.9	32.3	7.7	97.5	5.6	7.9														
								2	17.4	7.9	32.3	7.7	97.6	5.8	8.1														
			7.7																										
			TCE-WQM2a	Cloudy	Moderate	13:49	7.2	Surface	1.0	1	17.4	7.9	32.2	7.6	96.4	3.2	8.1	7.6	5.5	7.4									
								2	17.4	7.9	32.2	7.6	96.4	3.2	7.8														
	Middle	3.6						1	17.4	7.9	32.2	7.6	96.3	4.8	7.6														
		2						17.4	7.9	32.2	7.6	96.3	4.9	7.2															
Bottom	6.2	1						17.4	7.9	32.2	7.7	97.2	8.0	6.6															
		2						17.5	7.9	32.2	7.7	97.3	9.1	6.9															
		7.7																											
		TCE-WQM2b	Cloudy	Moderate	14:00	10.7	Surface	1.0	1	17.5	7.9	32.1	7.6	96.3	3.1	7.0	7.6	3.1	5.6										
							2	17.5	7.9	32.1	7.6	96.2	3.1	6.7															
Middle	5.4						1	17.5	7.9	32.1	7.6	96.3	3.1	5.3															
							2	17.5	7.9	32.1	7.6	96.3	3.1	5.5															
Bottom	9.7						1	17.5	7.9	32.1	7.7	97.0	3.0	4.6															
							2	17.5	7.9	32.1	7.7	97.1	3.0	4.2															
		7.7																											
		TCE-WQM3A	Cloudy	Moderate	13:39	4.6	Surface	1.0	1	17.5	7.9	32.2	7.6	96.5	6.1	7.3	7.6	8.4	6.4										
							2	17.5	7.9	32.2	7.6	96.5	6.4	6.8															
Bottom	3.6						1	17.5	7.9	32.2	7.7	97.2	10.6	5.9															
							2	17.5	7.9	32.2	7.7	97.3	10.4	5.4															
							7.7																						
							TCE-WQM4	Cloudy	Moderate	13:29	3.5	Surface	1.0	1	17.5	7.9				32.3	7.7	97.5	4.1	5.2	7.7	4.3	5.4		
		2	17.5	7.9	32.3	7.7						97.6	4.1	5.1															
Bottom	2.5	1	17.5	7.9	32.3	7.7						97.9	4.5	5.9															
		2	17.5	7.9	32.3	7.7						98.0	4.5	5.5															
		7.7																											
2023-01-09	Mid-Flood	TCE-C1	Cloudy	Moderate	10:44	8.4	Surface	1.0	1	17.3	7.9	31.9	7.7	96.7	7.5	7.2	7.7	11.8	6.3										
									2	17.3	7.9	31.9	7.7	96.7	7.5	6.9													
							Middle	4.2	1	17.3	7.9	32.1	7.7	96.8	13.8	6.4													
									2	17.3	7.9	32.1	7.7	96.9	13.8	6.0													
							Bottom	7.4	1	17.4	7.9	32.1	7.7	97.6	14.3	5.7													
									2	17.4	7.9	32.1	7.7	97.7	14.3	5.4													
									7.7																				
									TCE-C2	Cloudy	Moderate	8:52	13.4	Surface	1.0	1				17.5	7.6	31.8	7.5	94.6	3.9	5.3	7.5	4.3	4.9
														2	17.5	7.6				31.8	7.5	94.6	3.9	5.6					
							Middle	6.7						1	17.5	7.5				31.8	7.5	94.3	4.3	5.0					
														2	17.5	7.5				31.8	7.5	94.3	4.5	4.8					
							Bottom	12.4						1	17.5	7.4				31.6	7.5	94.9	4.8	4.3					
				2	17.5	7.4	31.6	7.5						94.9	4.8	4.5													
				7.5																									
				TCE-WQM1	Cloudy	Moderate	10:05	7.7	Surface	1.0	1	17.5	7.9	32.3	7.6	96.7	3.5	4.8	7.6	4.0	6.4								
									2	17.5	7.9	32.3	7.6	96.7	3.5	5.2													
		Middle	3.9						1	17.5	7.9	32.3	7.7	96.9	3.6	6.6													
									2	17.5	7.9	32.3	7.7	97.0	3.6	6.4													
		Bottom	6.7						1	17.5	7.9	32.2	7.7	97.7	4.9	7.4													
									2	17.5	7.9	32.2	7.7	97.9	5.0	7.8													
				7.7																									
				TCE-WQM2a	Cloudy	Moderate	9:35	6.6	Surface	1.0	1	17.4	7.8	32.0	7.6	96.1	3.3	3.0	7.6	4.7	3.8								
									2	17.4	7.8	32.0	7.6	96.1	3.3	3.4													
		Middle	3.3						1	17.4	7.8	32.0	7.6	95.5	4.2	3.9													
			2						17.4	7.8	32.0	7.6	95.5	4.3	3.6														
	Bottom	5.6	1						17.4	7.8	32.0	7.6	96.4	6.5	4.6														
			2						17.4	7.8	32.0	7.6	96.6	6.8	4.2														
			7.6																										
			TCE-WQM2b	Cloudy	Moderate	9:25	11.4	Surface	1.0	1	17.4	7.8	32.0	7.6	95.7	5.6	3.7	7.6	7.8	4.8									
								2	17.4	7.8	32.0	7.6	95.7	6.0	3.9														
	Middle	5.7						1	17.4	7.8	32.0	7.6	96.3	9.7	5.0														
								2	17.4	7.8	32.0	7.6	96.4	9.7	4.6														
	Bottom	10.4						1	17.4	7.8	32.0	7.7	97.1	7.8	5.9														
								2	17.4	7.8	32.0	7.7	97.2	7.7	5.6														
			7.7																										
			TCE-WQM3A	Cloudy	Moderate	9:45	4.0	Surface	1.0	1	17.4	7.8	32.2	7.6	96.2	5.2	4.8	7.6	5.6	5.0									
								2	17.4	7.8	32.2	7.6	96.3	5.2	4.5														
	Bottom	3.0						1	17.4	7.8	32.2	7.6	96.5	6.0	5.6														
								2	17.4	7.8	32.2	7.6	96.6	6.0	5.2														
								7.6																					
								TCE-WQM4	Cloudy	Moderate	9:54	3.7	Surface	1.0	1	17.5	7.9				32.3	7.8	99.0	5.1	6.5	7.8	5.3	5.5	
			2	17.5	7.9	32.3	7.8						99.2	5.2	6.3														
	Bottom	2.7	1	17.5	7.9	32.3	7.9						99.6	5.4	4.5														
			2	17.5	7.9	32.3	7.9						99.6	5.4	4.5														
			7.9																										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged								
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)						
2023-01-11	Mid-Ebb	TCE-C1	Cloudy	Rough	14:00	8.2	Surface	1.0	1	17.4	8.0	32.1	7.5	94.6	9.4	17.0	7.5	10.1	12.6						
									2	17.4	8.0	32.1	7.5	94.6	9.2	16.6									
							Middle	4.1	1	17.4	8.0	32.1	7.5	94.4	10.3	13.5									
									2	17.4	8.0	32.1	7.5	94.4	10.5	13.2									
							Bottom	7.2	1	17.3	8.0	32.1	7.5	94.5	10.6	7.9									
									2	17.3	8.0	32.1	7.5	94.5	10.6	7.3									
		TCE-C2	Cloudy	Moderate	16:02	13.6	Surface	1.0	1	17.6	7.9	32.3	7.0	89.4	2.0	2.6	7.0	2.3	3.0						
									2	17.5	7.9	32.3	7.0	89.3	2.0	2.4									
							Middle	6.8	1	17.5	7.9	32.3	7.0	89.4	2.3	3.0									
									2	17.5	7.9	32.3	7.1	89.5	2.4	2.7									
							Bottom	12.6	1	17.5	7.9	32.3	7.3	92.2	2.6	3.7									
									2	17.5	7.9	32.3	7.3	92.5	2.5	3.4									
	TCE-WQM1	Cloudy	Moderate	14:55	8.8	Surface	1.0	1	17.5	7.9	31.9	7.4	93.7	5.9	3.6	7.4	5.4	4.4							
								2	17.5	7.9	31.9	7.4	93.7	5.9	3.9										
						Middle	4.4	1	17.5	7.9	31.9	7.4	93.7	5.9	4.2										
								2	17.5	7.9	31.9	7.4	93.7	5.9	4.5										
						Bottom	7.8	1	17.5	7.9	31.9	7.4	93.8	4.4	5.0										
								2	17.5	7.9	31.9	7.4	93.8	4.4	5.1										
	TCE-WQM2a	Cloudy	Moderate	15:25	7.3	Surface	1.0	1	17.5	7.9	31.9	7.6	95.6	9.3	3.1	7.6	9.2	3.7							
								2	17.5	7.9	31.9	7.6	95.6	9.3	3.3										
						Middle	3.7	1	17.5	7.9	31.9	7.6	96.0	7.7	3.6										
								2	17.5	7.9	31.9	7.6	96.0	7.1	3.8										
						Bottom	6.3	1	17.5	7.9	31.9	7.6	96.3	10.9	4.3										
								2	17.5	7.9	31.8	7.6	96.4	10.9	4.0										
TCE-WQM2b	Cloudy	Moderate	15:36	10.6	Surface	1.0	1	17.5	8.0	31.9	7.5	95.1	4.4	4.5	7.5	7.6	4.3								
							2	17.5	8.0	31.9	7.5	95.2	4.4	4.8											
					Middle	5.3	1	17.5	8.0	31.9	7.5	95.4	4.5	4.5											
							2	17.5	8.0	31.9	7.5	95.5	4.6	4.2											
					Bottom	9.6	1	17.5	8.0	31.9	7.6	95.9	13.9	3.9											
							2	17.4	8.0	32.0	7.6	96.2	13.8	4.1											
TCE-WQM3A	Cloudy	Moderate	15:15	4.8	Surface	1.0	1	17.5	8.0	31.9	7.5	95.3	6.7	6.3	7.5	8.3	5.4								
							2	17.5	8.0	31.9	7.5	95.4	7.1	5.9											
					Bottom	3.8	1	17.5	8.0	31.8	7.6	96.6	10.0	4.8											
							2	17.5	8.0	31.8	7.6	96.7	9.6	4.5											
					TCE-WQM4	Cloudy	Moderate	15:05	3.5	Surface	1.0	1	17.5	8.0				31.9	7.7	97.2	4.5	6.0	7.7	4.6	5.6
											2	17.5	8.0	31.9				7.7	97.6	4.5	6.3				
		1	17.3	8.1	32.0	7.8	98.7	4.6	5.2	7.8															
		2	17.2	8.1	32.1	7.9	99.0	4.6	4.8																
2023-01-11	Mid-Flood	TCE-C1	Cloudy	Moderate	11:51	8.6	Surface	1.0	1	17.4	8.0	32.1	7.5	95.2	9.8	6.9	7.5	10.0	6.0						
									2	17.4	8.0	32.1	7.5	95.2	9.1	6.5									
							Middle	4.3	1	17.4	8.0	32.1	7.6	95.6	8.7	5.8									
									2	17.4	8.0	32.1	7.6	95.6	8.7	6.1									
							Bottom	7.6	1	17.5	8.0	32.0	7.6	96.0	11.6	5.6									
									2	17.5	8.0	32.0	7.6	96.4	11.9	5.3									
		TCE-C2	Cloudy	Moderate	9:57	13.4	Surface	1.0	1	17.5	7.9	31.6	7.4	93.0	2.8	3.4	7.4	3.2	4.1						
									2	17.5	7.9	31.6	7.4	93.0	2.8	3.6									
							Middle	6.7	1	17.5	7.9	31.6	7.4	92.8	3.3	4.2									
									2	17.5	7.9	31.6	7.4	92.8	3.4	3.9									
							Bottom	12.4	1	17.5	7.8	31.5	7.4	93.2	3.5	4.5									
									2	17.5	7.8	31.4	7.4	93.4	3.5	4.8									
	TCE-WQM1	Cloudy	Moderate	11:01	8.8	Surface	1.0	1	17.5	8.0	31.9	7.5	94.9	5.1	4.1	7.5	7.2	5.0							
								2	17.5	8.0	31.9	7.5	94.9	5.2	4.6										
						Middle	4.4	1	17.4	8.0	32.0	7.5	94.9	5.9	4.8										
								2	17.4	8.0	32.0	7.5	94.9	6.1	5.0										
						Bottom	7.8	1	17.4	8.0	32.0	7.5	95.3	10.5	5.8										
								2	17.4	8.0	32.0	7.6	95.4	10.1	5.5										
	TCE-WQM2a	Cloudy	Moderate	10:32	6.6	Surface	1.0	1	17.4	8.0	31.8	7.5	95.1	4.0	5.2	7.5	5.4	4.6							
								2	17.4	8.0	31.8	7.5	95.1	4.0	5.4										
						Middle	3.3	1	17.4	8.0	31.9	7.5	95.1	5.4	4.8										
								2	17.4	8.0	31.9	7.5	95.1	5.5	4.4										
						Bottom	5.6	1	17.4	8.0	31.9	7.6	96.1	6.5	3.6										
								2	17.4	8.0	31.9	7.6	96.5	6.8	4.0										
TCE-WQM2b	Cloudy	Moderate	10:20	11.1	Surface	1.0	1	17.4	7.9	31.9	7.5	94.2	7.4	7.3	7.5	8.5	7.7								
							2	17.4	7.9	31.9	7.5	94.2	7.1	7.4											
					Middle	5.6	1	17.4	7.9	31.9	7.5	94.2	7.8	7.8											
							2	17.4	7.9	31.9	7.5	94.3	7.9	7.6											
					Bottom	10.1	1	17.3	8.0	31.9	7.8	97.7	10.4	8.2											
							2	17.2	8.0	31.9	7.8	97.9	10.6	8.1											
TCE-WQM3A	Cloudy	Moderate	10:42	4.5	Surface	1.0	1	17.4	8.0	31.9	7.5	94.4	6.6	3.5	7.5	10.0	5.6								
							2	17.4	8.0	31.9	7.5	94.5	6.8	3.7											
					Bottom	3.5	1	17.4	8.0	31.8	7.5	94.7	13.3	7.3											
							2	17.4	8.0	31.8	7.5	94.8	13.1	7.7											
					TCE-WQM4	Cloudy	Moderate	10:51	3.3	Surface	1.0	1	17.4	8.0				31.9	7.5	95.1	5.2	5.3	7.5	5.7	5.7
											2	17.4	8.0	31.9				7.5	95.2	5.3	5.6				
		1	17.4	8.0	32.0	7.6	96.1	6.0	5.8	7.7															
		2	17.4	8.0	32.0	7.8	98.0	6.3	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)								
2023-01-13	Mid-Ebb	TCE-C1	Rainy	Moderate	15:34	8.2	Surface	1.0	1	18.2	8.0	32.1	7.5	95.7	6.1	2.4	7.5	7.3	4.0								
									2	18.2	8.0	32.1	7.5	95.7	6.2	2.7											
							Middle	4.1	1	18.2	8.0	32.1	7.5	95.7	7.4	4.2											
									2	18.2	8.0	32.1	7.5	95.6	7.5	4.0											
							Bottom	7.2	1	18.2	8.0	32.1	7.4	95.6	8.3	5.2											
									2	18.2	8.0	32.1	7.4	95.5	8.4	5.6											
		TCE-C2	Rainy	Moderate	17:07	13.8	Surface	1.0	1	17.7	8.0	32.2	7.2	91.6	1.4	3.4	7.2	2.3	4.2								
									2	17.7	8.0	32.2	7.2	91.8	1.5	3.7											
							Middle	6.9	1	17.7	8.0	32.2	7.3	92.3	2.5	4.4											
									2	17.7	8.0	32.2	7.3	92.6	2.4	4.0											
							Bottom	12.8	1	17.7	8.0	32.2	7.3	93.3	3.1	5.0											
									2	17.7	8.0	32.2	7.4	93.6	3.2	4.8											
	TCE-WQM1	Rainy	Moderate	16:02	9.2	Surface	1.0	1	18.3	8.0	31.9	7.4	95.7	3.7	2.2	7.5	4.5	2.9									
								2	18.3	8.0	31.7	7.5	95.8	3.6	2.4												
						Middle	4.6	1	18.3	8.0	31.9	7.6	97.6	4.3	2.7												
								2	18.3	8.0	31.9	7.6	97.8	4.3	3.1												
						Bottom	8.2	1	18.3	7.9	31.8	7.6	98.0	5.7	3.6												
								2	18.4	7.9	31.8	7.6	97.0	5.7	3.4												
	TCE-WQM2a	Rainy	Calm	16:32	8.0	Surface	1.0	1	17.8	8.0	31.8	7.5	95.4	4.4	2.3	7.5	5.4	2.7									
								2	17.8	8.0	31.8	7.5	95.4	4.4	2.0												
						Middle	4.0	1	17.8	8.0	31.8	7.5	95.4	5.1	2.6												
								2	17.8	8.0	31.8	7.5	95.4	5.2	2.9												
						Bottom	7.0	1	17.8	8.0	31.8	7.5	95.4	6.7	3.2												
								2	17.8	8.0	31.8	7.5	95.4	6.7	3.1												
TCE-WQM2b	Rainy	Moderate	16:43	12.8	Surface	1.0	1	17.7	8.0	31.8	7.5	95.1	1.3	3.9	7.5	2.5	3.0										
							2	17.7	8.0	31.8	7.5	95.1	1.3	3.5													
					Middle	6.4	1	17.8	8.0	31.8	7.5	95.2	2.1	2.7													
							2	17.8	8.0	31.8	7.5	95.2	2.2	3.1													
					Bottom	11.8	1	17.8	8.0	31.8	7.5	95.5	4.0	2.5													
							2	17.8	8.0	31.8	7.5	95.5	4.0	2.2													
TCE-WQM3A	Rainy	Calm	16:23	5.2	Surface	1.0	1	17.9	8.0	31.9	7.4	94.7	6.4	4.2	7.4	7.0	3.3										
							2	17.9	8.0	31.9	7.4	94.7	6.4	4.3													
					Bottom	4.2	1	17.9	8.0	32.0	7.4	94.9	7.6	2.6													
							2	17.9	8.0	31.9	7.4	94.9	7.7	2.2													
					TCE-WQM4	Rainy	Calm	16:13	4.2	Surface	1.0	1	18.0	8.0				31.8	7.5	95.8	6.6	2.7	7.5	6.8	3.0		
											2	18.0	8.0	31.8				7.5	95.8	6.6	2.9						
					Bottom	3.2	1	18.0	8.0	31.6	7.5	95.7	7.0	3.3	7.5												
						2	18.0	8.0	31.1	7.5	95.8	7.1	3.1														
2023-01-13	Mid-Flood	TCE-C1	Rainy	Moderate	12:33	8.0	Surface	1.0	1	18.1	8.0	32.1	7.4	95.4	6.4	5.3	7.4	7.3	6.2								
									2	18.1	8.0	32.1	7.4	95.3	6.5	5.6											
							Middle	4.0	1	18.1	8.0	32.1	7.4	95.2	7.1	6.0											
									2	18.1	8.0	32.1	7.4	95.2	7.2	6.5											
							Bottom	7.0	1	18.1	8.0	32.1	7.4	95.2	8.3	6.7											
									2	18.1	8.0	32.1	7.4	95.1	8.4	7.1											
							TCE-C2	Rainy	Calm	10:54	12.4	Surface	1.0	1	17.7	8.0				31.7	7.4	94.2	1.0	2.2	7.4	1.6	2.9
														2	17.7	8.0				31.7	7.4	94.3	1.1	2.5			
												Middle	6.2	1	17.7	8.0				31.7	7.5	94.6	1.6	3.0			
														2	17.7	8.0				31.7	7.5	94.7	1.5	2.8			
												Bottom	11.4	1	17.7	8.0				31.7	7.5	95.1	2.4	3.6			
														2	17.7	8.0				31.7	7.5	95.6	2.3	3.3			
		TCE-WQM1	Rainy	Moderate	11:58	9.2	Surface	1.0	1	18.2	8.0	31.9	7.5	96.1	4.1	5.0	7.5	5.3	5.4								
									2	18.1	8.0	31.9	7.5	96.1	4.2	4.6											
							Middle	4.6	1	18.1	8.0	31.9	7.5	96.1	5.0	5.2											
									2	18.1	8.0	31.9	7.5	96.1	5.1	5.5											
							Bottom	8.2	1	18.1	7.9	31.9	7.5	96.1	6.8	5.8											
									2	18.1	7.9	31.9	7.5	95.8	6.9	6.2											
		TCE-WQM2a	Rainy	Calm	11:28	7.0	Surface	1.0	1	17.7	8.0	31.8	7.5	95.6	1.0	5.8	7.5	2.6	5.6								
									2	17.7	8.0	31.8	7.5	95.6	1.0	6.1											
							Middle	3.5	1	17.7	8.0	31.8	7.5	95.7	3.0	5.5											
									2	17.7	8.0	31.8	7.5	95.7	3.0	5.7											
							Bottom	6.0	1	17.7	8.0	31.8	7.5	95.9	3.9	5.0											
									2	17.7	8.0	31.8	7.6	95.9	3.9	5.2											
	TCE-WQM2b	Rainy	Calm	11:17	11.2	Surface	1.0	1	17.7	8.0	31.7	7.5	95.6	2.0	4.3	7.5	3.0	5.2									
								2	17.7	8.0	31.7	7.5	95.7	2.1	4.7												
						Middle	5.6	1	17.7	8.0	31.7	7.6	95.8	3.1	5.3												
								2	17.7	8.0	31.7	7.6	95.9	3.2	5.0												
						Bottom	10.2	1	17.7	8.0	31.7	7.6	96.2	3.8	5.6												
								2	17.7	8.0	31.7	7.6	96.5	3.7	6.0												
	TCE-WQM3A	Rainy	Calm	11:38	4.8	Surface	1.0	1	17.9	8.0	31.9	7.5	95.3	5.4	5.9	7.5	6.0	5.7									
								2	17.9	8.0	31.9	7.5	95.3	5.5	6.1												
						Bottom	3.8	1	17.9	8.0	31.9	7.5	95.8	6.7	5.3												
								2	17.9	8.0	31.9	7.5	95.9	6.6	5.6												
						TCE-WQM4	Rainy	Calm	11:46	4.8	Surface	1.0	1	17.9	8.0				31.9	7.5	96.0	5.1	7.6	7.5	5.7	6.9	
												2	17.9	8.0	31.9				7.5	96.0	5.1	7.3					
						Bottom	3.8	1	17.9	7.9	31.9	7.5	96.2	6.3	6.2	7.5											
							2	17.9	7.9	31.8	7.5	96.3	6.3	6.3													

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)						
2023-01-16	Mid-Ebb	TCE-C1	Fine	Rough	7:34	8.2	Surface	1.0	1	17.4	8.1	30.6	7.6	94.8	6.1	7.8	7.6	8.1	7.3						
									2	17.4	8.1	30.6	7.6	94.8	6.2	7.5									
							Middle	4.1	1	17.3	8.1	30.7	7.6	94.6	8.0	7.2									
									2	17.3	8.1	30.7	7.6	94.6	8.0	7.4									
							Bottom	7.2	1	17.9	8.1	31.1	7.3	93.1	10.1	7.0									
									2	17.9	8.1	31.1	7.3	93.1	10.1	6.7									
		TCE-C2	Fine	Rough	5:17	11.6	Surface	1.0	1	17.4	8.0	31.8	7.1	89.8	3.5	1.6	7.1	5.3	2.3						
									2	17.4	8.0	31.8	7.1	89.8	3.5	1.9									
							Middle	5.8	1	17.5	8.0	31.8	7.1	89.5	4.2	2.4									
									2	17.5	8.0	31.8	7.1	89.5	4.2	2.2									
							Bottom	10.6	1	17.5	7.9	31.8	7.0	89.1	8.3	2.9									
									2	17.5	7.9	31.8	7.0	89.1	8.3	2.6									
	TCE-WQM1	Fine	Rough	6:41	8.4	Surface	1.0	1	17.9	8.1	31.4	7.4	93.8	4.6	3.9	7.4	5.1	4.7							
								2	17.9	8.1	31.4	7.4	93.8	4.6	4.3										
						Middle	4.2	1	17.9	8.1	31.4	7.4	93.7	4.8	4.4										
								2	17.9	8.1	31.4	7.4	93.7	4.9	4.8										
						Bottom	7.4	1	17.9	8.0	31.4	7.4	93.7	5.8	5.2										
								2	17.9	8.0	31.4	7.4	93.7	5.8	5.4										
	TCE-WQM2a	Fine	Rough	6:01	6.8	Surface	1.0	1	17.6	8.0	31.1	7.5	94.8	4.9	1.3	7.4	4.7	1.9							
								2	17.6	8.0	31.1	7.5	94.8	4.9	1.5										
						Middle	3.4	1	17.6	8.0	31.3	7.4	93.3	3.5	1.8										
								2	17.6	8.0	31.2	7.4	93.4	3.6	1.9										
						Bottom	5.8	1	17.7	8.0	31.6	7.1	90.0	5.7	2.3										
								2	17.7	8.0	31.6	7.1	90.0	5.7	2.5										
TCE-WQM2b	Fine	Rough	5:45	9.2	Surface	1.0	1	17.2	8.1	31.5	7.4	92.6	3.9	6.8	7.3	3.2	5.5								
							2	17.2	8.1	31.5	7.4	92.6	4.0	6.4											
					Middle	4.6	1	17.4	8.1	31.6	7.3	91.8	3.0	5.1											
							2	17.4	8.1	31.6	7.3	91.8	3.0	5.4											
					Bottom	8.2	1	17.7	8.1	31.9	7.0	89.0	2.6	4.4											
							2	17.7	8.1	31.9	7.0	89.1	2.6	4.7											
TCE-WQM3A	Fine	Moderate	6:12	4.7	Surface	1.0	1	17.2	8.1	30.6	7.5	94.2	5.2	4.7	7.5	6.3	4.9								
							2	17.2	8.1	30.6	7.5	94.2	5.2	4.7											
					Bottom	3.7	1	17.3	8.1	30.6	7.5	94.0	7.3	5.1											
							2	17.3	8.1	30.6	7.5	94.1	7.3	5.4											
					TCE-WQM4	Fine	Moderate	6:26	3.9	Surface	1.0	1	17.5	8.0				31.1	7.5	95.1	2.9	5.0	7.5	3.4	4.9
											2	17.5	8.0	31.1				7.5	95.1	3.0	5.3				
Bottom	2.9	1	17.6	8.1	31.1					7.5	94.8	3.9	4.4												
		2	17.6	8.1	31.1					7.5	94.8	3.8	4.8												
TCE-WQM2b	Fine	Rough	5:45	9.2	Surface					1.0	1	17.9	8.1	31.4	7.5	95.0	4.9	5.0	7.5	4.7	6.0				
										2	17.9	8.1	31.4	7.5	95.1	4.9	5.3								
Middle					4.4	1	17.9	8.2	31.4	7.6	96.2	4.9	6.3												
						2	17.9	8.2	31.4	7.6	96.3	4.9	5.8												
Bottom					7.8	1	17.9	8.1	31.4	7.4	93.9	4.2	7.0												
						2	17.9	8.1	31.4	7.4	93.9	4.2	6.6												
2023-01-16	Mid-Flood	TCE-C1	Cloudy	Rough	11:55	8.8	Surface	1.0	1	17.9	8.1	31.4	7.5	95.0	4.9	5.0	7.5	4.7	6.0						
									2	17.9	8.1	31.4	7.5	95.1	4.9	5.3									
							Middle	4.4	1	17.9	8.2	31.4	7.6	96.2	4.9	6.3									
									2	17.9	8.2	31.4	7.6	96.3	4.9	5.8									
							Bottom	7.8	1	17.9	8.1	31.4	7.4	93.9	4.2	7.0									
									2	17.9	8.1	31.4	7.4	93.9	4.2	6.6									
		TCE-C2	Cloudy	Rough	14:21	12.5	Surface	1.0	1	17.6	8.0	32.2	6.9	87.9	2.8	1.6	6.9	3.8	2.1						
									2	17.6	8.0	32.2	6.9	87.9	2.8	1.9									
							Middle	6.3	1	17.6	8.0	32.2	6.9	87.8	3.3	2.2									
									2	17.6	8.0	32.2	6.9	87.8	3.3	2.0									
							Bottom	11.5	1	17.6	8.1	32.2	6.9	87.6	5.3	2.7									
									2	17.6	8.1	32.2	6.9	87.6	5.3	2.4									
	TCE-WQM1	Cloudy	Rough	12:49	9.6	Surface	1.0	1	17.9	8.0	31.4	7.4	94.2	4.8	7.1	7.4	4.6	6.2							
								2	17.9	8.0	31.4	7.4	94.2	4.7	6.8										
						Middle	4.8	1	17.9	8.1	31.4	7.4	94.1	4.6	6.3										
								2	17.9	8.1	31.4	7.4	94.1	4.7	5.9										
						Bottom	8.6	1	17.9	8.1	31.4	7.4	94.4	4.5	5.6										
								2	17.9	8.1	31.4	7.4	94.4	4.5	5.2										
	TCE-WQM2a	Cloudy	Rough	13:36	7.1	Surface	1.0	1	17.5	8.0	31.1	7.5	94.9	2.8	6.1	7.5	4.8	7.0							
								2	17.5	8.0	31.1	7.5	94.9	2.8	6.3										
						Middle	3.6	1	17.5	8.0	31.3	7.4	93.5	4.4	6.8										
								2	17.5	8.0	31.3	7.4	93.5	4.4	7.1										
						Bottom	6.1	1	17.6	7.8	31.6	7.2	91.7	7.1	7.5										
								2	17.6	7.8	31.5	7.2	91.7	7.1	7.9										
TCE-WQM2b	Cloudy	Rough	13:52	10.3	Surface	1.0	1	17.4	8.0	31.8	7.2	91.4	3.9	1.2	7.2	4.1	1.8								
							2	17.4	8.0	31.8	7.2	91.4	3.9	1.4											
					Middle	5.2	1	17.5	8.0	31.8	7.2	90.6	3.6	1.8											
							2	17.5	8.0	31.8	7.2	90.7	3.6	1.8											
					Bottom	9.3	1	17.5	8.0	31.9	7.1	89.5	4.7	2.1											
							2	17.5	8.0	31.9	7.1	89.5	4.7	2.3											
TCE-WQM3A	Cloudy	Moderate	13:19	5.3	Surface	1.0	1	17.2	7.8	30.7	7.6	94.5	3.5	9.7	7.6	3.6	7.5								
							2	17.2	7.8	30.7	7.6	94.6	3.4	9.3											
					Bottom	4.3	1	17.2	7.9	30.6	7.5	94.2	3.7	5.7											
							2	17.2	7.9	30.6	7.5	94.2	3.7	5.4											
					TCE-WQM4	Cloudy	Rough	13:04	4.4	Surface	1.0	1	17.4	7.7				31.0	7.5	94.7	6.4	2.8	7.5	5.9	3.6
											2	17.4	7.7	31.0				7.5	94.6	6.5	3.0				
Bottom	3.4	1	17.5	7.8	31.1					7.5	94.5	5.3	4.0												
		2	17.5	7.8	31.1					7.5	94.5	5.3	4.0												
		2	17.5	7.8	31.0					7.5	94.5	5.4	4.5												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged								
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)						
2023-01-18	Mid-Ebb	TCE-C1	Misty	Moderate	11:30	8.2	Surface	1.0	1	16.2	8.0	31.9	8.0	98.6	2.1	3.5	8.0	3.1	4.7						
									2	16.2	8.0	31.9	8.0	98.8	2.1	3.9									
							Middle	4.1	1	16.1	8.0	31.9	8.0	98.9	3.1	4.2									
									2	16.1	8.0	31.9	8.1	99.2	3.1	4.7									
							Bottom	7.2	1	16.1	8.0	31.9	8.1	99.4	4.1	5.7									
									2	16.4	8.0	31.2	7.9	97.2	4.1	6.0									
		TCE-C2	Misty	Calm	9:47	12.6	Surface	1.0	1	16.8	8.0	31.6	7.6	94.5	1.1	6.0	7.8	1.8	5.6						
									2	16.8	8.0	31.5	7.6	94.6	1.1	6.4									
							Middle	6.3	1	16.8	8.0	31.5	7.9	98.4	2.1	5.4									
									2	16.8	8.1	31.5	8.0	98.9	2.1	5.8									
							Bottom	11.6	1	16.7	8.1	31.3	8.2	100.8	2.2	5.1									
									2	16.7	8.1	31.2	8.2	101.1	2.2	4.9									
	TCE-WQM1	Misty	Moderate	10:54	9.2	Surface	1.0	1	16.4	8.0	31.2	8.0	98.0	2.9	4.0	8.2	3.3	4.5							
								2	16.4	8.0	31.2	8.2	100.5	2.9	3.7										
						Middle	4.6	1	16.4	8.0	31.2	8.3	101.5	3.0	4.3										
								2	16.4	8.1	31.2	8.4	102.0	3.0	4.7										
						Bottom	8.2	1	16.4	8.1	31.1	8.4	102.8	4.1	5.0										
								2	16.4	8.1	31.1	8.5	103.6	4.1	5.2										
	TCE-WQM2a	Misty	Calm	10:24	7.2	Surface	1.0	1	16.6	8.0	31.8	7.8	97.0	1.3	2.2	8.0	2.3	3.2							
								2	16.6	8.0	31.8	7.8	97.0	1.3	2.5										
						Middle	3.6	1	16.6	8.0	31.8	8.1	100.7	2.5	3.0										
								2	16.6	8.1	31.8	8.3	101.3	2.4	3.4										
						Bottom	6.2	1	16.6	8.1	31.7	8.3	102.3	3.2	4.2										
								2	16.6	8.1	31.7	8.4	103.4	3.2	3.8										
TCE-WQM2b	Misty	Calm	10:14	11.0	Surface	1.0	1	16.7	8.0	32.0	7.8	96.5	1.1	3.7	7.9	1.2	3.1								
							2	16.7	8.0	32.0	7.8	96.7	1.1	3.4											
					Middle	5.5	1	16.7	8.0	32.0	8.1	100.2	1.1	3.0											
							2	16.7	8.0	32.0	8.1	100.7	1.1	3.2											
					Bottom	10.0	1	16.7	8.1	31.9	8.2	101.6	1.3	2.7											
							2	16.7	8.0	31.9	8.3	102.5	1.4	2.5											
TCE-WQM3A	Misty	Moderate	10:34	5.0	Surface	1.0	1	16.4	8.0	31.5	8.2	100.8	4.1	3.6	8.2	4.6	4.1								
							2	16.4	8.0	31.5	8.2	101.5	4.3	3.3											
					Bottom	4.0	1	16.4	8.1	31.5	8.4	102.9	5.0	4.9											
							2	16.4	8.0	31.5	8.4	103.4	5.0	4.7											
					TCE-WQM4	Misty	Moderate	10:43	4.8	Surface	1.0	1	16.5	8.1				31.5	8.1	100.7	2.1	4.1	8.2	2.6	4.6
											2	16.4	8.1	31.5				8.2	101.1	2.1	3.8				
Bottom	3.8	1	16.4	8.1	31.5					8.4	102.6	3.1	5.4												
		2	16.4	8.1	31.5					8.6	103.8	3.1	5.0												
TCE-C1	Misty	Moderate	13:30	8.2	Surface					1.0	1	16.1	7.9	31.9	7.9	97.5	2.1	5.2	8.0	3.1	4.2				
										2	16.1	8.0	31.9	7.9	97.5	2.1	4.7								
Middle					4.1	1	16.1	8.0	31.9	8.0	97.6	3.1	4.0												
						2	16.1	8.0	31.9	8.1	97.6	3.1	4.4												
Bottom					7.2	1	16.2	8.0	31.9	7.9	97.8	4.1	3.1												
						2	16.2	8.0	31.9	7.9	98.0	4.1	3.6												
TCE-C2	Misty	Moderate	15:33	12.8	Surface	1.0	1	16.9	8.1	32.2	7.7	97.0	1.1	3.6	7.8	1.8	2.9								
							2	16.9	8.1	32.2	7.8	97.5	1.1	3.3											
					Middle	6.4	1	16.9	8.1	32.2	7.8	98.2	1.5	2.7											
							2	16.9	8.1	32.1	7.9	98.5	1.6	3.1											
					Bottom	11.8	1	16.9	8.0	32.1	7.9	99.1	2.7	2.2											
							2	16.9	8.0	32.1	8.0	99.5	2.7	2.4											
TCE-WQM1	Misty	Moderate	14:06	9.0	Surface	1.0	1	16.5	8.0	31.2	7.9	98.1	1.1	3.6	8.1	2.3	4.2								
							2	16.5	8.0	31.2	8.0	98.5	1.1	3.5											
					Middle	4.5	1	16.5	8.0	31.2	8.2	101.2	2.5	4.4											
							2	16.5	8.0	31.2	8.2	101.7	2.5	4.0											
					Bottom	8.0	1	16.5	8.0	31.2	8.3	102.8	3.5	4.8											
							2	16.5	8.0	31.1	8.4	103.7	3.4	4.6											
TCE-WQM2a	Misty	Calm	14:41	8.4	Surface	1.0	1	16.7	8.0	31.8	8.2	102.2	1.3	2.4	8.3	1.5	3.2								
							2	16.7	8.0	31.8	8.2	102.2	1.3	2.7											
					Middle	4.2	1	16.6	8.0	31.8	8.3	103.3	1.5	3.5											
							2	16.6	8.1	31.8	8.3	103.7	1.4	3.1											
					Bottom	7.4	1	16.5	8.1	31.7	8.4	104.6	1.8	3.9											
							2	16.6	8.1	31.7	8.5	105.1	1.7	3.6											
TCE-WQM2b	Misty	Moderate	15:11	12.2	Surface	1.0	1	16.8	8.0	31.8	8.1	101.6	1.2	4.7	8.1	2.3	3.6								
							2	16.9	8.1	31.5	8.2	102.8	1.1	4.3											
					Middle	6.1	1	17.1	8.1	32.2	8.0	100.1	2.5	3.3											
							2	17.1	8.1	32.2	8.0	100.5	2.5	3.7											
					Bottom	11.2	1	17.1	8.1	32.2	8.1	101.6	3.1	2.4											
							2	17.1	8.1	32.2	8.1	102.3	3.1	2.9											
TCE-WQM3A	Misty	Calm	14:32	5.6	Surface	1.0	1	16.5	8.1	31.6	8.3	102.7	4.4	4.9	8.3	4.7	4.1								
							2	16.5	8.1	31.6	8.3	103.2	4.4	4.5											
					Bottom	4.6	1	16.5	8.0	31.6	8.5	104.9	5.0	3.3											
							2	16.5	8.0	31.5	8.5	105.8	5.1	3.5											
					TCE-WQM4	Misty	Calm	14:21	5.0	Surface	1.0	1	16.7	8.0				31.5	8.4	104.9	3.4	3.6	8.5	3.7	3.5
											2	16.7	8.0	31.5				8.5	105.5	3.3	4.0				
Bottom	4.0	1	16.6	8.0	31.5					8.5	105.9	4.2	3.0												
		2	16.6	8.0	31.4					8.6	106.7	4.2	3.3												

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)								
2023-01-20	Mid-Ebb	TCE-C1	Misty	Moderate	10:35	8.2	Surface	1.0	1	16.5	7.9	33.8	8.0	100.8	3.1	5.5	8.0	4.5	6.7								
									2	16.5	7.9	33.8	8.0	100.9	3.2	5.8											
							Middle	4.1	1	16.5	7.9	33.8	8.1	101.0	4.7	6.6											
									2	16.5	8.0	33.8	8.1	101.1	4.6	6.2											
							Bottom	7.2	1	16.5	7.9	33.8	8.1	101.3	5.8	8.0											
									2	16.5	7.9	33.7	8.1	101.4	5.7	8.2											
		TCE-C2	Misty	Moderate	12:15	13.8	Surface	1.0	1	17.2	8.0	34.5	7.7	98.4	1.0	5.4	7.8	1.2	4.6								
									2	17.2	8.0	34.6	7.7	98.8	1.1	5.9											
							Middle	6.9	1	17.0	8.0	34.8	7.8	99.8	1.1	4.8											
									2	16.9	8.0	34.8	7.9	100.2	1.2	4.4											
							Bottom	12.8	1	16.6	8.0	35.1	8.0	101.6	1.4	3.2											
									2	16.5	8.0	35.2	8.1	102.5	1.4	3.6											
	TCE-WQM1	Misty	Moderate	10:59	9.2	Surface	1.0	1	16.9	7.9	34.1	7.7	98.0	2.0	4.8	7.8	2.0	5.6									
								2	16.9	7.9	34.1	7.7	98.1	2.0	5.0												
						Middle	4.6	1	16.8	7.9	34.1	7.8	98.5	2.0	5.4												
								2	16.8	7.9	34.1	7.8	98.6	2.0	5.7												
						Bottom	8.2	1	16.8	7.9	34.1	7.9	99.8	2.1	6.1												
								2	16.8	7.9	34.1	7.9	100.2	2.1	6.4												
	TCE-WQM2a	Misty	Moderate	11:35	6.8	Surface	1.0	1	17.0	7.9	34.4	7.9	100.4	1.0	2.9	8.0	1.7	3.6									
								2	17.0	7.9	34.4	7.9	100.4	1.0	3.2												
						Middle	3.4	1	16.9	7.9	34.4	8.0	102.1	2.0	3.8												
								2	16.9	7.9	34.4	8.1	102.4	1.9	3.5												
						Bottom	5.8	1	16.9	7.9	34.4	8.2	103.6	2.1	4.0												
								2	16.9	7.9	34.4	8.2	104.0	2.2	4.3												
TCE-WQM2b	Misty	Moderate	11:49	12.8	Surface	1.0	1	17.1	7.9	34.5	7.8	98.9	1.0	2.9	7.8	1.5	3.3										
							2	17.1	7.9	34.5	7.8	99.0	1.1	2.6													
					Middle	6.4	1	17.0	8.0	34.5	7.9	100.7	1.4	3.6													
							2	17.0	8.0	34.4	7.9	101.0	1.5	3.2													
					Bottom	11.8	1	17.0	8.0	34.4	8.1	103.0	2.0	3.7													
							2	17.0	8.0	34.4	8.1	103.6	1.9	4.0													
TCE-WQM3A	Misty	Calm	11:24	4.4	Surface	1.0	1	17.1	7.9	34.3	7.9	101.0	1.5	5.3	7.9	1.8	4.7										
							2	17.1	7.9	34.4	7.9	101.3	1.5	5.0													
					Bottom	3.4	1	17.1	7.9	34.3	8.1	102.9	2.1	4.1													
							2	17.1	7.9	34.3	8.1	103.3	2.2	4.4													
					TCE-WQM4	11:12	4.2	Surface	1.0	1	17.1	7.9	34.2	8.1				102.8	1.2	4.2	8.1	1.3	4.8				
									2	17.1	7.9	34.2	8.1	103.0				1.2	4.6								
		1	17.1	7.9	34.2	8.2	104.1	1.4	5.1																		
		2	17.1	7.9	34.2	8.2	104.6	1.3	5.4																		
2023-01-20	Mid-Flood	TCE-C1	Misty	Moderate	8:40	8.0	Surface	1.0	1	16.5	7.9	33.6	8.2	102.8	3.1	8.0	8.2	4.1	6.6								
									2	16.5	7.9	33.5	8.2	103.2	3.2	7.7											
							Middle	4.0	1	16.5	7.9	33.5	8.3	103.6	4.1	6.9											
									2	16.5	7.9	33.4	8.3	103.9	4.2	7.2											
							Bottom	7.0	1	16.5	8.0	33.2	8.4	105.4	5.0	4.6											
									2	16.5	8.0	33.1	8.5	106.1	5.1	4.9											
							TCE-C2	Misty	Calm	7:01	12.4	Surface	1.0	1	17.1	7.9				34.6	7.5	95.9	1.2	4.2	7.6	2.2	5.3
														2	17.1	7.9				34.6	7.5	96.0	1.3	4.6			
												Middle	6.2	1	17.1	7.9				34.6	7.6	96.9	2.1	5.3			
														2	17.1	7.9				34.6	7.6	97.2	2.2	5.1			
												Bottom	11.4	1	17.1	7.9				34.6	7.7	98.0	3.2	6.2			
														2	17.1	7.9				34.6	7.7	98.9	3.2	6.5			
		TCE-WQM1	Misty	Moderate	8:06	9.2	Surface	1.0	1	16.9	7.9	34.1	7.9	100.3	1.0	8.7	7.9	1.2	7.7								
									2	16.9	7.9	34.1	7.9	100.4	1.0	8.4											
							Middle	4.6	1	16.9	7.9	34.1	7.9	100.7	1.1	7.8											
									2	16.9	7.9	34.1	8.0	100.8	1.2	7.5											
							Bottom	8.2	1	16.9	7.9	34.1	8.0	101.0	1.3	7.0											
									2	16.9	7.9	34.1	8.0	101.4	1.3	6.7											
		TCE-WQM2a	Misty	Calm	7:37	7.0	Surface	1.0	1	17.0	7.9	34.4	8.1	103.2	1.0	5.7	8.2	1.2	6.6								
									2	17.0	7.9	34.4	8.1	103.2	1.0	5.4											
							Middle	3.5	1	17.0	7.9	34.4	8.2	104.0	1.2	6.2											
									2	17.0	7.9	34.4	8.2	104.5	1.2	6.6											
							Bottom	6.0	1	17.0	7.9	34.3	8.3	105.0	1.4	7.5											
									2	17.0	7.9	34.3	8.3	105.7	1.4	7.9											
	TCE-WQM2b	Misty	Calm	7:25	11.2	Surface	1.0	1	16.8	7.9	34.4	8.1	102.2	2.4	4.8	8.1	3.2	5.8									
								2	16.8	7.9	34.4	8.1	102.8	2.4	4.3												
						Middle	5.6	1	16.8	7.9	34.4	8.1	103.3	3.1	6.0												
								2	16.8	7.9	34.4	8.2	103.6	3.2	5.6												
						Bottom	10.2	1	16.8	7.9	34.4	8.2	104.3	4.0	7.1												
								2	16.8	7.9	34.4	8.3	104.9	4.1	6.7												
	TCE-WQM3A	Misty	Calm	7:46	4.0	Surface	1.0	1	17.1	7.9	34.3	8.2	104.3	1.7	6.3	8.2	2.1	7.2									
								2	17.1	7.9	34.4	8.2	104.8	1.7	6.8												
						Bottom	3.0	1	17.1	7.9	34.3	8.3	105.8	2.5	7.9												
								2	17.1	7.9	34.2	8.3	105.8	2.5	7.6												
						TCE-WQM4	7:55	4.6	Surface	1.0	1	17.0	7.9	34.3	8.2				104.6	2.0	7.5	8.2	2.3	8.2			
										2	17.0	7.9	34.3	8.3	105.1				2.0	7.9							
			1	17.0	7.9	34.3	8.4	106.4	2.7	8.6																	
			2	17.0	7.9	34.3	8.4	106.8	2.7	8.9																	

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
2023-01-27	Mid-Ebb	TCE-C1	Fine	Rough	16:07	8.2	Surface	1.0	1	16.2	8.1	32.0	8.0	98.3	1.1	9.1	8.0	2.1	10.1					
									2	16.2	8.1	32.0	8.0	98.3	1.1	9.4								
							Middle	4.1	1	16.2	8.1	32.0	8.0	99.0	2.3	10.0								
									2	16.2	8.1	32.0	8.0	99.2	2.2	10.4								
							Bottom	7.2	1	16.2	8.1	32.0	8.1	99.9	3.0	11.0								
									2	16.2	8.1	32.0	8.1	100.0	3.1	10.7								
		TCE-C2	Fine	Rough	17:43	13.8	Surface	1.0	1	16.6	8.1	31.9	7.7	96.2	1.0	10.0	7.8	1.3	10.6					
									2	16.6	8.1	31.9	7.8	96.6	1.1	9.7								
							Middle	6.9	1	16.6	8.2	31.9	7.8	97.5	1.1	10.8								
									2	16.6	8.2	31.9	7.9	97.7	1.2	10.4								
							Bottom	12.8	1	16.6	8.2	31.8	8.0	99.2	1.8	11.6								
									2	16.6	8.2	31.8	8.0	99.6	1.7	11.2								
	TCE-WQM1	Fine	Rough	16:37	9.2	Surface	1.0	1	16.2	8.3	31.4	8.4	102.7	1.0	10.2	8.4	1.3	9.5						
								2	16.2	8.4	31.4	8.4	102.8	1.1	10.7									
						Middle	4.6	1	16.2	8.4	31.4	8.4	103.3	1.1	9.6									
								2	16.2	8.4	31.4	8.4	103.4	1.2	9.3									
						Bottom	8.2	1	16.2	8.4	31.4	8.5	104.6	1.8	8.8									
								2	16.2	8.4	31.4	8.5	105.0	1.9	8.6									
	TCE-WQM2a	Fine	Rough	17:07	6.6	Surface	1.0	1	16.2	8.3	31.5	8.5	104.7	1.1	9.4	8.6	1.6	10.5						
								2	16.2	8.3	31.5	8.5	104.7	1.1	9.6									
						Middle	3.3	1	16.2	8.3	31.4	8.6	106.3	1.6	10.8									
								2	16.2	8.3	31.4	8.7	106.6	1.5	10.4									
						Bottom	5.6	1	16.2	8.4	31.4	8.7	107.7	2.0	11.5									
								2	16.2	8.4	31.4	8.8	108.1	2.1	11.2									
TCE-WQM2b	Fine	Rough	17:19	12.8	Surface	1.0	1	16.3	8.2	31.6	8.1	100.5	1.0	10.6	8.2	1.2	10.2							
							2	16.3	8.2	31.6	8.1	100.5	1.1	11.0										
					Middle	6.4	1	16.3	8.3	31.6	8.2	101.5	1.1	10.2										
							2	16.3	8.3	31.6	8.2	101.8	1.1	10.0										
					Bottom	11.8	1	16.3	8.3	31.5	8.3	103.0	1.5	9.4										
							2	16.3	8.3	31.5	8.4	103.2	1.5	9.8										
TCE-WQM3A	Fine	Calm	16:57	5.0	Surface	1.0	1	16.2	8.2	31.5	8.4	103.2	2.3	9.3	8.4	2.6	10.0							
							2	16.2	8.2	31.5	8.4	103.2	2.3	9.6										
					Bottom	4.0	1	16.2	8.3	31.4	8.4	103.6	3.0	10.6										
							2	16.2	8.3	31.5	8.4	103.8	2.9	10.3										
					TCE-WQM4	16:48	4.2	Surface	1.0	1	16.2	8.1	31.5	8.4				103.4	3.2	10.0	8.4	3.5	9.4	
									2	16.2	8.1	31.5	8.4	103.5				3.2	10.3					
		1	16.2	8.2	31.4	8.4	103.7	3.8	8.9															
		2	16.1	8.2	31.4	8.4	103.7	3.9	8.5															
2023-01-27	Mid-Flood	TCE-C1	Fine	Rough	12:52	8.2	Surface	1.0	1	16.2	8.1	32.1	8.2	100.9	1.6	9.9	8.2	2.7	9.2					
									2	16.2	8.1	32.1	8.2	101.1	1.5	9.7								
							Middle	4.1	1	16.2	8.1	32.0	8.2	101.3	2.9	9.4								
									2	16.2	8.1	32.0	8.2	101.7	2.8	9.1								
							Bottom	7.2	1	16.2	8.1	32.0	8.3	102.6	3.7	8.8								
									2	16.2	8.1	32.0	8.4	103.3	3.6	8.4								
		TCE-C2	Fine	Rough	11:00	12.2	Surface	1.0	1	16.4	7.6	31.4	7.8	96.6	1.0	11.5	7.8	2.2	10.7					
									2	16.4	7.6	31.4	7.8	96.6	1.1	11.1								
							Middle	6.1	1	16.4	7.6	31.4	7.8	96.4	2.4	10.8								
									2	16.4	7.6	31.4	7.8	96.4	2.5	10.5								
							Bottom	11.2	1	16.4	7.5	31.4	7.8	96.4	3.0	10.2								
									2	16.4	7.6	31.4	7.8	96.4	2.9	9.9								
		TCE-WQM1	Fine	Rough	12:07	8.8	Surface	1.0	1	16.2	8.1	31.4	8.2	100.4	1.6	11.0	8.2	2.1	10.5					
									2	16.2	8.2	31.4	8.2	100.4	1.7	11.2								
							Middle	4.4	1	16.2	8.2	31.4	8.2	101.1	2.0	10.6								
									2	16.2	8.2	31.4	8.2	101.4	2.0	10.3								
							Bottom	7.8	1	16.2	8.2	31.4	8.3	102.0	2.6	9.9								
									2	16.2	8.2	31.4	8.3	102.2	2.6	9.7								
		TCE-WQM2a	Fine	Rough	11:35	7.0	Surface	1.0	1	16.2	8.1	31.6	8.1	100.0	1.8	12.6	8.1	2.6	11.4					
									2	16.2	8.1	31.6	8.1	100.0	1.8	12.4								
							Middle	3.5	1	16.2	8.2	31.6	8.2	100.5	2.2	11.1								
									2	16.2	8.2	31.6	8.2	100.6	2.3	11.6								
							Bottom	6.0	1	16.2	8.2	31.6	8.3	101.9	3.7	10.0								
									2	16.2	8.2	31.6	8.3	102.4	3.7	10.4								
	TCE-WQM2b	Fine	Rough	11:23	11.4	Surface	1.0	1	16.3	8.2	31.5	8.2	101.6	1.0	9.4	8.3	2.2	10.4						
								2	16.3	8.2	31.5	8.3	101.9	1.1	9.6									
						Middle	5.7	1	16.2	8.2	31.5	8.3	102.8	2.1	10.2									
								2	16.2	8.2	31.5	8.4	102.9	2.2	10.6									
						Bottom	10.4	1	16.2	8.2	31.5	8.4	103.9	3.4	11.4									
								2	16.3	8.2	31.5	8.5	104.9	3.4	11.0									
	TCE-WQM3A	Fine	Calm	11:45	5.0	Surface	1.0	1	16.2	8.1	31.5	8.2	100.6	2.1	9.2	8.2	2.7	10.3						
								2	16.2	8.1	31.5	8.2	100.7	2.2	9.8									
						Bottom	4.0	1	16.1	8.2	31.4	8.4	103.6	3.2	10.9									
								2	16.1	8.2	31.4	8.5	104.2	3.3	11.4									
						TCE-WQM4	11:54	4.8	Surface	1.0	1	16.2	8.3	31.5	8.4				103.7	2.1	11.4	8.4	2.5	10.9
										2	16.2	8.3	31.5	8.4	104.0				2.1	11.7				
			1	16.2	8.4	31.5	8.6	106.3	3.0	10.1														
			2	16.2	8.4	31.5	8.7	106.8	3.0	10.5														

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged										
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)								
2023-01-30	Mid-Ebb	TCE-C1	Fine	Rough	8:27	7.9	Surface	1.0	1	15.4	8.0	32.5	8.8	105.8	2.6	3.1	8.8	4.1	4.0								
									2	15.4	8.0	32.5	8.8	105.8	2.7	2.7											
							Middle	4.0	1	15.4	8.0	32.5	8.7	105.6	3.7	3.9											
									2	15.4	8.0	32.5	8.7	105.6	3.7	4.2											
							Bottom	6.9	1	15.4	8.1	32.5	8.7	104.8	6.0	5.1											
									2	15.4	8.1	32.5	8.7	104.8	6.1	4.7											
		TCE-C2	Fine	Moderate	6:14	12.4	Surface	1.0	1	16.2	8.0	32.0	8.4	102.2	2.4	4.0	8.3	2.8	3.6								
									2	16.2	8.0	32.0	8.4	102.3	2.5	4.2											
							Middle	6.2	1	16.2	7.9	32.0	8.3	101.7	2.6	3.8											
									2	16.2	7.9	32.0	8.3	101.7	2.6	3.4											
							Bottom	11.4	1	16.2	7.9	31.9	8.3	101.0	3.4	2.9											
									2	16.2	7.9	31.9	8.3	101.0	3.4	3.1											
	TCE-WQM1	Fine	Moderate	7:34	8.6	Surface	1.0	1	14.9	8.0	31.9	8.8	104.4	5.4	4.7	8.7	5.4	6.1									
								2	14.9	8.0	31.9	8.8	104.4	5.4	5.1												
						Middle	4.3	1	14.9	8.0	31.9	8.7	103.9	6.5	6.4												
								2	14.9	8.0	31.9	8.7	103.8	6.4	5.9												
						Bottom	7.6	1	14.9	8.0	31.9	8.7	103.3	4.3	7.1												
								2	14.9	8.0	31.9	8.6	103.3	4.4	7.4												
	TCE-WQM2a	Fine	Moderate	6:52	6.4	Surface	1.0	1	15.7	7.9	31.9	8.9	107.1	2.1	4.5	8.8	2.0	5.1									
								2	15.7	7.9	31.9	8.9	107.1	2.1	4.4												
						Middle	3.2	1	15.7	7.9	31.9	8.8	106.3	2.4	5.0												
								2	15.7	7.9	31.9	8.8	106.3	2.4	5.3												
						Bottom	5.4	1	15.7	7.9	31.9	8.7	105.5	1.6	6.0												
								2	15.7	7.9	31.9	8.7	105.5	1.6	5.6												
TCE-WQM2b	Fine	Moderate	6:39	8.6	Surface	1.0	1	15.8	7.8	32.0	8.7	105.5	3.2	5.4	8.6	5.6	3.9										
							2	15.8	7.8	32.0	8.7	105.5	3.3	5.1													
					Middle	4.3	1	15.8	7.8	32.0	8.5	103.7	4.7	4.0													
							2	15.8	7.8	32.0	8.5	103.7	4.6	3.6													
					Bottom	7.6	1	15.7	7.8	32.0	8.5	103.0	8.9	2.4													
							2	15.7	7.8	32.0	8.5	103.0	8.9	2.7													
TCE-WQM3A	Fine	Moderate	7:03	4.3	Surface	1.0	1	15.0	8.0	31.7	9.2	110.0	3.6	2.9	9.2	4.4	3.6										
							2	15.0	8.0	31.7	9.2	110.0	3.6	3.3													
					Bottom	3.3	1	15.0	8.0	31.7	9.2	110.2	5.2	3.8													
							2	15.0	8.0	31.7	9.2	110.2	5.2	4.3													
					TCE-WQM4	Fine	Moderate	7:16	3.9	Surface	1.0	1	15.2	7.9				31.8	9.0	107.8	3.4	4.8	9.0	3.1	3.9		
												2	15.2	7.9				31.8	9.0	107.9	3.5	4.5					
Bottom	2.9	1	15.1	8.0						31.8	9.0	107.8	2.7	3.4													
		2	15.1	8.0						31.8	9.0	107.8	2.7	3.0													
2023-01-30	Mid-Flood	TCE-C1	Sunny	Rough						11:47	8.3	Surface	1.0	1	15.4	8.1	32.5	9.0	109.2	2.8	6.3	9.0				4.1	6.7
														2	15.4	8.1	32.5	9.0	109.2	2.8	5.9						
					Middle	4.2	1	15.3	8.1			32.5	9.0	108.8	3.8	6.3											
							2	15.3	8.1			32.5	9.0	108.8	3.9	6.8											
					Bottom	7.3	1	15.3	8.1			32.5	8.9	108.0	5.8	7.5											
							2	15.3	8.1			32.5	8.9	107.9	5.7	7.1											
		TCE-C2	Sunny	Moderate	13:55	13.5	Surface	1.0	1	16.6	7.8	32.2	8.6	106.6	2.6	6.5	8.6	4.1	5.4								
									2	16.6	7.8	32.2	8.6	106.6	2.6	6.0											
							Middle	6.8	1	16.2	7.8	32.2	8.5	104.6	4.4	5.6											
									2	16.2	7.8	32.2	8.5	104.6	4.4	5.2											
							Bottom	12.5	1	16.2	7.8	32.2	8.4	103.5	5.3	4.8											
									2	16.2	7.8	32.2	8.4	103.5	5.3	4.5											
	TCE-WQM1	Sunny	Moderate	12:38	9.2	Surface	1.0	1	15.1	8.0	31.9	8.9	106.5	3.9	2.6	8.9	3.5	3.5									
								2	15.1	8.0	31.9	8.9	106.5	3.9	2.8												
						Middle	4.6	1	15.0	8.0	31.9	8.9	107.1	2.7	3.6												
								2	15.0	8.0	31.9	8.9	107.1	2.7	3.4												
						Bottom	8.2	1	15.0	8.0	31.9	8.9	106.8	3.8	4.0												
								2	15.0	8.0	31.9	8.9	106.8	3.8	4.4												
	TCE-WQM2a	Sunny	Calm	13:16	7.9	Surface	1.0	1	16.1	7.9	32.0	9.4	114.8	3.2	2.6	9.4	5.1	3.2									
								2	16.1	7.9	32.0	9.4	114.8	3.2	2.4												
						Middle	4.0	1	15.8	7.9	32.0	9.4	114.1	5.2	3.0												
								2	15.8	7.9	32.0	9.4	114.1	5.3	3.4												
						Bottom	6.9	1	15.8	7.9	32.0	9.2	112.7	6.8	3.7												
								2	15.8	7.9	32.0	9.2	112.7	6.8	4.0												
TCE-WQM2b	Sunny	Moderate	13:28	10.2	Surface	1.0	1	16.3	7.9	32.1	9.2	113.8	2.1	5.0	9.2	3.6	4.4										
							2	16.3	7.9	32.1	9.2	113.8	2.2	5.2													
					Middle	5.1	1	16.2	7.9	32.1	9.1	112.4	3.8	4.5													
							2	16.2	7.9	32.1	9.1	112.4	3.8	4.2													
					Bottom	9.2	1	16.2	7.9	32.1	9.0	110.9	4.9	3.8													
							2	16.2	7.9	32.1	9.0	110.9	4.9	3.5													
TCE-WQM3A	Sunny	Calm	13:03	4.9	Surface	1.0	1	15.5	8.0	31.8	9.3	113.0	4.5	4.6	9.3	4.1	5.1										
							2	15.5	8.0	31.8	9.3	113.0	4.5	4.2													
					Bottom	3.9	1	15.3	8.0	31.8	9.4	113.1	3.8	5.5													
							2	15.3	8.0	31.8	9.4	113.0	3.8	6.0													
					TCE-WQM4	Sunny	Calm	12:51	4.2	Surface	1.0	1	15.5	8.0				31.8	9.2	110.9	4.8	4.8	9.2	6.0	4.3		
												2	15.5	8.0				31.8	9.2	110.9	4.8	5.2					
Bottom	3.2	1	15.3	8.0						31.8	9.1	110.3	7.3	3.4													
		2	15.3	8.0						31.8	9.1	110.3	7.3	3.9													