

Annex G3

Monitoring Results for Water Quality

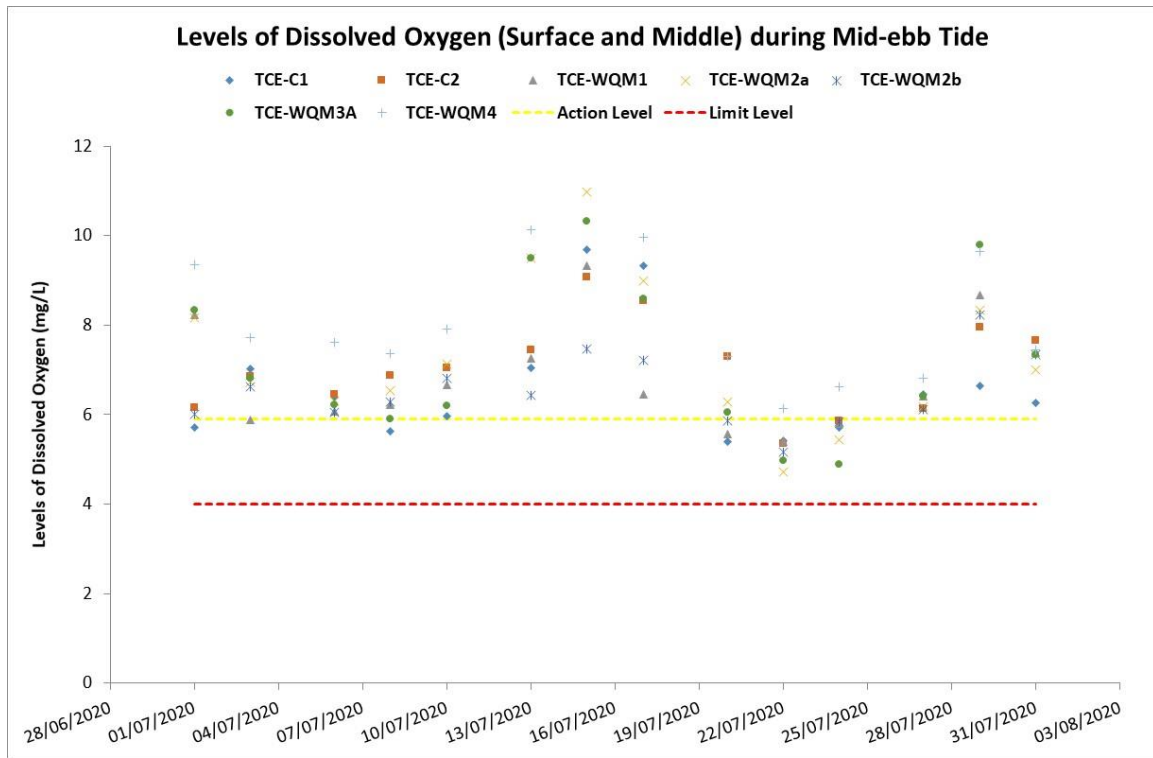


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2020

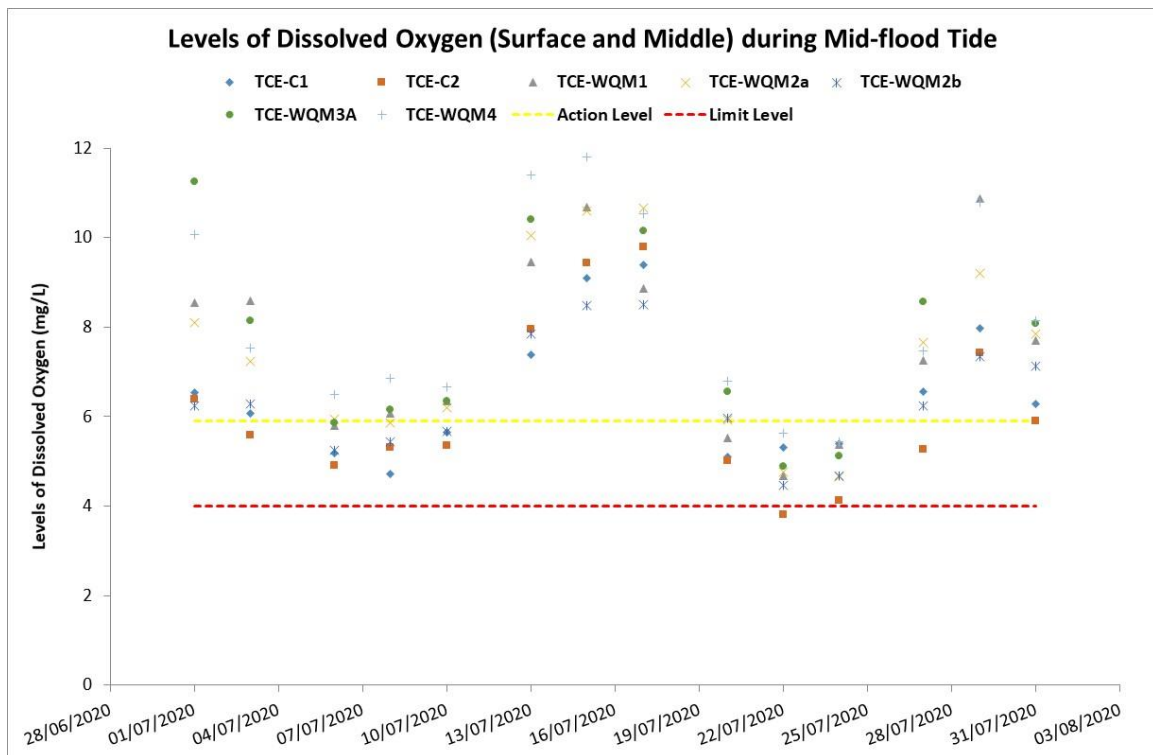


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2020

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

Environmental Resources Management



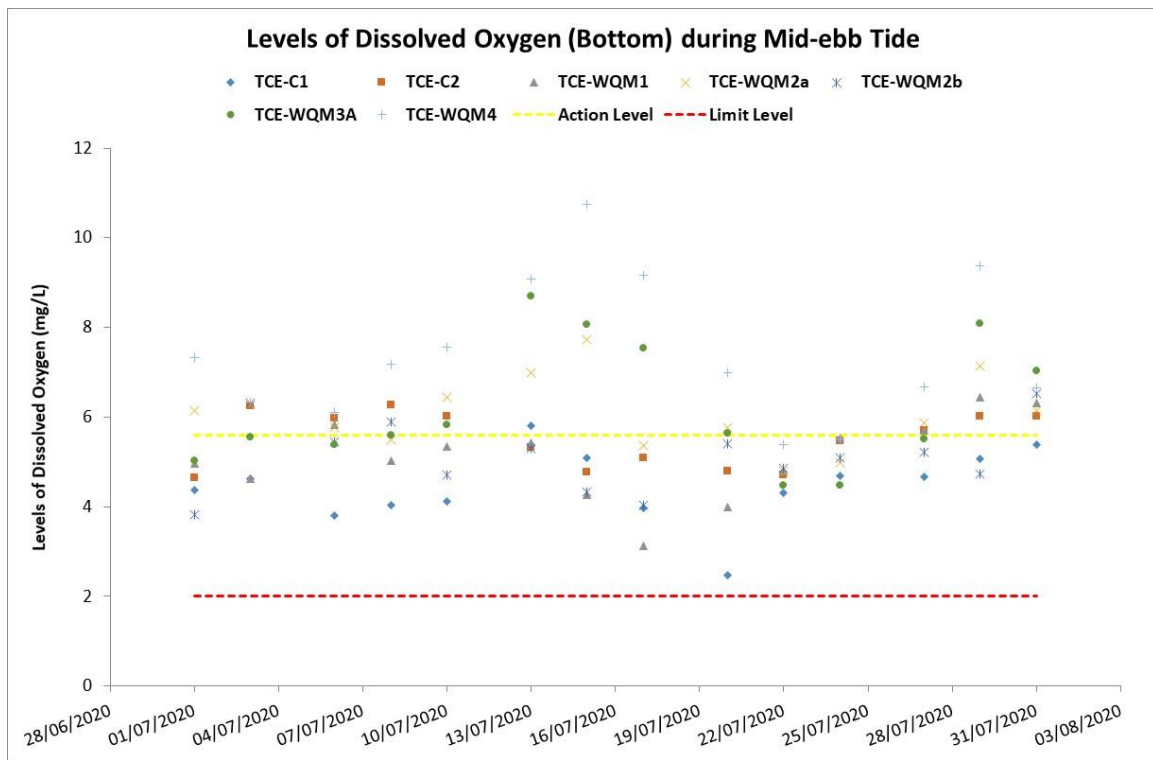


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2020

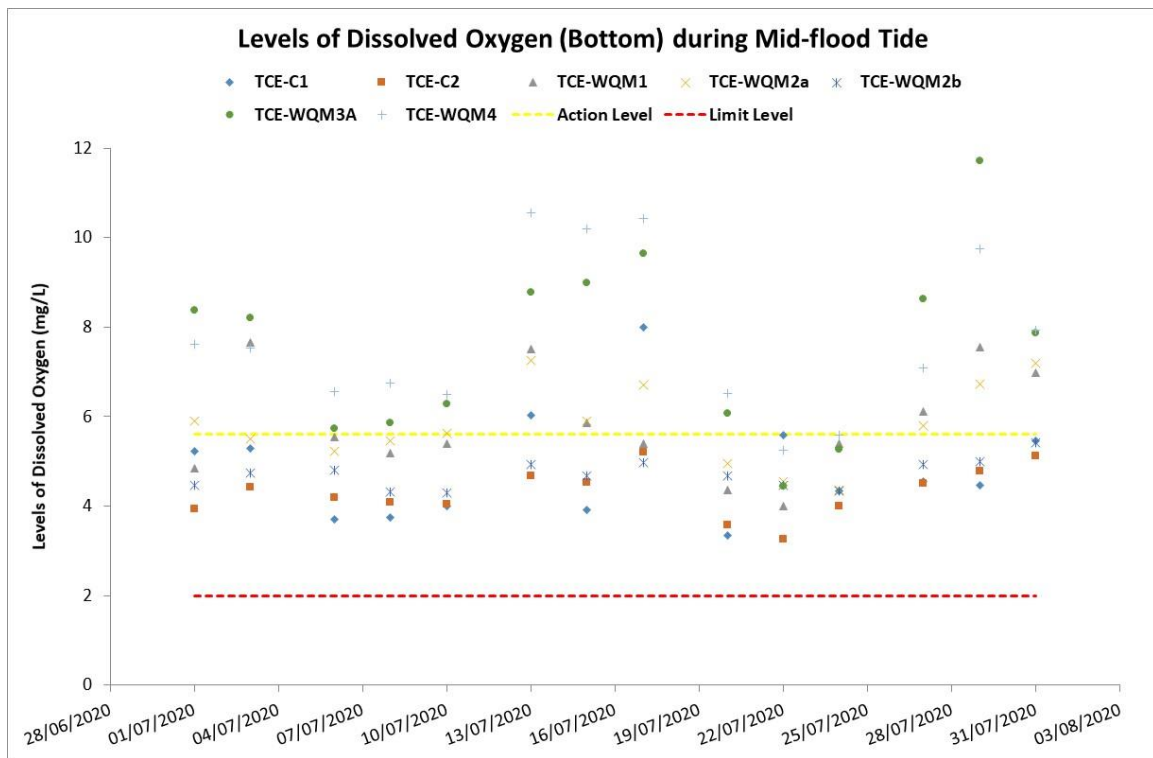


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2020

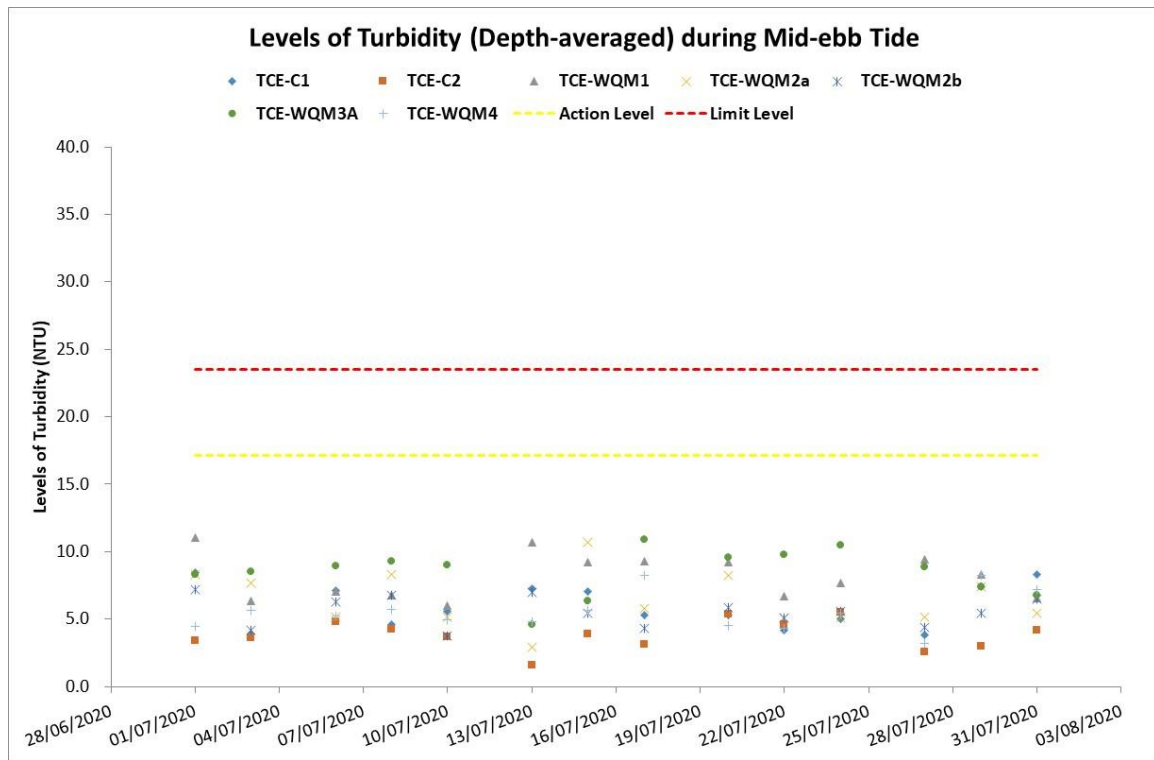


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2020

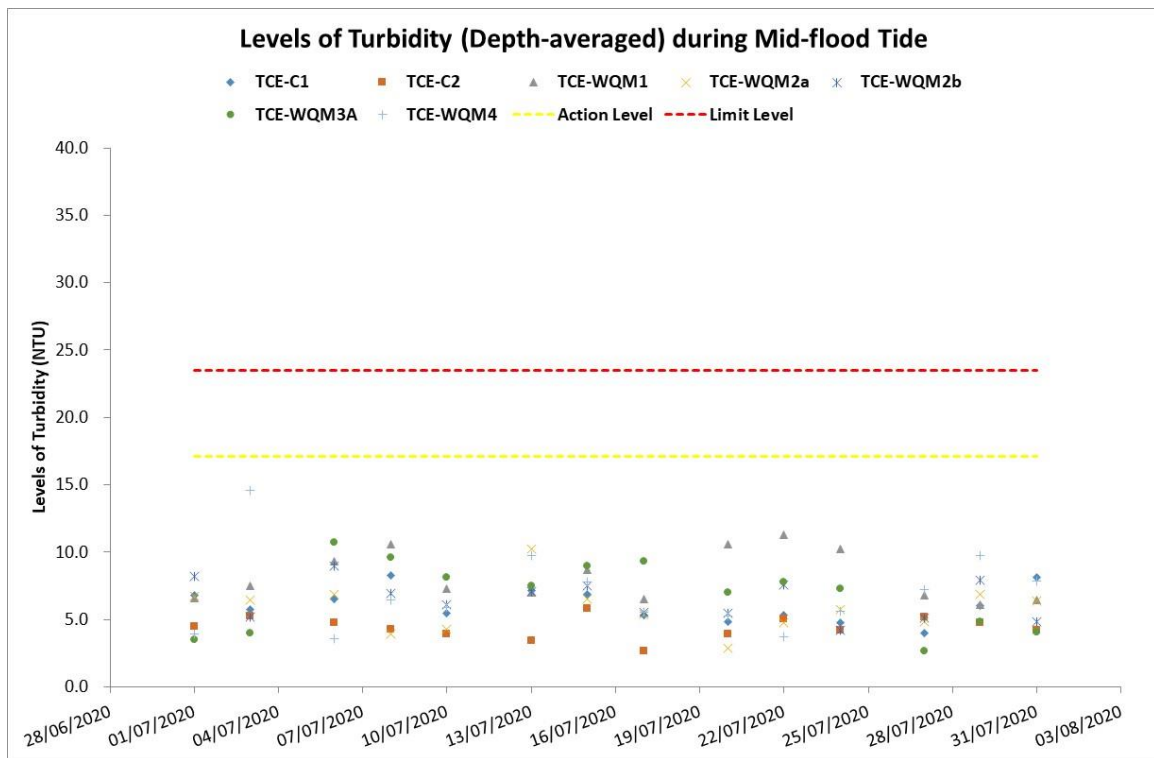


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2020

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

**Environmental
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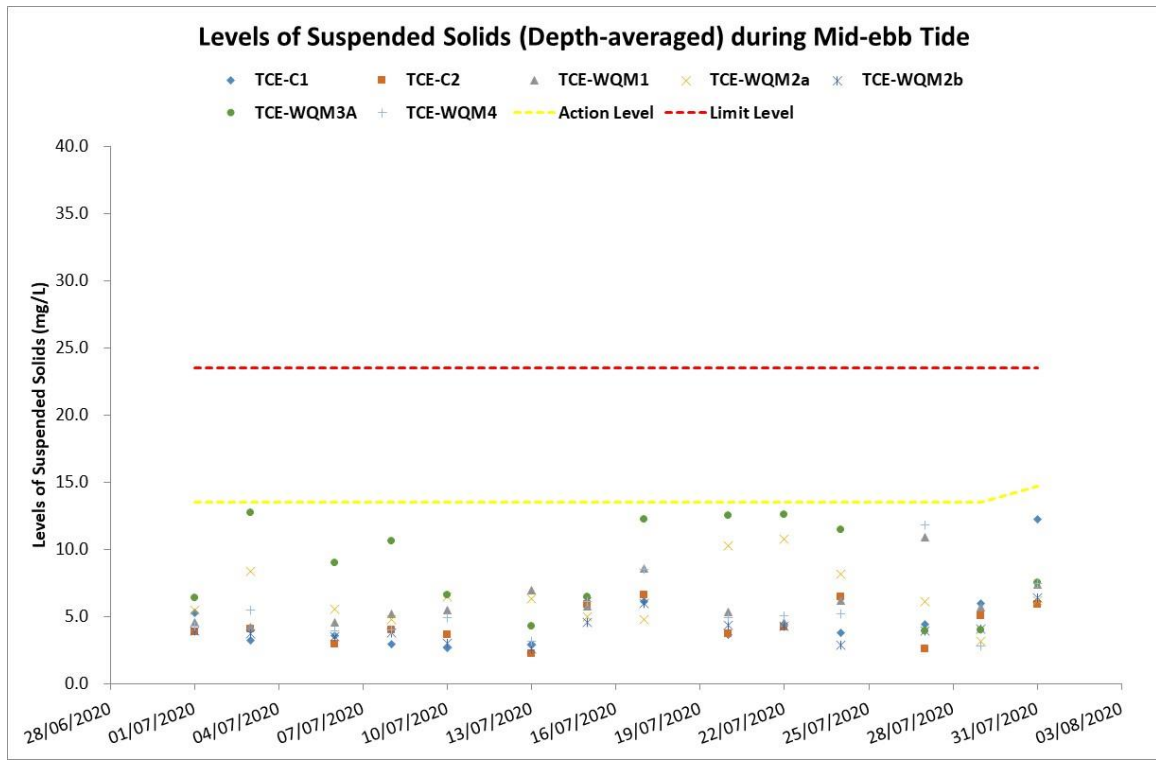


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2020

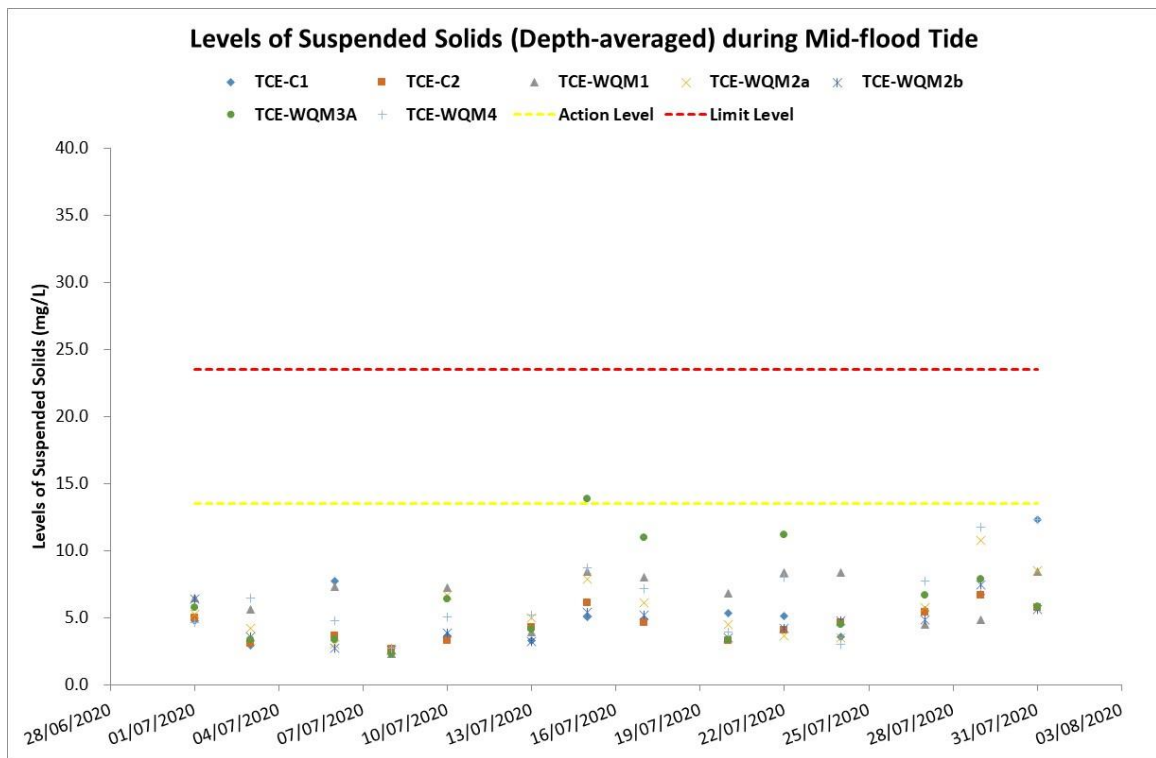


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2020

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

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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) | | |
| 01-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 11:36 | 8.1 | Surface | 1.0 | 1 | 28.5 | 8.0 | 17.2 | 6.6 | 93.5 | 4.1 | 4.8 | 5.7 | 8.5 | 5.3 | | |
| | | | | | | | | | 2 | 28.5 | 8.0 | 17.2 | 6.6 | 93.2 | 3.9 | 4.5 | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 26.8 | 7.8 | 22.9 | 4.8 | 68.8 | 8.0 | 5.0 | | | | | |
| | | | | | | | | | 2 | 26.7 | 7.8 | 23.0 | 4.9 | 68.9 | 9.5 | 5.4 | | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 26.5 | 7.8 | 26.1 | 4.4 | 63.0 | 12.7 | 6.0 | | | | | |
| | | | | | | | | | 2 | 26.6 | 7.8 | 26.9 | 4.4 | 63.5 | 12.7 | 5.8 | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 9:35 | 13.2 | Surface | 1.0 | 1 | 28.7 | 8.0 | 15.5 | 7.2 | 100.9 | 2.9 | 3.0 | 6.2 | 3.4 | 3.9 | | |
| | | | | | | | | | 2 | 28.7 | 8.0 | 15.5 | 7.1 | 100.7 | 2.9 | 3.3 | | | | | |
| | | | | | | | Middle | 6.6 | 1 | 27.1 | 7.8 | 22.7 | 5.2 | 73.7 | 3.2 | 3.6 | | | | | |
| | | | | | | | | | 2 | 27.0 | 7.8 | 22.7 | 5.2 | 73.6 | 3.2 | 3.8 | | | | | |
| | | | | | | | Bottom | 12.2 | 1 | 26.1 | 7.8 | 26.8 | 4.6 | 66.5 | 4.1 | 4.9 | | | | | |
| | | | | | | | | | 2 | 26.2 | 7.8 | 26.7 | 4.7 | 66.8 | 4.2 | 4.7 | | | | | |
| | | TCE-WQM1 | Cloudy | Calm | 10:50 | 7.8 | Surface | 1.0 | 1 | 29.6 | 8.3 | 15.0 | 9.9 | 141.4 | 4.4 | 5.8 | 8.2 | 11.0 | 4.6 | | |
| | | | | | | | | | 2 | 29.4 | 8.3 | 15.0 | 9.9 | 140.5 | 5.4 | 5.5 | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 28.8 | 8.0 | 17.7 | 6.6 | 93.6 | 13.3 | 4.6 | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.0 | 17.7 | 6.5 | 93.1 | 13.3 | 4.7 | | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 26.7 | 7.8 | 25.0 | 4.9 | 70.8 | 14.8 | 3.7 | | | | | |
| | | | | | | | | | 2 | 26.7 | 7.8 | 25.0 | 5.0 | 71.9 | 14.9 | 3.2 | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 10:17 | 6.8 | Surface | 1.0 | 1 | 29.6 | 8.2 | 15.9 | 8.9 | 127.6 | 2.7 | 4.5 | 8.2 | 8.3 | 5.5 | | | |
| | | | | | | | | 2 | 29.6 | 8.2 | 15.9 | 8.9 | 127.6 | 2.7 | 4.9 | | | | | | |
| | | | | | | Middle | 3.4 | 1 | 28.7 | 8.1 | 18.0 | 7.5 | 106.5 | 6.3 | 5.5 | | | | | | |
| | | | | | | | | 2 | 28.7 | 8.1 | 18.0 | 7.4 | 106.2 | 6.7 | 5.2 | | | | | | |
| | | | | | | Bottom | 5.8 | 1 | 27.9 | 7.9 | 21.0 | 6.1 | 87.8 | 15.8 | 6.4 | | | | | | |
| | | | | | | | | 2 | 27.9 | 7.9 | 21.0 | 6.1 | 88.0 | 15.7 | 6.4 | | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 10:04 | 11.3 | Surface | 1.0 | 1 | 29.2 | 8.0 | 12.8 | 7.4 | 103.5 | 3.1 | 4.6 | 6.0 | 7.1 | 3.9 | | | |
| | | | | | | | | 2 | 29.2 | 8.0 | 12.8 | 7.4 | 103.1 | 3.1 | 4.5 | | | | | | |
| | | | | | | Middle | 5.7 | 1 | 27.2 | 7.8 | 23.1 | 4.6 | 66.2 | 6.5 | 4.0 | | | | | | |
| | | | | | | | | 2 | 27.3 | 7.8 | 23.0 | 4.6 | 66.4 | 6.6 | 4.2 | | | | | | |
| | | | | | | Bottom | 10.3 | 1 | 25.2 | 7.7 | 29.3 | 3.8 | 54.6 | 12.0 | 3.4 | | | | | | |
| | | | | | | | | 2 | 25.2 | 7.7 | 29.2 | 3.8 | 55.0 | 11.5 | 2.8 | | | | | | |
| | TCE-WQM3A | Cloudy | Calm | 10:29 | 3.8 | Surface | 1.0 | 1 | 29.5 | 8.2 | 16.0 | 8.3 | 119.4 | 4.9 | 7.1 | 8.3 | 8.3 | 6.4 | | | |
| | | | | | | | | 2 | 29.5 | 8.2 | 16.0 | 8.3 | 119.5 | 4.9 | 7.7 | | | | | | |
| | | | | | | Bottom | 2.8 | 1 | 27.3 | 7.8 | 23.8 | 5.0 | 72.1 | 11.6 | 5.5 | | | | | | |
| | | | | | | | | 2 | 27.5 | 7.8 | 23.7 | 5.0 | 72.7 | 11.8 | 5.4 | | | | | | |
| | | | | | | Surface | 1.0 | 1 | 29.4 | 8.3 | 15.6 | 9.4 | 133.6 | 2.7 | 4.5 | | | | 9.4 | 4.4 | 4.3 |
| | | | | | | | | 2 | 29.5 | 8.3 | 15.5 | 9.4 | 133.8 | 2.8 | 4.4 | | | | | | |
| Middle | 2.6 | 1 | 28.7 | 8.0 | 18.0 | 7.3 | 104.4 | 5.8 | 4.1 | | | | | | | | | | | | |
| | | 2 | 28.7 | 8.0 | 18.0 | 7.3 | 104.4 | 6.3 | 4.2 | | | | | | | | | | | | |
| Bottom | 10.3 | 1 | 27.3 | 7.8 | 23.0 | 4.6 | 66.4 | 6.6 | 4.2 | | | | | | | | | | | | |
| | | 2 | 25.2 | 7.7 | 29.3 | 3.8 | 54.6 | 12.0 | 3.4 | | | | | | | | | | | | |
| 01-07-20 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 14:46 | 7.9 | Surface | 1.0 | 1 | 28.9 | 7.9 | 13.7 | 6.7 | 93.9 | 3.4 | 5.0 | 6.5 | 6.8 | 4.8 | | |
| | | | | | | | | | 2 | 28.8 | 7.9 | 13.7 | 6.7 | 93.8 | 3.4 | 5.2 | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 28.5 | 7.9 | 15.6 | 6.4 | 89.4 | 3.6 | 4.9 | | | | | |
| | | | | | | | | | 2 | 28.4 | 7.9 | 15.6 | 6.4 | 89.1 | 4.0 | 4.8 | | | | | |
| | | | | | | | Bottom | 6.9 | 1 | 27.6 | 7.8 | 21.8 | 5.2 | 74.8 | 13.7 | 4.3 | | | | | |
| | | | | | | | | | 2 | 27.6 | 7.8 | 22.0 | 5.2 | 74.9 | 13.0 | 4.6 | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 16:39 | 14.2 | Surface | 1.0 | 1 | 28.2 | 8.2 | 20.1 | 8.4 | 121.0 | 3.4 | 6.2 | 6.4 | 4.5 | 5.0 | | |
| | | | | | | | | | 2 | 28.2 | 8.2 | 20.0 | 8.4 | 120.9 | 3.3 | 6.4 | | | | | |
| | | | | | | | Middle | 7.1 | 1 | 25.4 | 7.8 | 28.5 | 4.3 | 62.0 | 2.5 | 4.6 | | | | | |
| | | | | | | | | | 2 | 25.4 | 7.8 | 28.6 | 4.3 | 61.9 | 2.5 | 4.5 | | | | | |
| | | | | | | | Bottom | 13.2 | 1 | 24.6 | 7.8 | 31.3 | 3.9 | 56.4 | 8.0 | 4.0 | | | | | |
| | | | | | | | | | 2 | 24.6 | 7.8 | 31.1 | 4.0 | 56.8 | 7.4 | 4.2 | | | | | |
| | | TCE-WQM1 | Cloudy | Calm | 15:25 | 8.0 | Surface | 1.0 | 1 | 29.8 | 8.4 | 15.4 | 10.2 | 145.9 | 3.0 | 4.9 | 8.5 | 6.6 | 6.5 | | |
| | | | | | | | | | 2 | 29.8 | 8.4 | 15.4 | 10.2 | 145.5 | 3.0 | 4.9 | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 28.7 | 8.0 | 18.4 | 6.9 | 98.8 | 5.4 | 5.5 | | | | | |
| | | | | | | | | | 2 | 28.7 | 8.1 | 18.3 | 6.9 | 98.9 | 6.2 | 5.5 | | | | | |
| | | | | | | | Bottom | 7.0 | 1 | 27.0 | 7.9 | 25.0 | 4.8 | 69.6 | 11.1 | 8.9 | | | | | |
| | | | | | | | | | 2 | 27.1 | 7.9 | 24.9 | 4.9 | 70.3 | 10.8 | 9.3 | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 15:59 | 6.9 | Surface | 1.0 | 1 | 29.4 | 8.3 | 16.1 | 9.8 | 140.7 | 2.8 | 6.3 | 8.1 | 6.7 | 5.3 | | | |
| | | | | | | | | 2 | 29.4 | 8.3 | 16.1 | 9.8 | 140.7 | 2.8 | 5.9 | | | | | | |
| | | | | | | Middle | 3.5 | 1 | 27.8 | 7.9 | 19.8 | 6.4 | 90.4 | 3.9 | 5.3 | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.9 | 19.7 | 6.4 | 91.0 | 4.3 | 4.9 | | | | | | |
| | | | | | | Bottom | 5.9 | 1 | 27.1 | 7.9 | 23.0 | 5.9 | 83.8 | 13.2 | 4.8 | | | | | | |
| | | | | | | | | 2 | 27.1 | 7.9 | 22.9 | 5.9 | 84.8 | 13.4 | 4.5 | | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 16:10 | 11.1 | Surface | 1.0 | 1 | 28.8 | 8.1 | 15.7 | 7.9 | 111.1 | 3.1 | 3.8 | 6.2 | 8.2 | 6.4 | | | |
| | | | | | | | | 2 | 28.8 | 8.1 | 15.7 | 7.8 | 110.5 | 3.1 | 4.2 | | | | | | |
| | | | | | | Middle | 5.6 | 1 | 26.4 | 7.8 | 25.0 | 4.6 | 66.2 | 8.0 | 6.0 | | | | | | |
| | | | | | | | | 2 | 26.4 | 7.8 | 25.0 | 4.7 | 66.5 | 8.0 | 6.3 | | | | | | |
| | | | | | | Bottom | 10.1 | 1 | 25.5 | 7.8 | 28.6 | 4.5 | 64.0 | 13.7 | 8.9 | | | | | | |
| | | | | | | | | 2 | 25.5 | 7.8 | 28.6 | 4.5 | 64.5 | 13.6 | 9.1 | | | | | | |
| | TCE-WQM3A | Cloudy | Calm | 15:49 | 4.1 | Surface | 1.0 | 1 | 30.1 | 8.4 | 15.4 | 11.3 | 163.2 | 3.2 | 4.4 | 11.3 | 3.5 | 5.8 | | | |
| | | | | | | | | 2 | 30.1 | 8.4 | 15.4 | 11.2 | 161.8 | 3.1 | 4.7 | | | | | | |
| | | | | | | Middle | 3.1 | 1 | 29.0 | 8.2 | 17.0 | 8.4 | 119.3 | 3.8 | 7.0 | | | | | | |
| | | | | | | | | 2 | 29.1 | 8.2 | 16.9 | 8.4 | 119.9 | 3.8 | 7.0 | | | | | | |
| | | | | | | Bottom | 2.7 | 1 | 28.9 | 8.1 | 17.9 | 7.6 | 109.4 | 4.4 | 5.6 | | | | | | |
| | | | | | | | | 2 | 29.0 | 8.1 | 17.9 | 7.6 | 109.2 | 4.7 | 5.5 | | | | | | |
| TCE-WQM4 | Cloudy | Calm | 15:38 | 3.7 | Surface | 1.0 | 1 | 29.7 | 8.3 | 15.8 | 10.1 | 144.4 | 3.1 | 3.6 | 10.1 | 3.9 | 4.6 | | | | |
| | | | | | | | 2 | 29.5 | 8.3 | 15.8 | 10.1 | 143.7 | 3.3 | 3.8 | | | | | | | |
| | | | | | Middle | 2.7 | 1 | 28.9 | 8.1 | 17.9 | 7.6 | 109.4 | 4.4 | 5.6 | | | | | | | |
| | | | | | | | 2 | 29.0 | 8.1 | 17.9 | 7.6 | 109.2 | 4.7 | 5.5 | | | | | | | |

| 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) | | | |
| 03-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 12:34 | 8.1 | Surface | 1.0 | 1 | 29.0 | 8.2 | 12.1 | 7.4 | 102.2 | 3.2 | 3.0 | 7.0 | 3.9 | 3.2 | | | |
| | | | | | | | | | 2 | 29.0 | 8.2 | 12.1 | 7.4 | 102.2 | 3.2 | 2.6 | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 28.3 | 8.2 | 15.6 | 6.7 | 93.5 | 3.5 | 3.1 | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 15.6 | 6.7 | 93.3 | 3.7 | 3.3 | | | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 25.9 | 8.0 | 24.2 | 4.7 | 65.5 | 4.9 | 3.6 | | | | | | |
| | | | | | | | | | 2 | 25.9 | 8.0 | 26.5 | 4.6 | 65.5 | 4.7 | 3.8 | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 10:20 | 13.1 | Surface | 1.0 | 1 | 28.0 | 8.2 | 19.8 | 7.4 | 105.9 | 3.1 | 2.6 | 6.8 | 3.6 | 4.1 | | | |
| | | | | | | | | | 2 | 28.0 | 8.2 | 19.7 | 7.4 | 105.8 | 3.2 | 2.8 | | | | | | |
| | | | | | | | Middle | 6.6 | 1 | 27.2 | 8.1 | 22.8 | 6.3 | 89.6 | 3.4 | 3.8 | | | | | | |
| | | | | | | | | | 2 | 27.2 | 8.1 | 22.8 | 6.3 | 89.7 | 3.4 | 4.0 | | | | | | |
| | | | | | | | Bottom | 12.1 | 1 | 26.8 | 8.1 | 24.1 | 6.3 | 89.5 | 4.3 | 5.5 | | | | | | |
| | | | | | | | | | 2 | 26.8 | 8.1 | 24.1 | 6.3 | 89.5 | 4.3 | 5.8 | | | | | | |
| | | TCE-WQM1 | Cloudy | Calm | 11:43 | 8.0 | Surface | 1.0 | 1 | 28.1 | 8.1 | 18.1 | 6.5 | 92.4 | 4.6 | 3.2 | 5.9 | 6.3 | 4.2 | | | |
| | | | | | | | | | 2 | 28.2 | 8.1 | 18.1 | 6.5 | 92.1 | 4.6 | 2.9 | | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 27.4 | 8.0 | 21.1 | 5.3 | 74.8 | 6.2 | 4.0 | | | | | | |
| | | | | | | | | | 2 | 27.3 | 8.0 | 21.1 | 5.3 | 74.7 | 6.2 | 4.1 | | | | | | |
| | | | | | | | Bottom | 7.0 | 1 | 26.7 | 8.0 | 23.4 | 4.6 | 65.7 | 8.2 | 5.6 | | | | | | |
| | | | | | | | | | 2 | 26.7 | 8.0 | 23.4 | 4.6 | 65.8 | 8.3 | 5.4 | | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 11:07 | 7.7 | Surface | 1.0 | 1 | 28.0 | 8.2 | 20.2 | 6.9 | 99.1 | 7.4 | 7.2 | 6.7 | 7.6 | 8.4 | | | |
| | | | | | | | | | 2 | 28.0 | 8.2 | 20.2 | 6.9 | 99.1 | 7.4 | 7.6 | | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 27.6 | 8.2 | 21.3 | 6.5 | 93.0 | 7.6 | 8.3 | | | | | | |
| | | | | | | | | | 2 | 27.6 | 8.2 | 21.3 | 6.5 | 93.1 | 7.6 | 8.6 | | | | | | |
| | | | | | | | Bottom | 6.7 | 1 | 27.3 | 8.1 | 22.6 | 6.3 | 89.9 | 8.0 | 9.5 | | | | | | |
| | | | | | | | | | 2 | 27.3 | 8.1 | 22.5 | 6.3 | 89.9 | 7.9 | 9.1 | | | | | | |
| | | TCE-WQM2b | Cloudy | Moderate | 10:54 | 12.4 | Surface | 1.0 | 1 | 28.3 | 8.1 | 16.3 | 6.9 | 97.1 | 2.7 | 2.6 | 6.6 | 4.1 | 3.8 | | | |
| | | | | | | | | | 2 | 28.3 | 8.1 | 16.3 | 6.9 | 97.1 | 2.8 | 2.2 | | | | | | |
| | | | | | | | Middle | 6.2 | 1 | 27.8 | 8.1 | 19.4 | 6.3 | 89.9 | 4.2 | 3.8 | | | | | | |
| | | | | | | | | | 2 | 27.8 | 8.1 | 19.4 | 6.3 | 89.9 | 4.3 | 3.7 | | | | | | |
| | | | | | | | Bottom | 11.4 | 1 | 27.8 | 8.1 | 19.3 | 6.3 | 89.5 | 5.5 | 5.0 | | | | | | |
| | | | | | | | | | 2 | 27.8 | 8.1 | 19.3 | 6.3 | 89.5 | 5.3 | 5.3 | | | | | | |
| | | TCE-WQM3A | Cloudy | Calm | 11:20 | 4.1 | Surface | 1.0 | 1 | 28.4 | 8.2 | 19.3 | 6.8 | 97.8 | 7.4 | 11.8 | 6.8 | 8.5 | 12.8 | | | |
| | | | | | | | | | 2 | 28.4 | 8.2 | 19.3 | 6.8 | 97.6 | 7.4 | 11.5 | | | | | | |
| | | | | | | | Bottom | 3.1 | 1 | 27.2 | 8.1 | 22.8 | 5.6 | 79.4 | 9.7 | 13.8 | | | | | | |
| | | | | | | | | | 2 | 27.2 | 8.1 | 22.8 | 5.6 | 79.4 | 9.7 | 14.0 | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 28.4 | 8.3 | 18.9 | 7.7 | 110.6 | 5.2 | 5.8 | | | | 7.7 | 5.6 | 5.5 |
| | | | | | | | | | 2 | 28.4 | 8.3 | 18.9 | 7.7 | 110.4 | 5.2 | 6.1 | | | | | | |
| | | Middle | 2.5 | 1 | 28.2 | 8.2 | 19.4 | 6.3 | 90.3 | 5.9 | 5.2 | | | | | | | | | | | |
| | | | | 2 | 28.2 | 8.2 | 19.4 | 6.3 | 90.3 | 5.9 | 5.0 | | | | | | | | | | | |
| | | Bottom | 11.4 | 1 | 27.8 | 8.1 | 19.3 | 6.3 | 89.5 | 5.5 | 5.0 | | | | | | | | | | | |
| | | | | 2 | 27.8 | 8.1 | 19.3 | 6.3 | 89.5 | 5.3 | 5.3 | | | | | | | | | | | |
| | | 03-07-20 | Mid-Flood | TCE-C1 | Cloudy | Calm | 17:05 | 7.9 | Surface | 1.0 | 1 | 28.4 | 8.1 | 16.2 | 6.4 | 89.5 | 4.9 | 3.8 | 6.1 | 5.7 | 3.0 | |
| | | | | | | | | | | | 2 | 28.4 | 8.1 | 16.2 | 6.3 | 89.4 | 4.9 | 3.9 | | | | |
| | | | | | | | | | Middle | 4.0 | 1 | 28.0 | 8.1 | 17.8 | 5.8 | 81.7 | 5.2 | 2.9 | | | | |
| | | | | | | | | | | | 2 | 28.0 | 8.1 | 17.8 | 5.8 | 81.7 | 5.1 | 2.7 | | | | |
| | | | | | | | | | Bottom | 6.9 | 1 | 27.1 | 8.0 | 21.9 | 5.3 | 75.2 | 7.2 | 2.1 | | | | |
| | | | | | | | | | | | 2 | 27.1 | 8.1 | 21.9 | 5.3 | 75.3 | 7.2 | 2.4 | | | | |
| | | | | TCE-C2 | Cloudy | Moderate | 19:18 | 12.5 | Surface | 1.0 | 1 | 27.5 | 8.2 | 21.2 | 6.4 | 91.5 | 3.4 | 3.6 | 5.6 | 5.3 | 3.1 | |
| | | | | | | | | | | | 2 | 27.5 | 8.2 | 21.2 | 6.4 | 91.5 | 3.4 | 3.8 | | | | |
| Middle | 6.3 | | | | | | | | 1 | 26.0 | 8.0 | 26.7 | 4.8 | 68.1 | 5.4 | 3.4 | | | | | | |
| | | | | | | | | | 2 | 26.0 | 8.0 | 26.7 | 4.8 | 68.2 | 5.5 | 3.2 | | | | | | |
| Bottom | 11.5 | | | | | | | | 1 | 25.1 | 8.0 | 29.5 | 4.4 | 63.3 | 7.0 | 2.5 | | | | | | |
| | | | | | | | | | 2 | 25.1 | 8.0 | 29.5 | 4.4 | 63.4 | 6.9 | 2.3 | | | | | | |
| TCE-WQM1 | Cloudy | | | Calm | 17:52 | 8.4 | Surface | 1.0 | 1 | 28.5 | 8.2 | 18.9 | 8.5 | 121.2 | 7.6 | 6.4 | 8.6 | 7.5 | 5.7 | | | |
| | | | | | | | | | 2 | 28.5 | 8.2 | 19.0 | 8.5 | 121.3 | 7.6 | 6.9 | | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 28.6 | 8.3 | 19.4 | 8.7 | 125.0 | 6.9 | 5.3 | | | | | | |
| | | | | | | | | | 2 | 28.6 | 8.3 | 19.4 | 8.7 | 124.8 | 6.9 | 5.0 | | | | | | |
| | | | | | | | Bottom | 7.4 | 1 | 28.3 | 8.2 | 20.2 | 7.5 | 108.1 | 8.2 | 5.1 | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 20.2 | 7.8 | 111.9 | 8.1 | 5.3 | | | | | | |
| TCE-WQM2a | Cloudy | | | Moderate | 18:35 | 7.3 | Surface | 1.0 | 1 | 28.5 | 8.2 | 17.4 | 7.6 | 108.0 | 4.5 | 5.5 | 7.2 | 6.4 | 4.2 | | | |
| | | | | | | | | | 2 | 28.5 | 8.2 | 17.4 | 7.6 | 108.0 | 4.5 | 5.8 | | | | | | |
| | | | | | | | Middle | 3.7 | 1 | 28.0 | 8.2 | 19.6 | 6.9 | 97.6 | 6.9 | 3.8 | | | | | | |
| | | | | | | | | | 2 | 28.0 | 8.1 | 19.6 | 6.8 | 97.4 | 6.8 | 4.2 | | | | | | |
| | | | | | | | Bottom | 6.3 | 1 | 27.0 | 8.1 | 23.0 | 5.5 | 78.4 | 8.0 | 3.1 | | | | | | |
| | | | | | | | | | 2 | 27.0 | 8.1 | 23.0 | 5.5 | 78.5 | 7.9 | 2.8 | | | | | | |
| TCE-WQM2b | Cloudy | | | Moderate | 18:47 | 10.7 | Surface | 1.0 | 1 | 27.9 | 8.2 | 18.9 | 6.9 | 97.1 | 3.8 | 2.6 | 6.3 | 5.2 | 3.6 | | | |
| | | | | | | | | | 2 | 27.9 | 8.2 | 18.9 | 6.9 | 97.2 | 3.8 | 2.3 | | | | | | |
| | | | | | | | Middle | 5.4 | 1 | 27.2 | 8.1 | 22.1 | 5.7 | 81.4 | 4.4 | 3.4 | | | | | | |
| | | | | | | | | | 2 | 27.2 | 8.1 | 22.1 | 5.7 | 81.3 | 4.5 | 3.8 | | | | | | |
| | | | | | | | Bottom | 9.7 | 1 | 26.3 | 8.0 | 25.6 | 4.7 | 67.7 | 7.3 | 4.6 | | | | | | |
| | | | | | | | | | 2 | 26.3 | 8.0 | 25.5 | 4.7 | 67.8 | 7.4 | 4.8 | | | | | | |
| TCE-WQM3A | Cloudy | | | Calm | 18:24 | 3.8 | Surface | 1.0 | 1 | 28.5 | 8.2 | 17.9 | 8.1 | 115.7 | 3.9 | 2.7 | 8.1 | 4.0 | 3.4 | | | |
| | | | | | | | | | 2 | 28.5 | 8.2 | 17.9 | 8.1 | 115.8 | 4.0 | 2.9 | | | | | | |
| | | | | | | | Middle | 2.8 | 1 | 28.5 | 8.2 | 18.5 | 8.2 | 117.3 | 4.1 | 3.8 | | | | | | |
| | | | | | | | | | 2 | 28.5 | 8.2 | 18.4 | 8.2 | 117.0 | 4.1 | 4.1 | | | | | | |
| | | | | | | | Bottom | 2.1 | 1 | 28.3 | 8.2 | 18.8 | 7.5 | 107.3 | 13.6 | 6.4 | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 18.8 | 7.5 | 107.3 | 13.6 | 6.1 | | | | | | |
| TCE-WQM4 | Cloudy | | | Calm | 18:12 | 3.1 | Surface | 1.0 | 1 | 28.3 | 8.2 | 18.8 | 7.5 | 107.3 | 13.6 | 6.4 | 7.5 | 14.6 | 6.5 | | | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 18.8 | 7.5 | 107.3 | 13.6 | 6.1 | | | | | | |
| | | | | | | | Middle | 2.1 | 1 | 28.3 | 8.2 | 19.1 | 7.5 | 107.4 | 15.7 | 6.5 | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 19.1 | 7.5 | 107.3 | 15.5 | 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) |
| 06-07-20 | Mid-Ebb | TCE-C1 | Fine | Moderate | 12:08 | 8.3 | Surface | 1.0 | 1 | 28.5 | 8.1 | 17.6 | 7.3 | 103.3 | 3.3 | 4.0 | 6.4 | 7.1 | 3.6 |
| | | | | | | | | | 2 | 28.5 | 8.1 | 17.7 | 7.3 | 103.1 | 3.3 | 4.4 | | | |
| | | | | | | | Middle | 4.2 | 1 | 27.9 | 7.9 | 19.2 | 5.5 | 78.6 | 6.8 | 3.5 | | | |
| | | | | | | | | 2 | 27.9 | 7.9 | 19.2 | 5.5 | 77.8 | 7.0 | 3.4 | | | | |
| | | | | | | | Bottom | 7.3 | 1 | 25.0 | 7.8 | 30.2 | 3.8 | 54.5 | 11.0 | 3.0 | | | |
| | | | | | | | | 2 | 25.0 | 7.8 | 30.2 | 3.8 | 54.9 | 11.2 | 3.2 | | | | |
| | | TCE-C2 | Fine | Moderate | 13:53 | 13.1 | Surface | 1.0 | 1 | 28.6 | 7.9 | 18.3 | 6.5 | 92.7 | 3.3 | 2.6 | 6.5 | 4.8 | 3.0 |
| | | | | | | | | | 2 | 28.6 | 7.9 | 18.3 | 6.5 | 92.7 | 3.5 | 2.8 | | | |
| | | | | | | | Middle | 6.6 | 1 | 28.6 | 7.9 | 18.2 | 6.4 | 92.0 | 4.2 | 3.1 | | | |
| | | | | | | | | 2 | 28.6 | 7.9 | 18.2 | 6.4 | 92.0 | 4.3 | 2.9 | | | | |
| | | | | | | | Bottom | 12.1 | 1 | 28.0 | 7.9 | 20.0 | 6.0 | 85.2 | 6.7 | 3.0 | | | |
| | | | | | | | | 2 | 28.0 | 7.9 | 20.1 | 6.0 | 85.0 | 7.0 | 3.3 | | | | |
| | | TCE-WQM1 | Fine | Calm | 12:46 | 8.2 | Surface | 1.0 | 1 | 28.4 | 7.9 | 18.8 | 6.2 | 89.0 | 5.2 | 3.4 | 6.1 | 7.0 | 4.6 |
| | | | | | | | | | 2 | 28.4 | 7.9 | 18.8 | 6.2 | 88.4 | 5.2 | 3.9 | | | |
| | | | | | | | Middle | 4.1 | 1 | 28.2 | 7.9 | 19.1 | 6.0 | 84.8 | 6.8 | 4.3 | | | |
| | | | | | | | | 2 | 28.2 | 7.9 | 19.2 | 5.9 | 84.4 | 7.2 | 4.7 | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 28.1 | 7.9 | 19.5 | 5.8 | 83.1 | 9.0 | 5.5 | | | |
| | | | | | | | | 2 | 28.1 | 7.9 | 19.5 | 5.8 | 83.2 | 8.8 | 5.8 | | | | |
| | | TCE-WQM2a | Fine | Moderate | 13:17 | 6.9 | Surface | 1.0 | 1 | 28.9 | 7.9 | 19.6 | 6.5 | 93.9 | 4.2 | 6.1 | 6.3 | 5.1 | 5.6 |
| | | | | | | | | | 2 | 28.9 | 7.9 | 19.6 | 6.5 | 93.9 | 4.2 | 6.5 | | | |
| | | | | | | | Middle | 3.5 | 1 | 28.3 | 7.9 | 20.4 | 6.1 | 88.0 | 5.1 | 5.4 | | | |
| | | | | | | | | 2 | 28.2 | 7.9 | 20.6 | 6.1 | 88.0 | 5.1 | 5.4 | | | | |
| | | | | | | | Bottom | 5.9 | 1 | 27.7 | 7.9 | 21.6 | 5.8 | 82.5 | 6.0 | 5.2 | | | |
| | | | | | | | | 2 | 27.7 | 7.9 | 21.6 | 5.8 | 82.5 | 6.3 | 4.8 | | | | |
| | | TCE-WQM2b | Fine | Moderate | 13:28 | 11.3 | Surface | 1.0 | 1 | 28.9 | 7.9 | 17.4 | 6.6 | 94.3 | 2.7 | 2.7 | 6.1 | 6.3 | 3.5 |
| | | | | | | | | | 2 | 28.9 | 7.9 | 17.4 | 6.6 | 93.9 | 2.6 | 2.8 | | | |
| | | | | | | | Middle | 5.7 | 1 | 27.8 | 7.8 | 20.1 | 5.5 | 78.9 | 6.8 | 3.4 | | | |
| | | | | | | | | 2 | 27.8 | 7.8 | 20.1 | 5.5 | 78.9 | 6.8 | 3.6 | | | | |
| | | | | | | | Bottom | 10.3 | 1 | 27.6 | 7.9 | 21.0 | 5.4 | 77.6 | 9.4 | 4.5 | | | |
| | | | | | | | | 2 | 27.6 | 7.9 | 21.1 | 5.5 | 77.8 | 9.4 | 4.0 | | | | |
| | | TCE-WQM3A | Fine | Calm | 13:06 | 3.9 | Surface | 1.0 | 1 | 28.8 | 7.9 | 18.6 | 6.2 | 89.4 | 7.6 | 7.7 | 6.2 | 8.9 | 9.0 |
| | | | | | | | | | 2 | 28.7 | 7.9 | 18.6 | 6.2 | 89.1 | 7.7 | 7.6 | | | |
| | | | | | | | Bottom | 2.9 | 1 | 28.0 | 7.8 | 19.8 | 5.4 | 76.8 | 10.3 | 10.6 | | | |
| | | | | | | | | 2 | 28.1 | 7.8 | 19.7 | 5.4 | 77.1 | 10.1 | 10.2 | | | | |
| | | | | | | | Surface | 1.0 | 1 | 29.2 | 8.0 | 18.2 | 7.6 | 110.0 | 3.4 | 3.5 | | | |
| | | | | | | | | 2 | 29.0 | 8.0 | 18.2 | 7.6 | 109.4 | 3.7 | 3.4 | | | | |
| | | TCE-WQM4 | Fine | Calm | 12:57 | 3.5 | Bottom | 2.5 | 1 | 28.5 | 7.9 | 19.3 | 6.1 | 87.7 | 6.4 | 4.6 | 6.1 | 5.2 | 3.9 |
| | | | | | | | | | 2 | 28.5 | 7.9 | 19.3 | 6.1 | 87.7 | 7.4 | 4.2 | | | |
| | | | | | | | Surface | 1.0 | 1 | 28.0 | 7.9 | 19.0 | 6.3 | 89.0 | 5.7 | 6.6 | | | |
| | | | | | | | | 2 | 28.0 | 7.9 | 19.0 | 6.3 | 88.9 | 5.7 | 7.0 | | | | |
| | | | | | | | Middle | 3.9 | 1 | 25.5 | 7.8 | 28.4 | 4.1 | 59.1 | 5.2 | 8.2 | | | |
| | | | | | | | | 2 | 25.5 | 7.8 | 28.4 | 4.1 | 59.1 | 5.6 | 8.0 | | | | |
| | | TCE-C2 | Fine | Moderate | 6:16 | 13.2 | Surface | 1.0 | 1 | 27.5 | 7.8 | 21.8 | 5.6 | 80.3 | 2.7 | 2.8 | 4.9 | 4.8 | 3.7 |
| | | | | | | | | | 2 | 27.5 | 7.8 | 21.8 | 5.6 | 80.5 | 2.7 | 2.4 | | | |
| | | | | | | | Middle | 6.6 | 1 | 24.7 | 7.8 | 30.4 | 4.2 | 60.3 | 4.8 | 4.0 | | | |
| | | | | | | | | 2 | 24.6 | 7.8 | 30.6 | 4.2 | 60.0 | 5.1 | 3.7 | | | | |
| | | | | | | | Bottom | 12.2 | 1 | 24.4 | 7.8 | 31.4 | 4.2 | 60.0 | 6.9 | 4.4 | | | |
| | | | | | | | | 2 | 24.5 | 7.8 | 31.2 | 4.2 | 60.2 | 6.5 | 4.7 | | | | |
| TCE-WQM1 | Fine | Calm | 7:40 | 8.2 | Surface | 1.0 | 1 | 28.4 | 7.9 | 18.9 | 5.9 | 84.5 | 7.5 | 6.5 | 5.8 | 9.3 | 7.4 | | |
| | | | | | | | 2 | 28.4 | 7.9 | 18.9 | 5.9 | 84.5 | 7.7 | 6.7 | | | | | |
| | | | | | Middle | 4.1 | 1 | 28.2 | 7.9 | 19.3 | 5.7 | 80.9 | 9.8 | 7.3 | | | | | |
| | | | | | | 2 | 28.2 | 7.9 | 19.3 | 5.7 | 80.7 | 10.0 | 7.2 | | | | | | |
| | | | | | Bottom | 7.2 | 1 | 28.0 | 7.9 | 20.2 | 5.5 | 79.0 | 10.5 | 8.0 | | | | | |
| | | | | | | 2 | 28.0 | 7.9 | 20.1 | 5.6 | 79.3 | 10.5 | 8.4 | | | | | | |
| TCE-WQM2a | Fine | Moderate | 6:55 | 7.2 | Surface | 1.0 | 1 | 28.6 | 7.9 | 17.4 | 6.4 | 90.5 | 2.9 | 2.2 | 5.9 | 6.9 | 3.0 | | |
| | | | | | | | 2 | 28.6 | 7.9 | 17.4 | 6.4 | 90.5 | 2.9 | 2.1 | | | | | |
| | | | | | Middle | 3.6 | 1 | 28.1 | 7.9 | 19.2 | 5.5 | 78.7 | 3.1 | 3.0 | | | | | |
| | | | | | | 2 | 28.1 | 7.9 | 19.2 | 5.5 | 78.3 | 3.2 | 3.4 | | | | | | |
| | | | | | Bottom | 6.2 | 1 | 26.5 | 7.9 | 25.4 | 5.2 | 74.1 | 14.6 | 3.9 | | | | | |
| | | | | | | 2 | 26.5 | 7.9 | 25.3 | 5.3 | 75.6 | 14.7 | 3.5 | | | | | | |
| TCE-WQM2b | Fine | Moderate | 6:43 | 11.1 | Surface | 1.0 | 1 | 28.2 | 7.8 | 18.7 | 5.7 | 81.6 | 4.3 | 2.4 | 5.2 | 9.0 | 2.8 | | |
| | | | | | | | 2 | 28.2 | 7.8 | 18.7 | 5.7 | 81.5 | 4.2 | 2.2 | | | | | |
| | | | | | Middle | 5.6 | 1 | 26.0 | 7.8 | 26.4 | 4.7 | 67.6 | 10.2 | 2.5 | | | | | |
| | | | | | | 2 | 25.9 | 7.8 | 26.4 | 4.7 | 67.6 | 10.1 | 2.7 | | | | | | |
| | | | | | Bottom | 10.1 | 1 | 25.5 | 7.8 | 28.4 | 4.8 | 68.6 | 12.5 | 3.6 | | | | | |
| | | | | | | 2 | 25.5 | 7.8 | 28.3 | 4.8 | 69.3 | 12.6 | 3.1 | | | | | | |
| TCE-WQM3A | Fine | Calm | 7:05 | 4.7 | Surface | 1.0 | 1 | 28.4 | 7.9 | 18.2 | 5.9 | 83.4 | 8.1 | 3.2 | 5.9 | 10.7 | 3.4 | | |
| | | | | | | | 2 | 28.4 | 7.9 | 18.2 | 5.9 | 83.2 | 8.0 | 3.0 | | | | | |
| | | | | | Bottom | 3.7 | 1 | 28.1 | 7.9 | 19.4 | 5.7 | 81.3 | 13.2 | 3.5 | | | | | |
| | | | | | | 2 | 28.1 | 7.9 | 19.4 | 5.7 | 81.8 | 13.5 | 3.8 | | | | | | |
| | | | | | Surface | 1.0 | 1 | 28.5 | 7.9 | 18.2 | 6.5 | 92.4 | 3.8 | 4.3 | | | | | |
| | | | | | | 2 | 28.6 | 7.9 | 18.3 | 6.5 | 93.0 | 3.7 | 4.6 | | | | | | |
| TCE-WQM4 | Fine | Calm | 7:17 | 4.5 | Bottom | 3.5 | 1 | 28.7 | 7.9 | 18.6 | 6.6 | 94.1 | 3.3 | 5.1 | 6.6 | 3.6 | 4.8 | | |
| | | | | | | | 2 | 28.7 | 7.9 | 18.6 | 6.6 | 93.9 | 3.4 | 5.1 | | | | | |

| 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) | | | |
| 08-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 13:30 | 8.5 | Surface | 1.0 | 1 | 28.6 | 7.9 | 18.7 | 6.4 | 91.0 | 4.8 | 2.7 | 5.6 | 4.6 | 3.0 | | | |
| | | | | | | | | | 2 | 28.6 | 7.9 | 18.7 | 6.3 | 90.6 | 4.8 | 2.7 | | | | | | |
| | | | | | | | Middle | 4.3 | 1 | 26.6 | 7.9 | 24.7 | 4.9 | 70.6 | 4.0 | 3.1 | | | | | | |
| | | | | | | | | | 2 | 26.6 | 7.9 | 24.8 | 4.9 | 70.4 | 4.0 | 2.9 | | | | | | |
| | | | | | | | Bottom | 7.5 | 1 | 25.4 | 7.8 | 28.8 | 4.0 | 57.7 | 5.0 | 3.0 | | | | | | |
| | | | | | | | | | 2 | 25.4 | 7.8 | 28.8 | 4.0 | 58.1 | 5.1 | 3.4 | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 15:13 | 12.8 | Surface | 1.0 | 1 | 29.1 | 8.0 | 17.2 | 7.0 | 99.6 | 4.0 | 3.2 | 6.9 | 4.2 | 4.0 | | | |
| | | | | | | | | | 2 | 29.1 | 8.0 | 17.2 | 6.9 | 99.4 | 4.0 | 3.0 | | | | | | |
| | | | | | | | Middle | 6.4 | 1 | 29.0 | 7.9 | 17.3 | 6.8 | 97.4 | 4.3 | 3.9 | | | | | | |
| | | | | | | | | | 2 | 28.9 | 7.9 | 17.4 | 6.8 | 97.3 | 4.3 | 4.4 | | | | | | |
| | | | | | | | Bottom | 11.8 | 1 | 28.6 | 7.9 | 18.3 | 6.3 | 89.7 | 4.3 | 4.8 | | | | | | |
| | | | | | | | | | 2 | 28.6 | 7.9 | 18.2 | 6.3 | 89.7 | 4.3 | 4.6 | | | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 14:07 | 8.3 | Surface | 1.0 | 1 | 28.5 | 7.9 | 18.1 | 6.4 | 91.4 | 5.0 | 5.5 | 6.2 | 6.8 | 5.2 | | | |
| | | | | | | | | | 2 | 28.5 | 7.9 | 18.2 | 6.4 | 91.2 | 5.0 | 5.6 | | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 28.2 | 7.8 | 18.8 | 6.1 | 86.5 | 6.5 | 5.3 | | | | | | |
| | | | | | | | | | 2 | 28.2 | 7.8 | 18.9 | 6.0 | 85.4 | 7.2 | 5.0 | | | | | | |
| | | | | | | | Bottom | 7.3 | 1 | 27.8 | 7.8 | 21.0 | 5.0 | 72.1 | 8.5 | 4.9 | | | | | | |
| | | | | | | | | | 2 | 27.8 | 7.8 | 21.0 | 5.0 | 72.0 | 8.4 | 5.0 | | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 14:40 | 7.6 | Surface | 1.0 | 1 | 28.7 | 8.0 | 19.7 | 6.7 | 96.7 | 3.8 | 5.5 | 6.5 | 8.3 | 4.8 | | | |
| | | | | | | | | | 2 | 28.7 | 8.0 | 19.7 | 6.7 | 96.7 | 3.8 | 5.1 | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 28.0 | 7.9 | 20.4 | 6.4 | 90.8 | 9.0 | 4.7 | | | | | | |
| | | | | | | | | | 2 | 27.8 | 7.9 | 20.5 | 6.3 | 90.4 | 8.3 | 4.9 | | | | | | |
| | | | | | | | Bottom | 6.6 | 1 | 27.5 | 7.9 | 23.1 | 5.4 | 78.4 | 12.8 | 4.0 | | | | | | |
| | | | | | | | | | 2 | 27.6 | 7.9 | 23.0 | 5.5 | 79.7 | 12.2 | 4.5 | | | | | | |
| | | TCE-WQM2b | Cloudy | Moderate | 14:52 | 11.0 | Surface | 1.0 | 1 | 28.8 | 8.0 | 17.9 | 6.6 | 94.9 | 3.2 | 3.4 | 6.3 | 6.7 | 3.8 | | | |
| | | | | | | | | | 2 | 28.8 | 8.0 | 17.9 | 6.6 | 94.8 | 3.2 | 3.2 | | | | | | |
| | | | | | | | Middle | 5.5 | 1 | 28.2 | 7.9 | 19.2 | 5.9 | 84.7 | 6.3 | 3.5 | | | | | | |
| | | | | | | | | | 2 | 28.2 | 7.9 | 19.2 | 5.9 | 84.7 | 6.3 | 3.8 | | | | | | |
| | | | | | | | Bottom | 10.0 | 1 | 28.0 | 7.9 | 19.6 | 5.9 | 84.0 | 10.7 | 4.2 | | | | | | |
| | | | | | | | | | 2 | 28.0 | 7.9 | 19.6 | 5.9 | 84.0 | 10.8 | 4.6 | | | | | | |
| | | TCE-WQM3A | Cloudy | Moderate | 14:30 | 4.3 | Surface | 1.0 | 1 | 28.0 | 7.9 | 19.4 | 6.0 | 84.7 | 9.3 | 9.8 | 5.9 | 9.3 | 10.7 | | | |
| | | | | | | | | | 2 | 27.9 | 7.9 | 19.5 | 5.9 | 83.3 | 9.4 | 9.9 | | | | | | |
| | | | | | | | Bottom | 3.3 | 1 | 27.7 | 7.9 | 21.6 | 5.6 | 80.2 | 9.3 | 11.3 | | | | | | |
| | | | | | | | | | 2 | 27.8 | 7.9 | 21.6 | 5.6 | 80.6 | 9.3 | 11.6 | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 29.0 | 8.0 | 18.3 | 7.4 | 105.9 | 5.1 | 4.0 | | | | 7.4 | 5.7 | 4.1 |
| | | | | | | | | | 2 | 29.0 | 8.0 | 18.3 | 7.3 | 105.5 | 5.2 | 3.9 | | | | | | |
| | | Middle | 2.9 | 1 | 29.0 | 8.0 | 18.3 | 7.2 | 103.2 | 6.1 | 4.3 | | | | | | | | | | | |
| | | | | 2 | 29.0 | 8.0 | 18.3 | 7.2 | 103.4 | 6.3 | 4.0 | | | | | | | | | | | |
| | | Bottom | 2.9 | 1 | 28.2 | 8.0 | 19.7 | 5.9 | 84.5 | 3.7 | 2.4 | | | | | | | | | | | |
| | | | | 2 | 28.2 | 8.0 | 19.6 | 5.9 | 83.6 | 3.5 | 2.2 | | | | | | | | | | | |
| | | 08-07-20 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 9:14 | 8.2 | Surface | 1.0 | 1 | 28.2 | 8.0 | 19.7 | 5.9 | 84.5 | 3.7 | 2.4 | 4.7 | 8.3 | 2.8 | |
| | | | | | | | | | | | 2 | 28.2 | 8.0 | 19.6 | 5.9 | 83.6 | 3.5 | 2.2 | | | | |
| | | | | | | | | | Middle | 4.1 | 1 | 25.1 | 7.8 | 29.7 | 3.6 | 51.4 | 8.9 | 2.6 | | | | |
| | | | | | | | | | | | 2 | 25.1 | 7.8 | 29.7 | 3.6 | 51.3 | 9.1 | 3.0 | | | | |
| | | | | | | | | | Bottom | 7.2 | 1 | 24.7 | 7.8 | 30.9 | 3.7 | 53.6 | 12.3 | 3.3 | | | | |
| | | | | | | | | | | | 2 | 24.7 | 7.8 | 30.9 | 3.8 | 53.9 | 12.3 | 3.1 | | | | |
| | | | | TCE-C2 | Cloudy | Moderate | 7:12 | 11.8 | Surface | 1.0 | 1 | 28.0 | 7.9 | 19.7 | 6.1 | 86.5 | 2.5 | 2.2 | 5.3 | 4.3 | 2.7 | |
| | | | | | | | | | | | 2 | 28.0 | 7.9 | 19.7 | 6.1 | 86.4 | 2.5 | 2.3 | | | | |
| Middle | 5.9 | | | | | | | | 1 | 25.7 | 7.8 | 27.3 | 4.5 | 65.1 | 4.9 | 2.7 | | | | | | |
| | | | | | | | | | 2 | 25.8 | 7.8 | 27.2 | 4.6 | 65.2 | 4.9 | 2.6 | | | | | | |
| Bottom | 10.8 | | | | | | | | 1 | 24.2 | 7.9 | 31.7 | 4.1 | 58.3 | 5.5 | 3.3 | | | | | | |
| | | | | | | | | | 2 | 24.2 | 7.9 | 31.7 | 4.1 | 58.3 | 5.5 | 3.1 | | | | | | |
| TCE-WQM1 | Cloudy | | | Moderate | 8:28 | 7.6 | Surface | 1.0 | 1 | 28.6 | 7.9 | 18.6 | 6.3 | 89.9 | 7.3 | 1.8 | 6.1 | 10.6 | 2.3 | | | |
| | | | | | | | | | 2 | 28.6 | 7.9 | 18.6 | 6.3 | 89.5 | 7.5 | 1.7 | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 28.2 | 7.8 | 19.0 | 5.9 | 83.9 | 10.2 | 2.2 | | | | | | |
| | | | | | | | | | 2 | 28.2 | 7.8 | 19.0 | 5.9 | 83.9 | 10.8 | 2.4 | | | | | | |
| | | | | | | | Bottom | 6.6 | 1 | 27.7 | 7.8 | 21.6 | 5.2 | 74.3 | 14.0 | 3.0 | | | | | | |
| | | | | | | | | | 2 | 27.7 | 7.8 | 21.6 | 5.2 | 74.6 | 13.9 | 2.7 | | | | | | |
| TCE-WQM2a | Cloudy | | | Moderate | 7:45 | 7.6 | Surface | 1.0 | 1 | 28.4 | 7.9 | 17.7 | 6.2 | 88.4 | 5.1 | 2.4 | 5.9 | 3.9 | 2.7 | | | |
| | | | | | | | | | 2 | 28.4 | 7.9 | 17.7 | 6.2 | 88.4 | 5.1 | 2.2 | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 27.3 | 7.9 | 22.5 | 5.5 | 78.5 | 3.6 | 2.5 | | | | | | |
| | | | | | | | | | 2 | 27.2 | 7.9 | 22.6 | 5.5 | 78.4 | 3.6 | 2.4 | | | | | | |
| | | | | | | | Bottom | 6.6 | 1 | 26.9 | 7.9 | 23.9 | 5.5 | 78.0 | 3.1 | 3.4 | | | | | | |
| | | | | | | | | | 2 | 26.8 | 7.9 | 23.9 | 5.5 | 78.1 | 3.1 | 3.2 | | | | | | |
| TCE-WQM2b | Cloudy | | | Moderate | 7:39 | 10.8 | Surface | 1.0 | 1 | 28.6 | 7.9 | 17.7 | 6.0 | 85.5 | 3.3 | 2.2 | 5.4 | 7.0 | 2.6 | | | |
| | | | | | | | | | 2 | 28.6 | 7.9 | 17.7 | 6.0 | 85.2 | 3.4 | 2.3 | | | | | | |
| | | | | | | | Middle | 5.4 | 1 | 26.9 | 7.9 | 23.9 | 4.9 | 70.0 | 8.7 | 2.6 | | | | | | |
| | | | | | | | | | 2 | 27.0 | 7.9 | 23.8 | 4.9 | 69.9 | 8.9 | 2.6 | | | | | | |
| | | | | | | | Bottom | 9.8 | 1 | 24.9 | 7.9 | 30.1 | 4.3 | 61.9 | 8.6 | 2.7 | | | | | | |
| | | | | | | | | | 2 | 24.9 | 7.9 | 30.1 | 4.3 | 62.2 | 8.9 | 3.1 | | | | | | |
| TCE-WQM3A | Cloudy | | | Moderate | 7:54 | 4.5 | Surface | 1.0 | 1 | 28.6 | 7.9 | 17.1 | 6.2 | 87.4 | 8.3 | 2.5 | 6.2 | 9.6 | 2.3 | | | |
| | | | | | | | | | 2 | 28.6 | 7.9 | 17.1 | 6.2 | 87.4 | 8.7 | 2.4 | | | | | | |
| | | | | | | | Middle | 3.5 | 1 | 28.4 | 7.9 | 18.3 | 5.9 | 83.3 | 10.5 | 2.2 | | | | | | |
| | | | | | | | | | 2 | 28.4 | 7.9 | 18.3 | 5.9 | 83.5 | 11.0 | 2.1 | | | | | | |
| | | | | | | | Bottom | 2.9 | 1 | 28.9 | 8.0 | 17.3 | 6.9 | 97.9 | 6.6 | 3.0 | | | | | | |
| | | | | | | | | | 2 | 28.9 | 8.0 | 17.3 | 6.9 | 97.8 | 6.5 | 3.2 | | | | | | |
| TCE-WQM4 | Cloudy | | | Moderate | 8:05 | 3.9 | Surface | 1.0 | 1 | 28.9 | 8.0 | 17.3 | 6.9 | 97.9 | 6.6 | 3.0 | 6.9 | 6.5 | 2.8 | | | |
| | | | | | | | | | 2 | 28.8 | 8.0 | 17.5 | 6.8 | 96.4 | 6.4 | 2.5 | | | | | | |
| | | | | | | | Middle | 2.9 | 1 | 28.8 | 8.0 | 17.5 | 6.8 | 96.4 | 6.4 | 2.5 | | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.0 | 17.5 | 6.7 | 96.2 | 6.5 | 2.3 | | | | | | |

| 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) | |
| 10-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Rough | 14:45 | 7.8 | Surface | 1.0 | 1 | 28.8 | 8.0 | 17.4 | 7.1 | 101.0 | 2.6 | 2.4 | 6.0 | 5.6 | 2.7 | |
| | | | | | | | | | 2 | 28.8 | 8.0 | 17.4 | 7.1 | 100.6 | 2.7 | 2.1 | | | | |
| | | | | | | | Middle | 3.9 | 1 | 28.8 | 7.8 | 23.6 | 4.9 | 69.7 | 5.5 | 2.9 | | | | |
| | | | | | | | | | 2 | 26.9 | 7.8 | 23.4 | 4.9 | 69.5 | 5.4 | 2.6 | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 24.7 | 7.8 | 31.2 | 4.1 | 59.0 | 8.6 | 3.0 | | | | |
| | | | | | | | | | 2 | 24.7 | 7.8 | 31.2 | 4.1 | 59.5 | 8.6 | 3.2 | | | | |
| | | TCE-C2 | Cloudy | Rough | 16:31 | 11.6 | Surface | 1.0 | 1 | 29.0 | 8.0 | 17.1 | 7.4 | 105.9 | 2.7 | 2.5 | 7.0 | 3.7 | 3.7 | |
| | | | | | | | | | 2 | 28.9 | 8.0 | 17.2 | 7.4 | 105.6 | 2.6 | 2.9 | | | | |
| | | | | | | | Middle | 5.8 | 1 | 28.5 | 8.0 | 18.3 | 6.7 | 95.2 | 3.3 | 3.9 | | | | |
| | | | | | | | | | 2 | 28.5 | 8.0 | 18.3 | 6.7 | 95.3 | 3.3 | 3.6 | | | | |
| | | | | | | | Bottom | 10.6 | 1 | 27.3 | 7.9 | 21.8 | 6.0 | 85.9 | 5.2 | 4.6 | | | | |
| | | | | | | | | | 2 | 27.3 | 7.9 | 21.8 | 6.0 | 86.1 | 5.1 | 4.4 | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 15:22 | 9.0 | Surface | 1.0 | 1 | 28.8 | 8.0 | 18.6 | 7.1 | 102.3 | 4.6 | 5.7 | 6.7 | 6.0 | 5.5 | |
| | | | | | | | | | 2 | 28.7 | 8.0 | 18.7 | 7.1 | 101.8 | 4.7 | 5.9 | | | | |
| | | | | | | | Middle | 4.5 | 1 | 28.4 | 7.9 | 19.3 | 6.2 | 89.0 | 5.4 | 5.4 | | | | |
| | | | | | | | | | 2 | 28.3 | 7.9 | 19.3 | 6.2 | 88.8 | 5.6 | 5.2 | | | | |
| | | | | | | | Bottom | 8.0 | 1 | 27.9 | 7.9 | 21.2 | 5.4 | 76.7 | 7.9 | 5.4 | | | | |
| | | | | | | | | | 2 | 27.9 | 7.9 | 21.2 | 5.3 | 76.8 | 7.6 | 5.2 | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 15:58 | 7.2 | Surface | 1.0 | 1 | 28.6 | 8.0 | 19.1 | 7.4 | 106.6 | 4.6 | 5.2 | 7.1 | 5.1 | 6.5 | |
| | | | | | | | | | 2 | 28.6 | 8.0 | 19.1 | 7.4 | 106.6 | 4.6 | 5.3 | | | | |
| | | | | | | | Middle | 3.6 | 1 | 28.2 | 8.0 | 20.0 | 6.8 | 98.1 | 4.5 | 6.3 | | | | |
| | | | | | | | | | 2 | 28.2 | 8.0 | 20.0 | 6.8 | 98.1 | 4.7 | 6.6 | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 28.0 | 8.0 | 20.6 | 6.5 | 92.4 | 6.1 | 7.4 | | | | |
| | | | | | | | | | 2 | 28.0 | 8.0 | 20.6 | 6.4 | 92.4 | 6.2 | 7.9 | | | | |
| TCE-WQM2b | Cloudy | Moderate | 16:08 | 10.2 | Surface | 1.0 | 1 | 28.9 | 8.0 | 16.7 | 7.3 | 104.3 | 2.3 | 2.2 | 6.8 | 3.8 | 3.1 | | | |
| | | | | | | | 2 | 28.8 | 8.0 | 16.7 | 7.3 | 104.0 | 2.5 | 2.4 | | | | | | |
| | | | | | Middle | 5.1 | 1 | 28.3 | 7.9 | 18.8 | 6.3 | 90.2 | 3.6 | 3.2 | | | | | | |
| | | | | | | | 2 | 28.3 | 7.9 | 18.8 | 6.3 | 89.9 | 3.6 | 2.9 | | | | | | |
| | | | | | Bottom | 9.2 | 1 | 25.9 | 7.9 | 26.9 | 4.7 | 67.5 | 5.3 | 3.7 | | | | | | |
| | | | | | | | 2 | 25.9 | 7.9 | 26.9 | 4.7 | 67.7 | 5.4 | 4.0 | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 15:48 | 3.5 | Surface | 1.0 | 1 | 28.2 | 7.9 | 19.1 | 6.2 | 88.8 | 8.6 | 6.1 | 6.2 | 9.0 | 6.7 | | | |
| | | | | | | | 2 | 28.2 | 7.9 | 19.2 | 6.2 | 88.0 | 8.9 | 6.2 | | | | | | |
| | | | | | Bottom | 2.5 | 1 | 28.1 | 7.9 | 19.4 | 5.8 | 83.0 | 9.4 | 7.0 | | | | | | |
| | | | | | | | 2 | 28.1 | 7.9 | 19.3 | 5.8 | 83.3 | 9.2 | 7.3 | | | | | | |
| | | | | | Surface | 1.0 | 1 | 29.1 | 8.1 | 18.4 | 7.9 | 114.0 | 4.4 | 4.2 | | | | 7.9 | 5.0 | 4.9 |
| | | | | | | | 2 | 29.1 | 8.1 | 18.4 | 7.9 | 114.4 | 4.6 | 3.8 | | | | | | |
| Bottom | 2.3 | 1 | 29.0 | 8.0 | 18.7 | 7.6 | 109.2 | 5.5 | 6.0 | | | | | | | | | | | |
| | | 2 | 29.0 | 8.0 | 18.7 | 7.6 | 108.9 | 5.3 | 5.7 | | | | | | | | | | | |
| Surface | 1.0 | 1 | 28.6 | 8.0 | 17.7 | 6.8 | 96.6 | 3.3 | 3.3 | 5.7 | 5.5 | 3.7 | | | | | | | | |
| | | 2 | 28.6 | 8.0 | 17.8 | 6.7 | 95.8 | 3.4 | 3.0 | | | | | | | | | | | |
| Middle | 3.9 | 1 | 26.4 | 7.8 | 25.5 | 4.6 | 65.4 | 5.1 | 3.2 | | | | | | | | | | | |
| | | 2 | 26.4 | 7.8 | 25.5 | 4.5 | 65.0 | 6.1 | 3.6 | | | | | | | | | | | |
| Bottom | 6.7 | 1 | 24.6 | 7.8 | 31.4 | 4.0 | 57.0 | 7.4 | 4.3 | | | | | | | | | | | |
| | | 2 | 24.6 | 7.8 | 31.4 | 4.0 | 57.6 | 7.6 | 4.6 | | | | | | | | | | | |
| 10-07-20 | Mid-Flood | TCE-C1 | Cloudy | Rough | 11:00 | 7.7 | Surface | 1.0 | 1 | 28.6 | 8.0 | 17.7 | 6.8 | 96.6 | 3.3 | 3.3 | 5.7 | 5.5 | 3.7 | |
| | | | | | | | | | 2 | 28.6 | 8.0 | 17.8 | 6.7 | 95.8 | 3.4 | 3.0 | | | | |
| | | | | | | | Middle | 3.9 | 1 | 26.4 | 7.8 | 25.5 | 4.6 | 65.4 | 5.1 | 3.2 | | | | |
| | | | | | | | | | 2 | 26.4 | 7.8 | 25.5 | 4.5 | 65.0 | 6.1 | 3.6 | | | | |
| | | | | | | | Bottom | 6.7 | 1 | 24.6 | 7.8 | 31.4 | 4.0 | 57.0 | 7.4 | 4.3 | | | | |
| | | | | | | | | | 2 | 24.6 | 7.8 | 31.4 | 4.0 | 57.6 | 7.6 | 4.6 | | | | |
| | | TCE-C2 | Cloudy | Moderate | 7:58 | 11.4 | Surface | 1.0 | 1 | 27.9 | 7.9 | 20.0 | 6.2 | 87.7 | 2.1 | 2.3 | 5.4 | 3.9 | 3.3 | |
| | | | | | | | | | 2 | 27.9 | 7.9 | 20.0 | 6.1 | 87.3 | 2.2 | 2.5 | | | | |
| | | | | | | | Middle | 5.7 | 1 | 25.6 | 7.8 | 27.4 | 4.6 | 65.5 | 3.2 | 2.9 | | | | |
| | | | | | | | | | 2 | 25.6 | 7.8 | 27.5 | 4.6 | 65.3 | 3.7 | 3.2 | | | | |
| | | | | | | | Bottom | 10.4 | 1 | 23.9 | 7.8 | 32.5 | 4.0 | 57.7 | 6.2 | 4.7 | | | | |
| | | | | | | | | | 2 | 23.9 | 7.8 | 32.5 | 4.1 | 57.8 | 6.3 | 4.4 | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 9:09 | 8.9 | Surface | 1.0 | 1 | 28.7 | 7.9 | 18.8 | 6.5 | 93.9 | 5.5 | 6.8 | 6.3 | 7.3 | 7.2 | |
| | | | | | | | | | 2 | 28.7 | 7.9 | 18.8 | 6.5 | 93.5 | 5.5 | 6.5 | | | | |
| | | | | | | | Middle | 4.5 | 1 | 28.5 | 7.9 | 19.1 | 6.2 | 88.3 | 7.6 | 7.2 | | | | |
| | | | | | | | | | 2 | 28.5 | 7.9 | 19.1 | 6.1 | 88.0 | 7.7 | 7.4 | | | | |
| | | | | | | | Bottom | 7.9 | 1 | 28.0 | 7.8 | 20.7 | 5.4 | 77.6 | 8.6 | 7.8 | | | | |
| | | | | | | | | | 2 | 28.0 | 7.8 | 20.9 | 5.4 | 77.3 | 8.8 | 7.7 | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 8:35 | 7.1 | Surface | 1.0 | 1 | 28.3 | 7.9 | 18.7 | 6.5 | 92.3 | 3.8 | 6.9 | 6.2 | 4.3 | 6.7 | |
| | | | | | | | | | 2 | 28.3 | 7.9 | 18.7 | 6.5 | 92.3 | 3.8 | 5.9 | | | | |
| | | | | | | | Middle | 3.6 | 1 | 27.9 | 7.9 | 20.5 | 5.9 | 84.8 | 2.8 | 6.9 | | | | |
| | | | | | | | | | 2 | 27.9 | 7.9 | 20.6 | 5.9 | 84.5 | 3.1 | 6.5 | | | | |
| | | | | | | | Bottom | 6.1 | 1 | 27.7 | 7.9 | 21.2 | 5.6 | 80.5 | 6.1 | 7.2 | | | | |
| | | | | | | | | | 2 | 27.7 | 7.9 | 21.2 | 5.6 | 80.6 | 6.2 | 7.4 | | | | |
| TCE-WQM2b | Cloudy | Moderate | 8:22 | 10.2 | Surface | 1.0 | 1 | 28.6 | 7.9 | 18.0 | 6.3 | 89.3 | 3.4 | 3.1 | 5.7 | 6.1 | 3.9 | | | |
| | | | | | | | 2 | 28.6 | 7.9 | 18.0 | 6.2 | 88.9 | 4.0 | 3.3 | | | | | | |
| | | | | | Middle | 5.1 | 1 | 27.0 | 7.8 | 23.4 | 5.1 | 73.3 | 5.7 | 3.6 | | | | | | |
| | | | | | | | 2 | 27.0 | 7.8 | 23.4 | 5.1 | 72.8 | 5.6 | 3.8 | | | | | | |
| | | | | | Bottom | 9.2 | 1 | 24.7 | 7.8 | 30.6 | 4.3 | 61.3 | 8.9 | 4.9 | | | | | | |
| | | | | | | | 2 | 24.7 | 7.8 | 30.6 | 4.3 | 61.9 | 9.0 | 4.5 | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 8:46 | 3.5 | Surface | 1.0 | 1 | 28.5 | 7.9 | 17.8 | 6.4 | 90.5 | 7.4 | 6.8 | 6.3 | 8.1 | 6.4 | | | |
| | | | | | | | 2 | 28.5 | 7.9 | 17.8 | 6.3 | 90.2 | 8.0 | 7.1 | | | | | | |
| | | | | | Bottom | 2.5 | 1 | 28.5 | 7.9 | 17.8 | 6.3 | 89.4 | 8.6 | 5.7 | | | | | | |
| | | | | | | | 2 | 28.5 | 7.9 | 17.8 | 6.3 | 89.3 | 8.6 | 6.1 | | | | | | |
| | | | | | Surface | 1.0 | 1 | 28.6 | 7.9 | 18.0 | 6.7 | 95.1 | 5.9 | 5.5 | | | | 6.7 | 5.9 | 5.1 |
| | | | | | | | 2 | 28.6 | 7.9 | 18.0 | 6.7 | 95.1 | 5.8 | 5.4 | | | | | | |
| Bottom | 2.2 | 1 | 28.6 | 7.9 | 18.0 | 6.5 | 92.7 | 5.9 | 4.8 | | | | | | | | | | | |
| | | 2 | 28.6 | 7.9 | 18.1 | 6.5 | 92.3 | 5.9 | 4.6 | | | | | | | | | | | |

| 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) | | | |
| 13-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 8:37 | 8.3 | Surface | 1.0 | 1 | 29.8 | 8.0 | 9.2 | 7.5 | 103.6 | 2.9 | 3.0 | 7.0 | 7.3 | 2.9 | | | |
| | | | | | | | | | 2 | 29.7 | 8.0 | 9.2 | 7.5 | 103.6 | 3.0 | 2.7 | | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 28.3 | 7.9 | 19.2 | 6.6 | 94.6 | 4.9 | 2.7 | | | | | | |
| | | | | | | | | 2 | 28.3 | 7.9 | 19.2 | 6.6 | 94.4 | 5.0 | 3.1 | | | | | | | |
| | | | | | | | Bottom | 7.3 | 1 | 25.0 | 7.8 | 30.4 | 5.8 | 83.6 | 13.9 | 2.7 | | | | | | |
| | | | | | | | | 2 | 25.0 | 7.9 | 30.4 | 5.8 | 83.6 | 13.8 | 3.4 | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 6:43 | 13.2 | Surface | 1.0 | 1 | 29.3 | 8.1 | 15.3 | 8.4 | 118.9 | 1.4 | 2.4 | 7.4 | 1.6 | 2.2 | | | |
| | | | | | | | | | 2 | 29.3 | 8.1 | 15.3 | 8.3 | 118.5 | 1.4 | 2.3 | | | | | | |
| | | | | | | | Middle | 6.6 | 1 | 27.8 | 8.0 | 22.1 | 6.6 | 94.5 | 1.4 | 2.2 | | | | | | |
| | | | | | | | | 2 | 27.8 | 8.0 | 22.1 | 6.5 | 94.0 | 1.5 | 2.3 | | | | | | | |
| | | | | | | | Bottom | 12.2 | 1 | 24.7 | 7.8 | 30.7 | 5.3 | 76.2 | 2.0 | 2.1 | | | | | | |
| | | | | | | | | 2 | 24.7 | 7.9 | 30.7 | 5.3 | 76.3 | 1.9 | 2.1 | | | | | | | |
| | | TCE-WQM1 | Cloudy | Calm | 7:55 | 8.1 | Surface | 1.0 | 1 | 29.6 | 7.9 | 18.6 | 9.0 | 131.1 | 5.2 | 5.7 | 7.2 | 10.7 | 7.0 | | | |
| | | | | | | | | | 2 | 29.6 | 7.9 | 18.6 | 9.0 | 130.7 | 5.3 | 6.1 | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 27.8 | 7.9 | 22.7 | 5.5 | 79.6 | 12.7 | 6.6 | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.9 | 22.7 | 5.5 | 79.3 | 12.8 | 6.5 | | | | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 26.9 | 7.9 | 25.0 | 5.4 | 77.9 | 14.1 | 8.6 | | | | | | |
| | | | | | | | | 2 | 26.9 | 7.9 | 25.0 | 5.4 | 78.2 | 14.2 | 8.4 | | | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 7:22 | 7.0 | Surface | 1.0 | 1 | 29.5 | 7.9 | 17.5 | 10.6 | 152.4 | 2.2 | 8.7 | 9.5 | 2.9 | 6.4 | | | |
| | | | | | | | | | 2 | 29.5 | 7.9 | 17.5 | 10.6 | 152.4 | 2.2 | 8.9 | | | | | | |
| | | | | | | | Middle | 3.5 | 1 | 29.1 | 7.9 | 19.1 | 8.5 | 122.2 | 2.9 | 8.4 | | | | | | |
| | | | | | | | | 2 | 29.1 | 7.9 | 19.1 | 8.4 | 121.5 | 2.9 | 8.9 | | | | | | | |
| | | | | | | | Bottom | 6.0 | 1 | 27.8 | 7.9 | 22.6 | 7.0 | 100.6 | 3.6 | 4.9 | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.9 | 22.7 | 7.0 | 100.9 | 3.6 | 4.3 | | | | | | | |
| | | TCE-WQM2b | Cloudy | Moderate | 7:10 | 11.5 | Surface | 1.0 | 1 | 29.8 | 8.0 | 13.7 | 7.9 | 111.8 | 2.9 | 2.5 | 6.4 | 7.0 | 2.6 | | | |
| | | | | | | | | | 2 | 29.8 | 8.0 | 13.7 | 7.9 | 111.8 | 2.9 | 2.2 | | | | | | |
| | | | | | | | Middle | 5.8 | 1 | 26.2 | 8.0 | 26.1 | 5.0 | 71.7 | 9.2 | 2.6 | | | | | | |
| | | | | | | | | 2 | 26.2 | 8.0 | 26.1 | 5.0 | 71.5 | 9.1 | 2.7 | | | | | | | |
| | | | | | | | Bottom | 10.5 | 1 | 24.7 | 8.0 | 31.5 | 5.3 | 76.1 | 9.0 | 2.8 | | | | | | |
| | | | | | | | | 2 | 24.8 | 8.0 | 31.4 | 5.3 | 76.5 | 8.8 | 3.0 | | | | | | | |
| | | TCE-WQM3A | Cloudy | Moderate | 7:33 | 4.3 | Surface | 1.0 | 1 | 29.6 | 7.9 | 17.8 | 9.5 | 138.1 | 4.3 | 3.9 | 9.5 | 4.6 | 4.3 | | | |
| | | | | | | | | | 2 | 29.6 | 7.9 | 17.8 | 9.5 | 137.7 | 4.3 | 3.7 | | | | | | |
| | | | | | | | Bottom | 3.3 | 1 | 29.4 | 7.9 | 18.3 | 8.7 | 126.2 | 4.9 | 5.1 | | | | | | |
| | | | | | | | | 2 | 29.4 | 7.9 | 18.3 | 8.7 | 125.8 | 4.9 | 4.6 | | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 29.4 | 8.0 | 17.9 | 10.2 | 146.5 | 3.6 | 3.2 | | | | 10.1 | 4.8 | 3.2 |
| | | | | | | | | | 2 | 29.4 | 8.0 | 17.9 | 10.1 | 145.8 | 3.6 | 3.0 | | | | | | |
| | | Bottom | 2.9 | 1 | 29.3 | 8.0 | 19.1 | 9.1 | 131.8 | 5.9 | 3.3 | | | | | | | | | | | |
| | | | 2 | 29.3 | 8.0 | 19.1 | 9.1 | 131.7 | 6.2 | 3.3 | | | | | | | | | | | | |
| | | Surface | 1.0 | 1 | 29.8 | 8.1 | 8.9 | 7.6 | 105.8 | 2.7 | 3.9 | 7.4 | 7.2 | 3.3 | | | | | | | | |
| | | | | 2 | 29.8 | 8.1 | 8.9 | 7.6 | 105.8 | 2.8 | 4.0 | | | | | | | | | | | |
| | | Middle | 4.0 | 1 | 28.6 | 7.9 | 17.5 | 7.1 | 101.6 | 4.3 | 3.4 | | | | | | | | | | | |
| | | | 2 | 28.6 | 7.9 | 17.5 | 7.1 | 101.5 | 4.3 | 3.0 | | | | | | | | | | | | |
| | | Bottom | 7.0 | 1 | 25.2 | 7.8 | 30.4 | 6.0 | 86.6 | 14.5 | 2.8 | | | | | | | | | | | |
| | | | 2 | 25.2 | 7.8 | 30.4 | 6.1 | 87.5 | 14.5 | 2.7 | | | | | | | | | | | | |
| | | 13-07-20 | Mid-Flood | TCE-C1 | Fine | Moderate | 10:51 | 8.0 | Surface | 1.0 | 1 | 29.8 | 8.1 | 8.9 | 7.6 | 105.8 | 2.7 | 3.9 | 7.4 | 7.2 | 3.3 | |
| | | | | | | | | | | | 2 | 29.8 | 8.1 | 8.9 | 7.6 | 105.8 | 2.8 | 4.0 | | | | |
| | | | | | | | | | Middle | 4.0 | 1 | 28.6 | 7.9 | 17.5 | 7.1 | 101.6 | 4.3 | 3.4 | | | | |
| | | | | | | | | | | 2 | 28.6 | 7.9 | 17.5 | 7.1 | 101.5 | 4.3 | 3.0 | | | | | |
| Bottom | 7.0 | | | | | | | | 1 | 25.2 | 7.8 | 30.4 | 6.0 | 86.6 | 14.5 | 2.8 | | | | | | |
| | 2 | | | | | | | | 25.2 | 7.8 | 30.4 | 6.1 | 87.5 | 14.5 | 2.7 | | | | | | | |
| TCE-C2 | Fine | | | Moderate | 12:50 | 13.5 | Surface | 1.0 | 1 | 30.3 | 8.0 | 16.2 | 11.3 | 164.6 | 1.8 | 4.0 | 7.9 | 3.5 | 4.3 | | | |
| | | | | | | | | | 2 | 30.3 | 8.0 | 16.2 | 11.3 | 164.2 | 1.7 | 4.1 | | | | | | |
| | | | | | | | Middle | 6.8 | 1 | 24.5 | 8.0 | 30.8 | 4.6 | 65.4 | 4.2 | 4.1 | | | | | | |
| | | | | | | | | 2 | 24.5 | 7.9 | 30.8 | 4.6 | 65.4 | 4.2 | 4.2 | | | | | | | |
| | | | | | | | Bottom | 12.5 | 1 | 23.6 | 7.9 | 33.0 | 4.7 | 66.5 | 4.5 | 4.9 | | | | | | |
| | | | | | | | | 2 | 23.6 | 7.9 | 33.0 | 4.7 | 66.7 | 4.3 | 4.6 | | | | | | | |
| TCE-WQM1 | Fine | | | Calm | 11:31 | 8.2 | Surface | 1.0 | 1 | 30.0 | 7.9 | 17.7 | 10.4 | 152.1 | 3.3 | 4.4 | 9.4 | 7.0 | 3.9 | | | |
| | | | | | | | | | 2 | 30.0 | 7.9 | 17.7 | 10.4 | 150.9 | 3.4 | 4.7 | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 29.4 | 7.9 | 20.4 | 8.5 | 124.6 | 2.0 | 3.8 | | | | | | |
| | | | | | | | | 2 | 29.5 | 7.9 | 20.4 | 8.5 | 124.5 | 2.0 | 3.9 | | | | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 26.7 | 7.9 | 25.0 | 7.5 | 107.8 | 15.6 | 3.3 | | | | | | |
| | | | | | | | | 2 | 26.7 | 8.0 | 25.0 | 7.5 | 107.8 | 15.6 | 3.5 | | | | | | | |
| TCE-WQM2a | Fine | | | Moderate | 12:10 | 7.5 | Surface | 1.0 | 1 | 30.0 | 8.0 | 16.1 | 11.8 | 170.9 | 5.9 | 3.6 | 10.0 | 10.2 | 5.0 | | | |
| | | | | | | | | | 2 | 30.0 | 8.0 | 16.1 | 11.8 | 170.9 | 5.9 | 4.0 | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 29.4 | 7.9 | 18.1 | 8.3 | 120.2 | 10.2 | 5.2 | | | | | | |
| | | | | | | | | 2 | 29.4 | 7.9 | 18.1 | 8.2 | 118.7 | 10.4 | 5.5 | | | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 27.8 | 7.9 | 22.2 | 7.2 | 104.4 | 14.5 | 5.9 | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.9 | 22.2 | 7.3 | 104.7 | 14.5 | 5.7 | | | | | | | |
| TCE-WQM2b | Fine | | | Moderate | 12:21 | 11.5 | Surface | 1.0 | 1 | 30.4 | 8.0 | 13.3 | 9.3 | 132.7 | 3.4 | 2.7 | 7.8 | 7.1 | 3.3 | | | |
| | | | | | | | | | 2 | 30.4 | 8.0 | 13.3 | 9.2 | 132.5 | 3.4 | 3.1 | | | | | | |
| | | | | | | | Middle | 5.8 | 1 | 27.5 | 7.9 | 22.8 | 6.4 | 92.5 | 6.2 | 3.1 | | | | | | |
| | | | | | | | | 2 | 27.5 | 7.9 | 22.8 | 6.4 | 92.1 | 6.2 | 3.4 | | | | | | | |
| | | | | | | | Bottom | 10.5 | 1 | 25.1 | 7.9 | 29.5 | 4.9 | 70.5 | 11.6 | 3.8 | | | | | | |
| | | | | | | | | 2 | 25.1 | 7.9 | 29.5 | 4.9 | 70.7 | 11.8 | 3.5 | | | | | | | |
| TCE-WQM3A | Fine | | | Calm | 12:00 | 4.0 | Surface | 1.0 | 1 | 30.2 | 7.9 | 16.2 | 10.4 | 151.4 | 3.4 | 3.5 | 10.4 | 7.5 | 4.2 | | | |
| | | | | | | | | | 2 | 30.2 | 7.9 | 16.2 | 10.4 | 150.3 | 3.3 | 3.0 | | | | | | |
| | | | | | | | Bottom | 3.0 | 1 | 29.0 | 7.9 | 19.4 | 8.8 | 126.9 | 11.6 | 5.2 | | | | | | |
| | | | | | | | | 2 | 29.0 | 7.9 | 19.4 | 8.8 | 127.2 | 11.6 | 4.9 | | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 29.7 | 8.1 | 17.1 | 11.4 | 165.0 | 6.9 | 4.2 | | | | 11.4 | 9.7 | 5.2 |
| | | | | | | | | | 2 | 29.7 | 8.1 | 17.0 | 11.4 | 164.5 | 6.9 | 4.3 | | | | | | |
| Bottom | 2.2 | | | 1 | 29.4 | 8.0 | 18.5 | 10.6 | 153.0 | 12.4 | 6.0 | | | | | | | | | | | |
| | 2 | | | 29.4 | 8.0 | 18.5 | 10.5 | 152.7 | 12.7 | 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) | | |
| 15-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 9:49 | 7.7 | Surface | 1.0 | 1 | 30.3 | 8.4 | 6.7 | 9.3 | 128.6 | 4.3 | 5.7 | 9.7 | 7.0 | 6.4 | | |
| | | | | | | | Middle | 3.9 | 2 | 30.3 | 8.4 | 6.7 | 9.3 | 128.8 | 4.2 | 5.4 | | | | | |
| | | | | | | | Bottom | 6.7 | 1 | 30.2 | 8.5 | 8.8 | 10.1 | 140.1 | 3.9 | 6.8 | | | | | |
| | | | | | | | | | 2 | 30.2 | 8.5 | 8.8 | 10.1 | 139.9 | 3.9 | 6.5 | | | | | |
| | | | | | | | | | 1 | 25.5 | 7.8 | 26.5 | 5.0 | 71.5 | 13.6 | 7.1 | | | | | |
| | | | | | | | | | 2 | 25.5 | 7.8 | 26.6 | 5.2 | 73.1 | 12.5 | 6.8 | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 7:54 | 12.6 | Surface | 1.0 | 1 | 29.7 | 8.5 | 12.2 | 11.0 | 154.8 | 3.7 | 5.1 | 9.1 | 3.9 | 5.9 | | |
| | | | | | | | Middle | 6.3 | 1 | 27.3 | 8.0 | 21.2 | 7.2 | 102.6 | 3.2 | 5.8 | | | | | |
| | | | | | | | Bottom | 11.6 | 1 | 27.2 | 8.0 | 21.3 | 7.1 | 100.8 | 3.3 | 5.7 | | | | | |
| | | | | | | | | | 2 | 25.2 | 7.8 | 27.2 | 4.8 | 67.6 | 4.7 | 6.6 | | | | | |
| | | | | | | | | | 1 | 25.2 | 7.8 | 27.2 | 4.8 | 67.8 | 4.7 | 6.7 | | | | | |
| | | | | | | | | | 2 | 25.2 | 7.8 | 27.2 | 4.8 | 67.6 | 4.7 | 6.6 | | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 9:07 | 7.2 | Surface | 1.0 | 1 | 30.3 | 8.5 | 14.3 | 10.9 | 156.2 | 5.2 | 5.1 | 9.3 | 9.2 | 5.8 | | |
| | | | | | | | Middle | 3.6 | 1 | 30.3 | 8.5 | 14.3 | 10.9 | 156.1 | 5.4 | 5.4 | | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 29.3 | 8.3 | 17.4 | 7.8 | 112.5 | 10.2 | 5.7 | | | | | |
| | | | | | | | | | 2 | 29.3 | 8.3 | 17.3 | 7.8 | 111.8 | 10.4 | 5.9 | | | | | |
| | | | | | | | | | 1 | 26.3 | 7.8 | 25.2 | 4.3 | 60.8 | 12.2 | 6.4 | | | | | |
| | | | | | | | | | 2 | 26.3 | 7.8 | 25.2 | 4.3 | 61.2 | 12.1 | 6.1 | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 8:33 | 6.8 | Surface | 1.0 | 1 | 30.2 | 8.6 | 14.4 | 11.5 | 165.2 | 7.2 | 5.6 | 11.0 | 10.7 | 5.0 | | |
| | | | | | | | Middle | 3.4 | 1 | 30.2 | 8.6 | 14.4 | 11.5 | 165.2 | 7.2 | 5.3 | | | | | |
| | | | | | | | Bottom | 5.8 | 1 | 29.8 | 8.5 | 14.5 | 10.5 | 149.9 | 11.4 | 4.7 | | | | | |
| | | | | | | | | | 2 | 29.8 | 8.5 | 14.6 | 10.4 | 149.0 | 11.5 | 5.0 | | | | | |
| | | | | | | | | | 1 | 28.1 | 8.1 | 18.6 | 7.7 | 109.7 | 13.5 | 4.7 | | | | | |
| | | | | | | | | | 2 | 28.0 | 8.1 | 18.6 | 7.7 | 109.6 | 13.1 | 4.8 | | | | | |
| | | TCE-WQM2b | Cloudy | Moderate | 8:22 | 10.7 | Surface | 1.0 | 1 | 29.4 | 8.3 | 11.2 | 8.7 | 121.1 | 4.2 | 4.0 | 7.5 | 5.4 | 4.6 | | |
| | | | | | | | Middle | 5.4 | 1 | 29.4 | 8.3 | 11.2 | 8.7 | 121.0 | 4.2 | 4.3 | | | | | |
| | | | | | | | Bottom | 9.7 | 1 | 28.2 | 8.1 | 18.1 | 6.3 | 89.3 | 5.9 | 4.5 | | | | | |
| | | | | | | | | | 2 | 28.5 | 8.1 | 16.8 | 6.2 | 84.3 | 5.8 | 4.7 | | | | | |
| | | | | | | | | | 1 | 24.4 | 7.8 | 28.9 | 4.3 | 61.1 | 6.2 | 5.0 | | | | | |
| | | | | | | | | | 2 | 24.4 | 7.8 | 28.9 | 4.3 | 61.2 | 6.2 | 5.1 | | | | | |
| | | TCE-WQM3A | Cloudy | Moderate | 8:45 | 3.7 | Surface | 1.0 | 1 | 30.5 | 8.5 | 14.2 | 10.4 | 149.8 | 6.0 | 5.6 | 10.3 | 6.3 | 6.5 | | |
| | | | | | | | Middle | 2.7 | 1 | 30.5 | 8.5 | 14.2 | 10.2 | 147.7 | 6.9 | 5.9 | | | | | |
| | | | | | | | Bottom | 2.7 | 1 | 29.3 | 8.2 | 16.1 | 8.1 | 115.0 | 6.1 | 7.0 | | | | | |
| | | | | | | | | | 2 | 29.3 | 8.2 | 16.1 | 8.1 | 115.0 | 6.3 | 7.5 | | | | | |
| | | | | | | | | | 1 | 30.4 | 8.7 | 13.7 | 12.2 | 175.1 | 4.0 | 5.6 | | | | | |
| | | | | | | | | | 2 | 30.5 | 8.7 | 13.7 | 12.1 | 174.3 | 4.1 | 5.8 | | | | | |
| | | TCE-WQM4 | Cloudy | Moderate | 8:55 | 3.1 | Surface | 1.0 | 1 | 29.9 | 8.6 | 14.3 | 10.8 | 154.0 | 7.1 | 6.5 | 12.2 | 5.6 | 6.1 | | |
| | | | | | | | Middle | 2.1 | 1 | 29.9 | 8.6 | 14.3 | 10.8 | 154.0 | 7.1 | 6.5 | | | | | |
| | | | | | | | Bottom | 2.1 | 1 | 29.8 | 8.6 | 14.4 | 10.7 | 152.6 | 7.3 | 6.5 | | | | | |
| | | | | | | | | | 2 | 29.8 | 8.6 | 14.4 | 10.7 | 152.6 | 7.3 | 6.5 | | | | | |
| | | | | | | | | | 1 | 30.3 | 8.4 | 6.8 | 9.2 | 127.1 | 4.6 | 4.7 | | | | | |
| | | | | | | | | | 2 | 30.2 | 8.4 | 6.8 | 9.2 | 127.2 | 4.5 | 4.8 | | | | | |
| | | 15-07-20 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 13:59 | 7.4 | Surface | 1.0 | 1 | 30.3 | 8.4 | 6.8 | 9.2 | 127.1 | 4.6 | 4.7 | 9.1 | 6.8 | 5.1 |
| | | | | | | | | | Middle | 3.7 | 1 | 29.9 | 8.4 | 9.0 | 9.0 | 124.8 | 4.2 | 4.8 | | | |
| | | | | | | | | | Bottom | 6.4 | 1 | 29.9 | 8.4 | 9.0 | 9.0 | 124.1 | 4.3 | 5.1 | | | |
| | | | | | | | | | | | 2 | 24.5 | 7.8 | 29.4 | 3.9 | 55.4 | 11.8 | 5.4 | | | |
| | | | | | | | | | | | 1 | 24.5 | 7.8 | 29.3 | 3.9 | 55.7 | 11.7 | 5.8 | | | |
| | | | | | | | | | | | 2 | 22.9 | 7.9 | 32.3 | 4.5 | 63.2 | 9.0 | 6.5 | | | |
| TCE-C2 | Cloudy | | | Moderate | 16:04 | 11.8 | Surface | 1.0 | 1 | 30.6 | 8.4 | 12.1 | 13.9 | 198.6 | 3.6 | 5.8 | 9.4 | 5.8 | 6.1 | | |
| | | | | | | | Middle | 5.9 | 1 | 30.6 | 8.4 | 12.1 | 13.9 | 197.7 | 3.6 | 6.0 | | | | | |
| | | | | | | | Bottom | 10.8 | 1 | 25.2 | 7.9 | 26.8 | 5.0 | 70.8 | 4.6 | 6.1 | | | | | |
| | | | | | | | | | 2 | 25.2 | 7.9 | 26.8 | 5.0 | 70.3 | 5.0 | 6.1 | | | | | |
| | | | | | | | | | 1 | 22.9 | 7.9 | 32.3 | 4.5 | 63.2 | 9.0 | 6.5 | | | | | |
| | | | | | | | | | 2 | 22.9 | 7.9 | 32.3 | 4.5 | 63.4 | 9.3 | 6.3 | | | | | |
| TCE-WQM1 | Cloudy | | | Moderate | 14:37 | 7.5 | Surface | 1.0 | 1 | 30.8 | 8.4 | 14.6 | 12.3 | 178.7 | 6.8 | 8.9 | 10.7 | 8.7 | 8.4 | | |
| | | | | | | | Middle | 3.8 | 1 | 30.8 | 8.4 | 14.6 | 12.3 | 178.2 | 6.9 | 8.7 | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 29.5 | 8.4 | 16.6 | 9.1 | 130.8 | 9.3 | 8.2 | | | | | |
| | | | | | | | | | 2 | 29.4 | 8.4 | 16.6 | 9.0 | 129.7 | 9.5 | 8.2 | | | | | |
| | | | | | | | | | 1 | 27.4 | 7.9 | 22.3 | 5.9 | 83.8 | 9.8 | 8.2 | | | | | |
| | | | | | | | | | 2 | 27.3 | 7.9 | 22.4 | 5.9 | 83.8 | 9.7 | 8.4 | | | | | |
| TCE-WQM2a | Cloudy | | | Moderate | 15:27 | 7.0 | Surface | 1.0 | 1 | 30.3 | 8.5 | 13.3 | 12.7 | 181.5 | 4.6 | 8.6 | 10.6 | 6.5 | 7.9 | | |
| | | | | | | | Middle | 3.5 | 1 | 30.3 | 8.5 | 13.3 | 12.7 | 181.5 | 4.6 | 9.0 | | | | | |
| | | | | | | | Bottom | 6.0 | 1 | 28.8 | 8.3 | 17.2 | 8.5 | 121.3 | 5.5 | 7.7 | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.3 | 17.2 | 8.5 | 121.5 | 5.6 | 8.1 | | | | | |
| | | | | | | | | | 1 | 26.9 | 8.0 | 22.6 | 5.9 | 83.9 | 9.4 | 6.8 | | | | | |
| | | | | | | | | | 2 | 26.8 | 8.0 | 22.6 | 5.9 | 83.8 | 9.6 | 7.2 | | | | | |
| TCE-WQM2b | Cloudy | | | Moderate | 15:38 | 10.5 | Surface | 1.0 | 1 | 30.1 | 8.5 | 10.2 | 10.7 | 150.0 | 4.5 | 5.2 | 8.5 | 7.5 | 5.4 | | |
| | | | | | | | Middle | 5.3 | 1 | 30.1 | 8.5 | 10.1 | 10.7 | 149.8 | 4.5 | 4.8 | | | | | |
| | | | | | | | Bottom | 9.5 | 1 | 27.1 | 8.0 | 22.1 | 6.3 | 89.0 | 5.2 | 5.4 | | | | | |
| | | | | | | | | | 2 | 27.2 | 8.0 | 22.0 | 6.3 | 89.2 | 5.1 | 5.7 | | | | | |
| | | | | | | | | | 1 | 24.5 | 7.9 | 28.9 | 4.7 | 65.8 | 12.7 | 5.6 | | | | | |
| | | | | | | | | | 2 | 24.5 | 7.9 | 28.9 | 4.7 | 66.2 | 12.8 | 5.9 | | | | | |
| TCE-WQM3A | Cloudy | | | Moderate | 15:16 | 4.7 | Surface | 1.0 | 1 | 30.9 | 8.5 | 13.6 | 12.7 | 183.4 | 9.7 | 11.5 | 12.7 | 9.0 | 13.9 | | |
| | | | | | | | Middle | 3.7 | 1 | 30.9 | 8.5 | 13.6 | 12.7 | 183.1 | 9.4 | 12.0 | | | | | |
| | | | | | | | Bottom | 3.7 | 1 | 29.6 | 8.3 | 15.2 | 9.0 | 128.4 | 8.9 | 15.9 | | | | | |
| | | | | | | | | | 2 | 29.6 | 8.3 | 15.2 | 9.0 | 128.6 | 8.0 | 16.0 | | | | | |
| | | | | | | | | | 1 | 29.7 | 8.5 | 13.1 | 11.8 | 167.4 | 7.2 | 8.2 | | | | | |
| | | | | | | | | | 2 | 29.7 | 8.5 | 13.1 | 11.8 | 166.3 | 7.4 | 8.0 | | | | | |
| TCE-WQM4 | Cloudy | | | Moderate | 15:05 | 3.3 | Surface | 1.0 | 1 | 29.7 | 8.5 | 13.1 | 11.8 | 167.4 | 7.2 | 8.2 | 11.8 | 7.8 | 8.7 | | |
| | | | | | | | Middle | 2.3 | 1 | 29.5 | 8.4 | 14.5 | 10.2 | 144.6 | 8.2 | 9.5 | | | | | |
| | | | | | | | Bottom | 2.3 | 1 | 29.5 | 8.4 | 14.5 | 10.2 | 144.5 | 8.3 | 9.1 | | | | | |
| | | | | | | | | | 2 | 29.5 | 8.4 | 14.4 | 10.2 | 144.5 | 8.3 | 9.1 | | | | | |
| | | | | | | | | | 1 | 29.7 | 8.5 | 13.1 | 11.8 | 167.4 | 7.2 | 8.2 | | | | | |
| | | | | | | | | | 2 | 29.7 | 8.5 | 13.1 | 11.8 | 166.3 | 7.4 | 8.0 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | |
|-----------|---------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|-----|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | |
| 17-07-20 | Mid-Ebb | TCE-C1 | Fine | Moderate | 12:25 | 7.5 | Surface | 1.0 | 1 | 30.1 | 8.4 | 8.0 | 9.7 | 133.5 | 4.6 | 4.8 | 9.3 | 5.3 | 6.1 | | |
| | | | | | | | Middle | 3.8 | 2 | 29.1 | 8.4 | 8.0 | 9.6 | 133.2 | 4.6 | 5.2 | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 29.8 | 8.4 | 8.3 | 9.0 | 124.7 | 4.6 | 5.9 | | | | | |
| | | | | | | | | | 2 | 29.8 | 8.4 | 8.3 | 9.0 | 124.1 | 4.6 | 6.2 | | | | | |
| | | | | | | | | | 1 | 24.0 | 7.8 | 29.9 | 3.9 | 55.2 | 6.7 | 7.4 | | | | | |
| | | | | | | | | | 2 | 24.0 | 7.8 | 30.1 | 4.1 | 57.1 | 6.9 | 7.1 | | | | | |
| | | TCE-C2 | Fine | Moderate | 10:18 | 11.6 | Surface | 1.0 | 1 | 29.3 | 8.5 | 12.4 | 9.9 | 138.2 | 3.5 | 7.5 | 8.6 | 3.1 | 6.6 | | |
| | | | | | | | Middle | 5.8 | 1 | 29.3 | 8.5 | 12.3 | 9.8 | 137.6 | 3.4 | 7.3 | | | | | |
| | | | | | | | Bottom | 10.6 | 1 | 27.8 | 8.2 | 17.7 | 7.4 | 104.0 | 2.3 | 6.3 | | | | | |
| | | | | | | | | | 2 | 27.8 | 8.2 | 17.7 | 7.1 | 99.7 | 2.5 | 6.4 | | | | | |
| | | | | | | | | | 1 | 24.3 | 7.8 | 28.7 | 5.1 | 71.2 | 3.6 | 6.1 | | | | | |
| | | | | | | | | | 2 | 24.3 | 7.9 | 28.6 | 5.1 | 72.3 | 3.5 | 6.1 | | | | | |
| | | TCE-WQM1 | Fine | Moderate | 11:29 | 8.8 | Surface | 1.0 | 1 | 29.6 | 8.4 | 15.0 | 8.0 | 113.9 | 7.2 | 6.8 | 6.5 | 9.3 | 8.6 | | |
| | | | | | | | Middle | 4.4 | 1 | 29.6 | 8.4 | 15.0 | 7.9 | 112.4 | 7.3 | 6.7 | | | | | |
| | | | | | | | Bottom | 7.8 | 1 | 27.7 | 8.0 | 20.3 | 5.0 | 71.0 | 9.5 | 8.4 | | | | | |
| | | | | | | | | | 2 | 27.7 | 8.0 | 20.3 | 5.0 | 70.4 | 9.8 | 8.8 | | | | | |
| | | | | | | | | | 1 | 25.0 | 7.7 | 27.6 | 3.1 | 44.5 | 11.0 | 10.2 | | | | | |
| | | | | | | | | | 2 | 25.0 | 7.7 | 27.7 | 3.1 | 44.3 | 11.0 | 10.6 | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 10:58 | 7.0 | Surface | 1.0 | 1 | 29.2 | 8.5 | 14.3 | 10.3 | 144.7 | 3.9 | 3.1 | 9.0 | 5.7 | 4.8 | | |
| | | | | | | | Middle | 3.5 | 1 | 29.2 | 8.5 | 14.3 | 10.3 | 144.7 | 3.9 | 3.4 | | | | | |
| | | | | | | | Bottom | 6.0 | 1 | 28.5 | 8.3 | 16.3 | 7.7 | 109.0 | 6.0 | 5.1 | | | | | |
| | | | | | | | | | 2 | 28.5 | 8.3 | 16.3 | 7.7 | 108.1 | 6.2 | 5.5 | | | | | |
| | | | | | | | | | 1 | 25.7 | 7.9 | 24.7 | 5.4 | 75.4 | 7.3 | 5.6 | | | | | |
| | | | | | | | | | 2 | 25.7 | 7.9 | 24.8 | 5.4 | 75.6 | 7.2 | 6.1 | | | | | |
| | | TCE-WQM2b | Fine | Moderate | 10:45 | 10.6 | Surface | 1.0 | 1 | 29.3 | 8.3 | 11.6 | 8.6 | 120.3 | 4.0 | 5.7 | 7.2 | 4.3 | 6.0 | | |
| | | | | | | | Middle | 5.3 | 1 | 29.2 | 8.3 | 11.6 | 8.6 | 119.1 | 3.9 | 5.8 | | | | | |
| | | | | | | | Bottom | 9.6 | 1 | 27.0 | 8.0 | 20.2 | 5.8 | 81.7 | 3.5 | 6.0 | | | | | |
| | | | | | | | | | 2 | 27.0 | 8.0 | 19.9 | 5.8 | 81.5 | 3.5 | 5.9 | | | | | |
| | | | | | | | | | 1 | 23.5 | 7.8 | 30.8 | 4.0 | 56.3 | 5.4 | 6.4 | | | | | |
| | | | | | | | | | 2 | 23.5 | 7.8 | 30.9 | 4.1 | 56.9 | 5.4 | 6.2 | | | | | |
| | | TCE-WQM3A | Fine | Calm | 11:08 | 3.3 | Surface | 1.0 | 1 | 29.6 | 8.4 | 14.2 | 8.7 | 123.9 | 9.6 | 11.2 | 8.6 | 10.9 | 12.3 | | |
| | | | | | | | Middle | 2.3 | 1 | 29.6 | 8.4 | 14.2 | 8.5 | 120.1 | 9.8 | 10.9 | | | | | |
| | | | | | | | Bottom | 2.3 | 1 | 28.8 | 8.2 | 15.7 | 7.6 | 106.8 | 12.0 | 13.7 | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.2 | 15.8 | 7.5 | 106.4 | 12.1 | 13.3 | | | | | |
| | | | | | | | | | 1 | 29.7 | 8.5 | 14.6 | 10.0 | 143.9 | 7.1 | 7.5 | | | | | |
| | | | | | | | | | 2 | 29.6 | 8.5 | 14.7 | 9.9 | 143.5 | 7.6 | 7.1 | | | | | |
| | | TCE-WQM4 | Fine | Calm | 11:17 | 3.4 | Surface | 1.0 | 1 | 29.6 | 8.4 | 15.1 | 9.1 | 130.2 | 9.0 | 9.6 | 10.0 | 8.2 | 8.5 | | |
| | | | | | | | Middle | 2.4 | 1 | 29.4 | 8.4 | 15.1 | 9.1 | 130.2 | 9.0 | 9.6 | | | | | |
| | | | | | | | Bottom | 2.4 | 1 | 29.5 | 8.4 | 15.1 | 9.2 | 131.1 | 9.1 | 9.9 | | | | | |
| | | | | | | | | | 2 | 29.5 | 8.4 | 15.1 | 9.2 | 131.1 | 9.1 | 9.9 | | | | | |
| | | | | | | | | | 1 | 30.2 | 8.4 | 8.4 | 9.5 | 132.2 | 4.7 | 6.0 | | | | | |
| | | | | | | | | | 2 | 30.2 | 8.4 | 8.4 | 9.5 | 132.1 | 4.7 | 5.6 | | | | | |
| | | 17-07-20 | Mid-Flood | TCE-C1 | Fine | Moderate | 16:08 | 7.3 | Surface | 1.0 | 1 | 30.2 | 8.4 | 8.4 | 9.5 | 132.2 | 4.7 | 6.0 | 9.4 | 5.3 | 4.9 |
| | | | | | | | | | Middle | 3.7 | 1 | 30.0 | 8.4 | 8.6 | 9.3 | 129.2 | 4.7 | 4.6 | | | |
| | | | | | | | | | Bottom | 6.3 | 1 | 30.0 | 8.4 | 8.7 | 9.3 | 128.7 | 4.7 | 4.5 | | | |
| | | | | | | | | | | | 2 | 28.6 | 8.2 | 13.2 | 8.0 | 111.5 | 6.7 | 4.1 | | | |
| | | | | | | | | | | | 1 | 28.5 | 8.2 | 13.4 | 8.0 | 110.8 | 6.4 | 4.4 | | | |
| | | | | | | | | | | | 2 | 28.5 | 8.2 | 13.4 | 8.0 | 110.8 | 6.4 | 4.4 | | | |
| TCE-C2 | Fine | | | Moderate | 18:00 | 11.4 | Surface | 1.0 | 1 | 30.1 | 8.6 | 12.8 | 12.2 | 173.7 | 2.8 | 3.8 | 9.8 | 2.7 | 4.7 | | |
| | | | | | | | Middle | 5.7 | 1 | 30.2 | 8.6 | 12.8 | 12.1 | 172.7 | 2.8 | 4.2 | | | | | |
| | | | | | | | Bottom | 10.4 | 1 | 28.0 | 8.2 | 17.1 | 7.5 | 104.8 | 2.0 | 4.4 | | | | | |
| | | | | | | | | | 2 | 28.0 | 8.2 | 17.1 | 7.4 | 104.1 | 2.3 | 4.5 | | | | | |
| | | | | | | | | | 1 | 25.6 | 7.9 | 25.0 | 5.2 | 73.2 | 3.1 | 5.7 | | | | | |
| | | | | | | | | | 2 | 25.6 | 7.9 | 24.9 | 5.2 | 73.5 | 3.1 | 5.4 | | | | | |
| TCE-WQM1 | Fine | | | Moderate | 16:50 | 8.0 | Surface | 1.0 | 1 | 30.4 | 8.5 | 14.8 | 10.0 | 145.0 | 5.1 | 9.1 | 8.9 | 6.5 | 8.0 | | |
| | | | | | | | Middle | 4.0 | 1 | 30.4 | 8.5 | 14.8 | 10.0 | 144.0 | 5.1 | 9.5 | | | | | |
| | | | | | | | Bottom | 7.0 | 1 | 29.0 | 8.3 | 16.9 | 7.9 | 112.4 | 6.4 | 7.8 | | | | | |
| | | | | | | | | | 2 | 29.0 | 8.3 | 16.9 | 7.6 | 108.2 | 6.5 | 7.8 | | | | | |
| | | | | | | | | | 1 | 27.7 | 8.0 | 20.6 | 5.5 | 79.0 | 7.9 | 6.7 | | | | | |
| | | | | | | | | | 2 | 27.7 | 8.0 | 20.6 | 5.2 | 74.7 | 8.1 | 7.1 | | | | | |
| TCE-WQM2a | Fine | | | Moderate | 17:23 | 6.6 | Surface | 1.0 | 1 | 30.3 | 8.5 | 14.0 | 11.1 | 158.9 | 3.5 | 5.1 | 10.7 | 5.4 | 6.2 | | |
| | | | | | | | Middle | 3.3 | 1 | 30.3 | 8.5 | 14.0 | 11.1 | 158.9 | 3.5 | 5.4 | | | | | |
| | | | | | | | Bottom | 5.6 | 1 | 30.1 | 8.5 | 14.2 | 10.3 | 148.0 | 5.7 | 6.2 | | | | | |
| | | | | | | | | | 2 | 30.1 | 8.5 | 14.2 | 10.2 | 146.2 | 5.7 | 6.4 | | | | | |
| | | | | | | | | | 1 | 27.9 | 8.0 | 20.2 | 6.7 | 95.1 | 7.0 | 6.8 | | | | | |
| | | | | | | | | | 2 | 28.0 | 8.0 | 20.1 | 6.8 | 96.6 | 7.1 | 7.0 | | | | | |
| TCE-WQM2b | Fine | | | Moderate | 17:35 | 10.0 | Surface | 1.0 | 1 | 29.7 | 8.2 | 10.0 | 8.6 | 119.7 | 5.0 | 4.6 | 8.5 | 5.6 | 5.2 | | |
| | | | | | | | Middle | 5.0 | 1 | 29.7 | 8.2 | 10.1 | 8.6 | 119.6 | 5.0 | 4.3 | | | | | |
| | | | | | | | Bottom | 9.0 | 1 | 29.5 | 8.2 | 10.5 | 8.4 | 116.9 | 5.3 | 4.9 | | | | | |
| | | | | | | | | | 2 | 29.5 | 8.2 | 10.5 | 8.4 | 116.4 | 5.3 | 5.2 | | | | | |
| | | | | | | | | | 1 | 25.2 | 7.9 | 25.8 | 5.0 | 70.1 | 6.3 | 6.0 | | | | | |
| | | | | | | | | | 2 | 25.2 | 7.9 | 26.3 | 5.0 | 70.3 | 6.5 | 6.3 | | | | | |
| TCE-WQM3A | Fine | | | Calm | 17:12 | 3.2 | Surface | 1.0 | 1 | 30.0 | 8.4 | 14.2 | 10.2 | 145.2 | 9.0 | 11.3 | 10.1 | 9.3 | 11.0 | | |
| | | | | | | | Middle | 2.2 | 1 | 30.0 | 8.4 | 14.3 | 10.1 | 145.0 | 9.1 | 11.7 | | | | | |
| | | | | | | | Bottom | 2.2 | 1 | 29.8 | 8.4 | 14.4 | 9.6 | 137.6 | 9.6 | 10.6 | | | | | |
| | | | | | | | | | 2 | 29.8 | 8.4 | 14.3 | 9.7 | 137.8 | 9.6 | 10.2 | | | | | |
| | | | | | | | | | 1 | 30.1 | 8.5 | 14.2 | 10.6 | 151.2 | 4.8 | 6.6 | | | | | |
| | | | | | | | | | 2 | 30.1 | 8.5 | 14.2 | 10.5 | 150.5 | 4.9 | 6.1 | | | | | |
| TCE-WQM4 | Fine | | | Calm | 17:02 | 3.0 | Surface | 1.0 | 1 | 30.1 | 8.5 | 14.2 | 10.6 | 151.2 | 4.8 | 6.6 | 10.5 | 5.6 | 7.2 | | |
| | | | | | | | Middle | 2.0 | 1 | 30.1 | 8.5 | 14.3 | 10.4 | 149.3 | 6.4 | 8.1 | | | | | |
| | | | | | | | Bottom | 2.0 | 1 | 30.1 | 8.5 | 14.3 | 10.4 | 149.3 | 6.4 | 8.1 | | | | | |
| | | | | | | | | | 2 | 30.0 | 8.5 | 14.4 | 10.4 | 149.0 | 6.2 | 7.8 | | | | | |
| | | | | | | | | | 1 | 30.1 | 8.5 | 14.2 | 10.5 | 150.5 | 4.9 | 6.1 | | | | | |
| | | | | | | | | | 2 | 30.1 | 8.5 | 14.3 | 10.4 | 149.3 | 6.4 | 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) |
| 20-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 11:09 | 8.1 | Surface | 1.0 | 1 | 27.9 | 8.1 | 17.7 | 6.4 | 90.3 | 3.0 | 4.0 | 5.4 | 5.3 | 3.7 |
| | | | | | | | | | 2 | 27.9 | 8.1 | 17.7 | 6.4 | 90.4 | 3.0 | 4.2 | | | |
| | | | | | | | Middle | 4.1 | 1 | 25.1 | 7.9 | 28.2 | 4.3 | 61.8 | 3.6 | 3.7 | | | |
| | | | | | | | | | 2 | 25.3 | 7.9 | 27.9 | 4.4 | 62.5 | 3.5 | 3.7 | | | |
| | | | | | | | Bottom | 7.1 | 1 | 22.9 | 7.7 | 31.3 | 2.5 | 34.3 | 9.5 | 3.2 | | | |
| | | | | | | | | | 2 | 22.9 | 7.7 | 31.3 | 2.5 | 34.9 | 9.3 | 3.4 | | | |
| | | | | 2 | 28.6 | 8.2 | 16.7 | 7.6 | 107.1 | 3.1 | 2.6 | | | | | | | | |
| | | Middle | 6.7 | 1 | 28.4 | 8.2 | 17.2 | 7.1 | 100.0 | 4.7 | 3.8 | | | | | | | | |
| | | | | 2 | 28.4 | 8.2 | 17.2 | 7.0 | 99.5 | 4.9 | 3.4 | | | | | | | | |
| | | Bottom | 12.4 | 1 | 24.1 | 7.9 | 29.2 | 4.7 | 66.8 | 8.7 | 5.1 | | | | | | | | |
| | | | | 2 | 24.3 | 7.9 | 29.2 | 4.8 | 68.4 | 7.7 | 4.7 | | | | | | | | |
| | | TCE-WQM1 | Cloudy | Calm | 11:50 | 8.5 | Surface | 1.0 | 1 | 28.4 | 8.1 | 17.8 | 6.3 | 89.9 | 5.2 | 6.8 | 5.6 | 9.2 | 5.3 |
| | | | | | | | 2 | 28.4 | 8.1 | 17.8 | 6.3 | 89.7 | 5.3 | 6.4 | | | | | |
| | Middle | 4.3 | | | | | 1 | 26.8 | 7.9 | 20.8 | 4.8 | 67.9 | 7.5 | 5.2 | | | | | |
| | | | | | | | 2 | 26.9 | 7.9 | 20.7 | 4.8 | 67.6 | 7.4 | 4.8 | | | | | |
| | Bottom | 7.5 | | | | | 1 | 25.5 | 7.8 | 24.9 | 4.0 | 56.0 | 15.5 | 4.3 | | | | | |
| | | | | | | | 2 | 25.5 | 7.9 | 24.8 | 4.0 | 56.5 | 14.5 | 4.5 | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 12:25 | 7.4 | Surface | 1.0 | 1 | 28.1 | 8.0 | 18.9 | 6.3 | 89.3 | 7.0 | 9.5 | 6.3 | 8.2 | 10.3 | |
| | | | | | | | 2 | 28.1 | 8.0 | 18.9 | 6.3 | 89.3 | 7.0 | 9.0 | | | | | |
| | Middle | | | | | 3.7 | 1 | 27.9 | 8.0 | 19.2 | 6.3 | 88.7 | 6.6 | 10.3 | | | | | |
| | | | | | | | 2 | 27.9 | 8.0 | 19.2 | 6.3 | 89.0 | 6.6 | 10.6 | | | | | |
| | Bottom | | | | | 6.4 | 1 | 27.2 | 8.0 | 21.3 | 5.8 | 81.9 | 11.2 | 11.0 | | | | | |
| | | | | | | | 2 | 27.1 | 8.0 | 21.4 | 5.8 | 81.7 | 10.9 | 11.3 | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 12:37 | 11.3 | Surface | 1.0 | 1 | 28.0 | 8.0 | 17.7 | 6.3 | 88.8 | 4.0 | 3.9 | 5.9 | 5.9 | 4.4 | |
| | | | | | | 2 | 27.9 | 8.0 | 17.7 | 6.3 | 88.3 | 4.0 | 3.7 | | | | | | |
| Middle | 5.7 | | | | | 1 | 27.1 | 8.0 | 20.1 | 5.4 | 76.3 | 5.6 | 4.2 | | | | | | |
| | | | | | | 2 | 27.1 | 8.0 | 20.1 | 5.4 | 76.4 | 5.6 | 4.1 | | | | | | |
| Bottom | 10.3 | | | | | 1 | 26.9 | 8.0 | 20.8 | 5.4 | 76.0 | 8.1 | 5.4 | | | | | | |
| | | | | | | 2 | 26.9 | 8.0 | 20.9 | 5.4 | 76.3 | 7.9 | 5.1 | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 12:14 | 4.3 | Surface | 1.0 | 1 | 27.8 | 8.0 | 19.3 | 6.1 | 85.8 | 11.2 | 11.4 | 6.1 | 9.6 | 12.5 | | |
| | | | | | | 2 | 27.8 | 8.0 | 19.3 | 6.1 | 85.7 | 11.6 | 11.7 | | | | | | |
| Bottom | | | | | 3.3 | 1 | 26.6 | 8.0 | 22.4 | 5.7 | 79.5 | 7.9 | 13.7 | | | | | | |
| | | | | | | 2 | 26.6 | 8.0 | 22.4 | 5.7 | 79.9 | 7.7 | 13.2 | | | | | | |
| Surface | | | | | 1.0 | 1 | 29.1 | 8.2 | 14.7 | 7.3 | 104.3 | 3.7 | 4.2 | | | | | | |
| | | | | | | 2 | 29.1 | 8.2 | 14.7 | 7.3 | 104.2 | 3.9 | 4.4 | | | | | | |
| Bottom | 2.5 | 1 | 28.8 | 8.2 | 17.5 | 7.0 | 99.6 | 5.3 | 5.4 | | | | | | | | | | |
| | | 2 | 28.8 | 8.2 | 17.4 | 7.0 | 99.9 | 5.3 | 5.8 | | | | | | | | | | |
| 20-07-20 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 6:19 | 8.2 | Surface | 1.0 | 1 | 27.7 | 8.0 | 18.3 | 6.0 | 84.9 | 3.3 | 6.2 | 5.1 | 4.9 | 5.3 |
| | | | | | | | | | 2 | 27.7 | 8.0 | 18.2 | 6.0 | 84.7 | 3.3 | 6.7 | | | |
| | | | | | | | Middle | 4.1 | 1 | 25.2 | 7.9 | 25.9 | 4.2 | 59.1 | 3.8 | 5.0 | | | |
| | | | | | | | | | 2 | 25.2 | 7.9 | 25.9 | 4.2 | 58.7 | 3.8 | 5.5 | | | |
| | | | | | | | Bottom | 7.2 | 1 | 22.9 | 7.8 | 31.5 | 3.3 | 45.8 | 6.8 | 4.1 | | | |
| | | | | | | | | | 2 | 22.9 | 7.8 | 31.5 | 3.4 | 47.4 | 8.1 | 4.5 | | | |
| | | TCE-C2 | Cloudy | Moderate | 4:19 | 13.5 | Surface | 1.0 | 1 | 26.8 | 8.0 | 20.6 | 6.1 | 86.0 | 2.3 | 4.2 | 5.0 | 3.9 | 3.3 |
| | | | | | | | | 2 | 26.8 | 8.0 | 20.6 | 6.1 | 85.8 | 2.3 | 3.8 | | | | |
| | | Middle | | | | | 6.8 | 1 | 24.1 | 7.8 | 28.5 | 3.9 | 54.9 | 3.6 | 3.0 | | | | |
| | | | | | | | | 2 | 24.1 | 7.8 | 28.7 | 3.9 | 54.8 | 3.7 | 3.3 | | | | |
| | | Bottom | | | | | 12.5 | 1 | 22.9 | 7.7 | 31.6 | 3.6 | 49.7 | 6.0 | 2.7 | | | | |
| | | | | | | | | 2 | 22.9 | 7.7 | 31.5 | 3.6 | 50.0 | 5.6 | 3.0 | | | | |
| | TCE-WQM1 | Cloudy | Calm | 5:36 | 8.1 | Surface | 1.0 | 1 | 27.9 | 8.0 | 18.1 | 5.9 | 82.8 | 6.5 | 5.9 | 5.5 | 10.6 | 6.8 | |
| | | | | | | | 2 | 27.9 | 8.0 | 18.1 | 5.9 | 82.7 | 6.7 | 6.3 | | | | | |
| | Middle | | | | | 4.1 | 1 | 27.1 | 7.9 | 20.1 | 5.2 | 72.9 | 8.6 | 6.5 | | | | | |
| | | | | | | | 2 | 27.1 | 7.9 | 20.1 | 5.2 | 72.6 | 9.3 | 6.9 | | | | | |
| | Bottom | | | | | 7.1 | 1 | 25.7 | 7.9 | 24.6 | 4.4 | 62.4 | 16.8 | 7.5 | | | | | |
| | | | | | | | 2 | 25.7 | 7.9 | 24.7 | 4.3 | 66.8 | 15.8 | 7.9 | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 5:02 | 7.4 | Surface | 1.0 | 1 | 27.4 | 8.0 | 19.6 | 6.2 | 87.2 | 3.1 | 3.0 | 5.9 | 2.9 | 4.5 | |
| | | | | | | | 2 | 27.4 | 8.0 | 19.6 | 6.2 | 87.2 | 3.1 | 3.3 | | | | | |
| | Middle | | | | | 3.7 | 1 | 26.4 | 8.0 | 22.6 | 5.7 | 79.7 | 2.5 | 4.0 | | | | | |
| | | | | | | | 2 | 26.4 | 8.0 | 22.7 | 5.6 | 79.5 | 2.4 | 4.4 | | | | | |
| | Bottom | | | | | 6.4 | 1 | 24.9 | 7.9 | 26.7 | 4.9 | 69.4 | 3.1 | 6.3 | | | | | |
| | | | | | | | 2 | 24.9 | 7.9 | 26.7 | 5.0 | 69.8 | 3.0 | 6.2 | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 4:48 | 11.2 | Surface | 1.0 | 1 | 27.8 | 8.1 | 17.9 | 6.6 | 92.7 | 2.5 | 2.6 | 6.0 | 5.4 | 3.5 | | |
| | | | | | | 2 | 27.8 | 8.1 | 17.9 | 6.6 | 92.3 | 2.5 | 2.9 | | | | | | |
| Middle | | | | | 5.6 | 1 | 26.2 | 8.0 | 23.1 | 5.4 | 75.4 | 4.3 | 3.2 | | | | | | |
| | | | | | | 2 | 26.2 | 8.0 | 23.1 | 5.3 | 75.2 | 4.3 | 3.5 | | | | | | |
| Bottom | | | | | 10.2 | 1 | 24.0 | 7.9 | 29.3 | 4.6 | 64.9 | 9.7 | 4.6 | | | | | | |
| | | | | | | 2 | 24.0 | 7.9 | 29.3 | 4.7 | 66.3 | 9.4 | 4.3 | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 5:14 | 4.6 | Surface | 1.0 | 1 | 28.1 | 8.1 | 16.9 | 6.6 | 92.1 | 5.4 | 3.5 | 6.6 | 7.0 | 3.4 | | |
| | | | | | | 2 | 28.0 | 8.1 | 16.9 | 6.5 | 91.9 | 5.9 | 3.3 | | | | | | |
| Bottom | | | | | 3.6 | 1 | 27.9 | 8.1 | 18.5 | 6.1 | 85.9 | 8.1 | 3.3 | | | | | | |
| | | | | | | 2 | 27.9 | 8.1 | 18.6 | 6.1 | 85.6 | 8.6 | 3.0 | | | | | | |
| Surface | | | | | 1.0 | 1 | 28.7 | 8.1 | 16.6 | 6.8 | 96.7 | 3.6 | 4.6 | | | | | | |
| | | | | | | 2 | 28.7 | 8.1 | 16.6 | 6.8 | 96.2 | 3.7 | 4.9 | | | | | | |
| Bottom | 2.8 | 1 | 28.2 | 8.1 | 17.5 | 6.5 | 91.6 | 7.0 | 3.0 | | | | | | | | | | |
| | | 2 | 28.2 | 8.1 | 17.5 | 6.5 | 92.3 | 6.9 | 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) | |
| 22-07-20 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 12:33 | 8.7 | Surface | 1.0 | 1 | 27.0 | 8.1 | 25.2 | 5.7 | 82.7 | 1.7 | 5.2 | 5.4 | 4.2 | 4.4 | |
| | | | | | | | | | 2 | 27.0 | 8.1 | 25.2 | 5.7 | 82.6 | 1.7 | 4.9 | | | | |
| | | | | | | | Middle | 4.4 | 1 | 25.4 | 8.2 | 29.4 | 5.1 | 73.8 | 2.5 | 4.3 | | | | |
| | | | | | | | | 2 | 25.4 | 8.2 | 29.4 | 5.1 | 73.7 | 2.6 | 4.6 | | | | | |
| | | | | | | | Bottom | 7.7 | 1 | 24.3 | 8.2 | 31.6 | 4.3 | 61.5 | 8.3 | 3.6 | | | | |
| | | | | | | | | 2 | 24.3 | 8.2 | 31.6 | 4.3 | 61.8 | 8.3 | 3.9 | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 14:38 | 13.3 | Surface | 1.0 | 1 | 28.1 | 8.2 | 22.7 | 5.8 | 83.6 | 1.4 | 4.5 | 5.4 | 4.6 | 4.2 | |
| | | | | | | | | | 2 | 28.1 | 8.2 | 22.8 | 5.7 | 83.3 | 1.5 | 4.8 | | | | |
| | | | | | | | Middle | 6.7 | 1 | 27.4 | 8.2 | 24.0 | 5.0 | 72.1 | 4.0 | 4.3 | | | | |
| | | | | | | | | 2 | 27.4 | 8.2 | 24.0 | 4.9 | 71.2 | 4.2 | 4.1 | | | | | |
| | | | | | | | Bottom | 12.3 | 1 | 26.0 | 8.2 | 27.4 | 4.7 | 67.5 | 8.3 | 3.8 | | | | |
| | | | | | | | | 2 | 26.0 | 8.2 | 27.3 | 4.7 | 67.9 | 8.3 | 3.9 | | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 13:21 | 8.3 | Surface | 1.0 | 1 | 28.6 | 8.1 | 22.1 | 6.1 | 88.1 | 2.9 | 3.9 | 5.4 | 6.7 | 4.6 | |
| | | | | | | | | | 2 | 28.6 | 8.1 | 22.0 | 6.0 | 88.1 | 2.9 | 4.0 | | | | |
| | | | | | | | Middle | 4.2 | 1 | 27.1 | 8.1 | 24.6 | 4.8 | 68.7 | 6.3 | 4.3 | | | | |
| | | | | | | | | 2 | 27.2 | 8.1 | 24.6 | 4.8 | 68.7 | 6.3 | 4.6 | | | | | |
| | | | | | | | Bottom | 7.3 | 1 | 26.6 | 8.1 | 25.7 | 4.8 | 68.8 | 10.8 | 5.5 | | | | |
| | | | | | | | | 2 | 26.6 | 8.1 | 25.7 | 4.8 | 68.9 | 10.8 | 5.3 | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 13:56 | 7.1 | Surface | 1.0 | 1 | 27.4 | 8.1 | 24.3 | 4.8 | 69.1 | 5.1 | 9.8 | 4.7 | 5.1 | 10.8 | |
| | | | | | | | | | 2 | 27.4 | 8.1 | 24.3 | 4.8 | 69.1 | 5.1 | 10.2 | | | | |
| | | | | | | | Middle | 3.6 | 1 | 26.9 | 8.1 | 24.9 | 4.7 | 67.2 | 4.9 | 10.2 | | | | |
| | | | | | | | | 2 | 26.9 | 8.1 | 24.9 | 4.7 | 67.2 | 4.9 | 10.4 | | | | | |
| | | | | | | | Bottom | 6.1 | 1 | 26.4 | 8.2 | 26.2 | 4.8 | 68.9 | 5.3 | 12.1 | | | | |
| | | | | | | | | 2 | 26.4 | 8.1 | 26.2 | 4.8 | 69.1 | 5.3 | 11.9 | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 14:09 | 11.9 | Surface | 1.0 | 1 | 28.2 | 8.1 | 22.1 | 5.5 | 80.2 | 1.3 | 4.1 | 5.2 | 5.1 | 4.3 | | | |
| | | | | | | | 2 | 28.2 | 8.1 | 22.1 | 5.5 | 80.2 | 1.3 | 3.9 | | | | | | |
| | | | | | Middle | 6.0 | 1 | 26.8 | 8.1 | 24.6 | 4.8 | 68.5 | 5.5 | 4.4 | | | | | | |
| | | | | | | 2 | 26.8 | 8.1 | 24.6 | 4.8 | 68.5 | 5.5 | 4.0 | | | | | | | |
| | | | | | Bottom | 10.9 | 1 | 26.7 | 8.1 | 25.0 | 4.9 | 69.7 | 8.5 | 4.8 | | | | | | |
| | | | | | | 2 | 26.7 | 8.1 | 25.0 | 4.9 | 69.9 | 8.4 | 4.7 | | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 13:44 | 4.2 | Surface | 1.0 | 1 | 27.8 | 8.1 | 23.2 | 5.0 | 71.9 | 7.1 | 11.9 | 5.0 | 9.8 | 12.6 | | | |
| | | | | | | | 2 | 27.8 | 8.1 | 23.2 | 5.0 | 71.8 | 7.1 | 11.5 | | | | | | |
| | | | | | Bottom | 3.2 | 1 | 26.2 | 8.1 | 26.7 | 4.5 | 64.2 | 12.5 | 13.4 | | | | | | |
| | | | | | | 2 | 26.2 | 8.1 | 26.7 | 4.5 | 64.5 | 12.5 | 13.7 | | | | | | | |
| | | | | | Surface | 1.0 | 1 | 28.7 | 8.1 | 21.7 | 6.1 | 89.4 | 2.7 | 4.9 | | | | 6.1 | 4.3 | 5.1 |
| | | | | | | | 2 | 28.7 | 8.1 | 21.7 | 6.1 | 89.3 | 2.8 | 4.5 | | | | | | |
| Bottom | 2.7 | 1 | 27.8 | 8.1 | 23.1 | 5.4 | 77.8 | 5.8 | 5.4 | | | | | | | | | | | |
| | 2 | 27.8 | 8.1 | 23.1 | 5.4 | 78.0 | 5.8 | 5.6 | | | | | | | | | | | | |
| Surface | 1.0 | 1 | 26.6 | 8.1 | 25.9 | 5.7 | 81.7 | 3.7 | 3.3 | 5.3 | 5.3 | 5.2 | | | | | | | | |
| | | 2 | 26.6 | 8.1 | 25.9 | 5.7 | 81.7 | 3.6 | 3.8 | | | | | | | | | | | |
| Middle | 4.3 | 1 | 26.1 | 8.1 | 27.5 | 5.0 | 71.7 | 5.0 | 5.8 | | | | | | | | | | | |
| | 2 | 26.1 | 8.1 | 27.4 | 5.0 | 71.5 | 5.1 | 5.6 | | | | | | | | | | | | |
| Bottom | 7.5 | 1 | 24.0 | 8.1 | 32.5 | 5.6 | 79.4 | 7.2 | 6.1 | | | | | | | | | | | |
| | 2 | 24.0 | 8.1 | 32.4 | 5.6 | 80.2 | 7.2 | 6.4 | | | | | | | | | | | | |
| 22-07-20 | Mid-Flood | TCE-C1 | Fine | Moderate | 8:09 | 8.5 | Surface | 1.0 | 1 | 26.6 | 8.1 | 25.9 | 5.7 | 81.7 | 3.7 | 3.3 | 5.3 | 5.3 | 5.2 | |
| | | | | | | | | | 2 | 26.6 | 8.1 | 25.9 | 5.7 | 81.7 | 3.6 | 3.8 | | | | |
| | | | | | | | Middle | 4.3 | 1 | 26.1 | 8.1 | 27.5 | 5.0 | 71.7 | 5.0 | 5.8 | | | | |
| | | | | | | | | 2 | 26.1 | 8.1 | 27.4 | 5.0 | 71.5 | 5.1 | 5.6 | | | | | |
| | | | | | | | Bottom | 7.5 | 1 | 24.0 | 8.1 | 32.5 | 5.6 | 79.4 | 7.2 | 6.1 | | | | |
| | | | | | | | | 2 | 24.0 | 8.1 | 32.4 | 5.6 | 80.2 | 7.2 | 6.4 | | | | | |
| | | TCE-C2 | Fine | Moderate | 6:05 | 13.7 | Surface | 1.0 | 1 | 26.0 | 8.0 | 26.3 | 4.4 | 62.6 | 2.5 | 3.6 | 3.8 | 5.1 | 4.1 | |
| | | | | | | | | | 2 | 26.0 | 8.0 | 26.3 | 4.4 | 62.5 | 2.5 | 3.5 | | | | |
| | | | | | | | Middle | 6.9 | 1 | 23.8 | 8.0 | 32.1 | 3.3 | 46.4 | 5.2 | 3.8 | | | | |
| | | | | | | | | 2 | 23.8 | 8.0 | 32.1 | 3.3 | 46.3 | 5.2 | 4.1 | | | | | |
| | | | | | | | Bottom | 12.7 | 1 | 23.6 | 8.0 | 32.5 | 3.3 | 46.3 | 7.5 | 4.9 | | | | |
| | | | | | | | | 2 | 23.6 | 8.0 | 32.5 | 3.3 | 46.3 | 7.5 | 4.6 | | | | | |
| | | TCE-WQM1 | Fine | Calm | 7:24 | 8.4 | Surface | 1.0 | 1 | 27.8 | 8.1 | 22.7 | 4.9 | 71.4 | 5.2 | 8.9 | 4.7 | 11.3 | 8.4 | |
| | | | | | | | | | 2 | 27.8 | 8.1 | 22.7 | 5.0 | 71.5 | 5.2 | 9.2 | | | | |
| | | | | | | | Middle | 4.2 | 1 | 27.2 | 8.1 | 24.2 | 4.4 | 63.6 | 13.2 | 8.1 | | | | |
| | | | | | | | | 2 | 27.2 | 8.1 | 24.2 | 4.4 | 63.6 | 13.2 | 8.5 | | | | | |
| | | | | | | | Bottom | 7.4 | 1 | 26.5 | 8.2 | 25.9 | 4.0 | 57.5 | 15.4 | 7.8 | | | | |
| | | | | | | | | 2 | 26.5 | 8.2 | 25.9 | 4.0 | 57.5 | 15.6 | 7.6 | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 6:47 | 7.3 | Surface | 1.0 | 1 | 27.5 | 8.1 | 21.8 | 5.2 | 74.2 | 3.4 | 4.3 | 4.8 | 4.8 | 3.7 | |
| | | | | | | | | | 2 | 27.5 | 8.1 | 21.8 | 5.2 | 74.2 | 3.4 | 4.3 | | | | |
| | | | | | | | Middle | 3.7 | 1 | 25.8 | 8.1 | 26.9 | 4.3 | 62.0 | 4.1 | 3.9 | | | | |
| | | | | | | | | 2 | 25.8 | 8.1 | 26.9 | 4.3 | 61.9 | 4.2 | 4.2 | | | | | |
| | | | | | | | Bottom | 6.3 | 1 | 25.2 | 8.1 | 28.6 | 4.5 | 65.0 | 6.6 | 2.8 | | | | |
| | | | | | | | | 2 | 25.2 | 8.1 | 28.6 | 4.6 | 65.3 | 6.8 | 2.6 | | | | | |
| TCE-WQM2b | Fine | Moderate | 6:35 | 12.3 | Surface | 1.0 | 1 | 27.1 | 8.1 | 23.1 | 4.9 | 70.1 | 4.2 | 4.4 | 4.5 | 7.6 | 4.2 | | | |
| | | | | | | | 2 | 27.2 | 8.1 | 22.8 | 4.9 | 70.0 | 4.6 | 4.5 | | | | | | |
| | | | | | Middle | 6.2 | 1 | 24.9 | 8.1 | 29.4 | 4.0 | 57.3 | 8.7 | 4.3 | | | | | | |
| | | | | | | 2 | 24.9 | 8.1 | 29.4 | 4.1 | 57.8 | 9.1 | 4.3 | | | | | | | |
| | | | | | Bottom | 11.3 | 1 | 24.9 | 8.0 | 29.5 | 4.5 | 63.8 | 9.4 | 3.8 | | | | | | |
| | | | | | | 2 | 24.9 | 8.0 | 29.4 | 4.5 | 64.2 | 9.5 | 4.0 | | | | | | | |
| TCE-WQM3A | Fine | Calm | 7:00 | 4.2 | Surface | 1.0 | 1 | 27.6 | 8.1 | 21.5 | 4.9 | 70.1 | 7.0 | 11.6 | 4.9 | 7.8 | 11.2 | | | |
| | | | | | | | 2 | 27.6 | 8.1 | 21.5 | 4.9 | 69.8 | 7.0 | 12.0 | | | | | | |
| | | | | | Bottom | 3.2 | 1 | 27.2 | 8.1 | 22.9 | 4.4 | 63.4 | 8.6 | 10.8 | | | | | | |
| | | | | | | 2 | 27.2 | 8.1 | 22.9 | 4.5 | 63.7 | 8.6 | 10.5 | | | | | | | |
| | | | | | Surface | 1.0 | 1 | 28.0 | 8.1 | 20.9 | 5.6 | 80.7 | 2.8 | 6.3 | | | | 5.6 | 3.8 | 8.0 |
| | | | | | | | 2 | 28.0 | 8.1 | 20.9 | 5.6 | 80.7 | 2.8 | 6.2 | | | | | | |
| Bottom | 2.9 | 1 | 28.0 | 8.1 | 21.5 | 5.2 | 75.4 | 4.7 | 9.7 | | | | | | | | | | | |
| | 2 | 28.0 | 8.1 | 21.5 | 5.2 | 75.5 | 4.7 | 9.9 | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | |
|-----------|---------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | |
| 24-07-20 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 13:59 | 7.5 | Surface | 1.0 | 1 | 27.1 | 7.9 | 23.5 | 5.9 | 85.0 | 4.3 | 3.0 | 5.7 | 5.0 | 3.8 | | | |
| | | | | | | | | | 2 | 26.9 | 7.9 | 23.8 | 5.9 | 84.9 | 4.3 | 2.7 | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 26.3 | 7.9 | 25.3 | 5.5 | 78.6 | 3.9 | 3.8 | | | | | | |
| | | | | | | | | 2 | 26.3 | 7.9 | 25.2 | 5.5 | 78.4 | 4.0 | 4.0 | | | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 24.5 | 7.9 | 29.0 | 4.7 | 66.0 | 6.7 | 4.5 | | | | | | |
| | | | | | | | | 2 | 24.5 | 7.9 | 28.9 | 4.7 | 66.4 | 6.7 | 5.0 | | | | | | | |
| | | TCE-C2 | Sunny | Moderate | 16:00 | 11.8 | Surface | 1.0 | 1 | 28.1 | 7.9 | 21.5 | 5.9 | 85.5 | 3.7 | 7.8 | 5.9 | 5.5 | 6.5 | | | |
| | | | | | | | | | 2 | 28.1 | 7.9 | 21.5 | 5.9 | 85.5 | 3.6 | 7.5 | | | | | | |
| | | | | | | | Middle | 5.9 | 1 | 28.1 | 7.9 | 21.6 | 5.8 | 83.4 | 7.2 | 6.2 | | | | | | |
| | | | | | | | | 2 | 28.0 | 7.9 | 21.7 | 5.8 | 83.4 | 7.0 | 6.3 | | | | | | | |
| | | | | | | | Bottom | 10.8 | 1 | 27.5 | 7.9 | 22.5 | 5.5 | 78.2 | 5.7 | 5.7 | | | | | | |
| | | | | | | | | 2 | 27.5 | 7.9 | 22.5 | 5.5 | 78.5 | 5.6 | 5.4 | | | | | | | |
| | | TCE-WQM1 | Sunny | Moderate | 14:55 | 8.1 | Surface | 1.0 | 1 | 28.0 | 7.9 | 22.6 | 5.9 | 84.8 | 5.6 | 5.8 | 5.8 | 7.7 | 6.2 | | | |
| | | | | | | | | | 2 | 28.0 | 7.9 | 22.6 | 5.8 | 84.7 | 5.7 | 6.0 | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 27.7 | 7.9 | 22.9 | 5.8 | 82.9 | 7.8 | 6.0 | | | | | | |
| | | | | | | | | 2 | 27.6 | 7.9 | 22.9 | 5.8 | 83.2 | 7.5 | 5.6 | | | | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 27.4 | 7.9 | 23.1 | 5.5 | 79.4 | 9.7 | 7.0 | | | | | | |
| | | | | | | | | 2 | 27.4 | 7.9 | 23.1 | 5.6 | 79.8 | 9.7 | 6.6 | | | | | | | |
| | | TCE-WQM2a | Sunny | Moderate | 15:26 | 7.2 | Surface | 1.0 | 1 | 27.5 | 7.9 | 23.0 | 5.5 | 78.8 | 5.1 | 7.1 | 5.4 | 5.1 | 8.2 | | | |
| | | | | | | | | | 2 | 27.5 | 7.9 | 23.0 | 5.5 | 78.8 | 5.1 | 6.9 | | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 27.3 | 7.9 | 23.3 | 5.4 | 77.6 | 5.3 | 8.4 | | | | | | |
| | | | | | | | | 2 | 27.2 | 7.9 | 23.4 | 5.4 | 77.3 | 5.2 | 8.6 | | | | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 26.7 | 7.9 | 24.4 | 5.0 | 71.2 | 4.8 | 9.0 | | | | | | |
| | | | | | | | | 2 | 26.7 | 7.9 | 24.4 | 5.0 | 71.3 | 5.0 | 9.2 | | | | | | | |
| | | TCE-WQM2b | Sunny | Moderate | 15:39 | 11.0 | Surface | 1.0 | 1 | 28.9 | 8.0 | 20.2 | 6.6 | 95.8 | 4.1 | 3.5 | 5.8 | 5.6 | 2.9 | | | |
| | | | | | | | | | 2 | 28.9 | 8.0 | 20.2 | 6.6 | 95.6 | 4.0 | 3.5 | | | | | | |
| | | | | | | | Middle | 5.5 | 1 | 27.0 | 7.9 | 23.1 | 5.1 | 72.9 | 5.6 | 3.0 | | | | | | |
| | | | | | | | | 2 | 27.0 | 7.9 | 23.1 | 5.1 | 72.8 | 5.5 | 2.7 | | | | | | | |
| | | | | | | | Bottom | 10.0 | 1 | 27.0 | 7.9 | 23.2 | 5.1 | 72.7 | 7.0 | 2.4 | | | | | | |
| | | | | | | | | 2 | 27.0 | 7.9 | 23.2 | 5.1 | 72.9 | 7.1 | 2.3 | | | | | | | |
| | | TCE-WQM3A | Sunny | Moderate | 15:15 | 3.3 | Surface | 1.0 | 1 | 27.2 | 7.8 | 22.9 | 4.9 | 70.1 | 10.1 | 11.0 | 4.9 | 10.5 | 11.5 | | | |
| | | | | | | | | | 2 | 27.0 | 7.8 | 23.1 | 4.9 | 69.5 | 10.5 | 10.7 | | | | | | |
| | | | | | | | Bottom | 2.3 | 1 | 26.6 | 7.8 | 23.8 | 4.5 | 63.6 | 10.8 | 12.1 | | | | | | |
| | | | | | | | | 2 | 26.6 | 7.8 | 23.8 | 4.5 | 63.8 | 10.6 | 12.0 | | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 28.2 | 8.0 | 21.6 | 6.7 | 95.9 | 4.6 | 5.0 | | | | 6.6 | 5.5 | 5.2 |
| | | | | | | | | | 2 | 28.1 | 8.0 | 22.1 | 6.6 | 95.4 | 5.0 | 5.5 | | | | | | |
| | | Middle | 2.2 | 1 | 28.1 | 8.0 | 22.1 | 5.5 | 79.5 | 6.1 | 5.2 | | | | | | | | | | | |
| | | | 2 | 28.1 | 8.0 | 22.0 | 5.5 | 79.5 | 6.1 | 5.1 | | | | | | | | | | | | |
| | | Bottom | 10.0 | 1 | 23.9 | 7.9 | 30.1 | 4.0 | 56.1 | 5.5 | 2.8 | | | | | | | | | | | |
| | | | 2 | 24.0 | 7.9 | 30.0 | 4.0 | 56.5 | 5.6 | 3.2 | | | | | | | | | | | | |
| | | 24-07-20 | Mid-Flood | TCE-C1 | Sunny | Moderate | 10:00 | 7.4 | Surface | 1.0 | 1 | 27.6 | 7.9 | 22.3 | 5.7 | 81.4 | 3.8 | 2.3 | 5.4 | 4.7 | 3.6 | |
| | | | | | | | | | | | 2 | 27.6 | 7.9 | 22.3 | 5.7 | 81.1 | 3.9 | 2.6 | | | | |
| | | | | | | | | | Middle | 3.7 | 1 | 26.1 | 7.9 | 25.3 | 5.1 | 73.1 | 4.7 | 3.8 | | | | |
| | | | | | | | | | | 2 | 26.1 | 7.9 | 25.3 | 5.1 | 72.8 | 5.1 | 3.5 | | | | | |
| | | | | | | | | | Bottom | 6.4 | 1 | 24.2 | 7.9 | 29.4 | 4.3 | 61.0 | 5.6 | 4.8 | | | | |
| | | | | | | | | | | 2 | 24.2 | 7.9 | 29.4 | 4.4 | 61.5 | 5.3 | 4.6 | | | | | |
| | | | | TCE-C2 | Fine | Moderate | 7:13 | 12.0 | Surface | 1.0 | 1 | 25.1 | 7.9 | 27.5 | 4.3 | 61.0 | 2.9 | 6.4 | 4.1 | 4.2 | 4.7 | |
| | | | | | | | | | | | 2 | 24.9 | 7.9 | 27.8 | 4.3 | 60.9 | 3.0 | 6.9 | | | | |
| Middle | 6.0 | | | | | | | | 1 | 24.3 | 7.9 | 29.3 | 4.0 | 55.7 | 4.1 | 4.2 | | | | | | |
| | 2 | | | | | | | | 24.2 | 7.9 | 29.4 | 3.9 | 55.6 | 4.2 | 4.6 | | | | | | | |
| Bottom | 11.0 | | | | | | | | 1 | 23.9 | 7.9 | 30.1 | 4.0 | 56.1 | 5.5 | 2.8 | | | | | | |
| | 2 | | | | | | | | 24.0 | 7.9 | 30.0 | 4.0 | 56.5 | 5.6 | 3.2 | | | | | | | |
| TCE-WQM1 | Sunny | | | Moderate | 8:15 | 8.5 | Surface | 1.0 | 1 | 27.8 | 7.9 | 22.1 | 5.4 | 77.4 | 9.1 | 9.9 | 5.4 | 10.2 | 8.4 | | | |
| | | | | | | | | | 2 | 27.7 | 7.9 | 22.1 | 5.4 | 77.3 | 9.2 | 9.5 | | | | | | |
| | | | | | | | Middle | 4.3 | 1 | 27.7 | 7.9 | 22.1 | 5.4 | 77.1 | 10.3 | 8.4 | | | | | | |
| | | | | | | | | 2 | 27.7 | 7.9 | 22.1 | 5.4 | 77.1 | 10.4 | 8.0 | | | | | | | |
| | | | | | | | Bottom | 7.5 | 1 | 27.7 | 7.9 | 22.2 | 5.4 | 77.5 | 11.2 | 7.4 | | | | | | |
| | | | | | | | | 2 | 27.7 | 7.9 | 22.2 | 5.4 | 77.6 | 11.2 | 7.1 | | | | | | | |
| TCE-WQM2a | Sunny | | | Moderate | 7:42 | 7.4 | Surface | 1.0 | 1 | 27.3 | 7.9 | 22.1 | 4.9 | 70.0 | 5.2 | 2.7 | 4.7 | 5.7 | 3.6 | | | |
| | | | | | | | | | 2 | 27.3 | 7.9 | 22.1 | 4.9 | 70.0 | 5.2 | 2.5 | | | | | | |
| | | | | | | | Middle | 3.7 | 1 | 26.6 | 7.9 | 23.6 | 4.4 | 63.0 | 5.0 | 3.3 | | | | | | |
| | | | | | | | | 2 | 26.6 | 7.9 | 23.7 | 4.4 | 62.7 | 5.2 | 3.2 | | | | | | | |
| | | | | | | | Bottom | 6.4 | 1 | 26.0 | 7.9 | 25.2 | 4.3 | 61.7 | 6.9 | 4.9 | | | | | | |
| | | | | | | | | 2 | 26.0 | 7.9 | 25.2 | 4.4 | 62.2 | 6.8 | 4.7 | | | | | | | |
| TCE-WQM2b | Fine | | | Moderate | 7:30 | 11.2 | Surface | 1.0 | 1 | 27.1 | 7.9 | 22.5 | 5.0 | 71.9 | 2.7 | 4.4 | 4.7 | 4.2 | 4.8 | | | |
| | | | | | | | | | 2 | 27.2 | 7.9 | 22.4 | 5.0 | 71.7 | 2.7 | 4.2 | | | | | | |
| | | | | | | | Middle | 5.6 | 1 | 26.1 | 7.9 | 25.0 | 4.4 | 61.8 | 4.4 | 4.9 | | | | | | |
| | | | | | | | | 2 | 26.0 | 7.9 | 25.2 | 4.3 | 61.5 | 4.7 | 4.6 | | | | | | | |
| | | | | | | | Bottom | 10.2 | 1 | 25.3 | 7.9 | 27.1 | 4.3 | 61.3 | 5.5 | 5.0 | | | | | | |
| | | | | | | | | 2 | 25.3 | 7.9 | 27.0 | 4.3 | 61.6 | 5.3 | 5.5 | | | | | | | |
| TCE-WQM3A | Sunny | | | Calm | 7:54 | 3.3 | Surface | 1.0 | 1 | 27.6 | 7.9 | 21.2 | 5.1 | 73.2 | 7.4 | 3.6 | 5.1 | 7.3 | 4.5 | | | |
| | | | | | | | | | 2 | 27.6 | 7.9 | 21.2 | 5.1 | 73.4 | 7.2 | 4.0 | | | | | | |
| | | | | | | | Middle | 2.3 | 1 | 27.6 | 7.9 | 21.1 | 5.3 | 75.1 | 7.2 | 5.0 | | | | | | |
| | | | | | | | | 2 | 27.6 | 7.9 | 21.1 | 5.3 | 75.5 | 6.9 | 5.4 | | | | | | | |
| | | | | | | | Bottom | 1.0 | 1 | 27.6 | 7.9 | 21.4 | 5.4 | 77.6 | 5.7 | 3.7 | | | | | | |
| | | | | | | | | 2 | 27.6 | 7.9 | 21.4 | 5.5 | 78.1 | 5.6 | 3.4 | | | | | | | |
| TCE-WQM4 | Sunny | | | Calm | 8:03 | 3.4 | Surface | 1.0 | 1 | 27.6 | 7.9 | 21.6 | 5.6 | 79.6 | 5.8 | 2.6 | 5.4 | 5.6 | 3.0 | | | |
| | | | | | | | | | 2 | 27.6 | 7.9 | 21.6 | 5.6 | 79.6 | 5.8 | 2.6 | | | | | | |
| | | | | | | | Middle | 2.4 | 1 | 27.6 | 7.9 | 21.5 | 5.6 | 80.1 | 5.5 | 2.4 | | | | | | |
| | | | | | | | | 2 | 27.6 | 7.9 | 21.5 | 5.6 | 80.1 | 5.5 | 2.4 | | | | | | | |

| 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) | | | |
| 27-07-20 | Mid-Ebb | TCE-C1 | Fine | Moderate | 7:12 | 7.3 | Surface | 1.0 | 1 | 28.2 | 8.0 | 18.7 | 6.7 | 95.6 | 2.2 | 5.8 | 6.5 | 3.8 | 4.4 | | | |
| | | | | | | | | | 2 | 28.2 | 8.0 | 18.7 | 6.7 | 95.6 | 2.3 | 5.5 | | | | | | |
| | | | | | | | Middle | 3.7 | 1 | 27.9 | 8.0 | 20.0 | 6.2 | 88.5 | 3.2 | 4.0 | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.0 | 20.1 | 6.2 | 88.5 | 3.3 | 4.3 | | | | | | | |
| | | | | | | | Bottom | 6.3 | 1 | 26.1 | 7.9 | 25.0 | 4.7 | 66.2 | 5.9 | 3.2 | | | | | | |
| | | | | | | | | 2 | 26.0 | 7.9 | 25.0 | 4.7 | 66.1 | 5.9 | 3.8 | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 5:05 | 13.1 | Surface | 1.0 | 1 | 28.0 | 7.9 | 20.1 | 6.2 | 89.0 | 2.1 | 2.2 | 6.1 | 2.5 | 2.6 | | | |
| | | | | | | | | | 2 | 28.0 | 7.9 | 20.1 | 6.2 | 89.0 | 2.2 | 2.1 | | | | | | |
| | | | | | | | Middle | 6.6 | 1 | 27.4 | 7.9 | 21.1 | 6.0 | 85.8 | 3.7 | 2.6 | | | | | | |
| | | | | | | | | 2 | 27.4 | 7.9 | 21.2 | 6.0 | 85.5 | 3.6 | 2.6 | | | | | | | |
| | | | | | | | Bottom | 12.1 | 1 | 26.5 | 7.9 | 24.8 | 5.7 | 81.6 | 1.8 | 3.0 | | | | | | |
| | | | | | | | | 2 | 26.5 | 7.9 | 24.8 | 5.7 | 81.8 | 1.8 | 3.0 | | | | | | | |
| | | TCE-WQM1 | Fine | Calm | 6:29 | 8.2 | Surface | 1.0 | 1 | 28.3 | 8.0 | 20.6 | 6.5 | 94.2 | 6.0 | 9.5 | 6.4 | 9.4 | 10.9 | | | |
| | | | | | | | | | 2 | 28.3 | 8.0 | 20.6 | 6.5 | 93.9 | 6.4 | 9.9 | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 28.2 | 8.0 | 21.0 | 6.3 | 90.8 | 9.7 | 11.1 | | | | | | |
| | | | | | | | | 2 | 28.2 | 8.0 | 21.1 | 6.3 | 90.7 | 9.6 | 11.6 | | | | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 27.7 | 8.0 | 22.4 | 5.7 | 81.7 | 12.3 | 11.5 | | | | | | |
| | | | | | | | | 2 | 27.8 | 8.0 | 22.3 | 5.7 | 82.5 | 12.4 | 11.8 | | | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 5:53 | 6.7 | Surface | 1.0 | 1 | 27.8 | 8.0 | 21.9 | 6.3 | 90.8 | 3.0 | 7.2 | 6.2 | 5.1 | 6.1 | | | |
| | | | | | | | | | 2 | 27.8 | 8.0 | 21.9 | 6.3 | 90.8 | 3.0 | 6.9 | | | | | | |
| | | | | | | | Middle | 3.4 | 1 | 27.5 | 8.0 | 22.6 | 6.1 | 87.2 | 4.5 | 6.6 | | | | | | |
| | | | | | | | | 2 | 27.5 | 8.0 | 22.7 | 6.1 | 86.9 | 4.7 | 6.2 | | | | | | | |
| | | | | | | | Bottom | 5.7 | 1 | 27.2 | 8.0 | 23.4 | 5.9 | 84.3 | 7.7 | 4.8 | | | | | | |
| | | | | | | | | 2 | 27.2 | 8.0 | 23.4 | 5.9 | 84.1 | 7.9 | 4.9 | | | | | | | |
| | | TCE-WQM2b | Fine | Moderate | 5:39 | 11.2 | Surface | 1.0 | 1 | 28.2 | 8.0 | 18.5 | 6.4 | 90.4 | 2.2 | 3.1 | 6.1 | 4.4 | 4.0 | | | |
| | | | | | | | | | 2 | 28.2 | 8.0 | 18.5 | 6.4 | 90.3 | 2.3 | 3.3 | | | | | | |
| | | | | | | | Middle | 5.6 | 1 | 27.8 | 7.9 | 20.7 | 5.9 | 84.0 | 3.2 | 3.8 | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.9 | 20.7 | 5.9 | 83.9 | 3.4 | 3.7 | | | | | | | |
| | | | | | | | Bottom | 10.2 | 1 | 25.1 | 7.9 | 27.8 | 5.2 | 73.7 | 7.8 | 5.1 | | | | | | |
| | | | | | | | | 2 | 25.1 | 7.9 | 27.9 | 5.3 | 74.6 | 7.6 | 4.8 | | | | | | | |
| | | TCE-WQM3A | Fine | Calm | 6:05 | 4.4 | Surface | 1.0 | 1 | 28.1 | 8.0 | 21.9 | 6.4 | 92.5 | 8.0 | 2.4 | 6.4 | 8.9 | 4.0 | | | |
| | | | | | | | | | 2 | 28.1 | 8.0 | 22.0 | 6.4 | 92.5 | 8.1 | 2.2 | | | | | | |
| | | | | | | | Bottom | 3.4 | 1 | 27.2 | 8.0 | 24.1 | 5.5 | 79.2 | 9.7 | 5.8 | | | | | | |
| | | | | | | | | 2 | 27.2 | 8.0 | 24.1 | 5.5 | 79.7 | 9.7 | 5.4 | | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 28.2 | 8.0 | 20.8 | 6.8 | 98.3 | 3.3 | 10.0 | | | | 6.8 | 3.2 | 11.9 |
| | | | | | | | | | 2 | 28.2 | 8.0 | 20.8 | 6.8 | 98.2 | 3.3 | 9.7 | | | | | | |
| | | Middle | 3.2 | 1 | 28.0 | 8.0 | 21.1 | 6.7 | 96.1 | 3.2 | 13.7 | | | | | | | | | | | |
| | | | 2 | 27.9 | 8.0 | 21.2 | 6.7 | 95.7 | 3.1 | 14.0 | | | | | | | | | | | | |
| | | Bottom | 10.2 | 1 | 25.1 | 7.9 | 27.9 | 5.3 | 74.6 | 7.6 | 4.8 | | | | | | | | | | | |
| | | | 2 | 25.1 | 7.9 | 27.9 | 5.3 | 74.6 | 7.6 | 4.8 | | | | | | | | | | | | |
| | | 27-07-20 | Mid-Flood | TCE-C1 | Fine | Moderate | 10:12 | 7.5 | Surface | 1.0 | 1 | 28.4 | 8.0 | 17.2 | 6.8 | 96.7 | 3.1 | 3.1 | 6.6 | 4.0 | 5.6 | |
| | | | | | | | | | | | 2 | 28.4 | 8.0 | 17.2 | 6.8 | 96.6 | 3.2 | 3.5 | | | | |
| | | | | | | | | | Middle | 3.8 | 1 | 28.0 | 8.0 | 20.0 | 6.3 | 89.7 | 2.9 | 5.6 | | | | |
| | | | | | | | | | | 2 | 27.9 | 8.0 | 20.1 | 6.3 | 89.4 | 3.1 | 6.0 | | | | | |
| | | | | | | | | | Bottom | 6.5 | 1 | 25.6 | 7.9 | 26.8 | 4.5 | 64.5 | 5.8 | 7.7 | | | | |
| | | | | | | | | | | 2 | 25.7 | 7.9 | 26.7 | 4.5 | 64.8 | 5.9 | 7.4 | | | | | |
| | | | | TCE-C2 | Fine | Moderate | 12:26 | 13.2 | Surface | 1.0 | 1 | 27.3 | 8.0 | 22.9 | 6.2 | 89.1 | 1.7 | 6.2 | 5.3 | 5.2 | 5.4 | |
| | | | | | | | | | | | 2 | 27.3 | 8.0 | 22.9 | 6.2 | 88.7 | 1.7 | 6.1 | | | | |
| Middle | 6.6 | | | | | | | | 1 | 24.0 | 7.9 | 30.2 | 4.3 | 61.0 | 5.8 | 5.5 | | | | | | |
| | 2 | | | | | | | | 24.0 | 7.9 | 30.2 | 4.3 | 61.1 | 6.1 | 5.7 | | | | | | | |
| Bottom | 12.2 | | | | | | | | 1 | 23.8 | 7.9 | 30.6 | 4.5 | 63.4 | 8.2 | 4.4 | | | | | | |
| | 2 | | | | | | | | 23.9 | 7.9 | 30.6 | 4.5 | 63.7 | 7.9 | 4.6 | | | | | | | |
| TCE-WQM1 | Fine | | | Calm | 10:54 | 7.8 | Surface | 1.0 | 1 | 28.6 | 8.1 | 20.8 | 7.9 | 114.3 | 5.0 | 3.5 | 7.2 | 6.8 | 4.5 | | | |
| | | | | | | | | | 2 | 28.6 | 8.1 | 20.7 | 7.9 | 114.2 | 5.0 | 3.8 | | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 28.2 | 8.0 | 21.4 | 6.6 | 95.4 | 6.8 | 4.3 | | | | | | |
| | | | | | | | | 2 | 28.2 | 8.0 | 21.4 | 6.6 | 95.4 | 6.9 | 4.3 | | | | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 27.9 | 8.0 | 22.0 | 6.1 | 88.0 | 8.7 | 3.7 | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.0 | 21.9 | 6.1 | 88.2 | 8.6 | 3.5 | | | | | | | |
| TCE-WQM2a | Fine | | | Moderate | 11:43 | 6.9 | Surface | 1.0 | 1 | 28.7 | 8.1 | 20.7 | 8.1 | 116.7 | 2.7 | 5.3 | 7.7 | 4.8 | 5.8 | | | |
| | | | | | | | | | 2 | 28.7 | 8.1 | 20.7 | 8.1 | 116.7 | 2.7 | 4.9 | | | | | | |
| | | | | | | | Middle | 3.5 | 1 | 28.0 | 8.1 | 21.4 | 7.3 | 104.7 | 4.8 | 5.5 | | | | | | |
| | | | | | | | | 2 | 28.0 | 8.1 | 21.4 | 7.3 | 104.6 | 4.7 | 5.5 | | | | | | | |
| | | | | | | | Bottom | 5.9 | 1 | 27.0 | 8.0 | 23.4 | 5.8 | 82.9 | 7.0 | 6.5 | | | | | | |
| | | | | | | | | 2 | 27.0 | 8.0 | 23.4 | 5.8 | 83.2 | 7.0 | 6.9 | | | | | | | |
| TCE-WQM2b | Fine | | | Moderate | 11:54 | 11.3 | Surface | 1.0 | 1 | 28.1 | 8.1 | 21.3 | 7.0 | 101.2 | 1.6 | 5.0 | 6.3 | 5.1 | 4.9 | | | |
| | | | | | | | | | 2 | 28.1 | 8.0 | 21.3 | 7.0 | 101.1 | 1.6 | 4.7 | | | | | | |
| | | | | | | | Middle | 5.7 | 1 | 26.8 | 7.9 | 23.8 | 5.5 | 78.2 | 4.9 | 4.9 | | | | | | |
| | | | | | | | | 2 | 26.7 | 7.9 | 23.8 | 5.5 | 78.1 | 5.0 | 4.9 | | | | | | | |
| | | | | | | | Bottom | 10.3 | 1 | 25.6 | 7.9 | 26.7 | 4.9 | 70.2 | 8.8 | 4.9 | | | | | | |
| | | | | | | | | 2 | 25.6 | 7.9 | 26.7 | 4.9 | 70.3 | 8.8 | 4.8 | | | | | | | |
| TCE-WQM3A | Fine | | | Calm | 11:32 | 4.3 | Surface | 1.0 | 1 | 28.6 | 8.2 | 20.8 | 8.6 | 124.1 | 2.6 | 7.5 | 8.6 | 2.7 | 6.7 | | | |
| | | | | | | | | | 2 | 28.6 | 8.2 | 20.8 | 8.6 | 124.1 | 2.7 | 5.9 | | | | | | |
| | | | | | | | Middle | 3.3 | 1 | 28.3 | 8.2 | 21.0 | 8.6 | 124.7 | 2.7 | 6.1 | | | | | | |
| | | | | | | | | 2 | 28.3 | 8.2 | 21.1 | 8.6 | 124.6 | 2.7 | 6.1 | | | | | | | |
| | | | | | | | Bottom | 3.3 | 1 | 28.3 | 8.2 | 21.0 | 8.6 | 124.7 | 2.7 | 6.1 | | | | | | |
| | | | | | | | | 2 | 28.3 | 8.2 | 21.1 | 8.6 | 124.6 | 2.7 | 6.1 | | | | | | | |
| TCE-WQM4 | Fine | | | Calm | 11:20 | 4.4 | Surface | 1.0 | 1 | 28.4 | 8.1 | 20.6 | 7.5 | 107.8 | 4.3 | 7.0 | 7.5 | 7.3 | 7.7 | | | |
| | | | | | | | | | 2 | 28.3 | 8.1 | 20.6 | 7.5 | 107.6 | 5.2 | 7.4 | | | | | | |
| | | | | | | | Middle | 3.4 | 1 | 28.1 | 8.1 | 21.0 | 7.1 | 101.9 | 9.9 | 8.1 | | | | | | |
| | | | | | | | | 2 | 28.1 | 8.1 | 21.0 | 7.1 | 101.7 | 9.6 | 8.4 | | | | | | | |
| | | | | | | | Bottom | 3.4 | 1 | 28.1 | 8.1 | 21.0 | 7.1 | 101.9 | 9.9 | 8.1 | | | | | | |
| | | | | | | | | 2 | 28.1 | 8.1 | 21.0 | 7.1 | 101.7 | 9.6 | 8.4 | | | | | | | |

| 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) | | | | | | | | |
| 29-07-20 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 9:46 | 7.5 | Surface | 1.0 | 1 | 27.3 | 8.1 | 23.1 | 7.1 | 101.9 | 5.8 | 6.3 | 6.6 | 7.4 | 6.0 | | | | | | | | |
| | | | | | | | | | 2 | 27.2 | 8.1 | 23.2 | 7.0 | 101.1 | 6.0 | 7.0 | | | | | | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 27.2 | 8.1 | 23.4 | 6.3 | 90.1 | 7.5 | 6.0 | | | | | | | | | | | |
| | | | | | | | | 2 | 27.2 | 8.1 | 23.3 | 6.2 | 88.3 | 7.7 | 5.5 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 25.4 | 7.9 | 27.2 | 5.1 | 72.2 | 8.8 | 5.2 | | | | | | | | | | | |
| | | | | | | | | 2 | 25.3 | 7.9 | 27.4 | 5.1 | 72.1 | 8.4 | 6.0 | | | | | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 7:45 | 12.0 | Surface | 1.0 | 1 | 28.7 | 8.2 | 18.9 | 8.9 | 128.2 | 2.3 | 4.8 | 7.9 | 3.0 | 5.1 | | | | | | | | |
| | | | | | | | | | 2 | 28.7 | 8.2 | 18.9 | 8.9 | 127.9 | 2.3 | 4.9 | | | | | | | | | | | |
| | | | | | | | Middle | 6.0 | 1 | 27.4 | 8.1 | 22.4 | 7.0 | 100.0 | 3.3 | 4.7 | | | | | | | | | | | |
| | | | | | | | | 2 | 27.4 | 8.1 | 22.4 | 7.0 | 99.7 | 3.3 | 5.1 | | | | | | | | | | | | |
| | | | | | | | Bottom | 11.0 | 1 | 25.7 | 8.0 | 26.8 | 6.0 | 85.9 | 3.4 | 5.0 | | | | | | | | | | | |
| | | | | | | | | 2 | 25.7 | 8.0 | 26.9 | 6.0 | 86.0 | 3.5 | 6.0 | | | | | | | | | | | | |
| | TCE-WQM1 | Sunny | Moderate | 9:00 | 8.0 | Surface | 1.0 | 1 | 28.6 | 8.3 | 21.1 | 9.8 | 141.9 | 5.7 | 5.1 | 8.7 | 8.3 | 5.7 | | | | | | | | | |
| | | | | | | | | 2 | 28.5 | 8.3 | 21.2 | 9.5 | 137.9 | 5.9 | 5.4 | | | | | | | | | | | | |
| | | | | | | Middle | 4.0 | 1 | 28.0 | 8.2 | 22.0 | 7.7 | 111.8 | 6.5 | 5.3 | | | | | | | | | | | | |
| | | | | | | | 2 | 27.9 | 8.2 | 22.2 | 7.7 | 110.5 | 6.5 | 5.9 | | | | | | | | | | | | | |
| | | | | | | Bottom | 7.0 | 1 | 27.6 | 8.0 | 22.9 | 6.4 | 92.6 | 12.4 | 6.7 | | | | | | | | | | | | |
| | | | | | | | 2 | 27.6 | 8.0 | 22.9 | 6.4 | 92.9 | 12.9 | 5.7 | | | | | | | | | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 8:28 | 6.8 | Surface | 1.0 | 1 | 28.2 | 8.3 | 21.8 | 8.9 | 128.9 | 5.8 | 3.5 | 8.3 | 7.4 | 3.2 | | | | | | | | | |
| | | | | | | | | 2 | 28.2 | 8.3 | 21.8 | 8.9 | 128.9 | 5.8 | 4.0 | | | | | | | | | | | | |
| | | | | | | Middle | 3.4 | 1 | 27.8 | 8.1 | 22.5 | 7.8 | 111.8 | 7.0 | 2.9 | | | | | | | | | | | | |
| | | | | | | | 2 | 27.7 | 8.1 | 22.6 | 7.7 | 111.6 | 6.9 | 3.1 | | | | | | | | | | | | | |
| | | | | | | Bottom | 5.8 | 1 | 27.3 | 8.1 | 23.5 | 7.1 | 102.5 | 9.2 | 2.7 | | | | | | | | | | | | |
| | | | | | | | 2 | 27.3 | 8.1 | 23.5 | 7.1 | 102.6 | 9.6 | 3.0 | | | | | | | | | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 8:16 | 10.4 | Surface | 1.0 | 1 | 29.0 | 8.1 | 17.9 | 8.7 | 125.2 | 2.7 | 4.9 | 8.2 | 5.4 | 4.1 | | | | | | | | | | |
| | | | | | | | 2 | 28.9 | 8.1 | 18.0 | 8.7 | 124.9 | 2.8 | 4.1 | | | | | | | | | | | | | |
| | | | | | Middle | 5.2 | 1 | 28.2 | 8.1 | 20.1 | 7.8 | 111.4 | 4.0 | 3.4 | | | | | | | | | | | | | |
| | | | | | | 2 | 28.2 | 8.1 | 20.1 | 7.8 | 111.1 | 4.0 | 4.5 | | | | | | | | | | | | | | |
| | | | | | Bottom | 9.4 | 1 | 24.8 | 7.9 | 28.5 | 4.7 | 67.0 | 9.5 | 3.4 | | | | | | | | | | | | | |
| | | | | | | 2 | 24.8 | 7.9 | 28.5 | 4.7 | 66.9 | 9.4 | 4.3 | | | | | | | | | | | | | | |
| TCE-WQM3A | Sunny | Moderate | 8:39 | 3.7 | Surface | 1.0 | 1 | 28.9 | 8.3 | 21.2 | 9.8 | 143.2 | 6.0 | 4.2 | 9.8 | 7.4 | 4.0 | | | | | | | | | | |
| | | | | | | | 2 | 28.9 | 8.3 | 21.2 | 9.8 | 143.0 | 6.0 | 4.4 | | | | | | | | | | | | | |
| | | | | | Bottom | 2.7 | 1 | 28.0 | 8.2 | 22.1 | 8.1 | 116.5 | 8.9 | 3.2 | | | | | | | | | | | | | |
| | | | | | | 2 | 27.9 | 8.2 | 22.3 | 8.1 | 116.8 | 8.6 | 4.3 | | | | | | | | | | | | | | |
| | | | | | Surface | 1.0 | 1 | 28.8 | 8.3 | 21.0 | 9.7 | 140.8 | 9.7 | 3.1 | | | | 9.7 | 8.3 | 2.9 | | | | | | | |
| | | | | | | | 2 | 28.8 | 8.3 | 21.0 | 9.6 | 140.3 | 9.2 | 2.0 | | | | | | | | | | | | | |
| Middle | 2.2 | 1 | 28.6 | 8.2 | 21.4 | 9.4 | 137.1 | 6.8 | 2.6 | | | | | | | | | | | | | | | | | | |
| | 2 | 28.5 | 8.2 | 21.4 | 9.3 | 135.4 | 7.2 | 2.7 | | | | | | | | | | | | | | | | | | | |
| Bottom | 4.0 | 1 | 28.5 | 8.2 | 21.4 | 9.3 | 135.4 | 7.2 | 2.7 | | | | | | | | | | | | | | | | | | |
| | 2 | 28.5 | 8.2 | 21.4 | 9.3 | 135.4 | 7.2 | 2.7 | | | | | | | | | | | | | | | | | | | |
| 29-07-20 | Mid-Flood | TCE-C1 | Sunny | Moderate | 13:30 | 7.4 | Surface | 1.0 | 1 | 29.6 | 8.2 | 17.3 | 8.8 | 127.2 | 3.8 | 7.3 | 8.0 | 6.0 | 6.8 | | | | | | | | |
| | | | | | | | | | 2 | 29.6 | 8.2 | 17.3 | 8.8 | 126.9 | 4.0 | 6.9 | | | | | | | | | | | |
| | | | | | | | Middle | 3.7 | 1 | 27.9 | 8.1 | 21.5 | 7.2 | 102.8 | 5.8 | 7.1 | | | | | | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.1 | 21.5 | 7.1 | 102.1 | 5.8 | 6.8 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.4 | 1 | 24.9 | 7.9 | 28.3 | 4.5 | 63.4 | 8.4 | 6.3 | | | | | | | | | | | |
| | | | | | | | | 2 | 24.9 | 7.9 | 28.3 | 4.5 | 63.6 | 8.2 | 6.3 | | | | | | | | | | | | |
| | | | | | | | TCE-C2 | Sunny | Moderate | 15:34 | 11.6 | Surface | 1.0 | 1 | 28.0 | 8.3 | | | | 22.2 | 10.4 | 149.6 | 3.3 | 7.0 | 7.4 | 4.8 | 6.7 |
| | | | | | | | | | | | | | | 2 | 28.0 | 8.3 | | | | 22.2 | 10.3 | 148.7 | 3.3 | 7.2 | | | |
| | | | | | | | | | | | | Middle | 5.8 | 1 | 23.7 | 7.9 | | | | 30.8 | 4.5 | 63.5 | 5.4 | 6.5 | | | |
| | | | | | | | | | | | | | 2 | 23.7 | 7.9 | 30.8 | | | | 4.5 | 63.6 | 5.4 | 7.1 | | | | |
| | | | | | | | | | | | | Bottom | 10.6 | 1 | 23.6 | 7.9 | | | | 31.0 | 4.8 | 67.2 | 5.7 | 5.8 | | | |
| | | | | | | | | | | | | | 2 | 23.6 | 7.9 | 31.0 | | | | 4.8 | 67.7 | 5.7 | 6.4 | | | | |
| | | TCE-WQM1 | Sunny | Moderate | 14:09 | 7.8 | Surface | 1.0 | 1 | 29.4 | 8.4 | 20.5 | 11.8 | 172.1 | 3.4 | 5.9 | 10.9 | 6.1 | 4.9 | | | | | | | | |
| | | | | | | | | | 2 | 29.3 | 8.4 | 20.6 | 11.7 | 171.1 | 3.4 | 5.5 | | | | | | | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 29.1 | 8.4 | 20.8 | 10.0 | 145.3 | 4.4 | 3.4 | | | | | | | | | | | |
| | | | | | | | | 2 | 29.1 | 8.4 | 20.7 | 10.1 | 145.7 | 4.0 | 3.7 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 27.9 | 8.1 | 22.8 | 7.6 | 109.2 | 10.6 | 4.8 | | | | | | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.1 | 22.8 | 7.6 | 109.5 | 10.8 | 5.9 | | | | | | | | | | | | |
| | | TCE-WQM2a | Sunny | Moderate | 14:52 | 7.0 | Surface | 1.0 | 1 | 28.9 | 8.4 | 20.6 | 11.6 | 168.8 | 5.1 | 8.0 | 9.2 | 6.9 | 10.8 | | | | | | | | |
| | | | | | | | | | 2 | 28.9 | 8.4 | 20.6 | 11.6 | 168.8 | 5.1 | 8.9 | | | | | | | | | | | |
| | | | | | | | Middle | 3.5 | 1 | 26.5 | 8.0 | 24.9 | 6.8 | 97.1 | 7.8 | 11.1 | | | | | | | | | | | |
| | | | | | | | | 2 | 26.5 | 8.0 | 24.9 | 6.8 | 96.9 | 7.9 | 11.8 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.0 | 1 | 26.5 | 8.0 | 25.0 | 6.7 | 96.2 | 7.8 | 12.1 | | | | | | | | | | | |
| | | | | | | | | 2 | 26.5 | 8.0 | 25.0 | 6.7 | 96.3 | 7.7 | 12.8 | | | | | | | | | | | | |
| | TCE-WQM2b | Sunny | Moderate | 15:05 | 11.0 | Surface | 1.0 | 1 | 28.0 | 8.2 | 21.7 | 9.2 | 132.7 | 4.3 | 5.4 | 7.3 | 7.9 | 7.5 | | | | | | | | | |
| | | | | | | | | 2 | 28.0 | 8.2 | 21.7 | 9.1 | 130.9 | 5.0 | 6.3 | | | | | | | | | | | | |
| | | | | | | Middle | 5.5 | 1 | 25.8 | 7.9 | 26.3 | 5.6 | 79.2 | 9.7 | 7.5 | | | | | | | | | | | | |
| | | | | | | | 2 | 25.8 | 7.9 | 26.3 | 5.5 | 78.7 | 9.6 | 6.7 | | | | | | | | | | | | | |
| | | | | | | Bottom | 10.0 | 1 | 24.6 | 7.9 | 29.0 | 5.0 | 70.6 | 9.1 | 9.9 | | | | | | | | | | | | |
| | | | | | | | 2 | 24.6 | 7.9 | 29.0 | 5.0 | 70.9 | 9.9 | 9.0 | | | | | | | | | | | | | |
| | TCE-WQM3A | Sunny | Moderate | 14:39 | 3.3 | Surface | 1.0 | 1 | 29.4 | 8.5 | 20.1 | 12.7 | 185.9 | 4.3 | 7.8 | 12.7 | 4.8 | 7.9 | | | | | | | | | |
| | | | | | | | | 2 | 29.4 | 8.5 | 20.1 | 12.7 | 185.4 | 4.2 | 8.7 | | | | | | | | | | | | |
| | | | | | | Middle | 2.3 | 1 | 29.3 | 8.4 | 20.4 | 11.8 | 171.8 | 5.4 | 7.0 | | | | | | | | | | | | |
| | | | | | | | 2 | 29.3 | 8.4 | 20.5 | 11.7 | 170.8 | 5.5 | 8.1 | | | | | | | | | | | | | |
| | | | | | | Bottom | 1.0 | 1 | 28.7 | 8.3 | 20.4 | 10.8 | 156.5 | 9.6 | 11.2 | | | | | | | | | | | | |
| | | | | | | | 2 | 28.7 | 8.3 | 20.5 | 10.8 | 156.2 | 9.8 | 10.3 | | | | | | | | | | | | | |
| | TCE-WQM4 | Sunny | Moderate | 14:28 | 3.4 | Surface | 1.0 | 1 | 28.7 | 8.3 | 20.4 | 10.8 | 156.5 | 9.6 | 11.2 | 10.8 | 9.7 | 11.7 | | | | | | | | | |
| | | | | | | | | 2 | 28.7 | 8.3 | 20.5 | 10.8 | 156.2 | 9.8 | 10.3 | | | | | | | | | | | | |
| | | | | | | Middle | 2.4 | 1 | 28.5 | 8.3 | 20.8 | 9.8 | 141.3 | 9.7 | 13.0 | | | | | | | | | | | | |
| | | | | | | | 2 | 28.5 | 8.3 | 20.8 | 9.7 | 140.6 | 9.8 | 12.4 | | | | | | | | | | | | | |

| 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) | | |
| 31-07-20 | Mid-Ebb | TCE-C1 | Fine | Rough | 12:08 | 7.8 | Surface | 1.0 | 1 | 26.5 | 8.1 | 24.8 | 6.5 | 92.9 | 7.8 | 11.5 | 6.3 | 8.3 | 12.2 | | |
| | | | | | | | | | 2 | 26.5 | 8.1 | 24.8 | 6.5 | 92.8 | 7.9 | 10.9 | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 26.3 | 8.1 | 25.2 | 6.1 | 86.4 | 8.5 | 12.2 | | | | | |
| | | | | | | | | 2 | 26.2 | 8.1 | 25.5 | 6.0 | 86.4 | 8.4 | 13.9 | | | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 25.9 | 8.1 | 26.6 | 5.4 | 76.7 | 8.5 | 12.7 | | | | | |
| | | | | | | | | 2 | 25.9 | 8.1 | 26.5 | 5.4 | 77.1 | 8.6 | 12.2 | | | | | | |
| | | TCE-C2 | Fine | Moderate | 9:02 | 11.2 | Surface | 1.0 | 1 | 26.9 | 8.2 | 24.1 | 8.3 | 118.4 | 2.7 | 5.5 | 7.7 | 4.2 | 5.9 | | |
| | | | | | | | | | 2 | 26.9 | 8.2 | 24.1 | 8.2 | 118.1 | 2.8 | 5.8 | | | | | |
| | | | | | | | Middle | 5.6 | 1 | 26.6 | 8.1 | 24.7 | 7.1 | 101.2 | 3.8 | 5.9 | | | | | |
| | | | | | | | | 2 | 26.6 | 8.1 | 24.7 | 7.1 | 100.9 | 4.0 | 6.2 | | | | | | |
| | | | | | | | Bottom | 10.2 | 1 | 25.5 | 8.0 | 27.6 | 6.0 | 86.1 | 5.9 | 6.5 | | | | | |
| | | | | | | | | 2 | 25.5 | 8.0 | 27.6 | 6.0 | 86.0 | 5.9 | 5.4 | | | | | | |
| | | TCE-WQM1 | Rainy | Moderate | 10:15 | 8.0 | Surface | 1.0 | 1 | 27.4 | 8.3 | 23.8 | 8.0 | 115.0 | 4.4 | 7.4 | 7.4 | 6.6 | 7.4 | | |
| | | | | | | | | | 2 | 27.4 | 8.3 | 23.8 | 7.9 | 114.3 | 4.4 | 6.4 | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 27.0 | 8.1 | 24.3 | 6.9 | 98.7 | 7.5 | 7.7 | | | | | |
| | | | | | | | | 2 | 27.0 | 8.1 | 24.4 | 6.8 | 98.3 | 7.6 | 7.3 | | | | | | |
| | | | | | | | Bottom | 7.0 | 1 | 26.5 | 8.1 | 25.2 | 6.3 | 90.1 | 7.7 | 7.8 | | | | | |
| | | | | | | | | 2 | 26.5 | 8.1 | 25.2 | 6.3 | 90.6 | 7.8 | 7.8 | | | | | | |
| | | TCE-WQM2a | Fine | Rough | 9:42 | 7.1 | Surface | 1.0 | 1 | 27.1 | 8.3 | 24.7 | 7.7 | 110.9 | 4.2 | 6.0 | 7.0 | 5.4 | 6.2 | | |
| | | | | | | | | | 2 | 27.1 | 8.3 | 24.7 | 7.7 | 110.9 | 4.2 | 5.5 | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 26.4 | 8.1 | 26.0 | 6.3 | 90.7 | 5.9 | 5.7 | | | | | |
| | | | | | | | | 2 | 26.3 | 8.1 | 26.2 | 6.3 | 90.3 | 5.9 | 6.8 | | | | | | |
| | | | | | | | Bottom | 6.1 | 1 | 25.9 | 8.0 | 26.9 | 6.1 | 87.6 | 6.1 | 6.2 | | | | | |
| | | | | | | | | 2 | 25.9 | 8.1 | 26.9 | 6.2 | 88.1 | 6.2 | 7.0 | | | | | | |
| | | TCE-WQM2b | Fine | Rough | 9:31 | 10.8 | Surface | 1.0 | 1 | 27.0 | 8.2 | 23.7 | 8.2 | 117.0 | 5.1 | 7.2 | 7.3 | 6.5 | 6.4 | | |
| | | | | | | | | | 2 | 26.9 | 8.2 | 24.0 | 8.2 | 116.9 | 5.1 | 7.1 | | | | | |
| | | | | | | | Middle | 5.4 | 1 | 26.5 | 8.1 | 24.9 | 6.5 | 92.7 | 6.8 | 6.2 | | | | | |
| | | | | | | | | 2 | 26.5 | 8.1 | 24.9 | 6.5 | 92.6 | 6.7 | 5.9 | | | | | | |
| | | | | | | | Bottom | 9.8 | 1 | 26.5 | 8.1 | 25.0 | 6.5 | 93.4 | 7.5 | 6.3 | | | | | |
| | | | | | | | | 2 | 26.5 | 8.1 | 25.0 | 6.5 | 93.7 | 7.7 | 5.8 | | | | | | |
| | | TCE-WQM3A | Rainy | Moderate | 9:54 | 3.4 | Surface | 1.0 | 1 | 27.0 | 8.1 | 24.8 | 7.3 | 105.5 | 6.7 | 8.5 | 7.3 | 6.8 | 7.6 | | |
| | | | | | | | | | 2 | 26.9 | 8.1 | 24.8 | 7.4 | 105.8 | 6.8 | 7.9 | | | | | |
| | | | | | | | Bottom | 2.4 | 1 | 26.8 | 8.1 | 25.1 | 7.0 | 101.0 | 6.8 | 6.8 | | | | | |
| | | | | | | | | 2 | 26.8 | 8.1 | 25.1 | 7.0 | 101.1 | 6.7 | 7.0 | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 27.1 | 8.2 | 24.4 | 7.5 | 107.6 | 5.5 | 6.8 | | | | | |
| | | | | | | | | 2 | 27.1 | 8.2 | 24.5 | 7.4 | 107.2 | 5.8 | 7.1 | | | | | | |
| | | TCE-WQM4 | Rainy | Moderate | 10:03 | 3.5 | Bottom | 2.5 | 1 | 26.9 | 8.1 | 25.0 | 6.6 | 95.5 | 8.5 | 8.2 | 7.5 | 7.2 | 7.5 | | |
| | | | | | | | | | 2 | 26.9 | 8.1 | 24.9 | 6.7 | 96.3 | 9.0 | 7.8 | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 26.5 | 8.1 | 24.8 | 6.5 | 92.5 | 7.4 | 14.0 | | | | | |
| | | | | | | | | 2 | 26.5 | 8.1 | 24.8 | 6.5 | 92.4 | 7.5 | 12.7 | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 26.3 | 8.1 | 25.2 | 6.1 | 86.9 | 8.0 | 11.0 | | | | | |
| | | | | | | | | 2 | 26.3 | 8.1 | 25.4 | 6.1 | 86.7 | 8.1 | 12.4 | | | | | | |
| | | 31-07-20 | Mid-Flood | TCE-C1 | Rainy | Rough | 16:20 | 7.6 | Surface | 1.0 | 1 | 26.5 | 8.1 | 24.8 | 6.5 | 92.5 | 7.4 | 14.0 | 6.3 | 8.1 | 12.3 |
| | | | | | | | | | | | 2 | 26.5 | 8.1 | 24.8 | 6.5 | 92.4 | 7.5 | 12.7 | | | |
| | | | | | | | | | Middle | 3.8 | 1 | 26.3 | 8.1 | 25.2 | 6.1 | 86.9 | 8.0 | 11.0 | | | |
| | | | | | | | | | | 2 | 26.3 | 8.1 | 25.4 | 6.1 | 86.7 | 8.1 | 12.4 | | | | |
| | | | | | | | | | Bottom | 6.6 | 1 | 25.9 | 8.1 | 26.4 | 5.5 | 78.0 | 9.0 | 12.2 | | | |
| | | | | | | | | | | 2 | 25.9 | 8.1 | 26.4 | 5.5 | 78.1 | 8.9 | 11.7 | | | | |
| TCE-C2 | Rainy | | | Rough | 18:24 | 12.5 | Surface | 1.0 | 1 | 25.7 | 8.1 | 27.3 | 6.3 | 90.8 | 3.0 | 4.6 | 5.9 | 4.2 | 5.8 | | |
| | | | | | | | | | 2 | 25.6 | 8.1 | 27.5 | 6.3 | 90.4 | 3.1 | 4.8 | | | | | |
| | | | | | | | Middle | 6.3 | 1 | 24.8 | 8.0 | 29.4 | 5.5 | 78.1 | 4.2 | 4.2 | | | | | |
| | | | | | | | | 2 | 24.8 | 8.0 | 29.5 | 5.5 | 77.7 | 4.2 | 5.3 | | | | | | |
| | | | | | | | Bottom | 11.5 | 1 | 24.4 | 8.0 | 30.0 | 5.1 | 72.6 | 5.1 | 8.4 | | | | | |
| | | | | | | | | 2 | 24.4 | 8.0 | 30.0 | 5.1 | 73.0 | 5.2 | 7.5 | | | | | | |
| TCE-WQM1 | Rainy | | | Moderate | 17:01 | 8.0 | Surface | 1.0 | 1 | 27.4 | 8.3 | 23.8 | 8.0 | 115.1 | 5.6 | 7.2 | 7.7 | 6.5 | 8.5 | | |
| | | | | | | | | | 2 | 27.4 | 8.3 | 23.9 | 8.0 | 114.9 | 5.6 | 7.8 | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 27.2 | 8.2 | 24.3 | 7.4 | 107.4 | 6.1 | 9.5 | | | | | |
| | | | | | | | | 2 | 27.2 | 8.2 | 24.3 | 7.4 | 107.2 | 6.1 | 8.1 | | | | | | |
| | | | | | | | Bottom | 7.0 | 1 | 27.1 | 8.2 | 24.5 | 7.1 | 102.3 | 7.8 | 8.9 | | | | | |
| | | | | | | | | 2 | 27.0 | 8.2 | 24.5 | 6.8 | 98.5 | 7.7 | 9.3 | | | | | | |
| TCE-WQM2a | Rainy | | | Rough | 17:37 | 6.6 | Surface | 1.0 | 1 | 26.8 | 8.2 | 24.5 | 7.9 | 113.5 | 5.2 | 7.9 | 7.9 | 6.4 | 8.6 | | |
| | | | | | | | | | 2 | 26.8 | 8.2 | 24.5 | 7.9 | 113.5 | 5.2 | 8.6 | | | | | |
| | | | | | | | Middle | 3.3 | 1 | 26.7 | 8.2 | 24.6 | 7.8 | 111.7 | 6.5 | 9.2 | | | | | |
| | | | | | | | | 2 | 26.7 | 8.2 | 24.7 | 7.8 | 111.5 | 6.5 | 8.1 | | | | | | |
| | | | | | | | Bottom | 5.6 | 1 | 26.5 | 8.2 | 25.3 | 7.2 | 103.0 | 7.5 | 8.2 | | | | | |
| | | | | | | | | 2 | 26.5 | 8.2 | 25.3 | 7.2 | 103.3 | 7.6 | 9.3 | | | | | | |
| TCE-WQM2b | Rainy | | | Rough | 17:50 | 10.0 | Surface | 1.0 | 1 | 26.6 | 8.2 | 24.7 | 7.8 | 111.0 | 3.4 | 5.7 | 7.1 | 4.8 | 5.6 | | |
| | | | | | | | | | 2 | 26.6 | 8.2 | 24.7 | 7.7 | 110.5 | 3.5 | 5.1 | | | | | |
| | | | | | | | Middle | 5.0 | 1 | 26.0 | 8.1 | 26.3 | 6.6 | 93.6 | 4.4 | 6.0 | | | | | |
| | | | | | | | | 2 | 26.0 | 8.1 | 26.3 | 6.5 | 93.3 | 4.5 | 5.1 | | | | | | |
| | | | | | | | Bottom | 9.0 | 1 | 25.1 | 8.0 | 28.3 | 5.4 | 77.1 | 6.5 | 6.2 | | | | | |
| | | | | | | | | 2 | 25.1 | 8.0 | 28.2 | 5.4 | 77.4 | 6.7 | 5.7 | | | | | | |
| TCE-WQM3A | Rainy | | | Moderate | 17:24 | 3.3 | Surface | 1.0 | 1 | 26.9 | 8.3 | 24.7 | 8.1 | 116.5 | 4.1 | 6.6 | 8.1 | 4.1 | 5.8 | | |
| | | | | | | | | | 2 | 26.9 | 8.3 | 24.7 | 8.1 | 116.3 | 4.0 | 6.6 | | | | | |
| | | | | | | | Bottom | 2.3 | 1 | 26.9 | 8.2 | 24.8 | 7.9 | 113.4 | 4.0 | 5.3 | | | | | |
| | | | | | | | | 2 | 26.9 | 8.2 | 24.8 | 7.9 | 113.0 | 4.2 | 5.3 | | | | | | |
| | | | | | | | Surface | 1.0 | 1 | 26.8 | 8.3 | 24.6 | 8.1 | 116.8 | 7.3 | 11.6 | | | | | |
| | | | | | | | | 2 | 26.8 | 8.3 | 24.6 | 8.1 | 116.6 | 7.4 | 11.1 | | | | | | |
| TCE-WQM4 | Rainy | | | Moderate | 17:13 | 3.3 | Bottom | 2.3 | 1 | 26.8 | 8.2 | 24.6 | 7.9 | 113.9 | 8.3 | 13.9 | 7.9 | 7.8 | 12.3 | | |
| | | | | | | | | | 2 | 26.7 | 8.2 | 24.6 | 7.9 | 113.4 | 8.3 | 12.7 | | | | | |