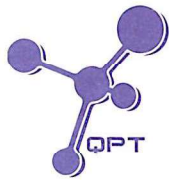


Annex G

Water Quality

Annex G1

Calibration Certificates for Water Quality



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060094
Date of Issue : 27 June 2023
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 15M100005
Date of Received : 23 June 2023
Date of Calibration : 23 June 2023
Date of Next Calibration : 22 September 2023
Request No. : D-BC060094

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Test Parameter | Reference Method |
|------------------|---|
| pH value | APHA 21e 4500 H ⁺ |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure |
| Salinity | APHA 21e 2520 B |
| Dissolved oxygen | APHA 21e 4500 O |
| Turbidity | APHA 21e 2130 B |
| Conductivity | APHA 21e 2510 B |

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.04 | 0.04 | Satisfactory |
| 7.42 | 7.50 | 0.08 | Satisfactory |
| 10.01 | 9.98 | -0.03 | Satisfactory |

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Display Reading (°C) | Tolerance | Result |
|----------------------------------|----------------------|-----------|--------------|
| 10 | 10.0 | 0.0 | Satisfactory |
| 25 | 24.9 | -0.1 | Satisfactory |
| 45 | 45.1 | 0.1 | Satisfactory |

Tolerance of Temperature should be less than ± 2.0 (°C)


(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 10.18 | 1.80 | Satisfactory |
| 20 | 20.42 | 2.10 | Satisfactory |
| 30 | 30.20 | 0.67 | Satisfactory |

Tolerance of Salinity should be less than ± 10.0 (%)

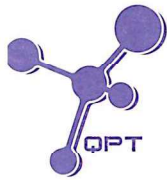
--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:



LEE Chun-ting

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060094
Date of Issue : 27 June 2023
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 7.29 | 7.41 | 0.12 | Satisfactory |
| 6.12 | 6.02 | -0.10 | Satisfactory |
| 5.48 | 5.71 | 0.23 | Satisfactory |
| 2.72 | 2.38 | -0.34 | Satisfactory |

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|--------------------------|-------------------------|-----------------|--------------|
| 0 | 0.10 | -- | Satisfactory |
| 10 | 9.88 | -1.20 | Satisfactory |
| 20 | 20.21 | 1.10 | Satisfactory |
| 100 | 97.34 | -2.70 | Satisfactory |
| 800 | 781.97 | -2.30 | Satisfactory |

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

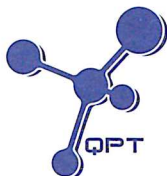
| Expected Reading ($\mu\text{S/cm}$ at 25°C) | Display Reading | Tolerance (%) | Result |
|---|-----------------|-----------------|--------------|
| 146.9 | 151.4 | 3.06 | Satisfactory |
| 1412 | 1288 | -8.78 | Satisfactory |
| 12890 | 12793 | -0.75 | Satisfactory |
| 58670 | 59287 | 1.05 | Satisfactory |
| 111900 | 112186 | 0.26 | Satisfactory |

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060025
Date of Issue : 06 June 2023
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : S/N: 16H104233
Date of Received : 02 June 2023
Date of Calibration : 02 June 2023
Date of Next Calibration : 01 September 2023
Request No. : D-BC060025

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Test Parameter | Reference Method |
|------------------|---|
| pH value | APHA 21e 4500 H ⁺ |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure |
| Salinity | APHA 21e 2520 B |
| Dissolved oxygen | APHA 21e 4500 O |
| Turbidity | APHA 21e 2130 B |
| Conductivity | APHA 21e 2510 B |

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.07 | 0.07 | Satisfactory |
| 7.42 | 7.49 | 0.07 | Satisfactory |
| 10.01 | 10.09 | 0.08 | Satisfactory |

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Display Reading (°C) | Tolerance | Result |
|----------------------------------|----------------------|-----------|--------------|
| 10 | 10.0 | 0.0 | Satisfactory |
| 25 | 25.0 | 0.0 | Satisfactory |
| 45 | 45.0 | 0.0 | Satisfactory |

Tolerance of Temperature should be less than ± 2.0 (°C)

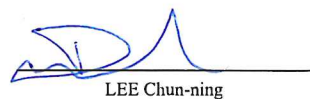
(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 10.09 | 0.90 | Satisfactory |
| 20 | 20.38 | 1.90 | Satisfactory |
| 30 | 30.33 | 1.10 | Satisfactory |

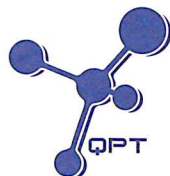
Tolerance of Salinity should be less than ± 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:



LEE Chun-ning
Assistant Manager (Chemical Testing)



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060025
Date of Issue : 06 June 2023
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 7.12 | 7.15 | 0.03 | Satisfactory |
| 4.61 | 4.39 | -0.22 | Satisfactory |
| 1.57 | 1.27 | -0.30 | Satisfactory |
| 0.16 | 0.56 | 0.40 | Satisfactory |

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|--------------------------|-------------------------|-----------------|--------------|
| 0 | 0.10 | -- | Satisfactory |
| 10 | 9.84 | -1.60 | Satisfactory |
| 20 | 20.11 | 0.50 | Satisfactory |
| 100 | 107.60 | 7.60 | Satisfactory |
| 800 | 798.22 | -0.20 | Satisfactory |

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

| Expected Reading ($\mu\text{S}/\text{cm}$ at 25°C) | Display Reading | Tolerance (%) | Result |
|--|-----------------|-----------------|--------------|
| 146.9 | 148.7 | 1.23 | Satisfactory |
| 1412 | 1491 | 5.59 | Satisfactory |
| 12890 | 12677 | -1.65 | Satisfactory |
| 58670 | 59440 | 1.31 | Satisfactory |
| 111900 | 113112 | 1.08 | Satisfactory |

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---

Annex G2

Monitoring Schedule for Water Quality

**Tung Chung New Town Extension (East)
Impact Marine Water Quality Monitoring (WQM) Schedule (August 2023)**

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|---------|---|----------|---|----------|
| | | 1-Aug | 2-Aug | 3-Aug | 4-Aug | 5-Aug |
| | | | ebb tide 11:45 - 15:15 flood tide 4:39 - 8:09 | | ebb tide 13:17 - 16:47 flood tide 6:26 - 9:56 | |
| 6-Aug | 7-Aug | 8-Aug | 9-Aug | 10-Aug | 11-Aug | 12-Aug |
| | ebb tide 3:34 - 7:04 flood tide 9:17 - 12:47 | | ebb tide 5:33 - 9:03 flood tide 12:01 - 15:31 | | ebb tide 7:59 - 11:29 flood tide 20:26 - 23:56 | |
| 13-Aug | 14-Aug | 15-Aug | 16-Aug | 17-Aug | 18-Aug | 19-Aug |
| | ebb tide 10:22 - 13:52 flood tide 3:03 - 6:33 | | ebb tide 11:35 - 15:05 flood tide 4:32 - 8:02 | | ebb tide 12:37 - 16:07 flood tide 5:48 - 9:18 | |
| 20-Aug | 21-Aug | 22-Aug | 23-Aug | 24-Aug | 25-Aug | 26-Aug |
| | ebb tide 14:00 - 17:30 flood tide 7:42 - 11:12 | | ebb tide 15:09 - 18:00 flood tide 9:22 - 12:52 | | ebb tide 6:00 - 8:43 flood tide 17:46 - 21:16 | |
| 27-Aug | 28-Aug | 29-Aug | 30-Aug | 31-Aug | | |
| | ebb tide 8:56 - 12:26 flood tide 1:31 - 5:01 | | ebb tide 10:42 - 14:12 flood tide 3:45 - 7:15 | | | |

Remark:

Pickup time and place of 1st tide: 15 min before tidal window at Sham Tseng pier

Pickup time and place of 2nd tide: 15 min before tidal window at Tung Chung pier

Annex G3

Monitoring Results for Water Quality

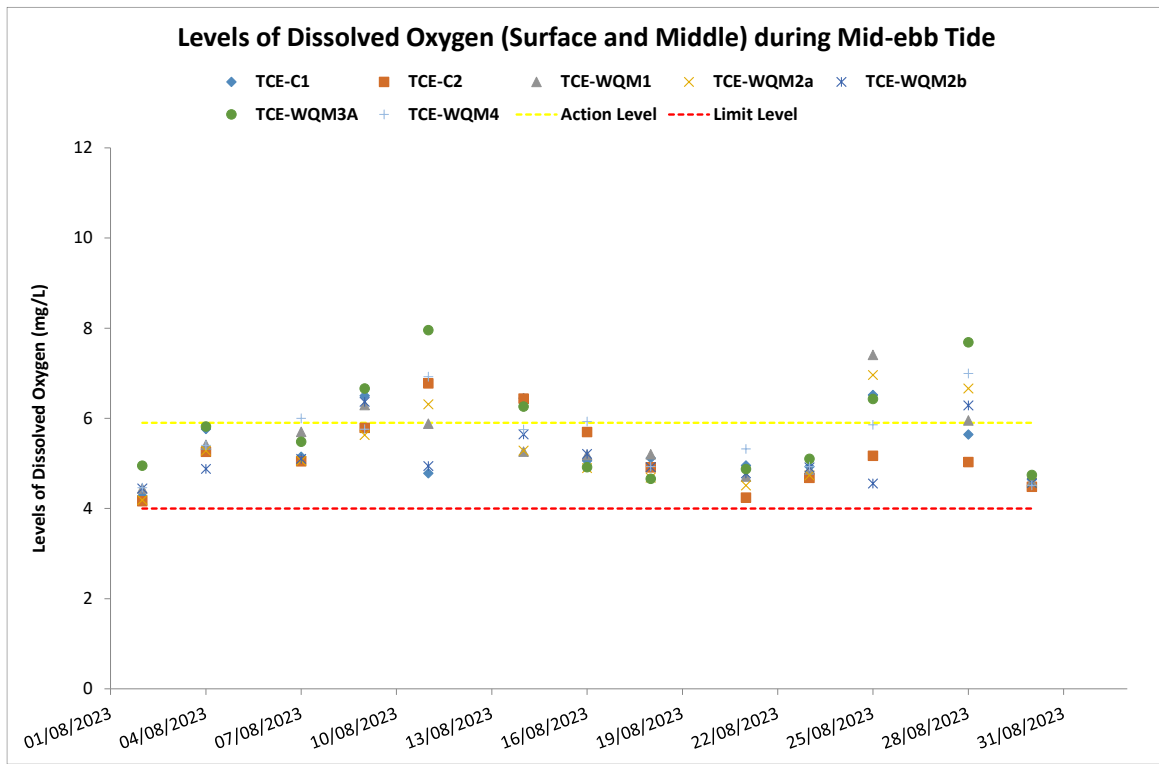


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 August 2023

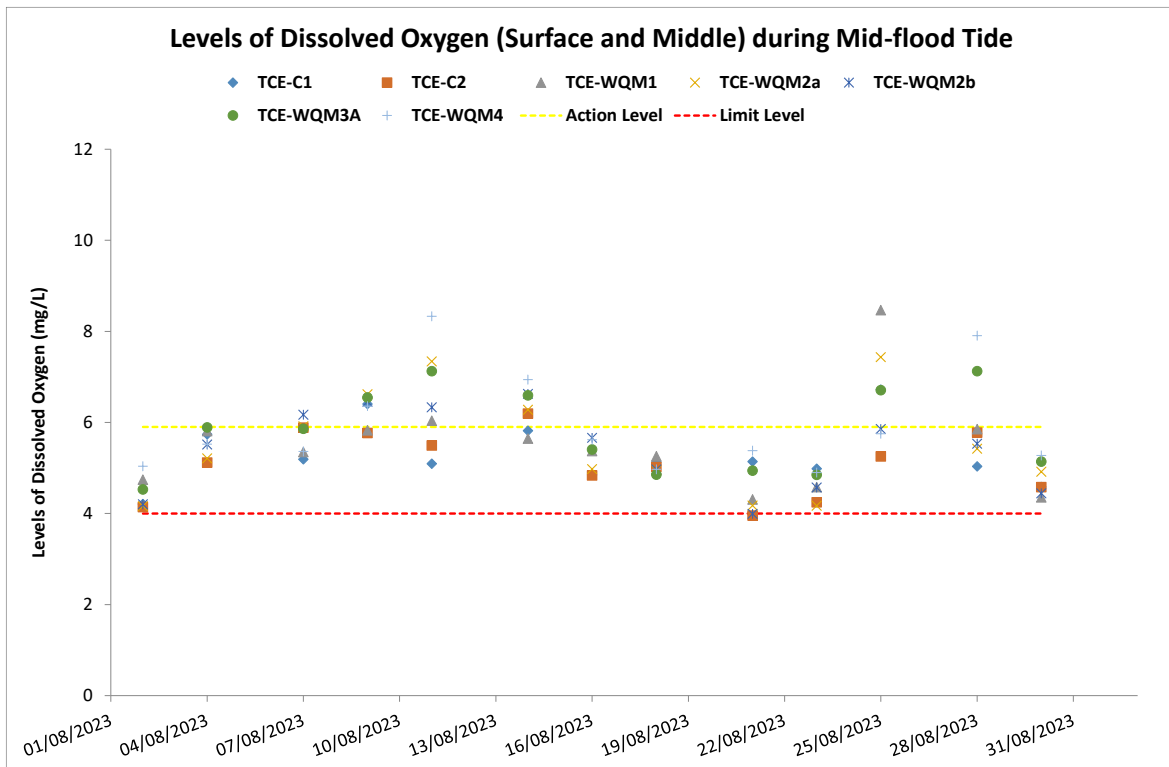


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 August 2023

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

Environmental Resources Management



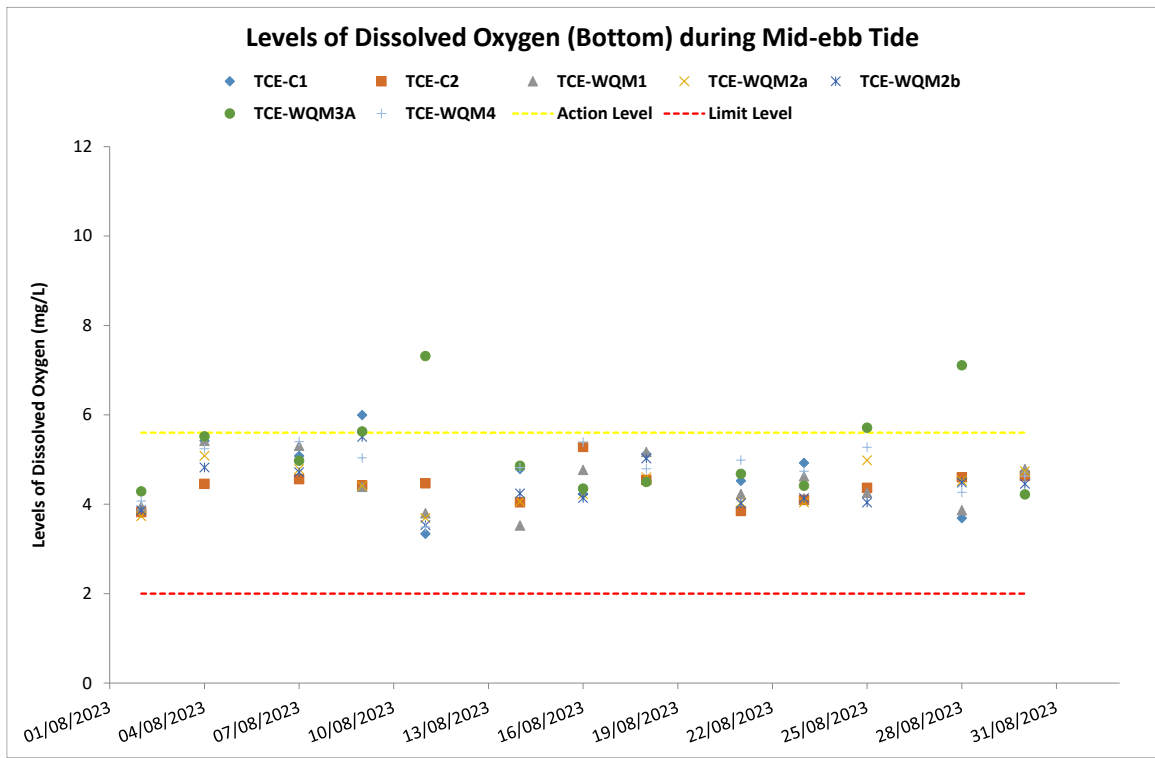


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 August 2023

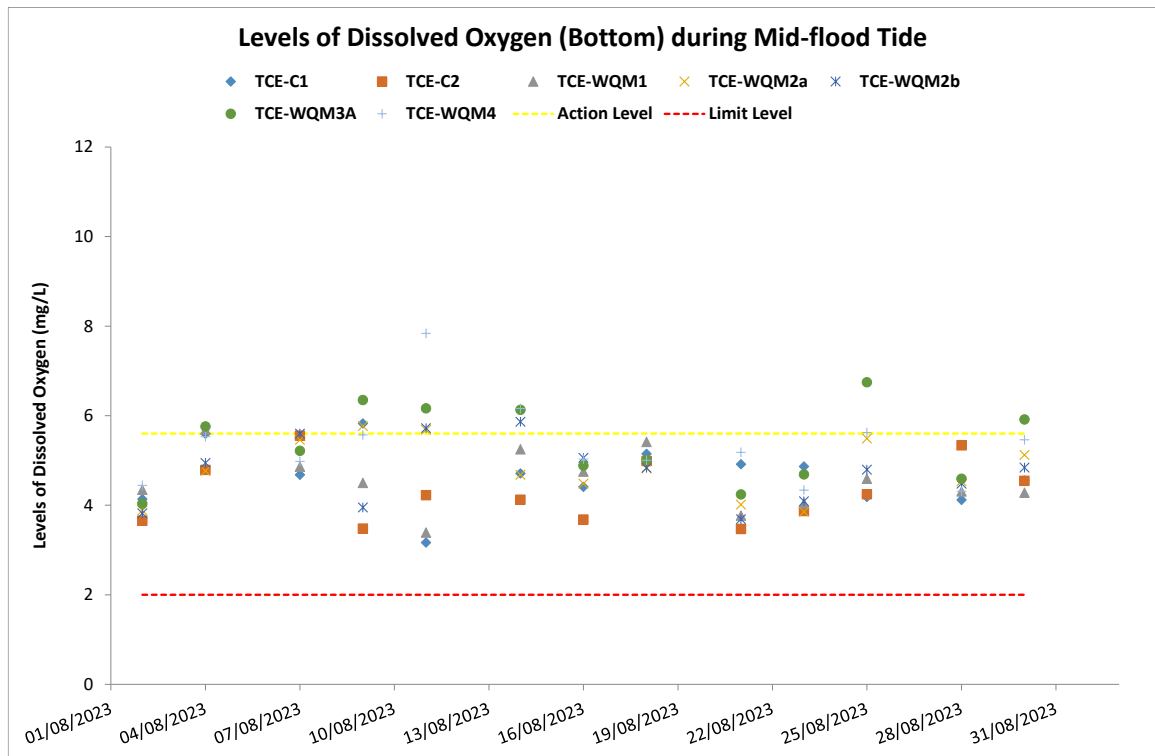


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 August 2023

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

**Environmental
 Resources
 Management**



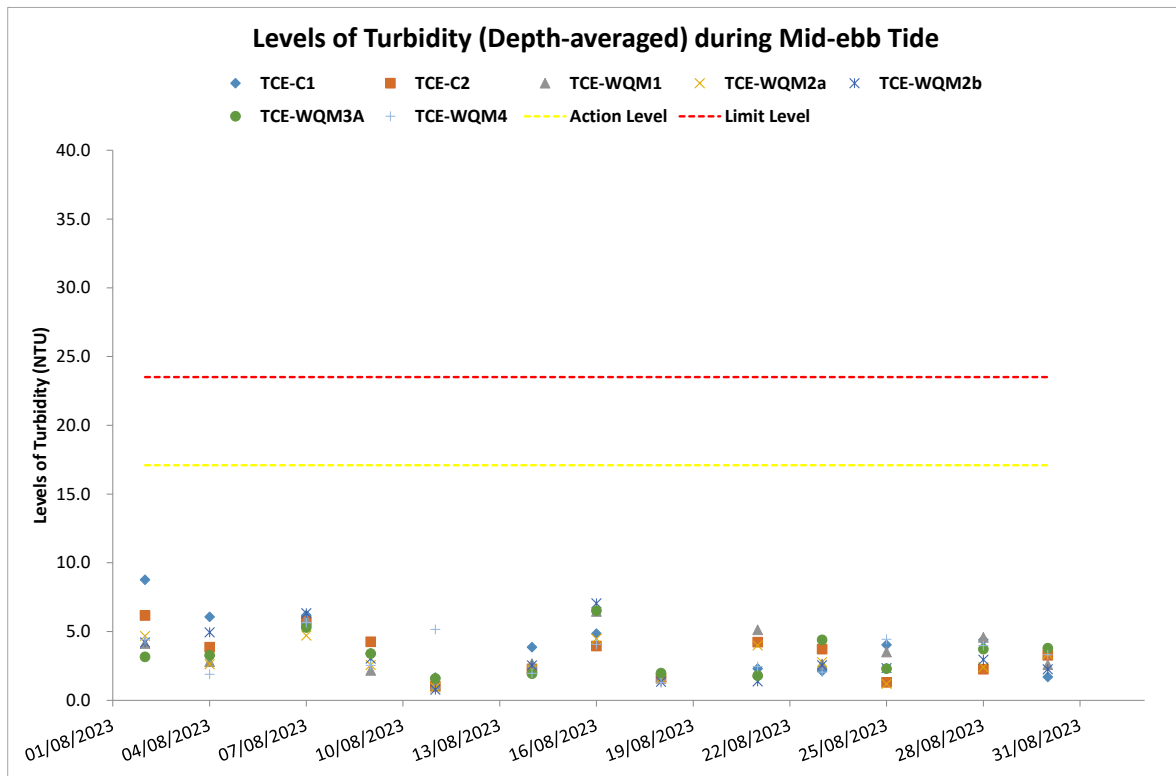


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 August 2023

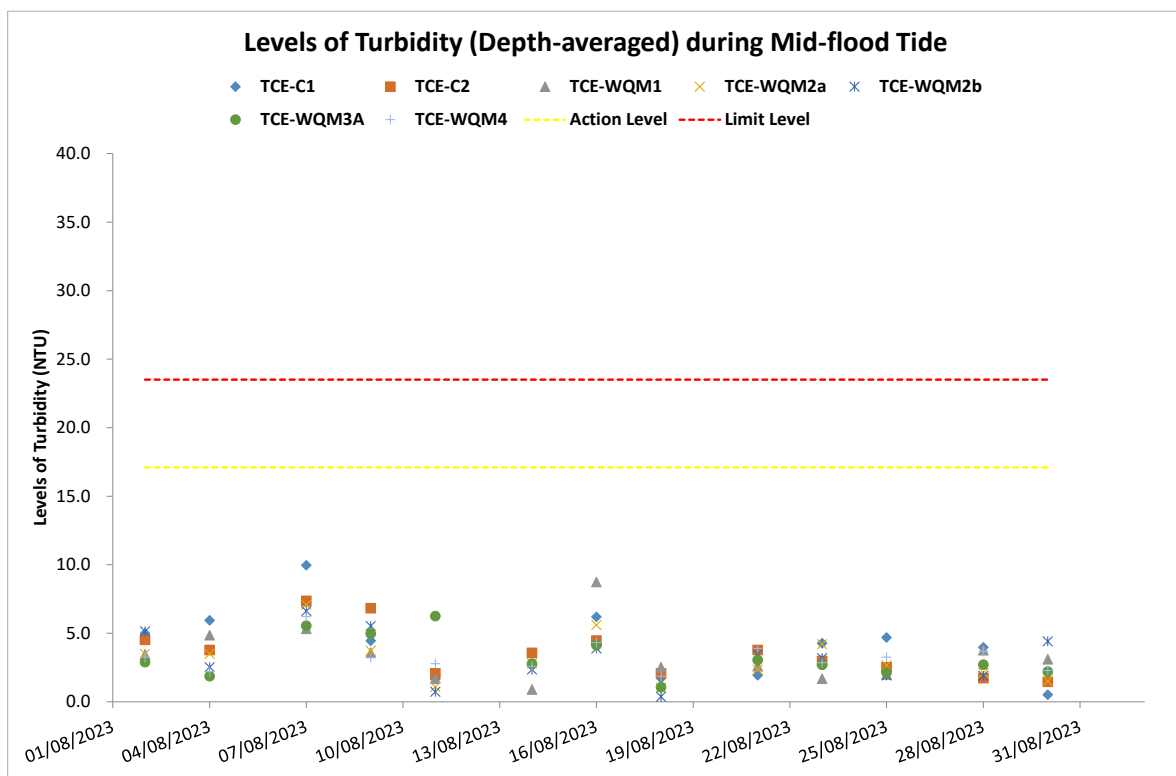
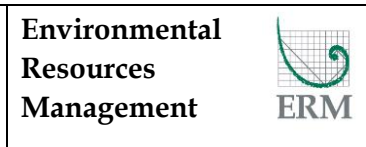


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 August 2023

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



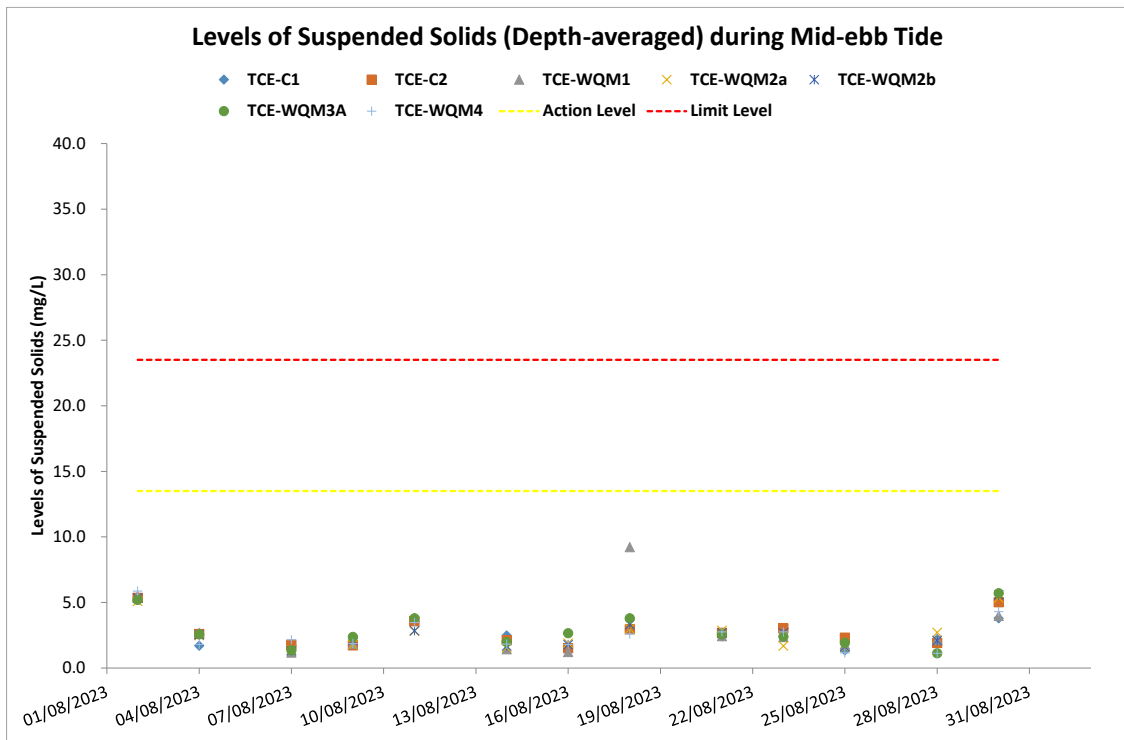


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 August 2023

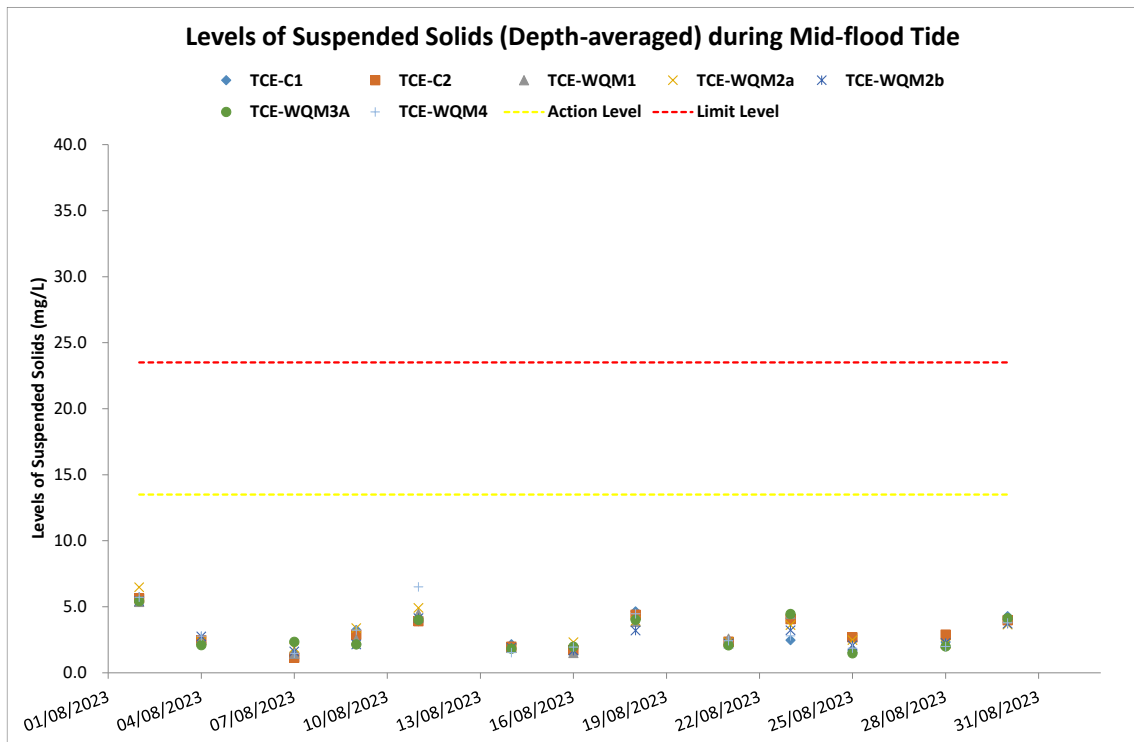


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 August 2023

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

**Environmental
 Resources
 Management**



| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 2023-08-02 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 11:48 | 7.8 | Surface | 1.0 | 1 | 29.6 | 7.9 | 27.7 | 4.4 | 66.6 | 6.3 | 5.6 | 4.3 | 8.8 | 5.2 |
| | | | | | | | | | 2 | 29.6 | 7.9 | 27.7 | 4.4 | 66.6 | 6.3 | 6.0 | | | |
| | | | | | | | Middle | 3.9 | 1 | 29.2 | 7.9 | 27.9 | 4.2 | 64.0 | 9.6 | 5.4 | | | |
| | | | | | | | Bottom | 6.8 | 1 | 29.2 | 7.9 | 27.9 | 4.2 | 64.1 | 9.6 | 5.1 | | | |
| | | | | 2 | 29.2 | 7.9 | 27.9 | 3.8 | 57.6 | 10.4 | 4.7 | | | | | | | | |
| | | | | 2 | 29.2 | 7.9 | 27.9 | 3.8 | 57.6 | 10.5 | 4.4 | | | | | | | | |
| | | TCE-C2 | Sunny | Calm | 13:52 | 13.8 | Surface | 1.0 | 1 | 28.9 | 7.9 | 28.5 | 4.3 | 64.7 | 4.8 | 5.0 | 4.2 | 6.2 | 5.4 |
| | | | | | | | | | 2 | 28.9 | 7.9 | 28.5 | 4.3 | 64.6 | 4.8 | 4.6 | | | |
| | | | | | | | Middle | 6.9 | 1 | 28.7 | 7.9 | 28.7 | 4.1 | 61.6 | 5.7 | 5.5 | | | |
| | | | | | | | Bottom | 12.8 | 1 | 28.7 | 7.9 | 28.7 | 4.1 | 61.5 | 5.7 | 5.2 | | | |
| | | | | 2 | 28.1 | 7.9 | 30.0 | 3.8 | 57.8 | 7.9 | 5.7 | | | | | | | | |
| | | | | 2 | 28.1 | 7.9 | 30.0 | 3.8 | 57.9 | 8.0 | 6.1 | | | | | | | | |
| | TCE-WQM1 | Sunny | Calm | 12:37 | 10.1 | Surface | 1.0 | 1 | 29.3 | 7.8 | 27.7 | 4.7 | 71.1 | 3.9 | 6.5 | 4.4 | 4.1 | 5.5 | |
| | | | | | | | | 2 | 29.4 | 7.8 | 27.7 | 4.7 | 71.1 | 3.9 | 6.0 | | | | |
| | | | | | | Middle | 5.1 | 1 | 29.2 | 7.9 | 27.8 | 4.2 | 64.1 | 3.4 | 5.6 | | | | |
| | | | | | | Bottom | 9.1 | 1 | 29.2 | 7.8 | 27.8 | 4.2 | 64.1 | 3.4 | 5.2 | | | | |
| | | | 2 | 29.2 | 7.8 | 28.0 | 4.0 | 60.2 | 5.0 | 4.7 | | | | | | | | | |
| | | | 2 | 29.2 | 7.8 | 28.0 | 4.0 | 60.2 | 5.0 | 5.0 | | | | | | | | | |
| | TCE-WQM2a | Sunny | Calm | 13:16 | 7.2 | Surface | 1.0 | 1 | 29.2 | 7.9 | 28.3 | 4.4 | 67.7 | 3.2 | 5.5 | 4.2 | 4.7 | 5.1 | |
| | | | | | | | | 2 | 29.2 | 7.9 | 28.3 | 4.4 | 67.7 | 3.2 | 5.8 | | | | |
| | | | | | | Middle | 3.6 | 1 | 28.7 | 7.9 | 28.8 | 3.9 | 59.7 | 4.1 | 5.0 | | | | |
| | | | | | | Bottom | 6.2 | 1 | 28.7 | 7.9 | 28.8 | 3.9 | 59.7 | 4.1 | 5.2 | | | | |
| | | | 2 | 28.0 | 7.9 | 30.2 | 3.7 | 56.4 | 6.8 | 4.6 | | | | | | | | | |
| | | | 2 | 28.0 | 7.9 | 30.2 | 3.7 | 56.4 | 6.8 | 4.4 | | | | | | | | | |
| TCE-WQM2b | Sunny | Calm | 13:32 | 9.9 | Surface | 1.0 | 1 | 29.6 | 7.9 | 27.9 | 4.5 | 69.6 | 3.4 | 4.8 | 4.4 | 4.2 | 5.4 | | |
| | | | | | | | 2 | 29.7 | 7.9 | 27.8 | 4.6 | 69.8 | 3.4 | 4.5 | | | | | |
| | | | | | Middle | 5.0 | 1 | 29.2 | 7.9 | 28.2 | 4.3 | 66.2 | 2.8 | 5.2 | | | | | |
| | | | | | Bottom | 8.9 | 1 | 29.2 | 7.9 | 28.2 | 4.3 | 66.2 | 2.8 | 5.6 | | | | | |
| | | 2 | 28.2 | 7.9 | 29.9 | 3.9 | 58.5 | 6.5 | 6.1 | | | | | | | | | | |
| | | 2 | 28.2 | 7.9 | 29.9 | 3.9 | 58.6 | 6.6 | 5.9 | | | | | | | | | | |
| TCE-WQM3A | Sunny | Calm | 13:04 | 5.1 | Surface | 1.0 | 1 | 29.0 | 7.9 | 28.4 | 5.0 | 75.1 | 2.1 | 5.5 | 5.0 | 3.2 | 5.2 | | |
| | | | | | | | 2 | 29.0 | 7.9 | 28.4 | 5.0 | 75.1 | 2.2 | 5.9 | | | | | |
| | | | | | Bottom | 4.1 | 1 | 28.8 | 7.9 | 28.8 | 4.3 | 65.4 | 4.1 | 4.6 | | | | | |
| | | | | | | | 2 | 28.8 | 7.9 | 28.8 | 4.3 | 65.4 | 4.2 | 4.8 | | | | | |
| | | 2 | 29.0 | 7.9 | 28.6 | 4.5 | 67.9 | 3.4 | 6.2 | | | | | | | | | | |
| | | 2 | 29.0 | 7.9 | 28.6 | 4.5 | 67.8 | 3.4 | 6.6 | | | | | | | | | | |
| TCE-WQM4 | Sunny | Calm | 12:50 | 4.4 | Surface | 1.0 | 1 | 29.0 | 7.9 | 28.6 | 4.5 | 67.9 | 3.4 | 6.2 | 4.5 | 4.4 | 5.9 | | |
| | | | | | | | 2 | 29.0 | 7.9 | 28.6 | 4.5 | 67.8 | 3.4 | 6.6 | | | | | |
| | | | | | Bottom | 3.4 | 1 | 28.7 | 7.8 | 29.1 | 4.1 | 61.8 | 5.4 | 5.1 | | | | | |
| | | | | | | | 2 | 28.7 | 7.8 | 29.1 | 4.1 | 62.0 | 5.4 | 5.6 | | | | | |
| | | 2 | 28.2 | 7.9 | 29.9 | 3.9 | 58.5 | 6.5 | 6.1 | | | | | | | | | | |
| | | 2 | 28.2 | 7.9 | 29.9 | 3.9 | 58.6 | 6.6 | 5.9 | | | | | | | | | | |
| 2023-08-02 | Mid-Flood | TCE-C1 | Fine | Moderate | 7:04 | 7.3 | Surface | 1.0 | 1 | 29.6 | 7.8 | 27.6 | 4.2 | 64.8 | 4.1 | 6.2 | 4.2 | 5.0 | 5.7 |
| | | | | | | | | | 2 | 29.6 | 7.8 | 27.5 | 4.2 | 64.8 | 4.1 | 6.5 | | | |
| | | | | | | | Middle | 3.7 | 1 | 29.3 | 7.8 | 27.7 | 4.2 | 63.6 | 4.9 | 6.0 | | | |
| | | | | | | | Bottom | 6.3 | 1 | 29.3 | 7.8 | 27.6 | 4.2 | 63.6 | 4.9 | 5.6 | | | |
| | | | | 2 | 29.2 | 7.8 | 28.1 | 4.1 | 63.0 | 5.9 | 4.8 | | | | | | | | |
| | | | | 2 | 29.2 | 7.8 | 28.1 | 4.1 | 63.1 | 6.0 | 5.2 | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 5:05 | 13.2 | Surface | 1.0 | 1 | 29.1 | 7.9 | 28.0 | 4.6 | 69.8 | 1.9 | 5.2 | 4.1 | 4.5 | 5.6 |
| | | | | | | | | | 2 | 29.1 | 7.9 | 28.0 | 4.6 | 69.8 | 1.9 | 5.4 | | | |
| | | | | | | | Middle | 6.6 | 1 | 27.6 | 7.8 | 31.0 | 3.7 | 55.7 | 4.8 | 5.7 | | | |
| | | | | | | | Bottom | 12.2 | 1 | 27.6 | 7.8 | 31.0 | 3.7 | 55.7 | 4.7 | 5.4 | | | |
| | | | | 2 | 27.2 | 7.9 | 31.8 | 3.7 | 55.0 | 7.0 | 6.2 | | | | | | | | |
| | | | | 2 | 27.2 | 7.9 | 31.8 | 3.7 | 55.1 | 6.9 | 5.9 | | | | | | | | |
| | TCE-WQM1 | Fine | Moderate | 6:13 | 9.2 | Surface | 1.0 | 1 | 29.9 | 7.9 | 27.1 | 5.0 | 77.0 | 1.7 | 6.2 | 4.7 | 3.5 | 5.4 | |
| | | | | | | | | 2 | 29.9 | 7.9 | 27.1 | 5.0 | 76.9 | 1.8 | 5.9 | | | | |
| | | | | | | Middle | 4.6 | 1 | 29.0 | 7.9 | 27.6 | 4.5 | 67.7 | 3.9 | 5.4 | | | | |
| | | | | | | Bottom | 8.2 | 1 | 29.0 | 7.9 | 27.6 | 4.5 | 67.8 | 3.9 | 5.0 | | | | |
| | | | 2 | 28.8 | 7.9 | 28.4 | 4.3 | 66.1 | 4.8 | 5.0 | | | | | | | | | |
| | | | 2 | 28.8 | 7.9 | 28.4 | 4.4 | 66.1 | 4.7 | 4.7 | | | | | | | | | |
| | TCE-WQM2a | Fine | Moderate | 5:38 | 6.4 | Surface | 1.0 | 1 | 29.1 | 7.9 | 28.3 | 4.3 | 65.2 | 2.9 | 7.3 | 4.2 | 3.5 | 6.5 | |
| | | | | | | | | 2 | 29.1 | 7.9 | 28.3 | 4.3 | 65.2 | 2.9 | 6.9 | | | | |
| | | | | | | Middle | 3.2 | 1 | 28.6 | 7.9 | 28.9 | 4.0 | 61.2 | 3.2 | 6.5 | | | | |
| | | | | | | Bottom | 5.4 | 1 | 28.6 | 7.9 | 28.9 | 4.0 | 61.2 | 3.2 | 6.2 | | | | |
| | | | 2 | 28.1 | 7.9 | 30.1 | 3.9 | 58.7 | 4.4 | 5.8 | | | | | | | | | |
| | | | 2 | 28.1 | 7.9 | 30.1 | 3.9 | 58.8 | 4.4 | 6.2 | | | | | | | | | |
| TCE-WQM2b | Fine | Moderate | 5:26 | 9.3 | Surface | 1.0 | 1 | 29.0 | 7.9 | 28.4 | 4.3 | 64.9 | 3.5 | 4.8 | 4.2 | 5.1 | 5.4 | | |
| | | | | | | | 2 | 29.0 | 7.9 | 28.4 | 4.3 | 64.9 | 3.5 | 5.1 | | | | | |
| | | | | | Middle | 4.7 | 1 | 28.8 | 7.9 | 28.8 | 4.1 | 62.8 | 4.5 | 5.7 | | | | | |
| | | | | | Bottom | 8.3 | 1 | 28.8 | 7.9 | 28.8 | 4.1 | 62.8 | 4.5 | 5.4 | | | | | |
| | | 2 | 28.0 | 7.9 | 30.2 | 3.8 | 57.7 | 7.5 | 5.6 | | | | | | | | | | |
| | | 2 | 28.0 | 7.9 | 30.2 | 3.8 | 57.8 | 7.5 | 6.0 | | | | | | | | | | |
| TCE-WQM3A | Fine | Calm | 5:49 | 4.1 | Surface | 1.0 | 1 | 29.4 | 7.9 | 28.1 | 4.5 | 69.3 | 2.8 | 5.8 | 4.5 | 2.9 | 5.4 | | |
| | | | | | | | 2 | 29.4 | 7.9 | 28.1 | 4.5 | 69.3 | 2.8 | 5.5 | | | | | |
| | | | | | Bottom | 3.1 | 1 | 28.6 | 7.9 | 29.0 | 4.0 | 61.1 | 3.0 | 5.1 | | | | | |
| | | | | | | | 2 | 28.6 | 7.9 | 29.0 | 4.0 | 61.2 | 3.0 | 5.3 | | | | | |
| TCE-WQM4 | Fine | Calm | 6:01 | 3.9 | Surface | 1.0 | 1 | 29.8 | 7.9 | 27.2 | 5.0 | 77.1 | 2.2 | 5.2 | 5.0 | 3.2 | 5.7 | | |
| | | | | | | | 2 | 29.7 | 7.9 | 27.2 | 5.0 | 77.0 | 2.2 | 5.6 | | | | | |
| | | | | | Bottom | 2.9 | 1 | 29.1 | 7.8 | 27.7 | 4.4 | 67.4 | 4.3 | 5.9 | | | | | |
| | | | | | | | 2 | 29.1 | 7.8 | 27.7 | 4.4 | 67.5 | 4.3 | 6.2 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | |
| 2023-08-04 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 13:37 | 9.6 | Surface | 1.0 | 1 | 24.0 | 8.0 | 29.6 | 5.9 | 82.4 | 4.7 | 2.1 | 5.8 | 6.1 | 1.7 | | | | |
| | | | | | | | | | 2 | 24.0 | 8.0 | 29.6 | 5.9 | 82.5 | 4.7 | 2.3 | | | | | | | |
| | | | | | | | Middle | 4.8 | 1 | 23.9 | 8.0 | 29.6 | 5.7 | 79.6 | 6.5 | 1.6 | | | | | | | |
| | | | | | | | | | 2 | 23.9 | 8.1 | 29.6 | 5.7 | 79.6 | 6.4 | 1.8 | | | | | | | |
| | | | | Bottom | 8.6 | 1 | 23.9 | 8.1 | 29.6 | 5.4 | 76.1 | 7.1 | 1.1 | 5.4 | | | | | | | | | |
| | | | | | | 2 | 23.9 | 8.0 | 29.6 | 5.4 | 76.0 | 7.1 | 1.3 | | | | | | | | | | |
| | | TCE-C2 | Sunny | Moderate | 15:00 | 11.8 | Surface | 1.0 | 1 | 24.0 | 8.0 | 29.2 | 5.8 | | | | 81.6 | 2.2 | 2.2 | 5.3 | 3.9 | 2.6 | |
| | | | | | | 2 | 24.0 | 8.0 | 29.2 | 5.8 | 81.2 | 2.2 | 2.1 | | | | | | | | | | |
| | | Middle | 5.9 | 1 | 22.8 | 8.0 | 31.2 | 4.7 | 65.5 | 4.2 | 2.7 | | | | | | | | | | | | |
| | | | | 2 | 22.8 | 8.0 | 31.3 | 4.7 | 65.6 | 4.2 | 2.4 | | | | | | | | | | | | |
| | | | | Bottom | 10.8 | 1 | 21.8 | 8.0 | 33.3 | 4.5 | 61.5 | 5.1 | 3.2 | 4.5 | | | | | | | | | |
| | | | | | | 2 | 21.7 | 8.0 | 33.3 | 4.5 | 61.5 | 5.2 | 3.0 | | | | | | | | | | |
| | TCE-WQM1 | Sunny | Moderate | 13:55 | 7.0 | Surface | 1.0 | 1 | 24.0 | 8.0 | 29.4 | 5.4 | 76.0 | | | | 1.9 | 3.0 | 5.4 | 2.8 | 2.7 | | |
| | | | | | 2 | 24.0 | 8.0 | 29.4 | 5.4 | 76.0 | 1.9 | 3.4 | | | | | | | | | | | |
| | Middle | 3.5 | 1 | 24.0 | 8.0 | 29.4 | 5.4 | 76.2 | 2.8 | 2.7 | | | | | | | | | | | | | |
| | | | 2 | 24.0 | 8.0 | 29.4 | 5.4 | 76.2 | 2.9 | 2.5 | | | | | | | | | | | | | |
| | | | Bottom | 6.0 | 1 | 23.9 | 8.0 | 29.5 | 5.4 | 76.0 | 3.7 | 2.1 | 5.4 | | | | | | | | | | |
| | | | | | 2 | 23.9 | 8.0 | 29.5 | 5.4 | 76.1 | 3.8 | 2.3 | | | | | | | | | | | |
| | TCE-WQM2a | Sunny | Moderate | 14:24 | 7.2 | Surface | 1.0 | 1 | 23.7 | 7.9 | 29.2 | 5.4 | | | | 74.9 | 2.0 | 2.2 | 5.3 | 2.6 | 2.5 | | |
| | | | | | 2 | 23.7 | 7.9 | 29.2 | 5.4 | 74.9 | 2.0 | 2.0 | | | | | | | | | | | |
| | Middle | 3.6 | 1 | 23.4 | 7.9 | 29.8 | 5.2 | 72.5 | 2.5 | 2.6 | | | | | | | | | | | | | |
| | | | 2 | 23.4 | 7.9 | 29.7 | 5.2 | 72.6 | 2.5 | 2.4 | | | | | | | | | | | | | |
| | | | Bottom | 6.2 | 1 | 23.3 | 7.9 | 29.9 | 5.1 | 70.8 | 3.4 | 3.0 | 5.1 | | | | | | | | | | |
| | | | | | 2 | 23.3 | 7.9 | 29.9 | 5.1 | 70.7 | 3.4 | 2.7 | | | | | | | | | | | |
| | TCE-WQM2b | Sunny | Moderate | 14:39 | 10.0 | Surface | 1.0 | 1 | 23.4 | 8.0 | 30.0 | 4.9 | | | | 68.3 | 4.8 | 3.5 | 4.9 | 4.9 | 2.5 | | |
| | | | | | 2 | 23.4 | 8.0 | 30.0 | 4.9 | 68.3 | 4.8 | 3.0 | | | | | | | | | | | |
| | Middle | 5.0 | 1 | 23.2 | 8.0 | 30.3 | 4.9 | 67.6 | 5.4 | 2.7 | | | | | | | | | | | | | |
| | | | 2 | 23.2 | 8.0 | 30.3 | 4.9 | 67.6 | 5.3 | 2.5 | | | | | | | | | | | | | |
| | | | Bottom | 9.0 | 1 | 22.9 | 8.0 | 31.0 | 4.8 | 67.1 | 4.7 | 1.9 | 4.8 | | | | | | | | | | |
| | | | | | 2 | 22.9 | 8.0 | 30.9 | 4.8 | 67.2 | 4.7 | 1.6 | | | | | | | | | | | |
| | TCE-WQM3A | Sunny | Moderate | 14:16 | 4.6 | Surface | 1.0 | 1 | 23.9 | 8.0 | 28.2 | 5.8 | | | | 81.1 | 2.5 | 2.1 | 5.8 | 3.3 | 2.6 | | |
| | | | | | 2 | 23.9 | 8.0 | 28.2 | 5.8 | 81.1 | 2.5 | 2.4 | | | | | | | | | | | |
| | Bottom | 3.6 | 1 | 23.8 | 8.0 | 28.5 | 5.5 | 76.9 | 4.0 | 2.6 | | | | | | | | | | | | | |
| | | | 2 | 23.8 | 8.0 | 28.5 | 5.5 | 76.8 | 4.1 | 3.2 | | | | | | | | | | | | | |
| | | | TCE-WQM4 | Sunny | Moderate | 14:07 | 5.2 | Surface | 1.0 | 1 | 24.0 | 8.0 | 29.4 | 5.4 | 75.9 | 1.5 | 2.5 | 5.4 | 1.9 | 1.8 | | | |
| | | | | | 2 | 24.0 | 8.0 | 29.4 | 5.4 | 76.0 | 1.6 | 2.1 | | | | | | | | | | | |
| | Bottom | 4.2 | 1 | 23.9 | 8.0 | 29.4 | 5.2 | 73.5 | 2.3 | 1.2 | | | | | | | | | | | | | |
| | | | 2 | 23.9 | 8.0 | 29.4 | 5.2 | 73.6 | 2.3 | 1.4 | | | | | | | | | | | | | |
| | 2023-08-04 | Mid-Flood | TCE-C1 | Fine | Moderate | 9:00 | 9.2 | Surface | 1.0 | 1 | 24.0 | 8.0 | 29.6 | 5.9 | 82.3 | 4.5 | 1.9 | 5.7 | 6.0 | 2.3 | | | |
| | | | | | | | | | | 2 | 24.0 | 8.1 | 29.6 | 5.8 | 82.3 | 4.5 | 1.7 | | | | | | |
| | | | | | | | | Middle | 4.6 | 1 | 23.9 | 8.1 | 29.6 | 5.6 | 79.1 | 5.6 | 2.3 | | | | | | |
| | | | | | | | | | | 2 | 23.9 | 8.0 | 29.6 | 5.6 | 79.1 | 5.6 | 2.1 | | | | | | |
| | | | | | Bottom | 8.2 | 1 | 23.9 | 8.0 | 29.6 | 5.6 | 78.5 | 7.8 | 2.7 | 5.6 | | | | | | | | |
| | | | | | | | 2 | 23.9 | 7.9 | 29.6 | 5.6 | 78.6 | 7.8 | 3.1 | | | | | | | | | |
| | | | TCE-C2 | Fine | Moderate | 7:26 | 13.0 | Surface | 1.0 | 1 | 23.2 | 8.0 | 28.9 | 5.2 | | | | 72.5 | 2.5 | 2.9 | 5.1 | 3.8 | 2.5 |
| | | | | | | | 2 | 23.2 | 8.0 | 28.9 | 5.2 | 72.5 | 2.4 | 2.7 | | | | | | | | | |
| | | | Middle | 6.5 | 1 | 22.7 | 8.0 | 29.2 | 5.0 | 68.6 | 3.9 | 2.4 | | | | | | | | | | | |
| | | | | | 2 | 22.7 | 8.1 | 29.2 | 5.0 | 68.6 | 3.9 | 2.6 | | | | | | | | | | | |
| | | | | Bottom | 12.0 | 1 | 22.3 | 8.1 | 29.1 | 4.8 | 65.2 | 4.9 | 2.0 | 4.8 | | | | | | | | | |
| | | | | | | 2 | 22.3 | 8.1 | 29.1 | 4.8 | 65.2 | 5.1 | 2.2 | | | | | | | | | | |
| TCE-WQM1 | | | Fine | Moderate | 8:45 | 9.0 | Surface | 1.0 | 1 | 24.0 | 7.9 | 29.6 | 5.8 | | | | 81.7 | 3.0 | 2.6 | 5.8 | 4.9 | 2.5 | |
| | | | | | | 2 | 24.0 | 8.1 | 29.6 | 5.8 | 81.7 | 3.1 | 2.9 | | | | | | | | | | |
| Middle | | | 4.5 | 1 | 23.9 | 8.1 | 29.6 | 5.8 | 81.7 | 5.0 | 2.6 | | | | | | | | | | | | |
| | | | | 2 | 24.0 | 8.0 | 29.6 | 5.8 | 81.7 | 5.0 | 2.8 | | | | | | | | | | | | |
| | | | | Bottom | 8.0 | 1 | 23.9 | 8.0 | 29.6 | 5.7 | 79.9 | 6.6 | 2.2 | 5.7 | | | | | | | | | |
| | | | | | | 2 | 23.9 | 8.0 | 29.6 | 5.7 | 79.9 | 6.5 | 2.1 | | | | | | | | | | |
| TCE-WQM2a | | | Fine | Moderate | 8:08 | 8.0 | Surface | 1.0 | 1 | 23.9 | 8.1 | 27.6 | 5.5 | | | | 76.0 | 2.0 | 2.7 | 5.2 | 3.5 | 2.4 | |
| | | | | | | 2 | 23.9 | 8.1 | 27.6 | 5.5 | 76.0 | 2.0 | 3.0 | | | | | | | | | | |
| Middle | | | 4.0 | 1 | 23.6 | 8.1 | 27.8 | 5.0 | 68.3 | 3.7 | 2.6 | | | | | | | | | | | | |
| | | | | 2 | 23.6 | 8.0 | 27.8 | 5.0 | 68.4 | 3.7 | 2.2 | | | | | | | | | | | | |
| | | | | Bottom | 7.0 | 1 | 23.0 | 8.0 | 28.2 | 4.8 | 65.4 | 4.7 | 1.9 | 4.8 | | | | | | | | | |
| | | | | | | 2 | 23.0 | 7.9 | 28.2 | 4.8 | 65.2 | 4.8 | 1.8 | | | | | | | | | | |
| TCE-WQM2b | | Fine | Moderate | 7:56 | 11.8 | Surface | 1.0 | 1 | 23.7 | 7.9 | 27.5 | 5.6 | 77.2 | | | | 1.1 | 2.9 | 5.5 | 2.5 | 2.8 | | |
| | | | | | 2 | 23.7 | 8.0 | 27.5 | 5.6 | 77.2 | 1.1 | 3.2 | | | | | | | | | | | |
| Middle | | 5.9 | 1 | 23.5 | 8.2 | 27.1 | 5.5 | 75.0 | 1.6 | 3.4 | | | | | | | | | | | | | |
| | | | 2 | 23.5 | 8.0 | 27.1 | 5.5 | 74.9 | 1.5 | 2.7 | | | | | | | | | | | | | |
| | | | Bottom | 10.8 | 1 | 22.8 | 8.0 | 26.8 | 4.9 | 66.9 | 5.0 | 2.1 | 4.9 | | | | | | | | | | |
| | | | | | 2 | 22.8 | 8.0 | 26.6 | 5.0 | 67.0 | 4.9 | 2.2 | | | | | | | | | | | |
| TCE-WQM3A | | Fine | Moderate | 8:19 | 4.4 | Surface | 1.0 | 1 | 24.0 | 7.9 | 27.0 | 5.9 | | | | 81.6 | 1.5 | 1.5 | 5.9 | 1.9 | 2.1 | | |
| | | | | | 2 | 24.0 | 8.1 | 27.0 | 5.9 | 81.7 | 1.5 | 1.8 | | | | | | | | | | | |
| Bottom | | 3.4 | 1 | 23.8 | 8.1 | 26.2 | 5.8 | 79.1 | 2.2 | 2.3 | | | | | | | | | | | | | |
| | | | 2 | 23.8 | 8.1 | 26.1 | 5.8 | 79.4 | 2.2 | 2.8 | | | | | | | | | | | | | |
| | | | TCE-WQM4 | Fine | Moderate | 8:28 | 4.4 | Surface | 1.0 | 1 | 24.0 | 8.0 | 29.4 | 5.5 | 77.7 | 1.8 | 3.3 | 5.5 | 2.2 | 2.8 | | | |
| | | | | | 2 | 24.0 | 8.0 | 29.3 | 5.5 | 77.7 | 1.8 | 2.9 | | | | | | | | | | | |
| Bottom | | 3.4 | 1 | 24.0 | 8.0 | 29.3 | 5.5 | 77.7 | 2.6 | 2.6 | | | | | | | | | | | | | |
| | | | 2 | 24.0 | 7.9 | 29.3 | 5.5 | 77.7 | 2.7 | 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) | | | | | | | | | | |
| 2023-08-07 | Mid-Ebb | TCE-C1 | Fine | Moderate | 6:25 | 8.4 | Surface | 1.0 | 1 | 27.8 | 7.9 | 26.1 | 5.2 | 77.0 | 5.3 | 1.3 | 5.2 | 6.2 | 1.7 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 27.5 | 7.9 | 26.2 | 5.1 | 75.8 | 6.1 | 2.0 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.4 | 1 | 27.4 | 7.9 | 26.6 | 5.1 | 75.2 | 7.1 | 2.1 | | | | 5.1 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 4:20 | 13.9 | Surface | 1.0 | 1 | 27.8 | 7.9 | 26.5 | 5.5 | 82.0 | 3.1 | 3.0 | 5.0 | 5.7 | 1.8 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 7.0 | 1 | 26.3 | 7.9 | 29.5 | 4.6 | 67.9 | 6.0 | 1.5 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 12.9 | 1 | 25.9 | 7.9 | 30.3 | 4.6 | 67.2 | 8.2 | 1.2 | | | | 4.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM1 | Fine | Moderate | 5:34 | 8.4 | Surface | 1.0 | 1 | 28.1 | 8.0 | 25.6 | 6.0 | 89.2 | 4.1 | 0.8 | 5.7 | 5.9 | 1.2 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 27.2 | 7.9 | 26.1 | 5.4 | 79.9 | 6.3 | 1.3 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.4 | 1 | 27.0 | 8.0 | 26.9 | 5.3 | 78.3 | 7.2 | 1.2 | | | | 5.3 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 4:56 | 7.2 | Surface | 1.0 | 1 | 27.8 | 7.9 | 26.8 | 5.2 | 77.4 | 4.1 | 1.0 | 5.1 | 4.7 | 1.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 27.3 | 7.9 | 27.4 | 4.9 | 73.4 | 4.4 | 1.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 26.8 | 7.9 | 28.6 | 4.8 | 70.9 | 5.6 | 1.4 | | | | 4.8 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM2b | Fine | Moderate | 4:44 | 11.2 | Surface | 1.0 | 1 | 27.7 | 7.9 | 26.9 | 5.2 | 77.1 | 4.7 | 1.2 | 5.1 | 6.3 | 1.3 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 5.6 | 1 | 27.5 | 7.9 | 27.3 | 5.0 | 75.0 | 5.7 | 1.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 10.2 | 1 | 26.7 | 7.9 | 28.7 | 4.7 | 69.9 | 8.7 | 1.6 | | | | 4.7 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM3A | Fine | Moderate | 5:06 | 4.5 | Surface | 1.0 | 1 | 27.6 | 7.9 | 26.6 | 5.5 | 81.5 | 5.2 | 1.2 | 5.5 | 5.3 | 1.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 3.5 | 1 | 26.8 | 7.9 | 27.5 | 5.0 | 73.3 | 5.4 | 1.0 | | | | 5.0 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | TCE-WQM4 | Fine | Moderate | 5:19 | 3.4 | Surface | 1.0 | 1 | 28.0 | 7.9 | | | | 25.7 | 6.0 | 89.3 | 4.6 | 1.8 | 6.0 | 5.6 | 2.2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Bottom | 2.4 | 1 | 27.3 | 7.9 | | | | | | 26.2 | 5.4 | 79.6 | 6.7 | 2.7 | 5.4 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2023-08-07 | Mid-Flood | TCE-C1 | Fine | Moderate | | | | | | 10:11 | 8.5 | Surface | 1.0 | 1 | 28.2 | 7.9 | 26.2 | 5.3 | 78.8 | 7.5 | 2.0 | 5.2 | | | | 10.0 | 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 4.3 | 1 | 27.8 | 7.9 | | | 26.4 | 5.1 | 76.2 | 10.8 | 1.7 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.5 | 1 | 27.8 | 7.9 | | | 26.4 | 4.7 | 69.8 | 11.6 | 1.5 | 4.7 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-C2 | Fine | Moderate | 12:15 | 14.2 | Surface | 1.0 | 1 | 27.5 | 8.0 | 27.0 | 6.0 | 89.1 | 6.0 | 0.7 | 5.9 | 7.4 | 1.2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | Middle | 7.1 | 1 | 27.3 | 7.9 | 27.2 | 5.8 | 86.0 | 6.9 | 1.2 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bottom | 13.2 | | | | | | | | 1 | 26.7 | 7.9 | 28.5 | 5.6 | 82.2 | 9.1 | 1.5 | 5.6 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCE-WQM1 | Fine | | | Moderate | 11:02 | 10.3 | Surface | 1.0 | 1 | 27.9 | 7.9 | 26.2 | 5.6 | 83.3 | 5.1 | 1.4 | 5.4 | 5.3 | 1.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 5.2 | 1 | 27.8 | 7.9 | 26.3 | 5.1 | 76.3 | 4.6 | 1.6 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 9.3 | 1 | 27.8 | 7.9 | 26.5 | 4.9 | 72.4 | 6.2 | 1.1 | | | | 4.9 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCE-WQM2a | Fine | | | Moderate | 11:32 | 7.5 | Surface | 1.0 | 1 | 27.8 | 7.9 | 26.8 | 6.2 | 92.1 | 5.6 | 1.8 | 5.9 | 7.1 | 1.9 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 27.3 | 7.9 | 27.3 | 5.7 | 84.1 | 6.5 | 2.0 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 26.6 | 7.9 | 28.7 | 5.5 | 80.8 | 9.2 | 2.9 | | | | 5.5 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCE-WQM2b | Fine | | | Moderate | 11:41 | 10.8 | Surface | 1.0 | 1 | 28.2 | 7.9 | 26.4 | 6.3 | 94.0 | 5.8 | 1.3 | 6.2 | 6.6 | 1.6 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 5.4 | 1 | 27.8 | 7.9 | 26.7 | 6.1 | 90.6 | 5.2 | 1.8 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 9.8 | 1 | 26.8 | 7.9 | 28.4 | 5.6 | 82.9 | 8.9 | 1.6 | | | | 5.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCE-WQM3A | Fine | | | Moderate | 11:21 | 4.4 | Surface | 1.0 | 1 | 27.6 | 7.9 | 26.9 | 5.9 | 87.3 | 4.5 | 1.9 | 5.9 | 5.6 | 2.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 3.4 | 1 | 27.4 | 7.9 | 27.3 | 5.2 | 77.6 | 6.5 | 2.8 | | | | 5.2 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | TCE-WQM4 | Fine | Moderate | 11:13 | 3.5 | Surface | 1.0 | 1 | 27.6 | 7.9 | | | | 27.1 | 5.4 | 80.1 | 5.8 | 2.0 | 5.4 | 6.2 | 1.5 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bottom | 2.5 | | | 1 | 27.3 | 7.9 | | | | | | 27.6 | 5.0 | 74.0 | 6.6 | 1.3 | 5.0 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 2023-08-09 | Mid-Ebb | TCE-C1 | Fine | Moderate | 8:15 | 7.3 | Surface | 1.0 | 1 | 30.1 | 8.0 | 25.2 | 6.7 | 101.6 | 2.5 | 1.9 | 6.5 | 3.4 | 2.3 |
| | | | | | | | | | 2 | 30.1 | 8.0 | 25.2 | 6.7 | 101.6 | 2.5 | 1.6 | | | |
| | | | | | | | Middle | 3.7 | 1 | 30.0 | 8.0 | 25.5 | 6.3 | 96.1 | 3.3 | 2.3 | | | |
| | | | | | | | Bottom | 6.3 | 1 | 30.0 | 8.0 | 25.5 | 6.3 | 96.1 | 3.3 | 2.1 | | | |
| | | | | 2 | 30.0 | 7.9 | 25.6 | 6.0 | 91.3 | 4.4 | 3.0 | | | | | | | | |
| | | | | 2 | 30.0 | 7.9 | 25.6 | 6.0 | 91.3 | 4.5 | 2.6 | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 6:12 | 13.2 | Surface | 1.0 | 1 | 29.9 | 8.0 | 24.9 | 6.6 | 99.2 | 2.2 | 1.4 | 5.8 | 4.3 | 1.7 |
| | | | | 2 | 29.9 | 8.0 | 24.9 | 6.6 | 99.2 | 2.2 | 1.1 | | | | | | | | |
| | | Middle | 6.6 | 1 | 28.9 | 7.9 | 28.0 | 5.0 | 76.0 | 4.3 | 1.8 | | | | | | | | |
| | | Bottom | 12.2 | 1 | 28.9 | 7.9 | 28.0 | 5.0 | 75.9 | 4.3 | 1.6 | | | | | | | | |
| | | | | 2 | 27.9 | 7.8 | 30.3 | 4.4 | 66.8 | 6.2 | 2.1 | | | | | | | | |
| | | | | 2 | 27.9 | 7.8 | 30.3 | 4.4 | 66.8 | 6.3 | 2.4 | | | | | | | | |
| | TCE-WQM1 | Fine | Calm | 7:26 | 8.9 | Surface | 1.0 | 1 | 30.1 | 8.0 | 23.5 | 6.9 | 103.5 | 1.5 | 2.2 | 6.3 | 2.2 | 1.8 | |
| | | | 2 | 30.1 | 8.0 | 23.5 | 6.9 | 103.5 | 1.6 | 2.4 | | | | | | | | | |
| | Middle | 4.5 | 1 | 29.9 | 7.9 | 25.8 | 5.7 | 87.3 | 2.3 | 1.7 | | | | | | | | | |
| | Bottom | 7.9 | 1 | 29.9 | 7.9 | 25.8 | 5.7 | 87.3 | 2.3 | 1.9 | | | | | | | | | |
| | | | 2 | 29.3 | 7.8 | 27.4 | 4.4 | 66.7 | 2.7 | 1.5 | | | | | | | | | |
| | | | 2 | 29.3 | 7.8 | 27.4 | 4.4 | 66.7 | 2.7 | 1.3 | | | | | | | | | |
| | TCE-WQM2a | Fine | Calm | 6:50 | 6.6 | Surface | 1.0 | 1 | 29.7 | 8.0 | 24.6 | 6.3 | 94.8 | 1.7 | 2.3 | 5.6 | 2.6 | 1.8 | |
| | | | 2 | 29.7 | 8.0 | 24.6 | 6.3 | 94.8 | 1.7 | 2.2 | | | | | | | | | |
| | Middle | 3.3 | 1 | 29.5 | 7.9 | 26.6 | 5.0 | 75.3 | 2.8 | 1.8 | | | | | | | | | |
| | Bottom | 5.6 | 1 | 29.5 | 7.9 | 26.6 | 5.0 | 75.3 | 2.8 | 1.7 | | | | | | | | | |
| | | | 2 | 28.8 | 7.8 | 28.3 | 4.4 | 66.8 | 3.2 | 1.2 | | | | | | | | | |
| | | | 2 | 28.8 | 7.8 | 28.3 | 4.4 | 66.8 | 3.2 | 1.5 | | | | | | | | | |
| TCE-WQM2b | Fine | Moderate | 6:37 | 9.1 | Surface | 1.0 | 1 | 29.8 | 7.9 | 24.9 | 6.6 | 100.1 | 1.4 | 2.4 | 6.4 | 3.0 | 2.1 | | |
| | | 2 | 29.8 | 7.9 | 24.9 | 6.6 | 100.2 | 1.4 | 2.6 | | | | | | | | | | |
| Middle | 4.6 | 1 | 29.5 | 7.9 | 26.0 | 6.1 | 92.4 | 3.2 | 2.1 | | | | | | | | | | |
| Bottom | 8.1 | 1 | 29.5 | 7.9 | 26.0 | 6.1 | 92.4 | 3.2 | 2.1 | | | | | | | | | | |
| | | 2 | 29.1 | 7.9 | 27.2 | 5.5 | 83.4 | 4.4 | 1.6 | | | | | | | | | | |
| | | 2 | 29.1 | 7.9 | 27.2 | 5.5 | 83.4 | 4.5 | 1.9 | | | | | | | | | | |
| TCE-WQM3A | Fine | Calm | 7:02 | 4.4 | Surface | 1.0 | 1 | 29.8 | 8.0 | 24.4 | 6.7 | 100.4 | 3.4 | 1.9 | 6.7 | 3.4 | 2.4 | | |
| | | 2 | 29.8 | 8.0 | 24.4 | 6.7 | 100.4 | 3.4 | 1.6 | | | | | | | | | | |
| Bottom | 3.4 | 1 | 29.7 | 7.9 | 25.7 | 5.6 | 85.3 | 3.4 | 3.2 | | | | | | | | | | |
| | | 2 | 29.7 | 7.9 | 25.7 | 5.6 | 85.3 | 3.5 | 2.8 | | | | | | | | | | |
| TCE-WQM4 | Fine | Calm | 7:13 | 3.9 | Surface | 1.0 | 1 | 29.9 | 7.9 | 25.8 | 5.8 | 87.6 | 2.2 | 1.4 | 5.8 | 2.5 | 1.9 | | |
| | | 2 | 29.9 | 7.9 | 25.8 | 5.8 | 87.6 | 2.3 | 1.7 | | | | | | | | | | |
| Bottom | 2.9 | 1 | 29.6 | 7.8 | 26.6 | 5.0 | 76.6 | 2.8 | 2.3 | | | | | | | | | | |
| | | 2 | 29.6 | 7.8 | 26.6 | 5.0 | 76.6 | 2.9 | 2.1 | | | | | | | | | | |
| | | 2 | 29.6 | 7.8 | 26.6 | 5.0 | 76.6 | 2.9 | 2.1 | | | | | | | | | | |
| 2023-08-09 | Mid-Flood | TCE-C1 | Sunny | Moderate | 12:06 | 7.7 | Surface | 1.0 | 1 | 30.1 | 8.0 | 25.2 | 6.5 | 99.4 | 2.1 | 2.4 | 6.4 | 4.4 | 3.3 |
| | | | | | | | | | 2 | 30.1 | 8.0 | 25.2 | 6.5 | 99.4 | 2.2 | 2.6 | | | |
| | | | | | | | Middle | 3.9 | 1 | 30.0 | 7.9 | 25.4 | 6.3 | 95.5 | 3.6 | 3.0 | | | |
| | | | | | | | Bottom | 6.7 | 1 | 30.0 | 7.9 | 25.4 | 6.3 | 95.5 | 3.6 | 3.4 | | | |
| | | | | 2 | 29.9 | 7.9 | 25.9 | 5.8 | 88.7 | 7.6 | 4.3 | | | | | | | | |
| | | | | 2 | 29.9 | 7.9 | 25.9 | 5.8 | 88.7 | 7.6 | 3.8 | | | | | | | | |
| | | TCE-C2 | Sunny | Calm | 14:17 | 13.8 | Surface | 1.0 | 1 | 29.9 | 8.1 | 25.3 | 7.3 | 111.2 | 4.5 | 2.4 | 5.8 | 6.8 | 2.9 |
| | | | | 2 | 29.9 | 8.1 | 25.3 | 7.3 | 111.2 | 4.5 | 2.2 | | | | | | | | |
| | | Middle | 6.9 | 1 | 27.7 | 7.9 | 30.4 | 4.2 | 63.3 | 6.8 | 2.6 | | | | | | | | |
| | | Bottom | 12.8 | 1 | 27.7 | 7.9 | 30.4 | 4.2 | 63.2 | 6.8 | 2.8 | | | | | | | | |
| | | | | 2 | 26.1 | 7.9 | 33.4 | 3.5 | 51.8 | 9.2 | 3.4 | | | | | | | | |
| | | | | 2 | 26.1 | 7.9 | 33.4 | 3.5 | 51.8 | 9.1 | 3.9 | | | | | | | | |
| | TCE-WQM1 | Sunny | Calm | 12:53 | 9.2 | Surface | 1.0 | 1 | 30.5 | 7.9 | 25.4 | 6.0 | 92.2 | 2.8 | 2.7 | 5.8 | 3.6 | 2.5 | |
| | | | 2 | 30.5 | 7.9 | 25.4 | 6.0 | 92.2 | 2.8 | 2.9 | | | | | | | | | |
| | Middle | 4.6 | 1 | 30.1 | 7.9 | 25.5 | 5.6 | 85.9 | 3.1 | 2.6 | | | | | | | | | |
| | Bottom | 8.2 | 1 | 30.1 | 7.9 | 25.5 | 5.6 | 85.9 | 3.1 | 2.5 | | | | | | | | | |
| | | | 2 | 29.3 | 7.8 | 27.9 | 4.5 | 68.5 | 4.8 | 2.1 | | | | | | | | | |
| | | | 2 | 29.3 | 7.8 | 27.9 | 4.5 | 68.6 | 4.8 | 2.3 | | | | | | | | | |
| | TCE-WQM2a | Sunny | Calm | 13:40 | 6.9 | Surface | 1.0 | 1 | 30.1 | 8.0 | 24.4 | 7.1 | 107.3 | 2.4 | 2.8 | 6.6 | 3.7 | 3.4 | |
| | | | 2 | 30.1 | 8.0 | 24.4 | 7.1 | 107.3 | 2.4 | 2.5 | | | | | | | | | |
| | Middle | 3.5 | 1 | 29.9 | 7.9 | 25.6 | 6.2 | 93.6 | 3.2 | 3.2 | | | | | | | | | |
| | Bottom | 5.9 | 1 | 29.9 | 7.9 | 25.6 | 6.2 | 93.6 | 3.2 | 3.6 | | | | | | | | | |
| | | | 2 | 29.7 | 7.9 | 26.1 | 5.8 | 87.7 | 5.6 | 4.3 | | | | | | | | | |
| | | | 2 | 29.7 | 7.9 | 26.1 | 5.8 | 87.7 | 5.6 | 3.9 | | | | | | | | | |
| TCE-WQM2b | Sunny | Calm | 13:54 | 10.3 | Surface | 1.0 | 1 | 29.8 | 8.0 | 25.3 | 6.8 | 103.7 | 2.5 | 2.7 | 6.5 | 5.5 | 2.2 | | |
| | | 2 | 29.8 | 8.0 | 25.3 | 6.8 | 103.6 | 2.6 | 2.4 | | | | | | | | | | |
| Middle | 5.2 | 1 | 29.3 | 8.0 | 26.3 | 6.1 | 91.7 | 4.6 | 2.2 | | | | | | | | | | |
| Bottom | 9.3 | 1 | 29.3 | 8.0 | 26.3 | 6.1 | 91.7 | 4.6 | 2.1 | | | | | | | | | | |
| | | 2 | 27.9 | 7.8 | 30.2 | 4.0 | 59.6 | 9.5 | 1.8 | | | | | | | | | | |
| | | 2 | 27.9 | 7.8 | 30.2 | 4.0 | 59.6 | 9.5 | 1.7 | | | | | | | | | | |
| TCE-WQM3A | Sunny | Calm | 13:23 | 5.6 | Surface | 1.0 | 1 | 30.1 | 8.0 | 25.3 | 6.6 | 99.8 | 4.5 | 1.8 | 6.6 | 5.0 | 2.2 | | |
| | | 2 | 30.1 | 8.0 | 25.3 | 6.6 | 99.7 | 4.5 | 1.6 | | | | | | | | | | |
| Bottom | 4.6 | 1 | 30.0 | 8.0 | 25.4 | 6.4 | 96.7 | 5.5 | 2.8 | | | | | | | | | | |
| | | 2 | 30.0 | 8.0 | 25.4 | 6.4 | 96.7 | 5.5 | 2.4 | | | | | | | | | | |
| TCE-WQM4 | Sunny | Calm | 13:11 | 5.1 | Surface | 1.0 | 1 | 30.0 | 8.0 | 25.4 | 6.4 | 96.8 | 3.0 | 3.6 | 6.4 | 3.2 | 3.2 | | |
| | | 2 | 30.0 | 8.0 | 25.4 | 6.4 | 96.7 | 3.0 | 3.4 | | | | | | | | | | |
| Bottom | 4.1 | 1 | 29.8 | 7.9 | 26.2 | 5.6 | 84.8 | 3.4 | 3.1 | | | | | | | | | | |
| | | 2 | 29.8 | 7.9 | 26.2 | 5.6 | 84.8 | 3.5 | 2.8 | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | |
|------------|-----------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | |
| 2023-08-11 | Mid-Ebb | TCE-C1 | Rainy | Moderate | 11:22 | 9.0 | Surface | 1.0 | 1 | 28.7 | 8.2 | 22.4 | 6.4 | 93.7 | 1.0 | 2.9 | 4.8 | 1.7 | 3.6 | | | |
| | | | | | | | | | 2 | 28.7 | 8.2 | 22.4 | 6.4 | 93.3 | 0.9 | 2.6 | | | | | | |
| | | | | | | | Middle | 4.5 | 1 | 26.7 | 7.9 | 29.9 | 3.2 | 47.0 | 1.3 | 3.9 | | | | | | |
| | | | | | | | | | 2 | 26.7 | 7.9 | 29.9 | 3.2 | 47.0 | 1.3 | 3.4 | | | | | | |
| | | | | Bottom | 8.0 | 1 | 26.5 | 7.9 | 30.3 | 3.3 | 49.2 | 2.7 | 4.2 | 3.3 | | | | | | | | |
| | | | | | | 2 | 26.5 | 7.9 | 30.3 | 3.4 | 49.5 | 2.7 | 4.4 | | | | | | | | | |
| | | TCE-C2 | Rainy | Moderate | 9:48 | 11.0 | Surface | 1.0 | 1 | 28.8 | 8.3 | 21.2 | 7.9 | | | | 115.6 | 0.3 | 4.5 | 6.8 | 1.0 | 3.6 |
| | | | | | | | | | 2 | 28.8 | 8.3 | 21.2 | 7.9 | | | | 115.4 | 0.3 | 4.2 | | | |
| | | | | | | | Middle | 5.5 | 1 | 27.7 | 8.1 | 26.2 | 5.6 | 82.5 | 1.1 | 3.4 | | | | | | |
| | | | | | | | | | 2 | 27.6 | 8.1 | 26.2 | 5.6 | 82.4 | 1.1 | 3.8 | | | | | | |
| | | | | Bottom | 10.0 | 1 | 27.1 | 8.0 | 27.7 | 4.5 | 65.6 | 1.7 | 2.9 | 4.5 | | | | | | | | |
| | | | | | | 2 | 27.1 | 8.0 | 27.7 | 4.5 | 65.7 | 1.7 | 2.6 | | | | | | | | | |
| | TCE-WQM1 | Rainy | Moderate | 11:07 | 8.2 | Surface | 1.0 | 1 | 29.0 | 8.2 | 22.9 | 7.1 | 104.0 | | | | 0.4 | 4.3 | 5.9 | 1.1 | 3.8 | |
| | | | | | | | | 2 | 28.9 | 8.2 | 22.9 | 7.1 | 103.9 | | | | 0.5 | 4.0 | | | | |
| | | | | | | Middle | 4.1 | 1 | 28.5 | 8.0 | 25.4 | 4.7 | 69.7 | 0.9 | 3.7 | | | | | | | |
| | | | | | | | | 2 | 28.6 | 8.0 | 25.2 | 4.7 | 70.1 | 0.9 | 4.0 | | | | | | | |
| | | | Bottom | 7.2 | 1 | 27.1 | 7.9 | 29.0 | 3.8 | 56.0 | 2.0 | 3.6 | 3.8 | | | | | | | | | |
| | | | | | 2 | 27.1 | 7.9 | 29.0 | 3.8 | 56.3 | 2.1 | 3.3 | | | | | | | | | | |
| | TCE-WQM2a | Rainy | Moderate | 10:30 | 7.0 | Surface | 1.0 | 1 | 28.6 | 8.2 | 23.5 | 6.8 | | | | 100.2 | 0.6 | 2.4 | 6.3 | 0.9 | 2.8 | |
| | | | | | | | | 2 | 28.6 | 8.2 | 23.5 | 6.8 | | | | 100.2 | 0.6 | 2.3 | | | | |
| | | | | | | Middle | 3.5 | 1 | 28.3 | 8.1 | 24.3 | 5.8 | 85.3 | 0.8 | 2.9 | | | | | | | |
| | | | | | | | | 2 | 28.2 | 8.1 | 24.3 | 5.8 | 85.3 | 0.8 | 2.6 | | | | | | | |
| | | | Bottom | 6.0 | 1 | 27.5 | 7.9 | 27.5 | 3.7 | 54.6 | 1.4 | 3.5 | 3.7 | | | | | | | | | |
| | | | | | 2 | 27.6 | 7.9 | 27.4 | 3.7 | 54.7 | 1.6 | 3.2 | | | | | | | | | | |
| | TCE-WQM2b | Rainy | Moderate | 10:18 | 10.8 | Surface | 1.0 | 1 | 28.2 | 8.1 | 24.8 | 5.6 | | | | 81.8 | 0.2 | 3.6 | 4.9 | 0.8 | 2.9 | |
| | | | | | | | | 2 | 28.2 | 8.1 | 24.8 | 5.6 | | | | 81.6 | 0.2 | 3.2 | | | | |
| | | | | | | Middle | 5.4 | 1 | 27.9 | 8.0 | 26.0 | 4.3 | 64.0 | 1.0 | 2.6 | | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.0 | 26.0 | 4.3 | 63.5 | 1.0 | 3.0 | | | | | | | |
| | | | Bottom | 9.8 | 1 | 26.9 | 7.9 | 28.3 | 3.5 | 51.8 | 1.1 | 2.2 | 3.5 | | | | | | | | | |
| | | | | | 2 | 26.8 | 7.9 | 28.5 | 3.5 | 51.9 | 1.1 | 2.5 | | | | | | | | | | |
| | TCE-WQM3A | Rainy | Moderate | 10:41 | 3.0 | Surface | 1.0 | 1 | 28.8 | 8.2 | 22.3 | 8.0 | | | | 116.6 | 1.1 | 3.6 | 8.0 | 1.6 | 3.8 | |
| | | | | | | | | 2 | 28.8 | 8.2 | 22.3 | 8.0 | | | | 116.4 | 1.1 | 3.2 | | | | |
| | | | | | | Bottom | 2.0 | 1 | 28.7 | 8.2 | 22.7 | 7.3 | 107.6 | 2.0 | 4.4 | | | | | | | |
| | | | | | | | | 2 | 28.7 | 8.2 | 22.7 | 7.3 | 106.9 | 2.1 | 4.0 | | | | | | | |
| | TCE-WQM4 | Rainy | Moderate | 10:50 | 4.0 | Surface | 1.0 | 1 | 28.9 | 8.1 | 22.6 | 6.9 | 101.7 | 3.7 | 2.8 | 6.9 | 5.2 | 3.5 | | | | |
| | | | | | | | | 2 | 28.9 | 8.1 | 22.6 | 6.9 | 101.9 | 3.7 | 3.1 | | | | | | | |
| Bottom | | | | | | 3.0 | 1 | 27.4 | 7.9 | 28.0 | 3.5 | 51.3 | 6.7 | 3.8 | | | | | | | | |
| | | | | | | | 2 | 27.4 | 7.9 | 27.9 | 3.5 | 51.9 | 6.7 | 4.2 | | | | | | | | |
| 2023-08-11 | Mid-Flood | TCE-C1 | Fine | Moderate | 20:28 | 9.2 | Surface | 1.0 | 1 | 28.8 | 8.2 | 22.3 | 6.9 | 101.0 | 1.1 | 3.3 | 5.1 | 1.7 | 3.9 | | | |
| | | | | | | | | | 2 | 28.9 | 8.2 | 22.3 | 6.9 | 100.8 | 1.1 | 3.0 | | | | | | |
| | | | | | | | Middle | 4.6 | 1 | 27.0 | 7.9 | 29.0 | 3.3 | 48.9 | 1.5 | 3.8 | | | | | | |
| | | | | | | | | | 2 | 27.0 | 7.9 | 29.1 | 3.3 | 48.9 | 1.4 | 4.1 | | | | | | |
| | | | | Bottom | 8.2 | 1 | 26.6 | 7.9 | 30.3 | 3.2 | 46.6 | 2.4 | 4.8 | 3.2 | | | | | | | | |
| | | | | | | 2 | 26.6 | 7.9 | 30.3 | 3.2 | 46.8 | 2.4 | 4.4 | | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 21:51 | 11.4 | Surface | 1.0 | 1 | 28.5 | 8.1 | 24.1 | 6.8 | | | | 99.6 | 1.1 | 4.6 | 5.5 | 2.1 | 3.9 |
| | | | | | | | | | 2 | 28.5 | 8.1 | 23.7 | 6.7 | | | | 99.8 | 1.1 | 4.4 | | | |
| | | | | | | | Middle | 5.7 | 1 | 27.6 | 8.0 | 26.5 | 4.3 | 62.7 | 2.1 | 3.7 | | | | | | |
| | | | | | | | | | 2 | 27.6 | 8.0 | 26.5 | 4.3 | 62.5 | 2.2 | 4.0 | | | | | | |
| | | | | Bottom | 10.4 | 1 | 26.3 | 8.0 | 29.1 | 4.2 | 62.1 | 3.0 | 3.2 | 4.2 | | | | | | | | |
| | | | | | | 2 | 26.3 | 8.0 | 29.1 | 4.2 | 62.0 | 3.0 | 3.5 | | | | | | | | | |
| | | TCE-WQM1 | Fine | Moderate | 20:46 | 6.8 | Surface | 1.0 | 1 | 29.0 | 8.2 | 22.9 | 7.3 | | | | 107.0 | 0.3 | 4.0 | 6.0 | 1.7 | 4.5 |
| | | | | | | | | | 2 | 29.0 | 8.2 | 22.9 | 7.2 | | | | 106.8 | 0.3 | 3.8 | | | |
| | | | | | | | Middle | 3.4 | 1 | 29.0 | 8.0 | 24.1 | 4.8 | 71.7 | 1.4 | 4.4 | | | | | | |
| | | | | | | | | | 2 | 29.0 | 8.0 | 24.1 | 4.8 | 71.7 | 1.4 | 4.4 | | | | | | |
| | | | | Bottom | 5.8 | 1 | 26.9 | 7.9 | 29.4 | 3.4 | 49.8 | 3.3 | 5.2 | 3.4 | | | | | | | | |
| | | | | | | 2 | 26.9 | 7.9 | 29.4 | 3.4 | 50.4 | 3.3 | 5.0 | | | | | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 21:15 | 7.2 | Surface | 1.0 | 1 | 28.9 | 8.2 | 23.2 | 7.9 | | | | 117.0 | 1.0 | 5.8 | 7.3 | 1.1 | 4.9 |
| | | | | | | | | | 2 | 28.9 | 8.2 | 23.2 | 7.9 | | | | 117.0 | 1.0 | 5.4 | | | |
| | | | | | | | Middle | 3.6 | 1 | 28.6 | 8.2 | 23.8 | 6.7 | 99.4 | 1.1 | 5.1 | | | | | | |
| | | | | | | | | | 2 | 28.6 | 8.2 | 23.9 | 6.7 | 99.3 | 1.1 | 4.8 | | | | | | |
| | | | | Bottom | 6.2 | 1 | 27.8 | 8.0 | 25.0 | 5.7 | 83.5 | 1.2 | 4.0 | 5.7 | | | | | | | | |
| | | | | | | 2 | 27.7 | 8.2 | 24.6 | 5.7 | 82.3 | 1.2 | 4.4 | | | | | | | | | |
| | TCE-WQM2b | Fine | Moderate | 21:30 | 10.0 | Surface | 1.0 | 1 | 28.5 | 8.1 | 22.8 | 6.5 | 95.0 | | | | 0.1 | 3.4 | 6.3 | 0.7 | 4.2 | |
| | | | | | | | | 2 | 28.4 | 8.1 | 22.8 | 6.5 | 95.0 | | | | 0.1 | 3.7 | | | | |
| | | | | | | Middle | 5.0 | 1 | 28.3 | 8.1 | 23.4 | 6.2 | 90.3 | 0.8 | 4.4 | | | | | | | |
| | | | | | | | | 2 | 28.3 | 8.1 | 23.5 | 6.2 | 90.3 | 0.8 | 4.0 | | | | | | | |
| | | | Bottom | 9.0 | 1 | 28.2 | 8.1 | 24.2 | 5.7 | 84.0 | 1.3 | 4.6 | 5.7 | | | | | | | | | |
| | | | | | 2 | 28.2 | 8.1 | 24.3 | 5.7 | 83.8 | 1.3 | 4.8 | | | | | | | | | | |
| | TCE-WQM3A | Fine | Moderate | 21:07 | 3.4 | Surface | 1.0 | 1 | 28.8 | 8.2 | 23.0 | 7.0 | | | | 103.0 | 5.4 | 4.5 | 7.1 | 6.3 | 4.0 | |
| | | | | | | | | 2 | 28.8 | 8.2 | 23.0 | 7.3 | | | | 106.7 | 5.4 | 4.2 | | | | |
| | | | | | | Bottom | 2.4 | 1 | 28.5 | 8.2 | 24.2 | 6.3 | 92.2 | 7.1 | 3.8 | | | | | | | |
| | | | | | | | | 2 | 28.4 | 8.1 | 24.3 | 6.1 | 89.4 | 7.1 | 3.5 | | | | | | | |
| | TCE-WQM4 | Fine | Moderate | 20:58 | 3.0 | Surface | 1.0 | 1 | 28.9 | 8.3 | 22.7 | 8.3 | 122.5 | 2.2 | 7.2 | 8.3 | 2.8 | 6.5 | | | | |
| | | | | | | | | 2 | 28.9 | 8.3 | 22.7 | 8.3 | 122.8 | 2.2 | 6.9 | | | | | | | |
| Bottom | | | | | | 2.0 | 1 | 28.9 | 8.3 | 22.9 | 7.9 | 115.6 | 3.4 | 5.8 | | | | | | | | |
| | | | | | | | 2 | 28.9 | 8.3 | 23.0 | 7.8 | 115.3 | 3.3 | 6.1 | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|---------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|------|------|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | | | | |
| 2023-08-14 | Mid-Ebb | TCE-C1 | Cloudy | Rough | 10:37 | 7.9 | Surface | 1.0 | 1 | 28.3 | 8.2 | 21.4 | 6.7 | 96.3 | 2.6 | 1.7 | 6.4 | 3.9 | 2.5 | | | | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 21.4 | 6.7 | 96.3 | 2.6 | 2.2 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 28.3 | 8.1 | 21.7 | 6.2 | 90.4 | 3.6 | 1.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.1 | 21.7 | 6.2 | 90.4 | 3.6 | 1.8 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.9 | 1 | 28.3 | 8.0 | 23.2 | 4.8 | 69.9 | 5.4 | 3.5 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.3 | 8.0 | 23.2 | 4.8 | 69.9 | 5.5 | 3.8 | | | | | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 12:52 | 13.3 | Surface | 1.0 | 1 | 28.2 | 8.2 | 21.3 | 7.0 | 101.4 | 1.0 | 2.4 | 6.4 | 2.3 | 2.1 | | | | | | | | | |
| | | | | | | | | | 2 | 28.2 | 8.2 | 21.3 | 7.0 | 101.4 | 1.1 | 3.1 | | | | | | | | | | | | |
| | | | | | | | Middle | 6.7 | 1 | 27.7 | 8.1 | 22.7 | 5.9 | 84.5 | 2.4 | 1.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.7 | 8.1 | 22.7 | 5.9 | 84.5 | 2.5 | 2.1 | | | | | | | | | | | | |
| | | | | | | | Bottom | 12.3 | 1 | 25.3 | 8.0 | 29.6 | 4.0 | 58.2 | 3.4 | 1.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.3 | 8.0 | 29.6 | 4.1 | 58.3 | 3.4 | 2.3 | | | | | | | | | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 11:30 | 9.3 | Surface | 1.0 | 1 | 28.4 | 8.2 | 21.9 | 6.2 | 90.4 | 2.0 | 0.9 | 5.3 | 2.7 | 1.4 | | | | | | | | | |
| | | | | | | | | | 2 | 28.4 | 8.2 | 21.9 | 6.2 | 90.4 | 2.0 | 1.6 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.7 | 1 | 27.5 | 8.0 | 24.7 | 4.3 | 62.5 | 2.6 | 1.5 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.5 | 8.0 | 24.7 | 4.3 | 62.5 | 2.6 | 1.4 | | | | | | | | | | | | |
| | | | | | | | Bottom | 8.3 | 1 | 26.8 | 7.9 | 27.6 | 3.5 | 51.3 | 3.4 | 1.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 26.8 | 7.9 | 27.6 | 3.5 | 51.6 | 3.4 | 1.3 | | | | | | | | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 12:12 | 7.1 | Surface | 1.0 | 1 | 28.1 | 8.1 | 22.9 | 5.7 | 83.4 | 1.2 | 1.4 | 5.3 | 2.2 | 1.6 | | | | | | | | | |
| | | | | | | | | | 2 | 28.1 | 8.1 | 22.9 | 5.7 | 83.4 | 1.2 | 1.0 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 27.5 | 8.0 | 24.9 | 4.8 | 70.2 | 2.0 | 1.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.5 | 8.0 | 24.9 | 4.8 | 70.2 | 2.0 | 1.6 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.1 | 1 | 25.8 | 8.0 | 28.9 | 4.1 | 58.6 | 3.4 | 1.7 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.8 | 8.0 | 28.9 | 4.1 | 58.6 | 3.5 | 1.8 | | | | | | | | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 12:27 | 10.3 | Surface | 1.0 | 1 | 27.9 | 8.1 | 22.5 | 5.7 | 82.9 | 1.6 | 1.9 | 5.6 | 2.5 | 1.7 | | | | | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.1 | 22.5 | 5.7 | 82.9 | 1.6 | 1.2 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.2 | 1 | 27.6 | 8.1 | 23.8 | 5.6 | 80.4 | 2.9 | 1.4 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.6 | 8.1 | 23.8 | 5.6 | 80.4 | 2.9 | 1.9 | | | | | | | | | | | | | |
| | | | | | | Bottom | 9.3 | 1 | 25.9 | 8.0 | 28.3 | 4.2 | 61.3 | 3.1 | 2.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 25.9 | 8.0 | 28.4 | 4.2 | 61.2 | 3.2 | 1.7 | | | | | | | | | | | | | |
| | TCE-WQM3A | Cloudy | Moderate | 11:57 | 5.2 | Surface | 1.0 | 1 | 28.3 | 8.1 | 22.0 | 6.3 | 90.9 | 1.2 | 2.1 | 6.3 | 1.9 | 2.0 | | | | | | | | | | |
| | | | | | | | | 2 | 28.3 | 8.1 | 22.0 | 6.3 | 90.8 | 1.2 | 1.7 | | | | | | | | | | | | | |
| | | | | | | Bottom | 4.2 | 1 | 27.7 | 8.0 | 23.7 | 4.9 | 70.4 | 2.7 | 2.2 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.7 | 8.0 | 23.7 | 4.9 | 70.4 | 2.7 | 1.9 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Cloudy | Moderate | 11:44 | 4.7 | Surface | 1.0 | 1 | 28.1 | 8.1 | | | | 22.5 | 5.8 | 83.4 | 1.5 | 1.6 | 5.8 | 2.0 | 1.8 | | |
| | | | | | | | | | | | | | 2 | 28.1 | 8.1 | | | | 22.5 | 5.8 | 83.4 | 1.5 | 1.3 | | | | | |
| | Bottom | 3.7 | 1 | 27.7 | 8.0 | | | | | | 24.3 | 4.8 | 70.0 | 2.5 | 2.5 | | | | | | | | | | | | | |
| | | | 2 | 27.7 | 8.0 | | | | | | 24.3 | 4.8 | 70.1 | 2.5 | 1.9 | | | | | | | | | | | | | |
| | 2023-08-14 | Mid-Flood | TCE-C1 | Rainy | Rough | | | | | | 5:45 | 7.5 | Surface | 1.0 | 1 | 27.8 | 8.1 | 22.2 | 6.2 | 89.3 | 1.6 | 2.1 | 5.8 | | | | 2.6 | 2.2 |
| | | | | | | | | | | | | | | | 2 | 27.8 | 8.1 | 22.2 | 6.2 | 89.3 | 1.6 | 1.4 | | | | | | |
| | | | | | | Middle | 3.8 | 1 | 27.5 | 8.1 | | | 23.6 | 5.5 | 79.4 | 2.9 | 2.9 | | | | | | | | | | | |
| | | | | | | | | 2 | 27.5 | 8.1 | | | 23.6 | 5.5 | 79.4 | 2.9 | 2.2 | | | | | | | | | | | |
| | | | | | | Bottom | 6.5 | 1 | 26.1 | 8.0 | | | 27.3 | 4.7 | 68.1 | 3.4 | 1.6 | | | | | | | | | | | |
| | | | | | | | | 2 | 26.1 | 8.0 | | | 27.4 | 4.7 | 68.1 | 3.5 | 2.8 | | | | | | | | | | | |
| | | | TCE-C2 | Rainy | Rough | 3:36 | 12.9 | Surface | 1.0 | 1 | 27.8 | 8.2 | 21.4 | 6.7 | 97.1 | 2.4 | 2.2 | 6.2 | 3.6 | 2.0 | | | | | | | | |
| | | | | | | | | | | 2 | 27.8 | 8.2 | 21.4 | 6.7 | 97.1 | 2.4 | 1.8 | | | | | | | | | | | |
| | | | | | | | | Middle | 6.5 | 1 | 26.8 | 8.1 | 24.8 | 5.7 | 81.6 | 3.6 | 2.4 | | | | | | | | | | | |
| | | | | | | | | | | 2 | 26.8 | 8.1 | 24.8 | 5.7 | 81.6 | 3.6 | 2.2 | | | | | | | | | | | |
| Bottom | | | | | | | | 11.9 | 1 | 24.7 | 8.0 | 30.2 | 4.1 | 59.3 | 4.7 | 1.7 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 24.7 | 8.0 | 30.2 | 4.1 | 59.3 | 4.7 | 1.6 | | | | | | | | | | | | |
| TCE-WQM1 | | | Rainy | Moderate | 4:51 | 8.9 | Surface | 1.0 | 1 | 27.7 | 8.1 | 22.4 | 6.0 | 87.4 | 0.7 | 1.4 | 5.6 | 0.9 | 1.9 | | | | | | | | | |
| | | | | | | | | | 2 | 27.7 | 8.1 | 22.4 | 6.0 | 87.4 | 0.7 | 2.0 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.5 | 1 | 27.3 | 8.0 | 24.2 | 5.3 | 76.2 | 0.9 | 2.0 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.3 | 8.0 | 24.2 | 5.3 | 76.2 | 0.9 | 2.0 | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.9 | 1 | 27.4 | 8.0 | 24.0 | 5.3 | 76.2 | 1.1 | 2.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.4 | 8.0 | 24.0 | 5.3 | 76.3 | 1.1 | 1.8 | | | | | | | | | | | | |
| TCE-WQM2a | | | Rainy | Rough | 4:15 | 6.8 | Surface | 1.0 | 1 | 27.9 | 8.2 | 20.0 | 6.9 | 99.5 | 2.1 | 1.7 | 6.3 | 2.8 | 1.9 | | | | | | | | | |
| | | | | | | | | | 2 | 27.9 | 8.2 | 20.0 | 6.9 | 99.5 | 2.1 | 2.1 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.4 | 1 | 27.5 | 8.1 | 22.4 | 5.6 | 81.1 | 2.3 | 1.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.5 | 8.1 | 22.4 | 5.6 | 81.1 | 2.4 | 1.6 | | | | | | | | | | | | |
| | | | | | | | Bottom | 5.8 | 1 | 26.3 | 8.0 | 26.0 | 4.7 | 67.4 | 3.9 | 1.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 26.3 | 8.0 | 26.0 | 4.7 | 67.4 | 3.9 | 3.2 | | | | | | | | | | | | |
| TCE-WQM2b | | Rainy | Rough | 4:01 | 9.9 | Surface | 1.0 | 1 | 27.8 | 8.2 | 21.5 | 6.8 | 97.8 | 1.9 | 1.4 | 6.6 | 2.4 | 1.9 | | | | | | | | | | |
| | | | | | | | | 2 | 27.8 | 8.2 | 21.5 | 6.8 | 97.8 | 1.9 | 2.1 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.0 | 1 | 27.5 | 8.2 | 22.4 | 6.5 | 93.5 | 2.0 | 1.7 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.5 | 8.2 | 22.4 | 6.5 | 93.4 | 2.1 | 1.6 | | | | | | | | | | | | | |
| | | | | | | Bottom | 8.9 | 1 | 26.7 | 8.1 | 25.2 | 5.9 | 84.7 | 3.1 | 2.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.7 | 8.1 | 25.2 | 5.9 | 84.7 | 3.1 | 2.6 | | | | | | | | | | | | | |
| TCE-WQM3A | | Rainy | Moderate | 4:26 | 4.8 | Surface | 1.0 | 1 | 27.9 | 8.1 | 20.5 | 6.6 | 94.7 | 2.1 | 2.3 | 6.6 | 2.8 | 1.8 | | | | | | | | | | |
| | | | | | | | | 2 | 27.9 | 8.1 | 20.5 | 6.6 | 94.7 | 2.1 | 1.7 | | | | | | | | | | | | | |
| | | | | | | Bottom | 3.8 | 1 | 27.8 | 8.1 | 21.3 | 6.1 | 88.3 | 3.4 | 1.6 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.8 | 8.1 | 21.3 | 6.1 | 88.3 | 3.5 | 1.7 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Rainy | Moderate | 4:37 | 4.2 | Surface | 1.0 | 1 | 27.9 | 8.2 | | | | 20.0 | 6.9 | 99.4 | 2.0 | 1.3 | 6.9 | 2.6 | 1.5 | | |
| | | | | | | | | | | | | | 2 | 27.9 | 8.2 | | | | 20.0 | 6.9 | 99.4 | 2.1 | 1.4 | | | | | |
| Bottom | | 3.2 | 1 | 27.8 | 8.1 | | | | | | 21.4 | 6.2 | 88.8 | 3.2 | 1.6 | | | | | | | | | | | | | |
| | | | 2 | 27.8 | 8.1 | | | | | | 21.4 | 6.2 | 88.8 | 3.2 | 1.8 | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|---------|---------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 2023-08-16 | Mid-Ebb | TCE-C1 | Fine | Moderate | 11:38 | 8.7 | Surface | 1.0 | 1 | 28.7 | 8.2 | 24.2 | 5.6 | 83.1 | 3.0 | 1.1 | 5.1 | 4.9 | 1.6 |
| | | | | | | | | | 2 | 28.7 | 8.2 | 24.2 | 5.6 | 83.1 | 3.0 | 1.2 | | | |
| | | | | | | | Middle | 4.4 | 1 | 28.0 | 8.1 | 25.5 | 4.5 | 66.5 | 5.5 | 1.4 | | | |
| | | | | | | | Bottom | 7.7 | 1 | 27.9 | 8.1 | 26.0 | 4.2 | 62.8 | 6.0 | 2.1 | | | |
| | | | | | | 2 | 27.9 | 8.1 | 26.0 | 4.2 | 62.8 | 6.0 | 2.2 | 4.2 | | | | | |
| | | | | 2 | 28.9 | 8.1 | 23.6 | 5.9 | 87.7 | 1.6 | 1.2 | | | | | | | | |
| | | Middle | 7.0 | 1 | 28.3 | 8.1 | 24.5 | 5.5 | 80.7 | 4.3 | 1.3 | | | | | | | | |
| | | Bottom | 13.0 | 1 | 28.3 | 8.1 | 24.5 | 5.5 | 80.1 | 4.5 | 1.6 | | | | | | | | |
| | | | | | | 2 | 28.1 | 8.1 | 24.9 | 5.3 | 77.6 | 5.9 | 1.7 | 5.3 | | | | | |
| | | | | 2 | 28.1 | 8.1 | 24.9 | 5.3 | 77.8 | 5.8 | 1.9 | | | | | | | | |
| | | Middle | 4.1 | 1 | 28.3 | 8.1 | 25.0 | 4.9 | 71.6 | 6.6 | 1.4 | | | | | | | | |
| | | Bottom | 7.1 | 1 | 28.2 | 8.1 | 25.2 | 4.8 | 70.8 | 7.0 | 0.7 | | | | | | | | |
| | | | | | | 2 | 28.2 | 8.1 | 25.2 | 4.8 | 70.8 | 7.0 | 0.6 | 4.8 | | | | | |
| | | | | 2 | 28.2 | 8.2 | 24.8 | 5.0 | 74.1 | 3.7 | 1.3 | | | | | | | | |
| | | Middle | 3.4 | 1 | 27.8 | 8.3 | 25.4 | 4.8 | 69.8 | 4.1 | 1.9 | | | | | | | | |
| | | Bottom | 5.8 | 1 | 26.3 | 8.3 | 28.6 | 4.2 | 61.6 | 6.0 | 2.6 | | | | | | | | |
| | | | | | | 2 | 26.3 | 8.3 | 28.6 | 4.2 | 61.6 | 5.4 | 2.3 | 4.2 | | | | | |
| | | | | 2 | 29.1 | 8.2 | 22.7 | 5.9 | 86.6 | 1.7 | 1.4 | | | | | | | | |
| | | Middle | 5.7 | 1 | 27.2 | 8.3 | 26.7 | 4.6 | 66.6 | 7.2 | 1.7 | | | | | | | | |
| | | Bottom | 10.3 | 1 | 26.8 | 8.3 | 27.5 | 4.1 | 60.9 | 12.0 | 2.2 | | | | | | | | |
| | | | | | | 2 | 26.8 | 8.3 | 27.6 | 4.1 | 60.9 | 12.3 | 2.2 | 4.1 | | | | | |
| | | | | 2 | 28.6 | 8.2 | 23.7 | 4.9 | 72.4 | 4.8 | 2.8 | | | | | | | | |
| | | Middle | | 1 | 27.8 | 8.1 | 25.4 | 4.4 | 63.7 | 8.3 | 2.2 | | | | | | | | |
| | | Bottom | 3.5 | 1 | 27.8 | 8.1 | 25.4 | 4.4 | 63.8 | 8.3 | 2.4 | | | | | | | | |
| | | | | | 2 | 27.8 | 8.1 | 25.4 | 4.4 | 63.8 | 8.3 | 2.4 | 4.4 | | | | | | |
| | | | 2 | 29.4 | 8.1 | 23.0 | 5.9 | 88.2 | 2.4 | 1.3 | | | | | | | | | |
| | Middle | | 1 | 29.4 | 8.1 | 23.1 | 5.4 | 80.8 | 5.8 | 2.1 | | | | | | | | | |
| | Bottom | 2.4 | 1 | 29.4 | 8.1 | 23.1 | 5.4 | 80.8 | 5.7 | 2.4 | | | | | | | | | |
| | | | | | 2 | 29.4 | 8.1 | 23.1 | 5.4 | 80.8 | 5.7 | 2.4 | 5.4 | | | | | | |
| | | | 2 | 28.2 | 8.1 | 24.6 | 5.2 | 77.1 | 3.1 | 1.6 | | | | | | | | | |
| | Middle | 4.6 | 1 | 27.7 | 8.0 | 25.7 | 4.5 | 65.6 | 5.4 | 1.9 | | | | | | | | | |
| | Bottom | 8.1 | 1 | 27.5 | 8.0 | 26.3 | 4.4 | 65.0 | 9.8 | 2.1 | | | | | | | | | |
| | | | | | 2 | 27.5 | 8.0 | 26.3 | 4.4 | 65.1 | 9.9 | 2.2 | 4.4 | | | | | | |
| | | | 2 | 27.8 | 8.1 | 24.1 | 5.2 | 76.5 | 1.5 | 2.4 | | | | | | | | | |
| | Middle | 7.1 | 1 | 26.4 | 8.0 | 27.5 | 4.5 | 64.7 | 1.6 | 1.8 | | | | | | | | | |
| | Bottom | 13.1 | 1 | 24.9 | 8.0 | 30.6 | 3.7 | 53.0 | 10.5 | 1.3 | | | | | | | | | |
| | | | | | 2 | 24.8 | 8.0 | 30.8 | 3.7 | 53.3 | 10.3 | 1.1 | 3.7 | | | | | | |
| | | | 2 | 28.7 | 8.2 | 23.9 | 5.6 | 83.2 | 7.1 | 1.7 | | | | | | | | | |
| | Middle | 4.3 | 1 | 28.2 | 8.2 | 24.7 | 5.1 | 76.0 | 9.0 | 1.5 | | | | | | | | | |
| | Bottom | 7.5 | 1 | 28.0 | 8.1 | 25.0 | 4.8 | 70.2 | 10.7 | 1.2 | | | | | | | | | |
| | | | | | 2 | 28.0 | 8.1 | 25.0 | 4.8 | 70.2 | 10.4 | 1.3 | 4.8 | | | | | | |
| | | | 2 | 28.1 | 8.2 | 24.8 | 5.1 | 76.0 | 8.2 | 1.4 | | | | | | | | | |
| | Middle | 3.5 | 1 | 27.7 | 8.3 | 24.7 | 4.9 | 71.2 | 3.6 | 2.4 | | | | | | | | | |
| | Bottom | 6.0 | 1 | 25.8 | 8.3 | 28.9 | 4.5 | 65.1 | 10.4 | 1.7 | | | | | | | | | |
| | | | | | 2 | 25.8 | 8.3 | 28.9 | 4.5 | 65.2 | 10.6 | 1.9 | 4.5 | | | | | | |
| | | | 2 | 28.9 | 8.1 | 22.3 | 6.2 | 91.8 | 1.2 | 1.1 | | | | | | | | | |
| | Middle | 5.3 | 1 | 27.6 | 7.9 | 24.8 | 5.1 | 74.9 | 2.8 | 1.6 | | | | | | | | | |
| | Bottom | 9.6 | 1 | 27.4 | 7.8 | 25.5 | 5.1 | 74.0 | 7.8 | 2.1 | | | | | | | | | |
| | | | | 2 | 27.4 | 7.8 | 25.5 | 5.1 | 74.2 | 7.6 | 2.2 | 5.1 | | | | | | | |
| | | 2 | 28.6 | 8.1 | 22.8 | 5.4 | 79.5 | 3.0 | 2.7 | | | | | | | | | | |
| Middle | | 1 | 27.9 | 8.1 | 24.5 | 4.9 | 71.7 | 5.3 | 1.6 | | | | | | | | | | |
| Bottom | 3.5 | 1 | 27.9 | 8.1 | 24.5 | 4.9 | 71.9 | 5.2 | 1.3 | | | | | | | | | | |
| | | | | 2 | 27.9 | 8.1 | 24.5 | 4.9 | 71.9 | 5.2 | 1.3 | 4.9 | | | | | | | |
| | | 2 | 28.9 | 8.1 | 22.6 | 5.6 | 83.1 | 2.6 | 1.7 | | | | | | | | | | |
| Middle | | 1 | 28.9 | 8.1 | 22.5 | 5.6 | 83.1 | 2.6 | 1.6 | | | | | | | | | | |
| Bottom | 3.1 | 1 | 28.7 | 8.1 | 23.4 | 5.0 | 74.6 | 6.0 | 2.0 | | | | | | | | | | |
| | | | | 2 | 28.7 | 8.1 | 23.4 | 5.0 | 74.6 | 6.1 | 2.5 | 5.0 | | | | | | | |

| 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) | |
| 2023-08-18 | Mid-Ebb | TCE-C1 | Misty | Moderate | 12:41 | 9.0 | Surface | 1.0 | 1 | 28.9 | 8.1 | 24.1 | 5.1 | 76.0 | 1.1 | 3.3 | 5.1 | 1.7 | 3.8 | |
| | | | | | | | | | 2 | 28.9 | 8.1 | 24.0 | 5.1 | 76.0 | 1.1 | 3.0 | | | | |
| | | | | | | | Middle | 4.5 | 1 | 28.8 | 8.1 | 24.1 | 5.1 | 76.0 | 1.4 | 3.6 | | | | |
| | | | | | | | Bottom | 8.0 | 1 | 28.9 | 8.1 | 24.0 | 5.1 | 76.3 | 2.6 | 4.3 | | | | |
| | | | | | | 2 | 28.9 | 8.1 | 24.0 | 5.1 | 76.4 | 2.6 | 4.5 | 5.1 | | | | | | |
| | | TCE-C2 | Misty | Moderate | 14:33 | 10.6 | Surface | 1.0 | 1 | 28.4 | 8.2 | 24.0 | 5.0 | 73.4 | 0.2 | 2.2 | 4.9 | 1.6 | 3.0 | |
| | | | | | | | | | 2 | 28.3 | 8.2 | 24.1 | 5.0 | 73.3 | 0.2 | 2.4 | | | | |
| | | | | | | | Middle | 5.3 | 1 | 28.1 | 8.2 | 24.6 | 4.8 | 70.8 | 1.5 | 2.7 | | | | |
| | | | | | | | Bottom | 9.6 | 1 | 28.1 | 8.2 | 24.6 | 4.8 | 70.8 | 1.4 | 3.0 | | | | |
| | | | | | | 2 | 27.0 | 8.3 | 27.0 | 4.5 | 66.2 | 3.1 | 3.5 | 4.5 | | | | | | |
| | | | | | | 2 | 27.0 | 8.3 | 27.0 | 4.6 | 66.5 | 3.1 | 3.9 | | | | | | | |
| | | TCE-WQM1 | Misty | Moderate | 13:24 | 7.8 | Surface | 1.0 | 1 | 29.0 | 8.1 | 23.2 | 5.2 | 77.5 | 1.0 | 8.3 | 5.2 | 1.7 | 9.2 | |
| | | | | | | | | | 2 | 29.0 | 8.1 | 23.2 | 5.2 | 77.5 | 1.0 | 8.1 | | | | |
| | | | | | | | Middle | 3.9 | 1 | 28.7 | 8.1 | 24.1 | 5.2 | 76.3 | 1.8 | 9.0 | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 28.7 | 8.1 | 24.1 | 5.2 | 76.3 | 1.8 | 9.5 | | | | |
| | | | | | | 2 | 28.6 | 8.1 | 24.4 | 5.2 | 76.3 | 2.4 | 10.4 | 5.2 | | | | | | |
| | | | | | | 2 | 28.6 | 8.1 | 24.4 | 5.2 | 76.4 | 2.4 | 10.0 | | | | | | | |
| | | TCE-WQM2a | Misty | Moderate | 13:58 | 7.6 | Surface | 1.0 | 1 | 28.2 | 8.2 | 24.7 | 4.8 | 70.5 | 1.0 | 2.5 | 4.7 | 1.6 | 3.0 | |
| | | | | | | | | | 2 | 28.2 | 8.2 | 24.7 | 4.8 | 70.5 | 1.0 | 2.2 | | | | |
| | | | | | | | Middle | 3.8 | 1 | 28.0 | 8.2 | 25.3 | 4.6 | 67.3 | 1.6 | 3.2 | | | | |
| | | | | | | | Bottom | 6.6 | 1 | 28.0 | 8.2 | 25.3 | 4.6 | 67.3 | 1.5 | 2.8 | | | | |
| | | | | | | 2 | 27.7 | 8.2 | 25.7 | 4.6 | 67.4 | 2.3 | 3.8 | 4.6 | | | | | | |
| | | | | | | 2 | 27.7 | 8.2 | 25.7 | 4.6 | 67.5 | 2.3 | 3.5 | | | | | | | |
| | | TCE-WQM2b | Misty | Moderate | 14:11 | 9.2 | Surface | 1.0 | 1 | 28.1 | 8.2 | 24.6 | 4.9 | 72.4 | 1.0 | 2.6 | 4.9 | 1.3 | 3.3 | |
| | | | | | | | | 2 | 28.1 | 8.2 | 24.6 | 4.9 | 72.4 | 1.0 | 2.4 | | | | | |
| | Middle | | | | | | 4.6 | 1 | 28.0 | 8.2 | 24.8 | 4.9 | 71.9 | 1.4 | 3.3 | | | | | |
| | Bottom | | | | | | 8.2 | 1 | 28.0 | 8.2 | 24.8 | 4.9 | 71.9 | 1.3 | 3.6 | | | | | |
| | | | | | 2 | 28.0 | 8.2 | 24.9 | 5.0 | 73.7 | 1.7 | 3.8 | 5.0 | | | | | | | |
| | | | | | 2 | 28.0 | 8.2 | 24.9 | 5.0 | 73.9 | 1.7 | 4.2 | | | | | | | | |
| | TCE-WQM3A | Misty | Moderate | 13:48 | 3.8 | Surface | 1.0 | 1 | 28.5 | 8.1 | 23.8 | 4.7 | 68.6 | 0.9 | 4.4 | 4.7 | 2.0 | 3.8 | | |
| | | | | | | | | 2 | 28.5 | 8.1 | 23.8 | 4.7 | 68.5 | 1.0 | 4.8 | | | | | |
| | | | | | | Bottom | 2.8 | 1 | 28.1 | 8.1 | 24.9 | 4.5 | 66.1 | 3.0 | 2.8 | | | | | |
| | | | | | | | | 2 | 28.1 | 8.1 | 24.9 | 4.5 | 66.2 | 3.0 | 3.2 | | | | | |
| | | | | | 2 | 28.0 | 8.2 | 24.9 | 5.0 | 73.7 | 1.7 | 3.8 | 4.5 | | | | | | | |
| | | | | | 2 | 28.0 | 8.2 | 24.9 | 5.0 | 73.9 | 1.7 | 4.2 | | | | | | | | |
| | TCE-WQM4 | Misty | Moderate | 13:37 | 4.4 | Surface | 1.0 | 1 | 29.0 | 8.1 | 23.7 | 4.9 | 73.1 | 1.1 | 2.4 | 4.9 | 1.3 | 2.6 | | |
| | | | | | | | | 2 | 29.0 | 8.1 | 23.7 | 4.9 | 73.1 | 1.1 | 2.0 | | | | | |
| | | | | | | Bottom | 3.4 | 1 | 28.9 | 8.1 | 23.8 | 4.8 | 71.0 | 1.5 | 2.8 | | | | | |
| | | | | | | | | 2 | 28.9 | 8.1 | 23.8 | 4.8 | 71.1 | 1.5 | 3.2 | | | | | |
| | | | | | 2 | 28.9 | 8.1 | 24.0 | 5.1 | 76.0 | 1.1 | 4.3 | 4.8 | | | | | | | |
| | | | | | 2 | 28.9 | 8.1 | 24.0 | 5.1 | 76.0 | 1.1 | 4.1 | | | | | | | | |
| | 2023-08-18 | Mid-Flood | TCE-C1 | Rainy | Moderate | 9:11 | 9.0 | Surface | 1.0 | 1 | 28.9 | 8.1 | 24.0 | 5.1 | 76.0 | 1.1 | 4.3 | 5.1 | 1.7 | 4.7 |
| | | | | | | | | | | 2 | 28.9 | 8.1 | 24.0 | 5.1 | 76.0 | 1.1 | 4.1 | | | |
| | | | | | | | | Middle | 4.5 | 1 | 28.8 | 8.1 | 24.1 | 5.1 | 76.0 | 1.4 | 4.7 | | | |
| | | | | | | | | Bottom | 8.0 | 1 | 28.9 | 8.1 | 24.1 | 5.2 | 76.3 | 2.6 | 5.3 | | | |
| | | | | | | | 2 | 28.9 | 8.1 | 24.1 | 5.2 | 76.4 | 2.6 | 5.0 | 5.2 | | | | | |
| | | | TCE-C2 | Rainy | Moderate | 7:37 | 10.0 | Surface | 1.0 | 1 | 27.9 | 8.0 | 25.0 | 5.2 | 76.1 | 1.0 | 3.4 | 5.0 | 2.1 | 4.4 |
| | | | | | | | | | | 2 | 27.9 | 8.0 | 25.1 | 5.1 | 75.2 | 1.0 | 3.0 | | | |
| Middle | | | | | | | | 5.0 | 1 | 27.5 | 7.9 | 26.0 | 4.9 | 71.4 | 2.0 | 4.5 | | | | |
| Bottom | | | | | | | | 9.0 | 1 | 27.2 | 7.9 | 26.1 | 4.9 | 71.5 | 2.0 | 4.3 | | | | |
| | | | | | | 2 | 27.2 | 7.9 | 27.0 | 5.0 | 72.9 | 3.2 | 5.4 | 5.0 | | | | | | |
| | | | | | | 2 | 27.2 | 7.9 | 26.9 | 5.0 | 73.3 | 3.2 | 5.8 | | | | | | | |
| TCE-WQM1 | | | Rainy | Moderate | 8:56 | 8.2 | Surface | 1.0 | 1 | 28.9 | 8.1 | 24.0 | 5.2 | 77.1 | 1.3 | 4.8 | 5.3 | 2.5 | 3.9 | |
| | | | | | | | | | 2 | 28.9 | 8.1 | 24.1 | 5.2 | 77.2 | 1.3 | 4.3 | | | | |
| | | | | | | | Middle | 4.1 | 1 | 28.8 | 8.1 | 24.2 | 5.3 | 78.4 | 2.6 | 4.0 | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 28.8 | 8.1 | 24.2 | 5.3 | 78.6 | 2.5 | 3.6 | | | | |
| | | | | | | 2 | 28.8 | 8.1 | 24.2 | 5.4 | 80.0 | 3.7 | 3.3 | 5.4 | | | | | | |
| | | | | | | 2 | 28.8 | 8.1 | 24.2 | 5.4 | 80.3 | 3.8 | 3.2 | | | | | | | |
| TCE-WQM2a | | | Rainy | Moderate | 8:19 | 8.2 | Surface | 1.0 | 1 | 28.1 | 8.1 | 24.5 | 5.2 | 75.6 | 0.8 | 4.5 | 5.0 | 1.0 | 3.9 | |
| | | | | | | | | | 2 | 28.1 | 8.1 | 24.5 | 5.2 | 75.6 | 0.8 | 4.8 | | | | |
| | | | | | | | Middle | 4.1 | 1 | 27.7 | 8.0 | 25.6 | 4.8 | 69.9 | 1.1 | 4.0 | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 27.7 | 8.0 | 25.6 | 4.8 | 69.9 | 1.1 | 3.7 | | | | |
| | | | | | | 2 | 27.6 | 8.0 | 25.7 | 4.8 | 70.7 | 1.2 | 3.1 | 4.8 | | | | | | |
| | | | | | | 2 | 27.7 | 8.0 | 25.6 | 4.8 | 70.9 | 1.2 | 3.5 | | | | | | | |
| TCE-WQM2b | | | Rainy | Moderate | 8:07 | 10.8 | Surface | 1.0 | 1 | 28.1 | 8.1 | 24.6 | 5.2 | 75.7 | 0.0 | 2.4 | 5.0 | 0.4 | 3.2 | |
| | | | | | | | | 2 | 28.1 | 8.1 | 24.7 | 5.2 | 75.5 | 0.0 | 2.7 | | | | | |
| | | Middle | | | | | 5.4 | 1 | 27.7 | 8.0 | 25.6 | 4.8 | 70.0 | 0.1 | 3.2 | | | | | |
| | | Bottom | | | | | 9.8 | 1 | 27.7 | 8.0 | 25.6 | 4.8 | 70.0 | 0.1 | 3.0 | | | | | |
| | | | | | 2 | 27.6 | 8.0 | 25.8 | 4.8 | 70.8 | 1.0 | 3.8 | 4.8 | | | | | | | |
| | | | | | 2 | 27.7 | 8.0 | 25.6 | 4.8 | 71.0 | 1.0 | 4.1 | | | | | | | | |
| TCE-WQM3A | | Rainy | Moderate | 8:30 | 4.0 | Surface | 1.0 | 1 | 27.8 | 8.2 | 24.9 | 4.9 | 70.9 | 1.0 | 3.6 | 4.9 | 1.1 | 4.0 | | |
| | | | | | | | | 2 | 27.7 | 8.2 | 25.0 | 4.9 | 70.9 | 1.0 | 3.2 | | | | | |
| | | | | | | Bottom | 3.0 | 1 | 26.9 | 8.2 | 27.3 | 5.0 | 73.0 | 1.1 | 4.5 | | | | | |
| | | | | | | | | 2 | 26.9 | 8.2 | 27.3 | 5.0 | 73.4 | 1.1 | 4.8 | | | | | |
| | | | | | 2 | 26.9 | 8.2 | 27.3 | 5.0 | 73.0 | 1.1 | 4.5 | 5.0 | | | | | | | |
| | | | | | 2 | 26.9 | 8.2 | 27.3 | 5.0 | 73.4 | 1.1 | 4.8 | | | | | | | | |
| TCE-WQM4 | | Rainy | Moderate | 8:39 | 4.0 | Surface | 1.0 | 1 | 28.5 | 8.1 | 23.7 | 5.0 | 73.0 | 1.4 | 5.6 | 5.0 | 1.9 | 4.5 | | |
| | | | | | | | | 2 | 28.5 | 8.1 | 23.7 | 5.0 | 73.1 | 1.5 | 5.3 | | | | | |
| | | | | | | Bottom | 3.0 | 1 | 28.4 | 8.1 | 24.2 | 5.0 | 73.5 | 2.3 | 3.7 | | | | | |
| | | | | | | | | 2 | 28.4 | 8.1 | 24.2 | 5.0 | 73.7 | 2.3 | 3.3 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 2023-08-21 | Mid-Ebb | TCE-C1 | Fine | Rough | 14:06 | 7.9 | Surface | 1.0 | 1 | 28.4 | 8.0 | 23.9 | 5.0 | 73.9 | 1.3 | 2.3 | 5.0 | 2.3 | 2.4 |
| | | | | | | | | | 2 | 28.4 | 8.0 | 23.9 | 5.0 | 73.8 | 1.3 | 2.2 | | | |
| | | | | | | | Middle | 4.0 | 1 | 28.4 | 8.0 | 23.9 | 4.9 | 71.8 | 2.6 | 2.2 | | | |
| | | | | | | | Bottom | 6.9 | 1 | 27.9 | 7.9 | 24.8 | 4.5 | 66.2 | 3.0 | 2.8 | | | |
| | | | | 2 | 27.9 | 7.9 | 24.8 | 4.5 | 66.2 | 3.0 | 2.6 | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 16:14 | 13.1 | Surface | 1.0 | 1 | 26.4 | 8.2 | 28.3 | 4.4 | 63.5 | 2.5 | 2.5 | 4.2 | 4.2 | 2.7 |
| | | | | | | | | | 2 | 26.4 | 8.2 | 28.3 | 4.4 | 63.5 | 2.6 | 2.3 | | | |
| | | | | | | | Middle | 6.6 | 1 | 25.8 | 8.1 | 29.2 | 4.1 | 59.5 | 3.7 | 2.8 | | | |
| | | | | | | | Bottom | 12.1 | 1 | 25.1 | 8.1 | 29.2 | 4.1 | 59.5 | 3.8 | 2.6 | | | |
| | | | | 2 | 25.1 | 8.1 | 30.3 | 3.9 | 55.4 | 6.4 | 3.1 | | | | | | | | |
| | | | | 2 | 25.1 | 8.1 | 30.3 | 3.9 | 55.4 | 6.4 | 2.8 | | | | | | | | |
| | | TCE-WQM1 | Fine | Calm | 14:57 | 10.1 | Surface | 1.0 | 1 | 28.5 | 8.0 | 23.9 | 5.0 | 73.6 | 3.8 | 3.1 | 4.7 | 5.1 | 2.4 |
| | | | | | | | | 2 | 28.5 | 8.0 | 23.9 | 5.0 | 73.6 | 3.8 | 2.7 | | | | |
| | Middle | | | | | | 5.1 | 1 | 28.5 | 8.0 | 23.9 | 4.4 | 64.2 | 5.2 | 2.2 | | | | |
| | Bottom | | | | | | 9.1 | 1 | 28.5 | 8.0 | 23.9 | 4.4 | 64.2 | 5.1 | 2.5 | | | | |
| | | | 2 | 28.3 | 7.9 | 24.1 | 4.2 | 61.5 | 6.4 | 2.1 | | | | | | | | | |
| | | | 2 | 28.3 | 7.9 | 24.1 | 4.2 | 61.5 | 6.4 | 2.0 | | | | | | | | | |
| | TCE-WQM2a | Fine | Moderate | 15:34 | 7.4 | Surface | 1.0 | 1 | 28.4 | 8.1 | 23.8 | 4.9 | 72.6 | 3.1 | 3.5 | 4.5 | 4.0 | 2.9 | |
| | | | | | | | | 2 | 28.4 | 8.1 | 23.8 | 4.9 | 72.6 | 3.1 | 3.2 | | | | |
| | | | | | | Middle | 3.7 | 1 | 26.7 | 8.2 | 27.1 | 4.1 | 59.4 | 5.7 | 2.7 | | | | |
| | | | | | | Bottom | 6.4 | 1 | 26.7 | 8.2 | 27.1 | 4.1 | 59.4 | 5.7 | 3.0 | | | | |
| | | | 2 | 26.1 | 8.2 | 28.5 | 4.0 | 58.6 | 3.2 | 2.5 | | | | | | | | | |
| | | | 2 | 26.1 | 8.2 | 28.5 | 4.0 | 58.6 | 3.2 | 2.3 | | | | | | | | | |
| | TCE-WQM2b | Fine | Moderate | 15:49 | 9.7 | Surface | 1.0 | 1 | 28.3 | 8.1 | 24.1 | 5.1 | 74.7 | 1.4 | 2.1 | 4.8 | 1.4 | 2.7 | |
| | | | | | | | 2 | 28.3 | 8.1 | 24.1 | 5.1 | 74.7 | 1.4 | 2.3 | | | | | |
| Middle | | | | | | 4.9 | 1 | 27.6 | 8.2 | 25.6 | 4.5 | 65.5 | 1.5 | 2.8 | | | | | |
| Bottom | | | | | | 8.7 | 1 | 27.6 | 8.2 | 25.6 | 4.5 | 65.4 | 1.5 | 2.5 | | | | | |
| | | 2 | 25.9 | 8.2 | 28.9 | 4.0 | 58.2 | 1.3 | 3.0 | | | | | | | | | | |
| | | 2 | 25.9 | 8.2 | 28.9 | 4.0 | 58.3 | 1.3 | 3.4 | | | | | | | | | | |
| TCE-WQM3A | Fine | Calm | 15:24 | 5.3 | Surface | 1.0 | 1 | 28.4 | 8.0 | 23.7 | 4.9 | 71.5 | 1.2 | 2.2 | 4.9 | 1.8 | 2.6 | | |
| | | | | | | | 2 | 28.4 | 8.0 | 23.7 | 4.9 | 71.5 | 1.2 | 2.4 | | | | | |
| | | | | | Bottom | 4.3 | 1 | 28.2 | 8.0 | 23.9 | 4.7 | 68.5 | 2.4 | 2.9 | | | | | |
| | | 2 | 28.2 | 8.0 | 23.9 | 4.7 | 68.5 | 2.4 | 2.8 | | | | | | | | | | |
| TCE-WQM4 | Fine | Calm | 15:13 | 4.8 | Surface | 1.0 | 1 | 28.4 | 8.0 | 23.7 | 5.3 | 77.8 | 1.2 | 3.9 | 5.3 | 2.5 | 2.8 | | |
| | | | | | | | 2 | 28.4 | 8.0 | 23.7 | 5.3 | 77.8 | 1.2 | 2.6 | | | | | |
| | | | | | Bottom | 3.8 | 1 | 28.1 | 7.9 | 24.1 | 5.0 | 73.1 | 3.7 | 2.1 | | | | | |
| | | | | | | | 2 | 28.1 | 7.9 | 24.1 | 5.0 | 73.1 | 3.7 | 2.4 | | | | | |
| 2023-08-21 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 10:18 | 7.4 | Surface | 1.0 | 1 | 28.6 | 8.0 | 23.1 | 5.2 | 75.8 | 1.0 | 1.8 | 5.1 | 1.9 | 2.1 |
| | | | | | | | | | 2 | 28.6 | 8.0 | 23.1 | 5.2 | 75.8 | 1.0 | 1.7 | | | |
| | | | | | | | Middle | 3.7 | 1 | 28.5 | 8.0 | 23.2 | 5.1 | 74.9 | 2.2 | 2.1 | | | |
| | | | | | | | Bottom | 6.4 | 1 | 28.5 | 8.0 | 23.2 | 5.1 | 74.9 | 2.2 | 2.3 | | | |
| | | | | 2 | 27.9 | 8.0 | 24.5 | 4.9 | 71.8 | 2.6 | 2.6 | | | | | | | | |
| | | | | 2 | 27.9 | 7.9 | 24.6 | 4.9 | 71.9 | 2.6 | 2.3 | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 8:09 | 12.4 | Surface | 1.0 | 1 | 26.3 | 8.0 | 28.1 | 4.1 | 58.8 | 2.9 | 1.5 | 4.0 | 3.8 | 2.4 |
| | | | | | | | | | 2 | 26.3 | 8.0 | 28.1 | 4.0 | 58.6 | 2.9 | 1.8 | | | |
| | | | | | | | Middle | 6.2 | 1 | 24.7 | 8.1 | 30.8 | 3.9 | 55.7 | 3.7 | 2.2 | | | |
| | | | | | | | Bottom | 11.4 | 1 | 24.7 | 8.1 | 30.8 | 3.9 | 55.8 | 3.6 | 2.4 | | | |
| | | | | 2 | 24.7 | 8.1 | 30.9 | 3.5 | 49.8 | 4.8 | 2.9 | | | | | | | | |
| | | | | 2 | 24.7 | 8.1 | 30.9 | 3.5 | 49.8 | 4.8 | 3.4 | | | | | | | | |
| | TCE-WQM1 | Cloudy | Moderate | 9:18 | 9.6 | Surface | 1.0 | 1 | 27.9 | 8.2 | 24.7 | 4.6 | 66.6 | 1.2 | 2.3 | 4.3 | 2.6 | 2.6 | |
| | | | | | | | | 2 | 27.9 | 8.2 | 24.7 | 4.6 | 66.5 | 1.2 | 2.1 | | | | |
| | | | | | | Middle | 4.8 | 1 | 27.0 | 8.2 | 26.7 | 4.1 | 59.2 | 2.3 | 2.6 | | | | |
| | | | | | | Bottom | 8.6 | 1 | 27.0 | 8.2 | 26.7 | 4.1 | 59.2 | 2.3 | 2.4 | | | | |
| | | | 2 | 26.2 | 8.2 | 28.4 | 3.8 | 54.6 | 4.3 | 2.9 | | | | | | | | | |
| | | | 2 | 26.2 | 8.2 | 28.4 | 3.8 | 54.7 | 4.3 | 3.2 | | | | | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 8:41 | 6.8 | Surface | 1.0 | 1 | 27.6 | 8.2 | 25.4 | 4.5 | 65.6 | 1.7 | 3.0 | 4.2 | 2.3 | 2.3 | |
| | | | | | | | | 2 | 27.6 | 8.2 | 25.4 | 4.5 | 65.6 | 1.7 | 2.8 | | | | |
| | | | | | | Middle | 3.4 | 1 | 25.6 | 8.2 | 29.3 | 3.9 | 55.8 | 1.8 | 2.5 | | | | |
| | | | | | | Bottom | 5.8 | 1 | 25.6 | 8.2 | 29.3 | 3.9 | 55.8 | 1.9 | 2.2 | | | | |
| | | | 2 | 25.5 | 8.2 | 29.6 | 4.0 | 57.9 | 3.5 | 1.6 | | | | | | | | | |
| | | | 2 | 25.5 | 8.2 | 29.6 | 4.0 | 58.1 | 3.5 | 1.8 | | | | | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 8:29 | 9.3 | Surface | 1.0 | 1 | 26.8 | 8.0 | 27.3 | 4.2 | 60.7 | 1.4 | 1.8 | 4.0 | 3.5 | 2.2 | | |
| | | | | | | | 2 | 26.8 | 8.0 | 27.2 | 4.2 | 60.6 | 1.5 | 1.9 | | | | | |
| | | | | | Middle | 4.7 | 1 | 25.8 | 8.0 | 29.1 | 3.8 | 55.4 | 3.1 | 2.3 | | | | | |
| | | | | | Bottom | 8.3 | 1 | 25.8 | 8.0 | 29.1 | 3.8 | 55.3 | 3.2 | 2.1 | | | | | |
| | | 2 | 25.2 | 8.1 | 30.0 | 3.7 | 53.2 | 5.8 | 2.5 | | | | | | | | | | |
| | | 2 | 25.2 | 8.1 | 30.0 | 3.7 | 53.2 | 5.8 | 2.7 | | | | | | | | | | |
| TCE-WQM3A | Cloudy | Moderate | 8:55 | 5.1 | Surface | 1.0 | 1 | 28.5 | 8.1 | 23.6 | 4.9 | 72.5 | 2.3 | 1.7 | 4.9 | 3.1 | 2.1 | | |
| | | | | | | | 2 | 28.5 | 8.1 | 23.6 | 4.9 | 72.5 | 2.3 | 1.9 | | | | | |
| | | | | | Bottom | 4.1 | 1 | 26.8 | 8.1 | 27.2 | 4.2 | 61.7 | 3.8 | 2.2 | | | | | |
| | | 2 | 26.8 | 8.1 | 27.2 | 4.2 | 61.7 | 3.9 | 2.5 | | | | | | | | | | |
| TCE-WQM4 | Cloudy | Moderate | 9:06 | 4.2 | Surface | 1.0 | 1 | 29.0 | 8.0 | 23.1 | 5.4 | 79.4 | 3.4 | 2.8 | 5.4 | 3.9 | 2.4 | | |
| | | | | | | | 2 | 29.0 | 8.0 | 23.1 | 5.4 | 79.4 | 3.5 | 2.5 | | | | | |
| | | | | | Bottom | 3.2 | 1 | 28.5 | 8.1 | 23.8 | 5.2 | 76.3 | 4.3 | 2.3 | | | | | |
| | | | | | | | 2 | 28.5 | 8.1 | 23.8 | 5.2 | 76.3 | 4.3 | 2.1 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | |
| 2023-08-23 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 15:11 | 8.1 | Surface | 1.0 | 1 | 27.9 | 7.9 | 22.9 | 5.0 | 71.7 | 2.0 | 3.4 | 4.9 | 2.1 | 3.0 | | | | |
| | | | | | | | | | 2 | 27.9 | 7.9 | 22.9 | 5.0 | 71.7 | 2.0 | 3.9 | | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 27.9 | 7.9 | 23.0 | 4.9 | 71.2 | 2.1 | 2.8 | | | | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 27.9 | 7.9 | 23.0 | 4.9 | 71.3 | 2.4 | 2.5 | | | | | | | |
| | | | | | | 2 | 27.9 | 7.9 | 23.0 | 4.9 | 71.4 | 2.4 | 2.2 | 4.9 | 3.7 | 3.0 | | | | | | | |
| | | TCE-C2 | Sunny | Moderate | 17:19 | 13.2 | Surface | 1.0 | 1 | 27.7 | 7.9 | 24.8 | 4.9 | | | | 71.1 | 2.1 | 2.5 | | | | |
| | | | | | | 2 | 27.7 | 7.9 | 24.8 | 4.9 | 71.1 | 2.1 | 2.2 | | | | | | | | | | |
| | | Middle | 6.6 | 1 | 26.3 | 7.9 | 27.2 | 4.5 | 64.7 | 3.4 | 3.2 | | | | | | | | | | | | |
| | | | | | | 2 | 26.3 | 7.9 | 27.2 | 4.5 | 64.7 | 3.4 | 2.9 | 4.1 | 2.6 | 2.4 | | | | | | | |
| | | Bottom | 12.2 | 1 | 25.0 | 7.9 | 29.6 | 4.1 | 58.6 | 5.7 | 3.9 | | | | | | | | | | | | |
| | | | | | | 2 | 25.0 | 7.9 | 29.6 | 4.1 | 58.6 | 5.7 | 3.4 | | | | | | | | | | |
| | | TCE-WQM1 | Sunny | Calm | 16:02 | 9.8 | Surface | 1.0 | 1 | 28.2 | 7.9 | 23.3 | 5.0 | | | | 73.4 | 1.0 | 2.8 | | | | |
| | | | | | 2 | 28.2 | 7.9 | 23.3 | 5.0 | 73.4 | 1.0 | 3.0 | 4.9 | 2.8 | 1.7 | | | | | | | | |
| | Middle | 4.9 | 1 | 28.0 | 7.9 | 23.7 | 4.7 | 68.4 | 3.3 | 2.4 | | | | | | | | | | | | | |
| | | | | | 2 | 28.0 | 7.9 | 23.7 | 4.7 | 68.4 | 3.3 | 2.6 | | | | | | | | | | | |
| | Bottom | 8.8 | 1 | 27.6 | 7.9 | 24.5 | 4.6 | 67.3 | 3.6 | 1.5 | | | | | | | | | | | | | |
| | | | | | 2 | 27.6 | 7.9 | 24.5 | 4.6 | 67.3 | 3.6 | 1.9 | 4.7 | 2.6 | 2.7 | | | | | | | | |
| | TCE-WQM2a | Sunny | Calm | 16:40 | 7.3 | Surface | 1.0 | 1 | 28.3 | 7.9 | 22.9 | 5.2 | | | | 75.3 | 1.5 | 1.1 | | | | | |
| | | | | | 2 | 28.3 | 7.9 | 22.9 | 5.2 | 75.3 | 1.5 | 1.2 | | | | | | | | | | | |
| | Middle | 3.7 | 1 | 27.2 | 7.9 | 24.8 | 4.3 | 62.3 | 1.5 | 1.8 | | | | | | | | | | | | | |
| | | | | | 2 | 27.2 | 7.9 | 24.8 | 4.3 | 62.3 | 1.5 | 1.6 | 4.0 | 2.0 | 2.8 | | | | | | | | |
| | Bottom | 6.3 | 1 | 26.3 | 7.9 | 26.9 | 4.0 | 58.2 | 5.4 | 2.3 | | | | | | | | | | | | | |
| | | | | | 2 | 26.3 | 7.9 | 26.9 | 4.0 | 58.3 | 5.4 | 2.1 | | | | | | | | | | | |
| | TCE-WQM2b | Sunny | Moderate | 16:54 | 10.2 | Surface | 1.0 | 1 | 28.4 | 7.9 | 22.0 | 5.3 | | | | 77.2 | 1.2 | 1.9 | | | | | |
| | | | | 2 | 28.4 | 7.9 | 22.0 | 5.3 | 77.2 | 1.2 | 1.6 | 4.9 | 2.0 | 2.8 | | | | | | | | | |
| Middle | 5.1 | 1 | 27.2 | 7.9 | 24.5 | 4.5 | 65.2 | 1.1 | 2.7 | | | | | | | | | | | | | | |
| | | | | 2 | 27.2 | 7.9 | 24.5 | 4.5 | 65.2 | 1.2 | 2.4 | | | | | | | | | | | | |
| Bottom | 9.2 | 1 | 25.9 | 7.9 | 27.6 | 4.1 | 59.4 | 5.3 | 4.0 | | | | | | | | | | | | | | |
| | | | | 2 | 25.9 | 7.9 | 27.6 | 4.1 | 59.5 | 5.4 | 3.6 | 5.1 | 4.4 | 2.4 | | | | | | | | | |
| TCE-WQM3A | Sunny | Calm | 16:26 | 4.7 | Surface | 1.0 | 1 | 28.2 | 7.9 | 23.0 | 5.1 | | | | 74.3 | 2.9 | 2.0 | | | | | | |
| | | | | 2 | 28.2 | 7.9 | 23.0 | 5.1 | 74.3 | 2.9 | 2.3 | | | | | | | | | | | | |
| Bottom | 3.7 | 1 | 26.7 | 7.9 | 26.0 | 4.4 | 63.8 | 5.9 | 2.5 | | | | | | | | | | | | | | |
| | | | | 2 | 26.7 | 7.9 | 26.0 | 4.4 | 63.7 | 5.9 | 2.8 | 4.9 | 2.0 | 2.8 | | | | | | | | | |
| TCE-WQM4 | Sunny | Calm | 16:16 | 4.1 | Surface | 1.0 | 1 | 28.0 | 7.9 | 22.8 | 4.9 | | | | 71.6 | 1.7 | 3.3 | | | | | | |
| | | | | 2 | 28.0 | 7.9 | 22.8 | 4.9 | 71.6 | 1.7 | 3.5 | | | | | | | | | | | | |
| Bottom | 3.1 | 1 | 27.7 | 7.9 | 23.6 | 4.7 | 68.7 | 2.4 | 2.2 | | | | | | | | | | | | | | |
| | | | | 2 | 27.7 | 7.9 | 23.6 | 4.7 | 68.7 | 2.4 | 2.0 | 4.7 | 4.3 | 2.5 | | | | | | | | | |
| 2023-08-23 | Mid-Flood | TCE-C1 | Sunny | Moderate | 11:55 | 7.8 | Surface | 1.0 | 1 | 28.1 | 7.9 | | | | 22.5 | 5.0 | 72.9 | 2.0 | 3.1 | 5.0 | 4.3 | 2.5 | |
| | | | | | | | | | | 2 | 28.1 | | | | 7.9 | 22.5 | 5.0 | 72.9 | 2.0 | | | | 3.6 |
| Middle | | | | | | | 3.9 | 1 | 28.0 | 7.9 | 22.7 | | | | 4.9 | 71.6 | 3.9 | 2.2 | | | | | |
| Bottom | | | | | | | 6.8 | 1 | 27.9 | 7.9 | 23.1 | 4.9 | 70.5 | 6.8 | 1.5 | | | | | | | | |
| | | | | | 2 | 27.9 | 7.9 | 23.1 | 4.9 | 70.6 | 6.8 | 1.8 | 4.2 | 3.0 | 4.1 | | | | | | | | |
| TCE-C2 | | Sunny | Calm | 9:43 | 12.9 | Surface | 1.0 | 1 | 26.8 | 7.9 | 25.6 | 4.4 | | | | 64.1 | 0.9 | 2.8 | | | | | |
| | | | | | 2 | 26.8 | 7.9 | 25.6 | 4.4 | 64.1 | 0.9 | 3.2 | | | | | | | | | | | |
| Middle | | 6.5 | 1 | 26.0 | 7.9 | 27.6 | 4.1 | 58.3 | 1.2 | 3.8 | | | | | | | | | | | | | |
| | | | | | 2 | 26.0 | 7.9 | 27.6 | 4.1 | 58.3 | 1.2 | 4.2 | 3.9 | 1.7 | 4.5 | | | | | | | | |
| Bottom | | 11.9 | 1 | 24.7 | 7.9 | 30.2 | 3.9 | 55.2 | 6.8 | 5.0 | | | | | | | | | | | | | |
| | | | | | 2 | 24.7 | 7.9 | 30.2 | 3.9 | 55.3 | 6.9 | 5.4 | | | | | | | | | | | |
| TCE-WQM1 | | Sunny | Calm | 11:01 | 8.6 | Surface | 1.0 | 1 | 27.9 | 7.9 | 23.2 | 4.8 | | | | 70.1 | 1.7 | 5.6 | | | | | |
| | | | | | 2 | 27.9 | 7.9 | 23.2 | 4.8 | 70.1 | 1.7 | 5.2 | 4.6 | 4.2 | 3.6 | | | | | | | | |
| Middle | | 4.3 | 1 | 27.3 | 7.9 | 24.6 | 4.3 | 62.5 | 1.2 | 4.3 | | | | | | | | | | | | | |
| | | | | | 2 | 27.3 | 7.9 | 24.6 | 4.3 | 62.5 | 1.2 | 4.6 | | | | | | | | | | | |
| Bottom | | 7.6 | 1 | 27.0 | 7.9 | 25.4 | 4.0 | 58.4 | 2.2 | 3.6 | | | | | | | | | | | | | |
| | | | | | 2 | 27.0 | 7.9 | 25.4 | 4.0 | 58.4 | 2.2 | 3.4 | 4.2 | 3.2 | 3.2 | | | | | | | | |
| TCE-WQM2a | | Sunny | Calm | 10:20 | 6.7 | Surface | 1.0 | 1 | 26.8 | 7.9 | 25.3 | 4.3 | | | | 61.8 | 3.3 | 3.0 | | | | | |
| | | | | | 2 | 26.8 | 7.9 | 25.3 | 4.3 | 61.8 | 3.3 | 3.2 | | | | | | | | | | | |
| Middle | | 3.4 | 1 | 26.3 | 7.9 | 26.5 | 4.1 | 58.3 | 5.3 | 3.7 | | | | | | | | | | | | | |
| | | | | | 2 | 26.3 | 7.9 | 26.5 | 4.1 | 58.3 | 5.3 | 3.4 | 3.9 | 2.7 | 4.5 | | | | | | | | |
| Bottom | | 5.7 | 1 | 25.6 | 7.9 | 28.2 | 3.9 | 55.3 | 4.0 | 4.1 | | | | | | | | | | | | | |
| | | | | | 2 | 25.6 | 7.9 | 28.2 | 3.9 | 55.4 | 4.0 | 4.3 | | | | | | | | | | | |
| TCE-WQM2b | | Sunny | Calm | 10:08 | 9.6 | Surface | 1.0 | 1 | 27.3 | 7.9 | 24.5 | 4.7 | | | | 68.6 | 2.4 | 2.3 | | | | | |
| | | | | 2 | 27.3 | 7.9 | 24.5 | 4.7 | 68.6 | 2.4 | 2.0 | 4.6 | 2.9 | 2.8 | | | | | | | | | |
| Middle | 4.8 | 1 | 26.8 | 7.9 | 25.6 | 4.4 | 63.5 | 3.1 | 3.7 | | | | | | | | | | | | | | |
| | | | | 2 | 26.8 | 7.9 | 25.6 | 4.4 | 63.5 | 3.1 | 3.3 | | | | | | | | | | | | |
| Bottom | 8.6 | 1 | 26.0 | 7.9 | 27.5 | 4.1 | 58.8 | 4.1 | 4.2 | | | | | | | | | | | | | | |
| | | | | 2 | 26.0 | 7.9 | 27.5 | 4.1 | 58.9 | 4.1 | 3.8 | 4.9 | 2.7 | 4.5 | | | | | | | | | |
| TCE-WQM3A | Sunny | Calm | 10:33 | 4.6 | Surface | 1.0 | 1 | 27.5 | 7.9 | 23.6 | 4.9 | | | | 70.3 | 1.3 | 3.5 | | | | | | |
| | | | | 2 | 27.5 | 7.9 | 23.6 | 4.9 | 70.3 | 1.3 | 3.2 | | | | | | | | | | | | |
| Bottom | 3.6 | 1 | 26.6 | 7.9 | 25.8 | 4.7 | 67.8 | 4.1 | 5.7 | | | | | | | | | | | | | | |
| | | | | 2 | 26.6 | 7.9 | 25.8 | 4.7 | 67.8 | 4.2 | 5.4 | 4.9 | 2.9 | 2.8 | | | | | | | | | |
| TCE-WQM4 | Sunny | Calm | 10:46 | 3.7 | Surface | 1.0 | 1 | 27.7 | 7.9 | 23.3 | 4.9 | | | | 70.8 | 2.0 | 2.4 | | | | | | |
| | | | | 2 | 27.7 | 7.9 | 23.3 | 4.9 | 70.8 | 1.9 | 2.2 | | | | | | | | | | | | |
| Bottom | 2.7 | 1 | 26.7 | 7.9 | 25.6 | 4.3 | 62.6 | 3.8 | 3.5 | | | | | | | | | | | | | | |
| | | | | 2 | 26.7 | 7.9 | 25.6 | 4.3 | 62.6 | 3.8 | 3.1 | | | | | | | | | | | | |

Water Quality Monitoring for Tung Chung New Town Extension (East)

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|--|--|--|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | |
| 2023-08-25 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 8:40 | 9.0 | Surface | 1.0 | 1 | 28.9 | 8.1 | 25.3 | 8.1 | 121.0 | 2.5 | 1.1 | 6.5 | 4.0 | 1.4 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Middle | 4.5 | 1 | 27.6 | 7.9 | 28.0 | 4.9 | 73.1 | 4.0 | 1.1 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Bottom | 8.0 | 1 | 27.5 | 7.8 | 28.8 | 4.3 | 63.9 | 5.5 | 1.3 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | 2023-08-25 | Mid-Flood | TCE-C1 | Misty | Moderate | 17:48 | 8.0 | Surface | 1.0 | 1 | 28.9 | 8.1 | 25.3 | 8.0 | 119.2 | 3.1 | 1.0 | 6.7 | 4.7 | 1.7 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Middle | 4.0 | 1 | 28.0 | 7.9 | 27.2 | 5.5 | 81.3 | 5.0 | 2.0 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Bottom | | | | | | | | 7.0 | 1 | 27.3 | 7.8 | 28.9 | 4.2 | 62.0 | 6.1 | 1.2 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|---------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 2023-08-28 | Mid-Ebb | TCE-C1 | Fine | Moderate | 9:03 | 8.0 | Surface | 1.0 | 1 | 28.7 | 8.2 | 23.3 | 7.6 | 111.5 | 3.6 | 2.8 | 5.6 | 4.4 | 2.2 |
| | | | | | | | | | 2 | 28.7 | 8.2 | 23.2 | 7.6 | 111.3 | 3.6 | 2.5 | | | |
| | | | | | | | Middle | 4.0 | 1 | 26.5 | 7.9 | 29.3 | 3.7 | 54.6 | 4.6 | 2.3 | | | |
| | | | | | | | Bottom | 7.0 | 1 | 26.3 | 7.9 | 29.3 | 3.7 | 54.6 | 4.6 | 2.0 | | | |
| | | | | | | 2 | 26.3 | 7.9 | 30.2 | 3.7 | 54.1 | 5.0 | 1.9 | 3.7 | | | | | |
| | | | | 2 | 26.3 | 7.9 | 30.2 | 3.7 | 54.3 | 5.0 | 1.7 | | | | | | | | |
| | | Surface | 1.0 | 1 | 27.9 | 7.9 | 25.4 | 5.4 | 78.7 | 1.7 | 2.1 | | | | | | | | |
| | | | | 2 | 27.9 | 7.9 | 25.5 | 5.3 | 78.5 | 1.6 | 2.4 | | | | | | | | |
| | | | | | | 1 | 27.5 | 7.9 | 26.2 | 4.7 | 69.2 | 2.1 | 1.8 | 5.0 | 2.3 | 1.9 | | | |
| | | | | 2 | 27.5 | 7.9 | 26.3 | 4.7 | 68.9 | 2.1 | 1.9 | | | | | | | | |
| | | Middle | 5.3 | 1 | 27.5 | 7.9 | 26.2 | 4.7 | 69.2 | 2.1 | 1.8 | | | | | | | | |
| | | Bottom | 9.6 | 1 | 27.2 | 7.9 | 27.5 | 4.6 | 67.6 | 3.0 | 1.6 | | | | | | | | |
| | | | | | 2 | 27.3 | 7.9 | 27.5 | 4.6 | 67.8 | 3.1 | 1.7 | 4.6 | | | | | | |
| | | | 2 | 27.3 | 7.9 | 27.5 | 4.6 | 67.8 | 3.1 | 1.7 | | | | | | | | | |
| | Surface | 1.0 | 1 | 29.1 | 8.2 | 23.6 | 8.1 | 120.5 | 3.1 | 1.6 | | | | | | | | | |
| | | | 2 | 29.1 | 8.2 | 23.6 | 8.1 | 120.4 | 3.2 | 1.8 | | | | | | | | | |
| | | | | | 1 | 27.0 | 7.9 | 28.4 | 3.8 | 55.6 | 5.6 | 2.1 | 6.0 | 4.6 | 2.2 | | | | |
| | | | 2 | 27.1 | 7.9 | 28.2 | 3.8 | 56.2 | 5.7 | 2.2 | | | | | | | | | |
| | Middle | 3.8 | 1 | 27.1 | 7.9 | 28.4 | 3.8 | 55.6 | 5.6 | 2.1 | | | | | | | | | |
| | Bottom | 6.6 | 1 | 26.6 | 7.9 | 29.6 | 3.9 | 56.7 | 5.0 | 2.5 | | | | | | | | | |
| | | | | | 2 | 26.6 | 7.9 | 29.6 | 3.9 | 57.1 | 5.0 | 2.8 | 3.9 | | | | | | |
| | | | 2 | 26.6 | 7.9 | 29.6 | 3.9 | 57.1 | 5.0 | 2.8 | | | | | | | | | |
| | Surface | 1.0 | 1 | 28.4 | 8.1 | 25.5 | 7.2 | 106.4 | 1.4 | 2.4 | | | | | | | | | |
| | | | 2 | 28.4 | 8.1 | 25.5 | 7.2 | 106.4 | 1.4 | 2.1 | | | | | | | | | |
| | | | | 1 | 27.8 | 8.1 | 26.3 | 6.2 | 90.5 | 2.4 | 2.5 | 6.7 | 2.4 | 2.7 | | | | | |
| | | 2 | 27.7 | 8.1 | 26.3 | 6.1 | 90.3 | 2.5 | 2.7 | | | | | | | | | | |
| Middle | 3.9 | 1 | 27.8 | 8.1 | 26.3 | 6.2 | 90.5 | 2.4 | 2.5 | | | | | | | | | | |
| Bottom | 6.8 | 1 | 27.1 | 7.9 | 28.3 | 4.5 | 66.8 | 3.3 | 3.5 | | | | | | | | | | |
| | | | | 2 | 27.1 | 7.9 | 28.3 | 4.5 | 66.6 | 3.3 | 3.1 | 4.5 | | | | | | | |
| | | 2 | 27.1 | 7.9 | 28.3 | 4.5 | 66.6 | 3.3 | 3.1 | | | | | | | | | | |
| Surface | 1.0 | 1 | 28.3 | 8.0 | 23.8 | 6.3 | 92.9 | 2.3 | 2.5 | | | | | | | | | | |
| | | 2 | 28.3 | 8.0 | 23.7 | 6.4 | 93.0 | 2.3 | 2.2 | | | | | | | | | | |
| | | | | 1 | 28.1 | 8.0 | 24.4 | 6.2 | 91.2 | 2.5 | 2.1 | 6.3 | 3.0 | 2.1 | | | | | |
| | | 2 | 28.1 | 8.0 | 24.5 | 6.2 | 91.2 | 2.6 | 2.3 | | | | | | | | | | |
| Middle | 4.5 | 1 | 28.1 | 8.0 | 24.4 | 6.2 | 91.2 | 2.5 | 2.1 | | | | | | | | | | |
| Bottom | 8.0 | 1 | 26.9 | 7.9 | 28.6 | 4.5 | 65.9 | 4.0 | 1.9 | | | | | | | | | | |
| | | | | 2 | 26.9 | 7.9 | 28.6 | 4.5 | 66.1 | 4.0 | 1.6 | 4.5 | | | | | | | |
| | | 2 | 26.9 | 7.9 | 28.6 | 4.5 | 66.1 | 4.0 | 1.6 | | | | | | | | | | |
| Surface | 1.0 | 1 | 28.8 | 8.1 | 24.2 | 7.7 | 114.0 | 3.0 | 1.4 | | | | | | | | | | |
| | | 2 | 28.8 | 8.1 | 24.2 | 7.7 | 113.8 | 3.0 | 1.6 | | | | | | | | | | |
| | | | | 1 | 28.6 | 8.1 | 24.7 | 7.1 | 105.2 | 4.4 | 0.6 | 7.7 | 3.7 | 1.1 | | | | | |
| | | 2 | 28.6 | 8.1 | 24.8 | 7.1 | 105.2 | 4.5 | 0.9 | | | | | | | | | | |
| Bottom | 3.0 | 1 | 28.6 | 8.1 | 24.7 | 7.1 | 105.2 | 4.4 | 0.6 | | | | | | | | | | |
| | | 2 | 28.6 | 8.1 | 24.8 | 7.1 | 105.2 | 4.5 | 0.9 | | | | | | | | | | |
| | | | | 1 | 28.6 | 8.1 | 24.8 | 7.0 | 103.5 | 3.1 | 1.2 | 7.0 | 4.0 | 1.1 | | | | | |
| | | 2 | 28.5 | 8.1 | 24.8 | 7.0 | 103.3 | 3.0 | 1.1 | | | | | | | | | | |
| Surface | 1.0 | 1 | 28.6 | 8.1 | 24.8 | 7.0 | 103.5 | 3.1 | 1.2 | | | | | | | | | | |
| | | 2 | 28.5 | 8.1 | 24.8 | 7.0 | 103.3 | 3.0 | 1.1 | | | | | | | | | | |
| | | | | 1 | 27.6 | 7.9 | 27.3 | 4.3 | 63.2 | 4.9 | 1.0 | 4.3 | | | | | | | |
| | | 2 | 27.6 | 7.9 | 27.4 | 4.3 | 62.8 | 4.9 | 1.2 | | | | | | | | | | |
| Bottom | 2.6 | 1 | 27.6 | 7.9 | 27.3 | 4.3 | 63.2 | 4.9 | 1.0 | | | | | | | | | | |
| | | 2 | 27.6 | 7.9 | 27.4 | 4.3 | 62.8 | 4.9 | 1.2 | | | | | | | | | | |
| 2023-08-28 | Mid-Flood | TCE-C1 | Fine | Moderate | 4:54 | 9.0 | Surface | 1.0 | 1 | 28.0 | 8.0 | 25.5 | 5.4 | 79.4 | 3.0 | 2.7 | 5.0 | 4.0 | 2.3 |
| | | | | | | | | | 2 | 28.0 | 8.0 | 25.5 | 5.4 | 79.5 | 3.0 | 3.0 | | | |
| | | | | | | | Middle | 4.5 | 1 | 27.5 | 7.9 | 26.8 | 4.7 | 68.7 | 3.9 | 2.5 | | | |
| | | | | | | | Bottom | 8.0 | 1 | 26.5 | 7.9 | 29.6 | 4.1 | 60.4 | 5.1 | 1.7 | | | |
| | | | | | | 2 | 26.5 | 7.9 | 29.6 | 4.1 | 60.7 | 5.1 | 1.9 | 4.1 | | | | | |
| | | | | 2 | 26.5 | 7.9 | 29.6 | 4.1 | 60.7 | 5.1 | 1.9 | | | | | | | | |
| | | Surface | 1.0 | 1 | 28.0 | 7.9 | 24.5 | 6.1 | 89.3 | 1.3 | 2.3 | | | | | | | | |
| | | | | 2 | 28.0 | 7.9 | 24.5 | 6.1 | 89.3 | 1.3 | 2.6 | | | | | | | | |
| | | | | | | 1 | 27.5 | 7.9 | 26.7 | 5.5 | 80.2 | 1.8 | 3.0 | 5.8 | 1.7 | 2.9 | | | |
| | | | | 2 | 27.5 | 7.9 | 26.8 | 5.5 | 80.2 | 1.8 | 2.7 | | | | | | | | |
| | | Middle | 5.4 | 1 | 27.5 | 7.9 | 26.7 | 5.5 | 80.2 | 1.8 | 3.0 | | | | | | | | |
| | | Bottom | 9.8 | 1 | 27.4 | 7.8 | 27.5 | 5.3 | 78.7 | 2.1 | 3.2 | | | | | | | | |
| | | | | | | 2 | 27.4 | 7.8 | 27.5 | 5.3 | 78.8 | 2.1 | 3.6 | 5.3 | | | | | |
| | | | | 2 | 27.4 | 7.8 | 27.5 | 5.3 | 78.8 | 2.1 | 3.6 | | | | | | | | |
| | | Surface | 1.0 | 1 | 28.9 | 8.2 | 23.9 | 7.8 | 115.5 | 3.0 | 2.5 | | | | | | | | |
| | | | | 2 | 28.9 | 8.2 | 23.9 | 7.8 | 114.8 | 3.0 | 2.8 | | | | | | | | |
| | | | | | | 1 | 26.8 | 7.9 | 29.1 | 3.9 | 57.9 | 3.8 | 2.2 | 5.9 | 3.8 | 2.3 | | | |
| | | | | 2 | 26.8 | 7.9 | 29.1 | 3.9 | 57.9 | 3.7 | 2.4 | | | | | | | | |
| | | Middle | 4.0 | 1 | 26.8 | 7.9 | 29.1 | 3.9 | 57.9 | 3.8 | 2.2 | | | | | | | | |
| | | Bottom | 7.0 | 1 | 26.8 | 7.9 | 29.2 | 4.3 | 63.2 | 4.6 | 1.7 | | | | | | | | |
| | | | | | | 2 | 26.8 | 7.9 | 29.2 | 4.3 | 63.9 | 4.5 | 1.9 | 4.3 | | | | | |
| | | | | 2 | 26.8 | 7.9 | 29.2 | 4.3 | 63.9 | 4.5 | 1.9 | | | | | | | | |
| | | Surface | 1.0 | 1 | 28.0 | 8.0 | 26.2 | 6.0 | 88.5 | 2.0 | 2.9 | | | | | | | | |
| | | | | 2 | 28.0 | 8.0 | 26.2 | 6.0 | 88.5 | 2.0 | 2.5 | | | | | | | | |
| | | | | | 1 | 27.3 | 7.9 | 28.0 | 4.9 | 71.6 | 2.1 | 2.1 | 5.4 | 2.1 | 2.2 | | | | |
| | | | 2 | 27.3 | 7.9 | 27.9 | 4.9 | 71.7 | 2.0 | 2.2 | | | | | | | | | |
| | Middle | 4.1 | 1 | 27.3 | 7.9 | 28.0 | 4.9 | 71.6 | 2.1 | 2.1 | | | | | | | | | |
| | Bottom | 7.2 | 1 | 26.8 | 7.9 | 29.0 | 4.5 | 66.8 | 2.3 | 1.8 | | | | | | | | | |
| | | | | | 2 | 26.8 | 7.9 | 29.1 | 4.5 | 66.7 | 2.3 | 1.5 | 4.5 | | | | | | |
| | | | 2 | 26.8 | 7.9 | 29.1 | 4.5 | 66.7 | 2.3 | 1.5 | | | | | | | | | |
| | Surface | 1.0 | 1 | 28.5 | 8.0 | 21.8 | 6.2 | 90.7 | 1.3 | 2.6 | | | | | | | | | |
| | | | 2 | 28.4 | 8.0 | 21.8 | 6.2 | 90.6 | 1.3 | 2.9 | | | | | | | | | |
| | | | | | 1 | 27.7 | 7.9 | 24.9 | 4.8 | 70.3 | 1.9 | 2.1 | 5.5 | 1.9 | 2.3 | | | | |
| | | | 2 | 27.6 | 7.9 | 24.9 | 4.8 | 70.3 | 2.0 | 2.3 | | | | | | | | | |
| | Middle | 5.4 | 1 | 27.7 | 7.9 | 24.9 | 4.8 | 70.3 | 1.9 | 2.1 | | | | | | | | | |
| | Bottom | 9.8 | 1 | 27.2 | 7.9 | 27.6 | 4.5 | 65.6 | 2.5 | 1.8 | | | | | | | | | |
| | | | | | 2 | 27.2 | 7.9 | 27.6 | 4.5 | 65.9 | 2.4 | 1.9 | 4.5 | | | | | | |
| | | | 2 | 27.2 | 7.9 | 27.6 | 4.5 | 65.9 | 2.4 | 1.9 | | | | | | | | | |
| | Surface | 1.0 | 1 | 28.4 | 8.1 | 24.7 | 7.1 | 105.3 | 2.1 | 1.7 | | | | | | | | | |
| | | | 2 | 28.4 | 8.1 | 24.7 | 7.1 | 105.0 | 2.1 | 1.9 | | | | | | | | | |
| | | | | | 1 | 27.6 | 7.9 | 27.4 | 4.6 | 67.8 | 3.3 | 2.1 | 7.1 | 2.7 | 2.0 | | | | |
| | | | 2 | 27.6 | 7.9 | 27.4 | 4.6 | 67.9 | 3.3 | 2.3 | | | | | | | | | |
| | Bottom | 2.6 | 1 | 27.6 | 7.9 | 27.4 | 4.6 | 67.8 | 3.3 | 2.1 | | | | | | | | | |
| | | | 2 | 27.6 | 7.9 | 27.4 | 4.6 | 67.9 | 3.3 | 2.3 | | | | | | | | | |
| | | | | | 1 | 29.0 | 8.2 | 24.1 | 7.9 | 117.5 | 3.3 | 2.2 | 7.9 | 3.7 | 2.0 | | | | |
| | | | 2 | 29.0 | 8.2 | 24.1 | 7.9 | 117.0 | 3.2 | 2.4 | | | | | | | | | |
| | Surface | 1.0 | 1 | 29.0 | 8.2 | 24.1 | 7.9 | 117.5 | 3.3 | 2.2 | | | | | | | | | |
| | | | 2 | 29.0 | 8.2 | 24.1 | 7.9 | 117.0 | 3.2 | 2.4 | | | | | | | | | |
| | | | | 1 | 27.4 | 8.1 | 28.3 | 4.4 | 65.6 | 4.1 | 1.8 | 4.3 | | | | | | | |
| | | 2 | 27.3 | 7.9 | 28.5 | 4.2 | 56.4 | 4.1 | 1.6 | | | | | | | | | | |
| Bottom | 3.8 | 1 | 27.4 | 8.1 | 28.3 | 4.4 | 65.6 | 4.1 | 1.8 | | | | | | | | | | |
| | | 2 | 27.3 | 7.9 | 28.5 | 4.2 | 56.4 | 4.1 | 1.6 | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 2023-08-30 | Mid-Ebb | TCE-C1 | Fine | Rough | 10:46 | 8.2 | Surface | 1.0 | 1 | 27.2 | 8.1 | 25.2 | 4.6 | 67.2 | 1.2 | 3.2 | 4.6 | 1.7 | 3.8 |
| | | | | | | | | | 2 | 27.2 | 8.1 | 25.2 | 4.6 | 67.2 | 1.2 | 3.3 | | | |
| | | | | | | | Middle | 4.1 | 1 | 27.1 | 8.1 | 25.2 | 4.7 | 67.4 | 1.9 | 4.0 | | | |
| | | | | | | | Bottom | 7.2 | 1 | 27.1 | 8.1 | 25.3 | 4.7 | 67.4 | 1.8 | 3.4 | | | |
| | | | | 2 | 27.1 | 8.1 | 25.3 | 4.7 | 68.5 | 2.0 | 3.5 | | | | | | | | |
| | | | | 2 | 27.1 | 8.1 | 25.3 | 4.7 | 68.6 | 2.0 | 5.4 | | | | | | | | |
| | | TCE-C2 | Fine | Rough | 12:38 | 10.4 | Surface | 1.0 | 1 | 27.2 | 8.1 | 25.2 | 4.5 | 65.0 | 2.6 | 5.0 | 4.5 | 3.3 | 5.0 |
| | | | | | | | | | 2 | 27.2 | 8.1 | 25.2 | 4.5 | 65.0 | 2.5 | 5.3 | | | |
| | | | | | | | Middle | 5.2 | 1 | 26.9 | 8.1 | 25.6 | 4.5 | 64.7 | 3.2 | 5.8 | | | |
| | | | | | | | Bottom | 9.4 | 1 | 26.9 | 8.1 | 25.6 | 4.5 | 64.8 | 3.2 | 5.3 | | | |
| | | | | 2 | 26.7 | 8.1 | 26.0 | 4.6 | 66.9 | 4.1 | 6.1 | | | | | | | | |
| | | | | 2 | 26.7 | 8.1 | 26.0 | 4.6 | 67.1 | 4.1 | 2.6 | | | | | | | | |
| | TCE-WQM1 | Fine | Rough | 11:29 | 7.8 | Surface | 1.0 | 1 | 27.8 | 8.0 | 23.5 | 4.6 | 66.4 | 1.4 | 4.4 | 4.6 | 2.6 | 4.0 | |
| | | | | | | | | 2 | 27.8 | 8.0 | 23.6 | 4.6 | 66.4 | 1.5 | 3.3 | | | | |
| | | | | | | Middle | 3.9 | 1 | 27.6 | 8.0 | 24.0 | 4.6 | 67.2 | 3.0 | 3.6 | | | | |
| | | | | | | Bottom | 6.8 | 1 | 27.6 | 8.0 | 24.0 | 4.6 | 67.4 | 3.0 | 4.1 | | | | |
| | | | 2 | 27.8 | 8.0 | 23.7 | 4.8 | 69.4 | 3.3 | 4.5 | | | | | | | | | |
| | | | 2 | 27.8 | 8.0 | 23.6 | 4.8 | 69.6 | 3.3 | 4.0 | | | | | | | | | |
| | TCE-WQM2a | Fine | Rough | 12:03 | 7.2 | Surface | 1.0 | 1 | 26.9 | 8.1 | 25.7 | 4.5 | 65.3 | 3.0 | 5.8 | 4.6 | 3.4 | 5.3 | |
| | | | | | | | | 2 | 26.9 | 8.1 | 25.7 | 4.5 | 65.3 | 3.0 | 5.8 | | | | |
| | | | | | | Middle | 3.6 | 1 | 26.6 | 8.2 | 26.3 | 4.6 | 67.0 | 3.0 | 5.8 | | | | |
| | | | | | | Bottom | 6.2 | 1 | 26.6 | 8.2 | 26.3 | 4.6 | 67.1 | 3.1 | 4.1 | | | | |
| | | | 2 | 26.5 | 8.2 | 26.6 | 4.7 | 68.2 | 4.1 | 5.6 | | | | | | | | | |
| | | | 2 | 26.5 | 8.2 | 26.6 | 4.8 | 68.6 | 4.1 | 4.9 | | | | | | | | | |
| TCE-WQM2b | Fine | Rough | 12:16 | 9.0 | Surface | 1.0 | 1 | 27.4 | 8.1 | 24.2 | 4.6 | 67.1 | 1.6 | 5.0 | 4.6 | 2.3 | 5.6 | | |
| | | | | | | | 2 | 27.4 | 8.1 | 24.2 | 4.6 | 67.1 | 1.7 | 5.3 | | | | | |
| | | | | | Middle | 4.5 | 1 | 27.1 | 8.1 | 24.9 | 4.5 | 64.8 | 2.2 | 6.5 | | | | | |
| | | | | | Bottom | 8.0 | 1 | 27.1 | 8.1 | 24.8 | 4.5 | 64.8 | 2.1 | 5.6 | | | | | |
| | | 2 | 26.4 | 8.2 | 26.5 | 4.5 | 64.1 | 3.0 | 5.5 | | | | | | | | | | |
| | | 2 | 26.4 | 8.2 | 26.5 | 4.5 | 64.4 | 3.0 | 5.5 | | | | | | | | | | |
| TCE-WQM3A | Fine | Moderate | 11:53 | 4.8 | Surface | 1.0 | 1 | 27.9 | 8.0 | 23.3 | 4.8 | 69.0 | 3.2 | 4.1 | 4.7 | 3.8 | 5.7 | | |
| | | | | | | | 2 | 27.9 | 8.0 | 23.5 | 4.7 | 68.8 | 3.2 | 6.5 | | | | | |
| | | | | | Bottom | 3.8 | 1 | 27.5 | 8.0 | 24.3 | 4.2 | 61.1 | 4.3 | 6.6 | | | | | |
| | | 2 | 27.5 | 8.0 | 24.1 | 4.2 | 61.4 | 4.4 | 5.6 | | | | | | | | | | |
| | | 2 | 27.5 | 8.0 | 24.1 | 4.2 | 61.4 | 4.4 | 5.6 | | | | | | | | | | |
| TCE-WQM4 | Fine | Moderate | 11:42 | 4.2 | Surface | 1.0 | 1 | 27.7 | 8.0 | 23.5 | 4.5 | 65.4 | 3.1 | 3.6 | 4.5 | 3.3 | 4.3 | | |
| | | | | | | | 2 | 27.7 | 8.0 | 23.6 | 4.5 | 65.5 | 3.0 | 3.3 | | | | | |
| | | | | | Bottom | 3.2 | 1 | 27.7 | 8.0 | 23.7 | 4.6 | 67.0 | 3.8 | 6.4 | | | | | |
| | | 2 | 27.8 | 8.0 | 23.6 | 4.7 | 67.4 | 3.4 | 3.9 | | | | | | | | | | |
| 2023-08-30 | Mid-Flood | TCE-C1 | Fine | Rough | 7:08 | 9.0 | Surface | 1.0 | 1 | 27.3 | 8.0 | 24.5 | 4.7 | 67.4 | 0.1 | 2.8 | 4.6 | 0.5 | 4.3 |
| | | | | | | | | | 2 | 27.3 | 8.0 | 24.4 | 4.7 | 67.3 | 0.1 | 4.3 | | | |
| | | | | | | | Middle | 4.5 | 1 | 26.3 | 8.0 | 26.9 | 4.5 | 65.1 | 0.2 | 5.3 | | | |
| | | | | | | | Bottom | 8.0 | 1 | 26.3 | 8.0 | 26.9 | 4.5 | 65.1 | 0.2 | 4.4 | | | |
| | | | | 2 | 26.2 | 8.0 | 27.1 | 4.6 | 65.6 | 1.2 | 5.5 | | | | | | | | |
| | | | | 2 | 26.3 | 8.0 | 27.0 | 4.6 | 65.7 | 1.2 | 3.4 | | | | | | | | |
| | | TCE-C2 | Fine | Rough | 5:37 | 11.2 | Surface | 1.0 | 1 | 26.9 | 8.1 | 25.6 | 4.6 | 67.1 | 1.0 | 3.6 | 4.6 | 1.5 | 4.0 |
| | | | | | | | | | 2 | 26.9 | 8.1 | 25.6 | 4.6 | 67.0 | 0.9 | 4.3 | | | |
| | | | | | | | Middle | 5.6 | 1 | 26.3 | 8.1 | 27.0 | 4.5 | 65.2 | 1.3 | 3.6 | | | |
| | | | | | | | Bottom | 10.2 | 1 | 26.3 | 8.1 | 27.0 | 4.5 | 65.2 | 1.3 | 4.6 | | | |
| | | | | 2 | 26.2 | 8.0 | 27.2 | 4.5 | 65.5 | 2.1 | 3.6 | | | | | | | | |
| | | | | 2 | 26.2 | 7.9 | 27.2 | 4.6 | 65.6 | 2.1 | 4.2 | | | | | | | | |
| | TCE-WQM1 | Fine | Rough | 6:42 | 8.4 | Surface | 1.0 | 1 | 27.5 | 8.0 | 24.4 | 4.4 | 63.6 | 1.5 | 3.6 | 4.4 | 3.1 | 4.2 | |
| | | | | | | | | 2 | 27.4 | 8.0 | 24.4 | 4.4 | 63.5 | 1.6 | 5.9 | | | | |
| | | | | | | Middle | 4.2 | 1 | 27.2 | 8.0 | 24.6 | 4.3 | 62.7 | 3.0 | 4.2 | | | | |
| | | | | | | Bottom | 7.4 | 1 | 27.2 | 8.0 | 24.7 | 4.3 | 62.6 | 3.0 | 3.3 | | | | |
| | | | 2 | 26.9 | 8.0 | 25.4 | 4.3 | 61.9 | 4.8 | 4.5 | | | | | | | | | |
| | | | 2 | 26.9 | 8.0 | 25.5 | 4.3 | 61.9 | 4.8 | 3.5 | | | | | | | | | |
| | TCE-WQM2a | Fine | Rough | 6:13 | 8.0 | Surface | 1.0 | 1 | 27.0 | 8.1 | 25.5 | 4.9 | 70.3 | 1.0 | 2.7 | 4.9 | 1.5 | 3.7 | |
| | | | | | | | | 2 | 27.0 | 8.1 | 25.5 | 4.9 | 70.3 | 1.0 | 3.9 | | | | |
| | | | | | | Middle | 4.0 | 1 | 26.9 | 8.1 | 25.8 | 5.0 | 72.0 | 1.7 | 3.5 | | | | |
| | | | | | | Bottom | 7.0 | 1 | 26.9 | 8.1 | 25.8 | 5.0 | 72.1 | 1.7 | 4.6 | | | | |
| | | | 2 | 26.8 | 8.1 | 25.9 | 5.1 | 73.9 | 1.8 | 3.0 | | | | | | | | | |
| | | | 2 | 26.8 | 8.1 | 25.9 | 5.1 | 74.3 | 1.8 | 4.2 | | | | | | | | | |
| TCE-WQM2b | Fine | Rough | 6:02 | 10.4 | Surface | 1.0 | 1 | 27.1 | 8.0 | 25.0 | 4.4 | 63.6 | 3.5 | 3.4 | 4.4 | 4.4 | 3.7 | | |
| | | | | | | | 2 | 27.1 | 8.1 | 25.0 | 4.4 | 63.6 | 3.5 | 3.5 | | | | | |
| | | | | | Middle | 5.2 | 1 | 26.9 | 8.1 | 25.5 | 4.5 | 64.8 | 4.3 | 5.2 | | | | | |
| | | | | | Bottom | 9.4 | 1 | 26.9 | 8.1 | 25.5 | 4.5 | 64.9 | 4.3 | 3.6 | | | | | |
| | | 2 | 26.8 | 8.0 | 25.8 | 4.8 | 69.6 | 5.4 | 3.2 | | | | | | | | | | |
| | | 2 | 26.8 | 8.0 | 25.8 | 4.9 | 70.3 | 5.4 | 3.4 | | | | | | | | | | |
| TCE-WQM3A | Fine | Moderate | 6:23 | 3.6 | Surface | 1.0 | 1 | 27.6 | 8.0 | 24.0 | 5.1 | 74.3 | 1.5 | 4.0 | 5.1 | 2.2 | 4.1 | | |
| | | | | | | | 2 | 27.5 | 8.0 | 24.1 | 5.2 | 74.6 | 1.4 | 4.1 | | | | | |
| | | | | | Bottom | 2.6 | 1 | 27.2 | 8.1 | 24.9 | 5.9 | 84.7 | 3.0 | 4.6 | | | | | |
| | | 2 | 27.2 | 8.1 | 25.0 | 6.0 | 86.5 | 2.9 | 3.8 | | | | | | | | | | |
| TCE-WQM4 | Fine | Moderate | 6:32 | 3.0 | Surface | 1.0 | 1 | 28.1 | 8.0 | 23.0 | 5.3 | 76.6 | 1.5 | 3.3 | 5.3 | 2.3 | 3.8 | | |
| | | | | | | | 2 | 28.1 | 8.0 | 23.1 | 5.3 | 76.7 | 1.6 | 4.0 | | | | | |
| | | | | | Bottom | 2.0 | 1 | 27.8 | 8.0 | 23.4 | 5.4 | 78.9 | 3.0 | 3.6 | | | | | |
| | | 2 | 27.8 | 8.0 | 23.4 | 5.5 | 79.5 | 3.0 | 4.2 | | | | | | | | | | |

Annex G4

Event and Action Plan for Water Quality

Annex G4 *Event and Action Plan for Water Quality*

| Event | ET | IEC | Action ER | Contractor |
|---|--|---|--|---|
| Action level exceedance for one sampling day | <ol style="list-style-type: none"> 1. Inform IEC, Contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; and 3. Discuss remedial measures with IEC and Contractor and ER. | <ol style="list-style-type: none"> 1. Discuss with ET, ER and Contractor on the implemented mitigation measures; 2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with IEC, ET and Contractor on the implemented mitigation measures; 2. Make agreement on the remedial measures to be implemented; 3. Supervise the implementation of agreed remedial measures. | <ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment; 5. Consider changes of working methods; 6. Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and 7. Implement the agreed mitigation measures. |
| Action level exceedance for more than one consecutive sampling days | <ol style="list-style-type: none"> 1. Repeat in-situ measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Check monitoring data, all plant, equipment and Contractor's working methods; 4. Discuss remedial measures with IEC, contractor and ER 5. Ensure remedial measures are implemented | <ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the proposed mitigation measures; 2. Make agreement on the remedial measures to be implemented ; and 3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. | <ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed mitigation measures. |

| Event | Action | | | |
|--|--|---|--|---|
| | ET | IEC | ER | Contractor |
| Limit level exceedance for one sampling day | <ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Rectify unacceptable practice; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Consider changes of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; and 7. Ensure the agreed remedial measures are implemented | <ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the implemented remedial measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; and 4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. | <ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed remedial measures. |
| Limit level exceedance for more than one consecutive sampling days | <ol style="list-style-type: none"> 1. Inform IEC, contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; 3. Discuss mitigation measures with IEC, ER and Contractor; and 4. Ensure mitigation measures are implemented; and 5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days | <ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the implemented remedial measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; 4. Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level. | <ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed remedial measures. 7. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level. |