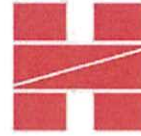


Keppel Seghers



吉寶西格斯 - 振華聯營公司
KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE

Pilot Test Report

For

Silt Curtain Efficiency Pilot Test (Floating type at Marine Access Opening)

Document No.

| | | | | | | | | |
|--------|---|--------------|---|------------------|---|----------------|---|----------------|
| KSZHJV | / | 312 | / | TR | / | | / | B |
| Issuer | | Project Code | | Type of Document | | Sequential No. | | Revision Index |

| | Prepared by | Certified by | Approved By | Approved By |
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| Date: | 24 September 2021 | 24 September 2021 | 24 September 2021 | 28.9.2021 |

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Revision History

| | | |
|-------------|------------------------------------|-------------|
| B | Revision based on EPD's comment | 24 Sep 2021 |
| A | First Issue for Comments | 20 Nov 2020 |
| Rev. | DESCRIPTION OF MODIFICATION | DATE |

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1. INTRODUCTION

- 1.1. According to the Updated EM&A Manual, the pilot test shall be close to the marine access opening for the reclamation filling works. Pilot tests should be carried out during the early stage of reclamation to confirm whether the silt removal efficiency of the silt curtain systems at marine access opening can achieve at least 80% silt removal efficiency for reclamation filling. The pilot test shall include basic measurements such as turbidity and suspended solids as well as current speed and direction covering both flood and ebb tide.
- 1.2. Water quality monitoring was conducted on 28 October 2020, 30 October 2020 and 3 November 2020 to test the silt removal efficiency of the floating type silt curtains. **Table 1.1** summarizes the silt curtain type and the respective target of works / site activities:

Table 1.1 Silt curtain types and their respective target of works / site activities

| No. of type | |
|-------------|---|
| 1 | Floating type - installed in the marine access opening area during the reclamation period |

- 1.3. This report summarizes the monitoring result of silt curtain pilot test for floating type silt curtain at marine access.

2. MONITORING LOCATIONS

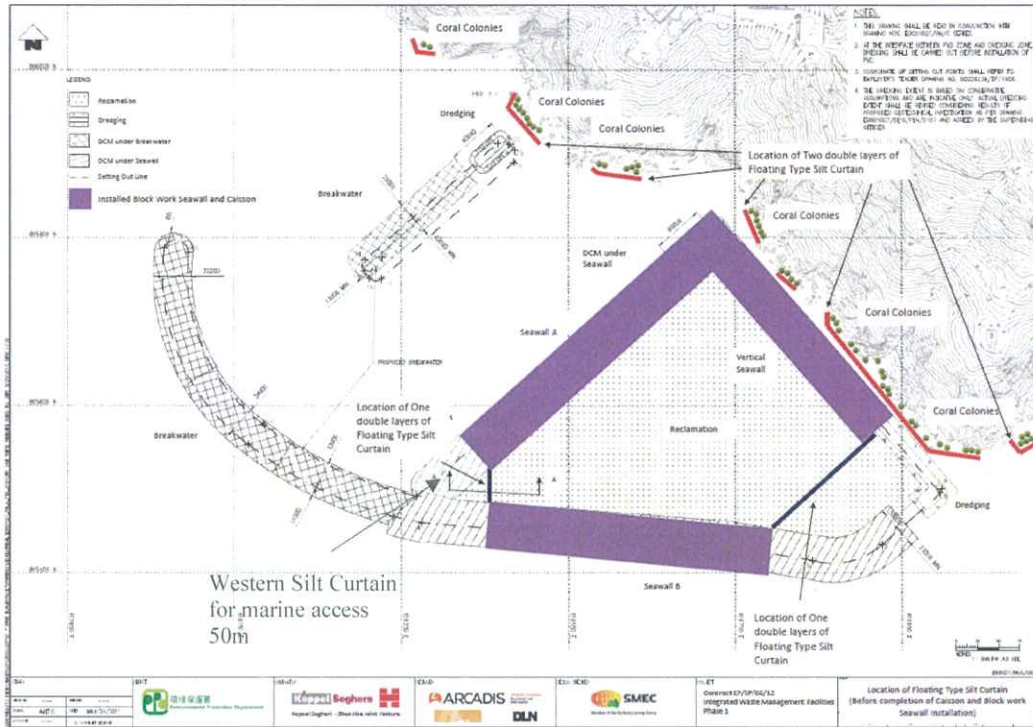
2.1. Floating Type Silt Curtain

The water monitoring of the pilot test was conducted at a total of six monitoring stations. The general locations of the sampling stations are described in **Table 2.1** and **Figure 1**. Actual sampling locations are described on **Figure 2** and summarize in **Table 2.2**. The sampling locations were followed with the actual location of dredging barge and the actual locations of dredging barges were arranged with the actual site condition and work procedure. Therefore, different sampling locations were applied on the three testing days.

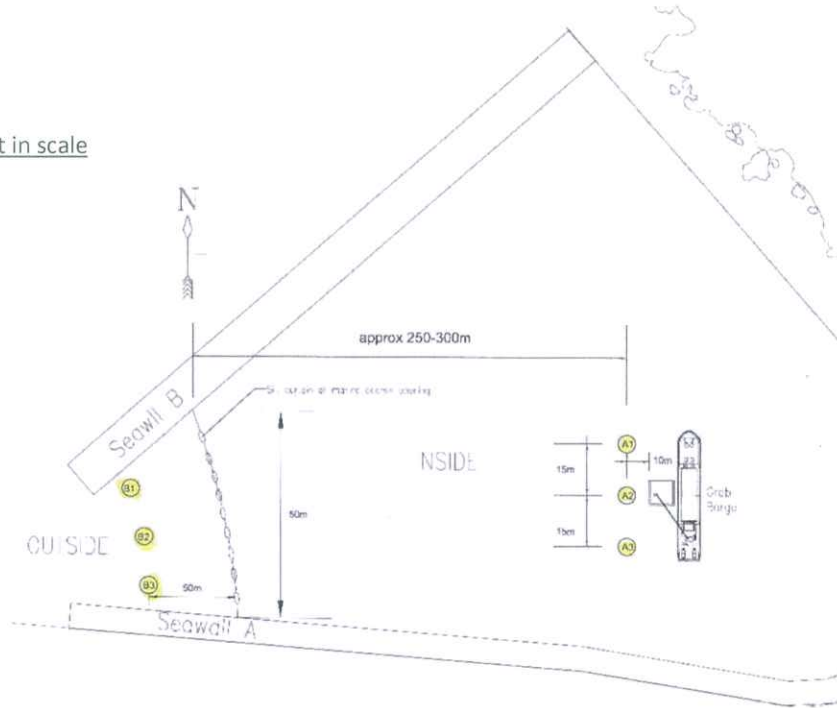
Table 2.1 Locations of Monitoring Stations for Pilot Test (for floating type silt curtain)

| Monitoring Stations | Location | Description |
|---------------------|--------------------------|---|
| A1 | Within Marine Works Area | As confirmed by the Contractor, the floating type silt curtain at marine access is 50m wide only. The distance between the inside stations (A1 to A3) was adjusted according to the actual dimension of the floating type silt curtain on the day of the test. |
| A2 | | |
| A3 | | |
| B1 | Outside Silt Curtain | As confirmed by the Contractor, the floating type silt curtain at marine access is 50m wide only. The distance between the outside stations (B1 to B3) was adjusted according to the actual dimension of the floating type silt curtain on the day of the test and located within approximately 50m from the silt curtain boundary. |
| B2 | | |
| B3 | | |

Figure 1 Location of Floating type silt curtain and Indicative locations of Monitoring Stations for Pilot Test



*Not in scale



Note: The distance between the inside stations (A1 to A3) and that between the outside stations (B1 to B3) was adjusted according to the actual dimension of the floating type silt curtain on the day of the test.

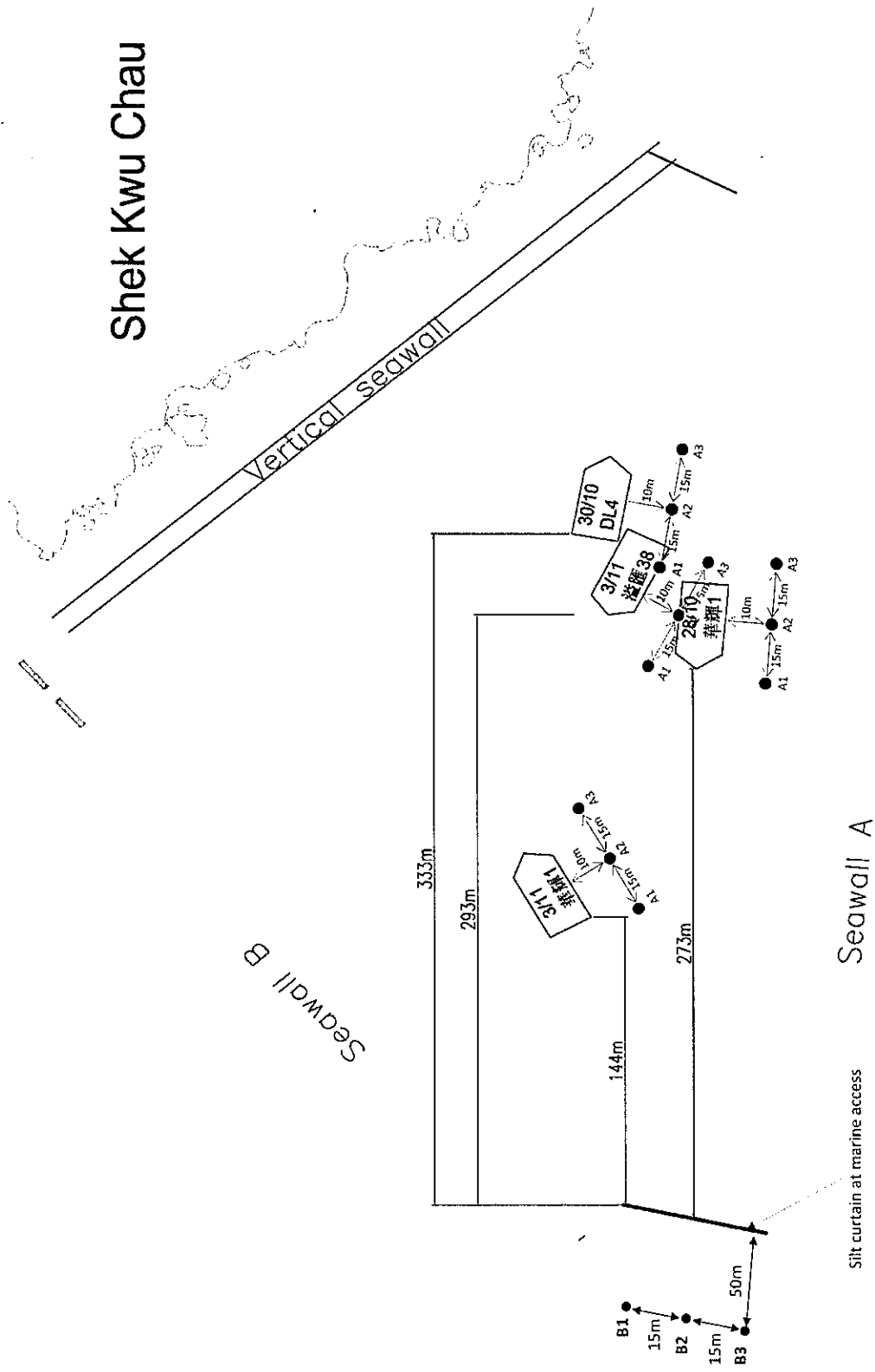


Figure 2 Actual Sampling Locations of Three Testing Days

Table 2.2 Summary of Testing Locations

| Date of Test | Name of Barge | Testing Points | Testing Period |
|---------------------|----------------------|---|--|
| 28 October 2020 | 華輝 1 | A1, A2, A3 (10 m away from the dropping point of 華輝 1) | Mid Ebb (09:00 – 10:30) Mid Flood (15:30-17:00) |
| 30 October 2020 | DL4 | A1, A2, A3 (10 m away from the dropping point of DL4) | Mid Ebb (09:00 – 10:30) Mid Flood (16:05-17:35) |
| 3 November 2020 | 華輝 1 | A1, A2, A3 (10 m away from the dropping point of 華輝 1) | Mid Ebb (12:00 – 13:30) |
| 3 November 2020 | 溢滙 38 | A1, A2, A3 (10 m away from the dropping point of 溢滙 38) | Mid Flood (17:00-18:30) |

2.2. Monitoring Parameters & Equipment

2.2.1. Water Sampling Equipment

For in-situ monitoring, a turbidimeter (HORIBA U53) was used to measure turbidity. A sampler was used to collect water samples for laboratory analysis of suspended solids.

2.2.2. Turbidity

The instrument was portable and weatherproof using a DC power source complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0-1000 NTU.

2.2.3. Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station. This unit can either be hand held or affixed to the underside of the survey boat, if the same vessel was used throughout the monitoring programme.

2.2.4. Position System

A hand held Global Positioning System (GPS) was used to ensure that the correction location has been selected prior to sample collection.

2.2.5. Current Velocity and Direction

A Valeport 106 current meter was used for measuring current velocity and direction to verify the exact location of the impact monitoring stations and control stations.

2.2.6. Suspended Solids

A water sampler, consisting of PVC cylinder of a capacity of not less than two litres which can be effectively sealed with cups at both ends was used. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was the selected water depth.

2.2.7. Sample Container and Storage

Following collection, water samples for laboratory analysis was stored in high density polythene bottles with no preservatives added, packed in ice (cooled to 4°C without being frozen), delivered to the laboratory and analysed.

2.2.8. Calibration of In-Situ Instruments

The turbidimeter was checked and calibrated before use. Turbidimeter was certified by a laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) or other international accreditation scheme, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the pilot test. Responses of turbidimeter was checked with certified standard solutions before each use. For the in-situ calibration of field equipment, the BS 1427:2009, "Guide to on-site test methods for the analysis of waters" was observed. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was also available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

2.3. Summary of the equipment used in the water quality monitoring program of pilot tests is presented in **Table 2.3**.

Table 2.3 Water Quality Monitoring Equipment

| Equipment | Model | Monitoring Parameters / Use | Quantity |
|-------------------------------|--|--|-----------------|
| Water Sampler | Wildco 2L Water Sampler with messenger | Collection of water sample | 2 |
| Turbidimeter | Horiba U-53 | Measurement of turbidity | 2 |
| Monitoring Position Equipment | Garmin GPSMAP 78s | Determination of water quality monitoring stations | 1 |
| Sonar Water Depth Detector | Hummingbird 160 Portable | Determination of water depth | 1 |
| Current Meter | Valeport 106 | Measurement of current velocity and direction | 1 |

- 2.4. The water quality parameters to be monitored are tabulated below in **Table 2.4**.

Table 2.4 Water Quality Parameters to be tested during Pilot Test

| Water Quality Parameters | Pilot Test^[1] |
|---------------------------------|---------------------------------|
| Turbidity | × |
| Suspended Solids (SS) | × |
| Water depth | × |
| Current Velocity and direction | × |

Note ^[1]: The following parameters were covered in the Pilot Test: Turbidity, Suspended Solids (SS), Water depth, Current velocity and direction.

3. PROCEDURES

- 3.1. In advance of the sampling day, ET's staff checked wind condition on website of Hong Kong Observatory.
- 3.2. Before getting on the vessel, all persons were equipped with lifejacket, reflective vest, safety helmet and safety shoes properly;
- 3.3. ET's staff(s) calibrated the measurement instrument before sampling event;
- 3.4. At the pier, Coxswain judged local Beaufort Sea Status and weather (e.g. rainstorm, windy, foggy, etc.) whether it is suitable for the sampling work to go on;
- 3.5. Coxswain parked at the pier and kept steady by keeping the engines on and direction towards the pier for uploading the tools and equipment onto the vessel;
- 3.6. Trained worker(s) tightened the cool boxes with rope at secure structure of the vessel;
- 3.7. Vessel was then sailed to the sampling stations with guiding of digital Global Positioning System (GPS); A1 and B1 were sampled at the same time, then A2 & B2 and A3 & B3 were conducted in the similar approach.
- 3.8. After arriving the sampling station, depth were measured using depth meter in order to determine the sampling depths;
- 3.9. The water sampler and the multi-functional meter was lowered to the predetermined depths (1m below water surface, mid-depth and 1m above seabed) and the in-situ results of turbidity was recorded at the same time.
- 3.10. At each measurement, two consecutive measurements of in-situ parameters were taken. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings was taken.
- 3.11. In-situ measurement results included basic measurements such as turbidity as well as current speed and direction.

- 3.12. Water samples for SS (mg/L) measurements were collected at the same depths with water sampler. All the containers filled samples were placed into cool boxes.
- 3.13. Steps 3.7 to 3.12 were repeated for remaining monitoring locations and the monitoring in next tide;
- 3.14. Coxswain drove back to pier and parked the vessel at the pier. The cool boxes with container samples were transferred from vessel to pier and handed over to the lab's representative(s) for conducting the SS testing.

4. LABORATORY MEASUREMENT / ANALYSIS

- 4.1. Analysis of suspended solids (SS) was carried out in a HOKLAS accredited laboratory, ALS TECHNICHEM (HK) PTY LIMITED. The certificate of accreditation of the laboratory is attached in **Appendix A**. 1L water samples were collected at the monitoring stations for carrying out the laboratory determinations. The determination work started within 24 hours after collection of water samples. The analyses followed the American Public Health Association (APHA) Standard Methods for the Examination of Water and Wastewater or an equivalent method subject to the approval of EPD. The testing method and lowest detection limit are provided in **Table 4.1**.

Table 4.1 Analytical Methods Applied to Marine Water Quality Samples

| Determinant | Standard Method | Detection Limit |
|-------------------------|-----------------|-----------------|
| Suspended Solids (mg/L) | APHA 2540D* | 1 mg/L |

Note(*): APHA American Public Health Association Standard Methods for the Examination of Water and Wastewater

- 4.2. The testing of SS was HOKLAS accredited and comprehensive quality assurance and control procedures in place in order to ensure quality and consistency in results. The Quality Assurance / Quality Control (QA/QC) was in accordance with the requirements of HOKLAS or international accredited scheme.

5. MONITORING RESULTS AND OBSERVATIONS

- 5.1. Water quality monitoring was conducted on 28 October 2020, 30 October 2020 and 3 November 2020 to test the silt removal efficiency for floating type curtain at marine access. The monitoring results are summarized in **Table 5.1** and **Table 5.2** Details of water quality monitoring results are presented in **Appendix B**.

Table 5.1 Summary of Water Quality Monitoring Results (Ebb Tide)

| Location | | Parameters | | | |
|----------|------|-----------------|-----------------|-------------------------|------------------------|
| | | Water Depth (m) | Turbidity (NTU) | Suspended Solids (mg/L) | Current Velocity (m/s) |
| A1 | Max. | 6.55 | 136.00 | 2610 | 0.170 |
| | Avg. | 3.77 | 80.41 | 201 | 0.127 |
| | Min. | 1.00 | 27.40 | 17 | 0.096 |
| A2 | Max. | 6.67 | 210.00 | 361 | 0.147 |
| | Avg. | 3.81 | 96.81 | 62 | 0.113 |
| | Min. | 1.00 | 28.20 | 10 | 0.090 |
| A3 | Max. | 7.12 | 530.00 | 15700 | 0.159 |
| | Avg. | 3.91 | 183.17 | 2179 | 0.125 |
| | Min. | 1.00 | 50.80 | 9 | 0.094 |
| B1 | Max. | 7.90 | 9.44 | 26 | 0.256 |
| | Avg. | 4.60 | 5.67 | 12 | 0.198 |
| | Min. | 1.00 | 1.66 | 3 | 0.170 |
| B2 | Max. | 8.20 | 12.60 | 18 | 0.211 |
| | Avg. | 4.68 | 6.89 | 10 | 0.189 |
| | Min. | 1.00 | 1.64 | 4 | 0.174 |
| B3 | Max. | 8.10 | 10.20 | 22 | 0.240 |
| | Avg. | 4.69 | 6.33 | 11 | 0.201 |
| | Min. | 1.00 | 1.63 | 5 | 0.182 |

Note: "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-ebb tides at three water depths.

Table 5.2 Summary of Water Quality Monitoring Results (Flood Tide)

| Location | | Parameters | | | |
|----------|------|-----------------|-----------------|-------------------------|------------------------|
| | | Water Depth (m) | Turbidity (NTU) | Suspended Solids (mg/L) | Current Velocity (m/s) |
| A1 | Max. | 12.30 | 272.00 | 420 | 0.169 |
| | Avg. | 4.35 | 119.12 | 165 | 0.132 |
| | Min. | 1.00 | 11.90 | 33 | 0.105 |
| A2 | Max. | 10.40 | 278.00 | 494 | 0.157 |
| | Avg. | 4.16 | 107.04 | 172 | 0.131 |
| | Min. | 1.00 | 16.60 | 37 | 0.120 |
| A3 | Max. | 11.20 | 882.00 | 1290 | 0.173 |
| | Avg. | 4.20 | 221.04 | 168 | 0.126 |
| | Min. | 1.00 | 29.90 | 14 | 0.100 |
| B1 | Max. | 7.30 | 10.50 | 19 | 0.256 |
| | Avg. | 4.51 | 7.46 | 12 | 0.192 |
| | Min. | 1.00 | 3.56 | 6 | 0.142 |
| B2 | Max. | 7.20 | 11.10 | 15 | 0.267 |
| | Avg. | 4.30 | 7.80 | 11 | 0.223 |
| | Min. | 1.00 | 3.41 | 9 | 0.155 |
| B3 | Max. | 7.30 | 9.57 | 14 | 0.233 |
| | Avg. | 4.39 | 6.59 | 11 | 0.200 |
| | Min. | 1.00 | 3.40 | 7 | 0.152 |

Note: "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood tides at three water depths.

- 5.2. The weather conditions during the three testing date (i.e. 28 October 2020, 30 October 2020 and 3 November 2020) were cloudy. Sea conditions of monitoring days were moderate. Monitoring photos are attached in **Appendix D**.
- 5.3. Laboratory testing reports for the analysis of SS in the HOKLAS-accredited laboratory are attached in **Appendix C**.
- 5.4. The effectiveness of the proposed silt curtain system can be calculated based on following equation:

$$(SS_{\text{inside}} - SS_{\text{outside}}) / SS_{\text{inside}} \times 100\% \geq 80\%$$

Note: The silt removal efficiencies of ebb and flood tide will be calculated by taking arithmetic means of the three stations throughout different sampling dates.

- 5.5. The silt removal efficiencies of silt curtains are tabulated as Table 5.3.

Table 5.3 Silt Removal Efficiencies of Floating Type Silt Curtain at Marine Access

| | |
|--------------------------------|-------------------|
| | Ebb Tide |
| $SS_{\text{inside}}^{[1]}$ | 758.59 |
| $SS_{\text{outside}}^{[2]}$ | 11.46 |
| Silt removal efficiency | 98.49% |
| | Flood Tide |
| $SS_{\text{inside}}^{[1]}$ | 168.46 |
| $SS_{\text{outside}}^{[2]}$ | 11.17 |
| Silt removal efficiency | 93.37% |

Note:

[1]: " SS_{inside} " is calculated by taking the arithmetic means of suspended solid levels of monitoring locations A1, A2 and A3 at three water depths of the three testing days under the measurement for mid-flood and mid-ebb tides.

[2]: " SS_{outside} " is calculated by taking the arithmetic means of suspended solid levels of monitoring locations B1, B2 and B3 at three water depths of the three testing days under the measurement for mid-flood and mid-ebb tides.

- 5.6. The silt removal efficiencies of floating type silt curtain at marine access is greater than 80%.

**Appendix A: Copy of the Calibration Certificate and
Certificate of Accreditation of Laboratory**



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ090064
Date of Issue : 25 September 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit C, 11/F, Ford Glory Plaza
37-39 Wing Hong Street
Cheung Sha Wan, Kowloon, Hong Kong
Attn: Mr. Nelson TSUI

PART B – DESCRIPTION

Name of Equipment : Multi Water Quality Checker U-53
Manufacturer : Horiba
Serial Number : L20550GA
Date of Received : Sep 17, 2020
Date of Calibration : Sep 25, 2020
Date of Next Calibration^(a) : Dec 24, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|------------------|--|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.08 | 0.08 | Satisfactory |
| 7.42 | 7.46 | 0.04 | Satisfactory |
| 10.01 | 10.02 | 0.01 | Satisfactory |

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

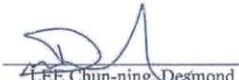
| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|----------------------------------|------------------------|----------------|--------------|
| 14.5 | 14.42 | -0.08 | Satisfactory |
| 26.0 | 25.45 | -0.55 | Satisfactory |
| 40.0 | 39.77 | -0.23 | Satisfactory |

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

– CONTINUED ON NEXT PAGE –

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) 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.


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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ090064
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Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results |
|-------------------------|--------------------------|------------------|--------------|
| 0.05 | 0.00 | -0.05 | Satisfactory |
| 2.58 | 2.11 | -0.37 | Satisfactory |
| 5.08 | 5.08 | 0.00 | Satisfactory |
| 7.82 | 7.63 | -0.19 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.92 | -0.08 | Satisfactory |
| 20 | 20.12 | 0.06 | Satisfactory |
| 30 | 31.03 | 3.43 | Satisfactory |

Tolerance limit of salinity should be less than ± 10.0 (%)

(5) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|------------------------|--|------------------------------|--------------|
| 0 | 0.33 | -- | Satisfactory |
| 10 | 9.65 | -3.5 | Satisfactory |
| 20 | 18.9 | -5.5 | Satisfactory |
| 100 | 100 | 0.0 | Satisfactory |
| 800 | 781 | -2.4 | Satisfactory |

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

^(g) 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.

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ080016
Date of Issue : 21 August 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
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Attn: Mr. Nelson TSUI

PART B – DESCRIPTION

Name of Equipment : Multi Water Quality Checker U-53
Manufacturer : Horiba
Serial Number : A55XB7UP
Date of Received : Aug 06, 2020
Date of Calibration : Aug 21, 2020
Date of Next Calibration^(a) : Nov 20, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|-------------|---|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D – CALIBRATION RESULTS^(b,c)

(1) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|----------------------------------|------------------------|----------------|--------------|
| 18 | 18.05 | +0.05 | Satisfactory |
| 30 | 29.79 | -0.21 | Satisfactory |
| 41 | 40.12 | +0.88 | Satisfactory |

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

- CONTINUED ON NEXT PAGE -

Remark(s): -

^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.

^(b) The results relate only to the calibrated equipment as received

^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.


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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D – CALIBRATION RESULTS (Cont'd)

(2) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.59 | -4.10 | Satisfactory |
| 20 | 19.30 | -3.50 | Satisfactory |
| 30 | 30.11 | 0.37 | Satisfactory |

Tolerance limit of salinity should be less than ± 10.0 (%)

(3) Turbidity

| Expected Reading (NTU) | Displayed Reading ⁽⁶⁾ (NTU) | Tolerance ⁽⁶⁾ (%) | Results |
|------------------------|--|------------------------------|--------------|
| 0 | 0.54 | -- | Satisfactory |
| 10 | 10.30 | 3.0 | Satisfactory |
| 20 | 19.3 | -3.5 | Satisfactory |
| 100 | 101.0 | 1.0 | Satisfactory |
| 800 | 834 | 4.3 | Satisfactory |

Tolerance limit of turbidity should be less than ± 10.0 (%)

- END OF REPORT -

Remark(s): -

- ⁽⁶⁾ "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.
⁽⁶⁾ 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.

This report shall not be reproduced unless with prior written approval from this laboratory.



Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街1-3號忠信針織中心11樓

*has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a
為香港認可處執行機關根據認可諮詢委員會建議而接受的*

HOKLAS Accredited Laboratory
「香港實驗所認可計劃」認可實驗所

*This laboratory meets the requirements of ISO / IEC 17025 : 2005 – General requirements for the competence
此實驗所符合ISO / IEC 17025 : 2005 – 《測試及校正實驗所能力的通用規定》所訂的要求，
of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as
獲認可進行載於香港實驗所認可計劃《認可實驗所名冊》內下述測試類別中的指定
listed in the HOKLAS Directory of Accredited Laboratories within the test category of
測試或校正工作*

Environmental Testing
環境測試

*This laboratory is accredited in accordance with the recognised International Standard ISO / IEC 17025 : 2005.
本實驗所乃根據公認的國際標準 ISO / IEC 17025 : 2005 獲得認可。*

*This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
這項認可資格顯示在指定範疇所需的技術能力及實驗所質量管理體系的運作
quality management system (see joint IAF-ILAC-ISO Communiqué).
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。*

*The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive
香港認可處根據認可處執行機關的權限在此蓋上通用印章*

CHAN Sing Sing, Terence, Executive Administrator

執行幹事 陳成城

Issue Date : 5 May 2009

簽發日期：二零零九年五月五日

Registration Number : **HOKLAS 066**
註冊號碼：

Date of First Registration : 15 September 1995
首次註冊日期：一九九五年九月十五日



*This certificate is issued subject to the terms and conditions laid down by HKAS
本證書按照香港認可處訂立的條款及條件發出*

L 000552

Appendix B: Water Quality Monitoring Results

Silt Curtain Pilot Test Data

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|---------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| A1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:06 | 11.68 | 9.03 | 33.44 | 25.21 | 31.2 | 15 | 0.172 | SE |
| A1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:06 | 11.48 | 9.01 | 33.36 | 25.24 | 31.5 | 15 | 0.175 | SE |
| A1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 3.78 | 16:05 | 11.25 | 9.05 | 33.51 | 25.31 | 27.4 | 17 | 0.169 | SE |
| A1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 3.78 | 16:05 | 11.37 | 9.03 | 33.43 | 25.27 | 27.6 | 17 | 0.163 | SE |
| A1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.55 | 16:04 | 11.27 | 9.08 | 33.53 | 25.28 | 34.5 | 115 | 0.170 | SE |
| A1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.55 | 16:04 | 11.28 | 9.11 | 33.49 | 25.26 | 41.5 | 2610 | 0.165 | SE |
| A2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:12 | 11.41 | 9.01 | 33.38 | 25.28 | 28.3 | 47 | 0.134 | SE |
| A2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:12 | 11.30 | 9.07 | 33.28 | 25.27 | 27.9 | 20 | 0.140 | SE |
| A2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 3.84 | 16:11 | 11.83 | 9.03 | 33.36 | 25.27 | 28.2 | 20 | 0.125 | SE |
| A2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 3.84 | 16:11 | 11.51 | 9.06 | 33.37 | 25.32 | 28.4 | 19 | 0.122 | SE |
| A2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.67 | 16:10 | 11.23 | 9.03 | 33.49 | 25.21 | 73.4 | 361 | 0.147 | SE |
| A2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.67 | 16:10 | 11.49 | 9.02 | 33.00 | 25.21 | 72.3 | 214 | 0.122 | SE |
| A3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:19 | 11.38 | 9.08 | 33.03 | 25.32 | 31.3 | 1760 | 0.156 | SE |
| A3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:19 | 11.86 | 9.05 | 33.14 | 25.27 | 32.6 | 30 | 0.148 | SE |
| A3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.06 | 16:18 | 11.17 | 9.00 | 33.01 | 25.23 | 413.0 | 15700 | 0.158 | SE |
| A3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.06 | 16:18 | 11.78 | 9.02 | 33.21 | 25.27 | 410.0 | 1580 | 0.148 | SE |
| A3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.12 | 16:17 | 11.68 | 9.02 | 33.06 | 25.26 | 523.0 | 3100 | 0.153 | SE |
| A3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.12 | 16:17 | 11.15 | 9.06 | 33.51 | 25.21 | 530.0 | 13600 | 0.159 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:05 | 8.81 | 9.72 | 34.31 | 26.34 | 7.0 | 16 | 0.204 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:05 | 9.17 | 9.62 | 34.24 | 26.32 | 7.3 | 15 | 0.187 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.25 | 16:04 | 9.00 | 9.74 | 34.52 | 26.34 | 7.9 | 21 | 0.197 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.25 | 16:04 | 8.82 | 9.71 | 34.52 | 26.35 | 7.5 | 20 | 0.191 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.50 | 16:03 | 9.20 | 9.61 | 34.44 | 26.34 | 7.9 | 26 | 0.182 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.50 | 16:03 | 9.12 | 9.59 | 34.58 | 26.32 | 8.2 | 26 | 0.184 | SE |
| B2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:12 | 9.01 | 9.65 | 34.67 | 26.33 | 10.6 | 13 | 0.175 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:12 | 8.70 | 9.59 | 34.52 | 26.32 | 10.1 | 14 | 0.208 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.20 | 16:11 | 8.96 | 9.69 | 34.53 | 26.38 | 11.5 | 15 | 0.174 | E |

Silt Curtain Pilot Test Data

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|-----------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| B2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.20 | 16:11 | 8.79 | 9.65 | 34.51 | 26.36 | 11.4 | 15 | 0.207 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.40 | 16:10 | 9.06 | 9.66 | 34.32 | 26.33 | 12.3 | 17 | 0.211 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.40 | 16:10 | 8.93 | 9.66 | 34.51 | 26.35 | 12.6 | 18 | 0.188 | E |
| B3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:19 | 8.89 | 9.69 | 34.43 | 26.29 | 9.1 | 14 | 0.199 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:19 | 8.61 | 9.65 | 34.47 | 26.34 | 9.3 | 14 | 0.193 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.20 | 16:18 | 9.17 | 9.67 | 34.37 | 26.31 | 8.7 | 14 | 0.199 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Middle | 4.20 | 16:18 | 8.63 | 9.62 | 34.63 | 26.32 | 8.9 | 15 | 0.191 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.40 | 16:17 | 8.87 | 9.68 | 34.42 | 26.35 | 9.6 | 21 | 0.201 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.40 | 16:17 | 8.94 | 9.67 | 34.56 | 26.38 | 9.7 | 22 | 0.190 | SE |
| A1 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 12.30 | 9:55 | 8.85 | 9.09 | 32.28 | 25.33 | 11.9 | 33 | 0.107 | E |
| A1 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 12.30 | 9:55 | 8.53 | 9.02 | 32.13 | 25.32 | 12.6 | 34 | 0.105 | E |
| A1 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 6.65 | 9:56 | 8.70 | 9.10 | 32.20 | 25.31 | 14.4 | 49 | 0.106 | E |
| A1 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 6.65 | 9:56 | 8.45 | 9.12 | 32.34 | 25.34 | 16.3 | 50 | 0.106 | E |
| A1 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:57 | 8.87 | 9.11 | 32.11 | 25.30 | 20.2 | 58 | 0.105 | E |
| A1 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:57 | 8.62 | 9.08 | 31.98 | 25.22 | 21.3 | 59 | 0.120 | E |
| A2 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:14 | 9.58 | 9.09 | 31.43 | 25.20 | 21.5 | 95 | 0.128 | E |
| A2 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:14 | 9.45 | 9.07 | 31.23 | 25.26 | 22.1 | 93 | 0.124 | E |
| A2 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 5.70 | 10:13 | 9.18 | 9.11 | 31.43 | 25.32 | 20.8 | 46 | 0.131 | E |
| A2 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 5.70 | 10:13 | 9.06 | 9.05 | 31.39 | 25.28 | 21.4 | 47 | 0.142 | E |
| A2 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 10.40 | 10:12 | 8.98 | 9.11 | 31.45 | 25.33 | 16.6 | 37 | 0.124 | E |
| A2 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 10.40 | 10:12 | 8.86 | 9.14 | 31.84 | 25.30 | 17.3 | 38 | 0.137 | E |
| A3 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:22 | 8.85 | 9.19 | 32.73 | 25.30 | 48.1 | 96 | 0.127 | E |
| A3 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:22 | 8.96 | 9.22 | 33.01 | 25.67 | 47.8 | 94 | 0.125 | E |
| A3 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 6.10 | 10:21 | 9.25 | 9.32 | 32.80 | 25.35 | 256.0 | 46 | 0.122 | E |
| A3 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 6.10 | 10:21 | 9.13 | 9.27 | 31.74 | 25.29 | 263.0 | 48 | 0.125 | E |
| A3 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 11.20 | 10:20 | 9.43 | 9.30 | 32.76 | 25.35 | 882.0 | 40 | 0.121 | E |
| A3 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 11.20 | 10:20 | 9.38 | 9.27 | 32.52 | 25.28 | 853.0 | 1290 | 0.135 | E |

Silt Curtain Pilot Test Data

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|-----------|-------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|---------------------------|----------------------|
| B1 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:52 | 8.64 | 9.34 | 34.47 | 26.12 | 9.8 | 18 | 0.143 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:52 | 8.49 | 9.12 | 34.27 | 26.09 | 10.5 | 19 | 0.143 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 4.15 | 9:51 | 8.71 | 9.43 | 34.28 | 26.01 | 8.6 | 16 | 0.144 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 4.15 | 9:51 | 8.47 | 9.03 | 34.26 | 25.98 | 8.9 | 15 | 0.145 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 7.30 | 9:50 | 8.52 | 9.42 | 34.42 | 25.93 | 8.7 | 14 | 0.142 | SE |
| B1 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 7.30 | 9:50 | 8.69 | 9.40 | 34.41 | 26.12 | 10.4 | 14 | 0.142 | SE |
| B2 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:14 | 8.62 | 9.14 | 34.44 | 26.00 | 9.9 | 13 | 0.174 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:14 | 8.58 | 9.25 | 34.29 | 26.13 | 9.6 | 12 | 0.183 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 10:13 | 8.54 | 9.16 | 34.39 | 25.95 | 10.4 | 12 | 0.175 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 10:13 | 8.48 | 9.30 | 34.36 | 25.96 | 10.4 | 11 | 0.155 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 10:12 | 8.48 | 9.28 | 34.31 | 25.93 | 11.1 | 11 | 0.177 | E |
| B2 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 10:12 | 8.73 | 9.18 | 34.54 | 25.98 | 10.7 | 11 | 0.177 | E |
| B3 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:25 | 8.71 | 9.23 | 34.35 | 26.01 | 9.1 | 14 | 0.159 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:25 | 8.52 | 9.21 | 34.44 | 26.06 | 9.6 | 13 | 0.171 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 4.15 | 10:22 | 8.75 | 9.37 | 34.29 | 26.22 | 6.5 | 12 | 0.164 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Flood | Middle | 4.15 | 10:22 | 8.68 | 9.28 | 34.26 | 26.08 | 6.1 | 12 | 0.172 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 7.30 | 10:20 | 8.57 | 9.32 | 34.28 | 25.95 | 8.2 | 11 | 0.152 | SE |
| B3 | 20201028 | Cloudy | Moderate | Mid-Flood | Bottom | 7.30 | 10:20 | 8.44 | 9.24 | 34.42 | 26.21 | 7.9 | 12 | 0.163 | SE |
| A1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.80 | 10:54 | 9.63 | 9.14 | 33.21 | 25.41 | 64.2 | 44 | 0.122 | SE |
| A1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.80 | 10:54 | 9.45 | 9.04 | 33.58 | 25.32 | 56.8 | 43 | 0.124 | SE |
| A1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 3.40 | 10:55 | 9.51 | 9.17 | 33.15 | 25.30 | 59.8 | 36 | 0.121 | SE |
| A1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 3.40 | 10:55 | 9.50 | 9.08 | 33.60 | 25.30 | 57.5 | 34 | 0.127 | SE |
| A1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:56 | 9.08 | 8.92 | 33.28 | 25.36 | 83.2 | 26 | 0.123 | SE |
| A1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:56 | 9.15 | 9.16 | 33.49 | 25.39 | 71.0 | 25 | 0.127 | SE |
| A2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.70 | 11:24 | 9.37 | 8.82 | 33.11 | 25.40 | 86.3 | 26 | 0.090 | SE |
| A2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.70 | 11:24 | 9.44 | 8.82 | 33.35 | 25.38 | 75.2 | 27 | 0.090 | SE |
| A2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 3.35 | 11:25 | 9.05 | 8.89 | 33.13 | 25.35 | 59.8 | 18 | 0.093 | SE |

Silt Curtain Pilot Test Data

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[H] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|---------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| A2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 3.35 | 11:25 | 9.32 | 8.88 | 33.48 | 25.34 | 63.2 | 19 | 0.094 | SE |
| A2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:26 | 9.11 | 9.13 | 33.32 | 25.40 | 74.2 | 10 | 0.095 | SE |
| A2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:26 | 9.55 | 8.82 | 33.28 | 25.42 | 87.0 | 11 | 0.092 | SE |
| A3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.80 | 11:34 | 9.01 | 8.87 | 33.52 | 25.33 | 73.2 | 75 | 0.134 | SE |
| A3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.80 | 11:34 | 9.02 | 9.02 | 33.58 | 25.30 | 64.1 | 77 | 0.134 | SE |
| A3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 3.40 | 11:35 | 9.26 | 9.15 | 33.42 | 25.31 | 52.3 | 49 | 0.131 | SE |
| A3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 3.40 | 11:35 | 9.10 | 9.14 | 33.26 | 25.33 | 50.8 | 51 | 0.133 | SE |
| A3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:36 | 9.42 | 9.14 | 33.45 | 25.29 | 68.3 | 10 | 0.132 | SE |
| A3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:36 | 9.49 | 8.81 | 33.11 | 25.30 | 79.0 | 9 | 0.132 | SE |
| B1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.90 | 10:59 | 9.90 | 9.09 | 33.64 | 25.29 | 9.4 | 12 | 0.171 | SE |
| B1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.90 | 10:59 | 9.80 | 9.09 | 33.39 | 25.39 | 8.7 | 13 | 0.174 | SE |
| B1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 4.45 | 11:00 | 10.02 | 9.15 | 33.51 | 25.21 | 7.9 | 11 | 0.173 | SE |
| B1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 4.45 | 11:00 | 9.89 | 9.17 | 33.26 | 25.30 | 7.3 | 11 | 0.173 | SE |
| B1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:01 | 9.82 | 9.14 | 33.33 | 25.32 | 8.1 | 10 | 0.174 | SE |
| B1 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:01 | 9.70 | 9.10 | 33.45 | 25.37 | 7.0 | 10 | 0.170 | SE |
| B2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.20 | 11:10 | 9.99 | 9.13 | 33.34 | 25.34 | 8.6 | 12 | 0.189 | E |
| B2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.20 | 11:10 | 9.94 | 9.14 | 33.64 | 25.34 | 9.2 | 11 | 0.181 | E |
| B2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 4.60 | 11:11 | 9.76 | 9.07 | 33.48 | 25.40 | 8.6 | 10 | 0.186 | E |
| B2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 4.60 | 11:11 | 9.91 | 9.21 | 33.36 | 25.32 | 9.1 | 10 | 0.187 | E |
| B2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:12 | 10.00 | 9.09 | 33.46 | 25.31 | 8.7 | 10 | 0.187 | E |
| B2 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:12 | 9.91 | 9.07 | 33.36 | 25.35 | 7.9 | 9 | 0.180 | E |
| B3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.10 | 11:28 | 10.09 | 9.16 | 33.32 | 25.32 | 8.4 | 12 | 0.213 | SE |
| B3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.10 | 11:28 | 9.84 | 9.21 | 33.36 | 25.23 | 8.4 | 12 | 0.200 | SE |
| B3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 4.55 | 11:29 | 10.11 | 9.17 | 33.49 | 25.26 | 8.6 | 10 | 0.200 | SE |
| B3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Middle | 4.55 | 11:29 | 10.12 | 9.07 | 33.45 | 25.27 | 8.6 | 10 | 0.234 | SE |
| B3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:30 | 10.08 | 9.20 | 33.28 | 25.30 | 9.4 | 10 | 0.240 | SE |
| B3 | 20201030 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:30 | 9.92 | 9.17 | 33.34 | 25.33 | 10.2 | 10 | 0.210 | SE |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Silt Curtain Pilot Test Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|-----------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| A1 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 3.80 | 16:06 | 9.24 | 9.06 | 33.40 | 25.29 | 81.1 | 410 | 0.144 | W |
| A1 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 3.80 | 16:06 | 9.77 | 9.07 | 33.42 | 25.25 | 86.0 | 420 | 0.169 | W |
| A1 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:08 | 9.32 | 9.16 | 33.53 | 25.38 | 79.3 | 82 | 0.159 | W |
| A1 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:08 | 9.87 | 9.15 | 33.55 | 25.24 | 67.8 | 80 | 0.143 | W |
| A2 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 3.80 | 16:17 | 9.37 | 9.17 | 33.43 | 25.23 | 136.0 | 486 | 0.129 | W |
| A2 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 3.80 | 16:17 | 9.57 | 9.09 | 33.44 | 25.34 | 118.0 | 494 | 0.122 | W |
| A2 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:19 | 9.86 | 9.08 | 33.50 | 25.29 | 120.0 | 185 | 0.120 | W |
| A2 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:19 | 9.74 | 9.17 | 33.55 | 25.25 | 129.0 | 187 | 0.157 | W |
| A3 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 3.50 | 16:27 | 9.64 | 9.14 | 33.41 | 25.36 | 79.9 | 91 | 0.167 | W |
| A3 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 3.50 | 16:27 | 9.49 | 9.16 | 33.50 | 25.24 | 88.0 | 96 | 0.126 | W |
| A3 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:29 | 9.74 | 9.07 | 33.49 | 25.25 | 73.4 | 169 | 0.173 | W |
| A3 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:29 | 9.85 | 9.10 | 33.56 | 25.27 | 79.9 | 170 | 0.156 | W |
| B1 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 16:07 | 9.81 | 9.23 | 33.28 | 25.48 | 10.2 | 10 | 0.243 | NW |
| B1 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 16:07 | 9.97 | 9.23 | 33.52 | 25.47 | 9.3 | 10 | 0.244 | NW |
| B1 | 20201030 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 16:08 | 9.51 | 9.38 | 33.27 | 25.45 | 8.5 | 10 | 0.250 | NW |
| B1 | 20201030 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 16:08 | 9.92 | 9.27 | 33.36 | 25.42 | 8.3 | 10 | 0.251 | NW |
| B1 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:09 | 10.17 | 9.22 | 33.35 | 25.43 | 9.2 | 9 | 0.256 | NW |
| B1 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:09 | 9.89 | 9.31 | 33.46 | 25.49 | 9.4 | 9 | 0.252 | NW |
| B2 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 16:22 | 9.61 | 9.25 | 33.43 | 25.49 | 10.8 | 9 | 0.249 | W |
| B2 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 16:22 | 9.75 | 9.38 | 33.55 | 25.36 | 9.6 | 9 | 0.248 | W |
| B2 | 20201030 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 16:23 | 10.04 | 9.35 | 33.40 | 25.39 | 9.0 | 9 | 0.247 | W |
| B2 | 20201030 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 16:23 | 10.20 | 9.37 | 33.53 | 25.34 | 9.5 | 9 | 0.231 | W |
| B2 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:24 | 9.87 | 9.31 | 33.45 | 25.34 | 8.9 | 10 | 0.247 | W |
| B2 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:24 | 10.29 | 9.38 | 33.45 | 25.48 | 8.8 | 10 | 0.239 | W |
| B3 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 16:28 | 9.72 | 9.38 | 33.34 | 25.49 | 9.2 | 11 | 0.211 | W |
| B3 | 20201030 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 16:28 | 9.77 | 9.24 | 33.57 | 25.49 | 8.6 | 10 | 0.208 | W |
| B3 | 20201030 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 16:29 | 9.80 | 9.29 | 33.59 | 25.31 | 7.9 | 10 | 0.219 | W |

Silt Curtain Pilot Test Data

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|-----------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| B3 | 20201030 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 16:29 | 10.28 | 9.37 | 33.29 | 25.46 | 8.1 | 9 | 0.205 | W |
| B3 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:30 | 9.47 | 9.22 | 33.44 | 25.42 | 8.5 | 7 | 0.215 | W |
| B3 | 20201030 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:30 | 10.06 | 9.29 | 33.56 | 25.41 | 7.4 | 7 | 0.198 | W |
| A1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:37 | 9.08 | 8.91 | 29.36 | 25.82 | 109.0 | 63 | 0.098 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:37 | 9.18 | 8.99 | 29.59 | 25.77 | 135.0 | 63 | 0.096 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.20 | 12:36 | 9.23 | 8.83 | 29.93 | 25.81 | 129.0 | 40 | 0.105 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.20 | 12:36 | 9.87 | 8.95 | 29.63 | 25.69 | 136.0 | 40 | 0.102 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.40 | 12:35 | 9.24 | 8.84 | 29.37 | 25.65 | 118.0 | 23 | 0.112 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.40 | 12:35 | 9.22 | 8.75 | 29.69 | 25.73 | 136.0 | 23 | 0.106 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:49 | 9.16 | 8.96 | 29.36 | 25.61 | 97.0 | 66 | 0.126 | E |
| A2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:49 | 9.13 | 8.91 | 29.46 | 25.76 | 110.0 | 63 | 0.127 | E |
| A2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.30 | 12:48 | 8.79 | 8.79 | 29.76 | 25.84 | 143.0 | 37 | 0.122 | E |
| A2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.30 | 12:48 | 10.01 | 8.94 | 29.70 | 25.88 | 152.0 | 36 | 0.117 | E |
| A2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.60 | 12:47 | 9.30 | 8.84 | 29.38 | 25.48 | 189.0 | 33 | 0.120 | E |
| A2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.60 | 12:47 | 8.91 | 8.76 | 29.38 | 25.58 | 210.0 | 32 | 0.118 | E |
| A3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:07 | 8.98 | 8.97 | 29.57 | 25.84 | 143.0 | 122 | 0.102 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:07 | 9.09 | 8.86 | 29.56 | 25.86 | 128.0 | 124 | 0.101 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.30 | 13:06 | 9.13 | 8.79 | 29.76 | 25.70 | 101.0 | 104 | 0.098 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.30 | 13:06 | 9.09 | 8.76 | 29.93 | 25.70 | 113.0 | 107 | 0.098 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.60 | 13:05 | 8.70 | 8.89 | 29.57 | 25.68 | 85.0 | 78 | 0.094 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.60 | 13:05 | 8.94 | 8.83 | 29.35 | 25.66 | 97.0 | 80 | 0.099 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:44 | 9.05 | 8.83 | 29.76 | 25.74 | 1.9 | 8 | 0.202 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:44 | 9.04 | 8.78 | 29.72 | 25.80 | 2.0 | 8 | 0.256 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.90 | 12:45 | 8.71 | 8.89 | 29.67 | 25.80 | 1.9 | 6 | 0.207 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 3.90 | 12:45 | 8.90 | 8.86 | 30.01 | 25.90 | 1.7 | 6 | 0.219 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.80 | 12:46 | 6.88 | 8.80 | 30.01 | 25.57 | 1.7 | 3 | 0.236 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.80 | 12:46 | 7.67 | 8.80 | 29.74 | 25.80 | 1.8 | 3 | 0.254 | SE |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Silt Curtain Pilot Test Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|-----------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| B2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.00 | 12:59 | 11.29 | 8.87 | 29.63 | 25.96 | 1.6 | 8 | 0.186 | SE |
| B2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.00 | 12:59 | 10.46 | 8.78 | 29.81 | 25.90 | 1.9 | 8 | 0.193 | SE |
| B2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 4.00 | 12:58 | 8.98 | 8.83 | 29.92 | 25.88 | 1.8 | 6 | 0.195 | SE |
| B2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 4.00 | 12:58 | 9.18 | 8.88 | 29.80 | 25.65 | 1.7 | 6 | 0.185 | SE |
| B2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:57 | 8.84 | 8.78 | 30.02 | 25.62 | 1.6 | 4 | 0.192 | SE |
| B2 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:57 | 8.49 | 8.89 | 29.89 | 25.85 | 1.9 | 4 | 0.188 | SE |
| B3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 13:08 | 8.98 | 8.79 | 29.72 | 25.67 | 1.6 | 5 | 0.200 | SE |
| B3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 13:08 | 8.83 | 8.86 | 29.73 | 25.60 | 1.7 | 5 | 0.190 | SE |
| B3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 13:09 | 8.88 | 8.80 | 29.91 | 25.56 | 2.0 | 7 | 0.182 | SE |
| B3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 13:09 | 8.86 | 8.89 | 29.78 | 25.64 | 1.8 | 7 | 0.188 | SE |
| B3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:10 | 9.26 | 8.81 | 29.85 | 25.73 | 2.0 | 8 | 0.184 | SE |
| B3 | 20201103 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:10 | 9.01 | 8.79 | 30.08 | 25.63 | 1.7 | 8 | 0.192 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:35 | 10.42 | 9.36 | 33.51 | 25.43 | 240.0 | 279 | 0.149 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:35 | 10.35 | 9.37 | 33.33 | 25.50 | 272.0 | 280 | 0.149 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.35 | 16:34 | 10.29 | 9.30 | 33.62 | 25.38 | 270.0 | 222 | 0.137 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.35 | 16:34 | 10.56 | 9.33 | 33.48 | 25.44 | 246.0 | 220 | 0.138 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 5.70 | 16:33 | 9.43 | 9.35 | 33.70 | 25.39 | 237.0 | 185 | 0.139 | SE |
| A1 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 5.70 | 16:33 | 9.99 | 9.34 | 33.65 | 25.32 | 230.0 | 186 | 0.132 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:51 | 9.53 | 9.29 | 33.76 | 25.35 | 147.0 | 150 | 0.125 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:51 | 10.02 | 9.25 | 33.69 | 25.33 | 136.0 | 154 | 0.128 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 16:50 | 10.67 | 9.29 | 33.78 | 25.35 | 141.0 | 174 | 0.126 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 16:50 | 10.56 | 9.27 | 33.67 | 25.46 | 141.0 | 172 | 0.142 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 16:49 | 10.87 | 9.33 | 33.77 | 25.35 | 247.0 | 194 | 0.132 | SE |
| A2 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 16:49 | 10.56 | 9.30 | 33.50 | 25.28 | 278.0 | 199 | 0.124 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:02 | 9.49 | 9.22 | 33.74 | 25.31 | 52.3 | 15 | 0.112 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:02 | 9.78 | 9.34 | 33.69 | 25.36 | 46.0 | 14 | 0.109 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.60 | 17:01 | 10.03 | 9.20 | 33.78 | 25.33 | 29.9 | 46 | 0.104 | SE |

Silt Curtain Pilot Test Data

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level | Depth (m) Note[1] | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) | SS (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|--------------------|---------|---------------|-----------|----------------|-------------------------|-----------------|--------------|------|-----------|--------------|--------------------|--------------|------------------------------|----------------------|
| A3 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.60 | 17:01 | 10.09 | 9.14 | 33.67 | 25.36 | 34.3 | 47 | 0.115 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.20 | 17:00 | 10.84 | 9.45 | 33.73 | 25.33 | 366.0 | 214 | 0.100 | SE |
| A3 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.20 | 17:00 | 10.57 | 9.36 | 33.76 | 25.30 | 337.0 | 212 | 0.106 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:33 | 9.98 | 8.90 | 29.75 | 25.54 | 3.7 | 12 | 0.183 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:33 | 9.90 | 8.92 | 29.82 | 25.65 | 3.6 | 13 | 0.184 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 16:32 | 9.95 | 8.86 | 29.84 | 25.36 | 3.7 | 9 | 0.190 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 16:32 | 9.87 | 8.85 | 29.77 | 25.35 | 3.7 | 8 | 0.181 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 16:31 | 9.67 | 8.93 | 29.29 | 25.41 | 4.1 | 6 | 0.180 | SE |
| B1 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 16:31 | 9.86 | 8.80 | 29.86 | 25.56 | 3.8 | 6 | 0.182 | SE |
| B2 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:45 | 10.21 | 8.91 | 29.66 | 25.46 | 3.7 | 15 | 0.263 | E |
| B2 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:45 | 9.89 | 8.83 | 29.75 | 25.39 | 3.4 | 14 | 0.207 | E |
| B2 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.90 | 16:44 | 9.86 | 8.87 | 29.86 | 25.58 | 3.6 | 13 | 0.264 | E |
| B2 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.90 | 16:44 | 9.97 | 8.90 | 29.87 | 25.60 | 3.4 | 13 | 0.242 | E |
| B2 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.80 | 16:43 | 9.48 | 8.89 | 28.94 | 25.45 | 3.9 | 11 | 0.267 | E |
| B2 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.80 | 16:43 | 9.78 | 8.95 | 29.80 | 25.60 | 3.8 | 11 | 0.265 | E |
| B3 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:54 | 9.96 | 8.93 | 29.72 | 25.37 | 3.7 | 13 | 0.222 | E |
| B3 | 20201103 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:54 | 9.82 | 8.97 | 29.84 | 25.66 | 3.7 | 13 | 0.223 | E |
| B3 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 16:53 | 9.79 | 8.90 | 29.95 | 25.66 | 3.6 | 10 | 0.233 | E |
| B3 | 20201103 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 16:53 | 9.79 | 8.92 | 29.71 | 25.54 | 3.4 | 10 | 0.230 | E |
| B3 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 16:52 | 9.36 | 8.89 | 30.40 | 25.37 | 3.8 | 9 | 0.222 | E |
| B3 | 20201103 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 16:52 | 9.96 | 8.86 | 29.93 | 25.51 | 3.4 | 9 | 0.231 | E |

Note 1: The water depths of A1- A3 during Mid-flood period on 30 Oct 2020 were less than 6m, sampling events were only conducted on surface level and bottom level.

Appendix C: Laboratory Testing Report



SAMPLE SUBMISSION FORM (Environmental test)

Note: * The following information is required to expedite sample analysis. Please complete all the necessary details and return this form with your samples. Test(s) will not be started until a COMPLETED form is received.
 # Items will be subject to additional charge and needed further confirmation & arrangement.

Reporting information for Final Report

*Company Name: Acuity Sustainability Consulting Limited
 *Client Contact: Name: Nelson Tsui Email: ntsui@acuityhk.com
 Tel: 69395531 Fax: _____
 *Report address to: Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon
 *Postal Address (if different): _____
 Soft copy report delivery (if different from above)
 Client Contact Name (1): Joe Ho Email: jho@acuityhk.com
 Client Contact Name (2): Sally Mok Email: peham@acuityhk.com

Billing information for Invoice (if different from reporting information for final report)

Note: * Client Name on Invoice will be the company Name of the final report.
 *Invoice to (c/o company): _____
 *Client Contact Name: _____ Tel: _____
 *Invoice address to: _____
 *Purchase Order/ Client Order No.: _____
 *ALS Quotation No.: HKE/2177/2018
 *Project Name/No.: IWMF
 Site Name (if any): _____



Sampling and delivery
 Sampling by: Client # ALS others: _____ Telephone: + 852 2610 1044
 *Sample(s) delivery by: Client # ALS others: Wai

*Expected TAT (Working days): Regular (7-10) Express (5) Double Express (3) Other (.....)

Other remarks:

SAMPLE ANALYTICAL REQUIREMENTS (Supplementary sheet attached Yes, No) pages No

| Lab ID Lab use only | *Sample ID. | Matrix | *Sampling Date/Time | *Analysis Required (Tests) |
|------------------------|----------------|-----------|---------------------|----------------------------|
| 1 | A1/S | Mid-Flood | 2020 Oct 28 | SS |
| 2 | A1/S/Duplicate | Mid-Flood | | |
| 3 | A1/M | Mid-Flood | | |
| 4 | A1/M/Duplicate | Mid-Flood | | |
| 5 | A1/B | Mid-Flood | | |
| 6 | A1/B/Duplicate | Mid-Flood | | |
| 7 | A2/S | Mid-Flood | | |
| 8 | A2/S/Duplicate | Mid-Flood | | |
| 9 | A2/M | Mid-Flood | | |
| 10 | A2/M/Duplicate | Mid-Flood | | |
| 11 | A2/B | Mid-Flood | | |
| 12 | A2/B/Duplicate | Mid-Flood | | |

| | | | | |
|----|----------------|-----------|--|--|
| 13 | A3/S | Mid-Flood | | |
| 14 | A3/S/Duplicate | Mid-Flood | | |
| 15 | A3/M | Mid-Flood | | |
| 16 | A3/M/Duplicate | Mid-Flood | | |
| 17 | A3/B | Mid-Flood | | |
| 18 | A3/B/Duplicate | Mid-Flood | | |
| 19 | B1/S | Mid-Flood | | |
| 20 | B1/S/Duplicate | Mid-Flood | | |
| 21 | B1/M | Mid-Flood | | |
| 22 | B1/M/Duplicate | Mid-Flood | | |
| 23 | B1/B | Mid-Flood | | |
| 24 | B1/B/Duplicate | Mid-Flood | | |
| 25 | B2/S | Mid-Flood | | |
| 26 | B2/S/Duplicate | Mid-Flood | | |
| 27 | B2/M | Mid-Flood | | |
| 28 | B2/M/Duplicate | Mid-Flood | | |
| 29 | B2/B | Mid-Flood | | |
| 30 | B2/B/Duplicate | Mid-Flood | | |
| 31 | B3/S | Mid-Flood | | |
| 32 | B3/S/Duplicate | Mid-Flood | | |
| 33 | B3/M | Mid-Flood | | |
| 34 | B3/M/Duplicate | Mid-Flood | | |
| 35 | B3/B | Mid-Flood | | |
| 36 | B3/B/Duplicate | Mid-Flood | | |
| 37 | A1/S | Mid-Ebb | | |
| 38 | A1/S/Duplicate | Mid-Ebb | | |
| 39 | A1/M | Mid-Ebb | | |
| 40 | A1/M/Duplicate | Mid-Ebb | | |
| 41 | A1/B | Mid-Ebb | | |
| 42 | A1/B/Duplicate | Mid-Ebb | | |
| 43 | A2/S | Mid-Ebb | | |
| 44 | A2/S/Duplicate | Mid-Ebb | | |
| 45 | A2/M | Mid-Ebb | | |
| 46 | A2/M/Duplicate | Mid-Ebb | | |
| 47 | A2/B | Mid-Ebb | | |
| 48 | A2/B/Duplicate | Mid-Ebb | | |
| 49 | A3/S | Mid-Ebb | | |
| 50 | A3/S/Duplicate | Mid-Ebb | | |

28/10/2020 SS

| | | | |
|----|----------------|---------|----|
| 51 | A3/M | Mid-Ebb | SS |
| 52 | A3/M/Duplicate | Mid-Ebb | |
| 53 | A3/B | Mid-Ebb | |
| 54 | A3/B/Duplicate | Mid-Ebb | |
| 55 | B1/S | Mid-Ebb | |
| 56 | B1/S/Duplicate | Mid-Ebb | |
| 57 | B1/M | Mid-Ebb | |
| 58 | B1/M/Duplicate | Mid-Ebb | |
| 59 | B1/B | Mid-Ebb | |
| 60 | B1/B/Duplicate | Mid-Ebb | |
| 61 | B2/S | Mid-Ebb | |
| 62 | B2/S/Duplicate | Mid-Ebb | |
| 63 | B2/M | Mid-Ebb | |
| 64 | B2/M/Duplicate | Mid-Ebb | |
| 65 | B2/B | Mid-Ebb | |
| 66 | B2/B/Duplicate | Mid-Ebb | |
| 67 | B3/S | Mid-Ebb | |
| 68 | B3/S/Duplicate | Mid-Ebb | |
| 69 | B3/M | Mid-Ebb | |
| 70 | B3/M/Duplicate | Mid-Ebb | |
| 71 | B3/B | Mid-Ebb | |
| 72 | B3/B/Duplicate | Mid-Ebb | |

SAMPLE RECEIVE INFO: (Lab Use Only)

Received Date/Time: 28 OCT 2020 11:30 Document Received Date/Time: / /

Sorting Date/Time: 28 OCT 2020 20:00 Esky Count: 3

Condition: Ambient / Chilled / Frozen Ice Bricks / Ice Yes / No

Bottle information: 1L Green

Tray No: N/A Sort by: *AKS*

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| | | | | | |
|--------------|---|--------------|---|----------------|-------------------|
| Client | : ACUITY SUSTAINABILITY CONSULTING LIMITED | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | : 1 of 6 |
| Contact | : NELSON TSUI | Contact | : Richard Fung | Work Order | : HK2038714 |
| Address | : 11/F, ROOM C, FORD GLORY PLAZA, 37-39 WING HONG STREET, CHEUNG SHA WAN, HONG KONG | Address | : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong | | |
| E-mail | : ntsui@acuityhk.com | E-mail | : richard.fung@alsglobal.com | | |
| Telephone | : 2698 9097 | Telephone | : +852 2610 1044 | Date received | : 28-Oct-2020 |
| Facsimile | : ---- | Facsimile | : +852 2610 2021 | Date of issue | : 30-Oct-2020 |
| Project | : IWMF | Quote number | : HKE/2177a/2018_R1 | No. of samples | : - Received : 72 |
| Order number | : --- | | | | : - Analysed : 72 |
| C-O-C number | : --- | | | | |
| Site | : | | | | |

This report may not be reproduced except with prior written approval from the testing laboratory.

This document has been signed by those names that appear on this report and are the authorised signatories.

Signature

Fung Lim Chee, Richard

Position

Managing Director

Authorised results for:

Inorganics

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



Page Number : 2 of 6
Client : ACUITY SUSTAINABILITY CONSULTING LIMITED
Work Order : HK2038714

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 28-Oct-2020 to 31-Oct-2020.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2038714 :

Sample(s) was/ were picked up from client by ALS staff. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.



Analytical Results

| Sub-Matrix: WATER | | Compound | | EA025: Suspended Solids (SS) | | | |
|-------------------|-----------------------------|----------------------|----------|--|------|------|------|
| Client sample ID | Client sampling date / time | Laboratory sample ID | LOR Unit | 2 mg/L | | | |
| | | | | EA/ED: Physical and Aggregate Properties | | | |
| A1/S | 28-Oct-2020 | HK2038714-001 | | 33 | **** | **** | **** |
| A1/S/Duplicate | 28-Oct-2020 | HK2038714-002 | | 34 | **** | **** | **** |
| A1/M | 28-Oct-2020 | HK2038714-003 | | 49 | **** | **** | **** |
| A1/M/Duplicate | 28-Oct-2020 | HK2038714-004 | | 50 | **** | **** | **** |
| A1/B | 28-Oct-2020 | HK2038714-005 | | 58 | **** | **** | **** |
| A1/B/Duplicate | 28-Oct-2020 | HK2038714-006 | | 59 | **** | **** | **** |
| A2/S | 28-Oct-2020 | HK2038714-007 | | 95 | **** | **** | **** |
| A2/S/Duplicate | 28-Oct-2020 | HK2038714-008 | | 93 | **** | **** | **** |
| A2/M | 28-Oct-2020 | HK2038714-009 | | 46 | **** | **** | **** |
| A2/M/Duplicate | 28-Oct-2020 | HK2038714-010 | | 47 | **** | **** | **** |
| A2/B | 28-Oct-2020 | HK2038714-011 | | 37 | **** | **** | **** |
| A2/B/Duplicate | 28-Oct-2020 | HK2038714-012 | | 38 | **** | **** | **** |
| A3/S | 28-Oct-2020 | HK2038714-013 | | 96 | **** | **** | **** |
| A3/S/Duplicate | 28-Oct-2020 | HK2038714-014 | | 94 | **** | **** | **** |
| A3/M | 28-Oct-2020 | HK2038714-015 | | 46 | **** | **** | **** |
| A3/M/Duplicate | 28-Oct-2020 | HK2038714-016 | | 48 | **** | **** | **** |
| A3/B | 28-Oct-2020 | HK2038714-017 | | 40 | **** | **** | **** |
| A3/B/Duplicate | 28-Oct-2020 | HK2038714-018 | | 1290 | **** | **** | **** |
| B1/S | 28-Oct-2020 | HK2038714-019 | | 18 | **** | **** | **** |
| B1/S/Duplicate | 28-Oct-2020 | HK2038714-020 | | 19 | **** | **** | **** |
| B1/M | 28-Oct-2020 | HK2038714-021 | | 16 | **** | **** | **** |
| B1/M/Duplicate | 28-Oct-2020 | HK2038714-022 | | 15 | **** | **** | **** |
| B1/B | 28-Oct-2020 | HK2038714-023 | | 14 | **** | **** | **** |
| B1/B/Duplicate | 28-Oct-2020 | HK2038714-024 | | 14 | **** | **** | **** |
| B2/S | 28-Oct-2020 | HK2038714-025 | | 13 | **** | **** | **** |
| B2/S/Duplicate | 28-Oct-2020 | HK2038714-026 | | 12 | **** | **** | **** |
| B2/M | 28-Oct-2020 | HK2038714-027 | | 12 | **** | **** | **** |
| B2/M/Duplicate | 28-Oct-2020 | HK2038714-028 | | 11 | **** | **** | **** |
| B2/B | 28-Oct-2020 | HK2038714-029 | | 11 | **** | **** | **** |
| B2/B/Duplicate | 28-Oct-2020 | HK2038714-030 | | 11 | **** | **** | **** |
| B3/S | 28-Oct-2020 | HK2038714-031 | | 14 | **** | **** | **** |



| Sub-Matrix: WATER | | Compound | | EA025: Suspended Solids (SS) | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties |
|-------------------|-----------------------------|----------------------|----------|------------------------------|--|--|--|--|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | LOR Unit | 2 mg/L | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties |
| B3/S/Duplicate | 28-Oct-2020 | HK2038714-032 | | 13 | | | | | | |
| B3/M | 28-Oct-2020 | HK2038714-033 | | 12 | | | | | | |
| B3/M/Duplicate | 28-Oct-2020 | HK2038714-034 | | 12 | | | | | | |
| B3/B | 28-Oct-2020 | HK2038714-035 | | 11 | | | | | | |
| B3/B/Duplicate | 28-Oct-2020 | HK2038714-036 | | 12 | | | | | | |
| A1/S | 28-Oct-2020 | HK2038714-037 | | 15 | | | | | | |
| A1/S/Duplicate | 28-Oct-2020 | HK2038714-038 | | 15 | | | | | | |
| A1/M | 28-Oct-2020 | HK2038714-039 | | 17 | | | | | | |
| A1/M/Duplicate | 28-Oct-2020 | HK2038714-040 | | 17 | | | | | | |
| A1/B | 28-Oct-2020 | HK2038714-041 | | 115 | | | | | | |
| A1/B/Duplicate | 28-Oct-2020 | HK2038714-042 | | 2610 | | | | | | |
| A2/S | 28-Oct-2020 | HK2038714-043 | | 47 | | | | | | |
| A2/S/Duplicate | 28-Oct-2020 | HK2038714-044 | | 20 | | | | | | |
| A2/M | 28-Oct-2020 | HK2038714-045 | | 20 | | | | | | |
| A2/M/Duplicate | 28-Oct-2020 | HK2038714-046 | | 19 | | | | | | |
| A2/B | 28-Oct-2020 | HK2038714-047 | | 361 | | | | | | |
| A2/B/Duplicate | 28-Oct-2020 | HK2038714-048 | | 214 | | | | | | |
| A3/S | 28-Oct-2020 | HK2038714-049 | | 1760 | | | | | | |
| A3/S/Duplicate | 28-Oct-2020 | HK2038714-050 | | 30 | | | | | | |
| A3/M | 28-Oct-2020 | HK2038714-051 | | 15700 | | | | | | |
| A3/M/Duplicate | 28-Oct-2020 | HK2038714-052 | | 1580 | | | | | | |
| A3/B | 28-Oct-2020 | HK2038714-053 | | 3100 | | | | | | |
| A3/B/Duplicate | 28-Oct-2020 | HK2038714-054 | | 13600 | | | | | | |
| B1/S | 28-Oct-2020 | HK2038714-055 | | 16 | | | | | | |
| B1/S/Duplicate | 28-Oct-2020 | HK2038714-056 | | 15 | | | | | | |
| B1/M | 28-Oct-2020 | HK2038714-057 | | 21 | | | | | | |
| B1/M/Duplicate | 28-Oct-2020 | HK2038714-058 | | 20 | | | | | | |
| B1/B | 28-Oct-2020 | HK2038714-059 | | 26 | | | | | | |
| B1/B/Duplicate | 28-Oct-2020 | HK2038714-060 | | 26 | | | | | | |
| B2/S | 28-Oct-2020 | HK2038714-061 | | 13 | | | | | | |
| B2/S/Duplicate | 28-Oct-2020 | HK2038714-062 | | 14 | | | | | | |
| B2/M | 28-Oct-2020 | HK2038714-063 | | 15 | | | | | | |
| B2/M/Duplicate | 28-Oct-2020 | HK2038714-064 | | 15 | | | | | | |



| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound LOR Unit | EA025: Suspended Solids (SS) 2 mg/L | | | | | | |
|------------------|-----------------------------|----------------------|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| | | | | EA025: Suspended Solids (SS) 2 mg/L | EA025: Suspended Solids (SS) 2 mg/L | EA025: Suspended Solids (SS) 2 mg/L | EA025: Suspended Solids (SS) 2 mg/L | EA025: Suspended Solids (SS) 2 mg/L | EA025: Suspended Solids (SS) 2 mg/L | |
| B2/B | 28-Oct-2020 | HK2038714-065 | | 17 | | | | | | |
| B2/B/Duplicate | 28-Oct-2020 | HK2038714-066 | | 18 | | | | | | |
| B3/S | 28-Oct-2020 | HK2038714-067 | | 14 | | | | | | |
| B3/S/Duplicate | 28-Oct-2020 | HK2038714-068 | | 14 | | | | | | |
| B3/M | 28-Oct-2020 | HK2038714-069 | | 14 | | | | | | |
| B3/M/Duplicate | 28-Oct-2020 | HK2038714-070 | | 15 | | | | | | |
| B3/B | 28-Oct-2020 | HK2038714-071 | | 21 | | | | | | |
| B3/B/Duplicate | 28-Oct-2020 | HK2038714-072 | | 22 | | | | | | |

Sub-Matrix: WATER



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | Method: Compound | | Laboratory Duplicate (DUP) Report | | | |
|---|------------------|------------------------------|-----|-----------------------------------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3335433) | | | | | | | |
| HK2038714-001 | A1/S | EA025: Suspended Solids (SS) | 2 | mg/L | 33 | 32 | 0.00 |
| HK2038714-011 | A2/B | EA025: Suspended Solids (SS) | 2 | mg/L | 37 | 38 | 0.00 |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3335434) | | | | | | | |
| HK2038714-021 | B1/M | EA025: Suspended Solids (SS) | 2 | mg/L | 16 | 16 | 0.00 |
| HK2038714-031 | B3/S | EA025: Suspended Solids (SS) | 2 | mg/L | 14 | 13 | 0.00 |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3335435) | | | | | | | |
| HK2038714-041 | A1/B | EA025: Suspended Solids (SS) | 2 | mg/L | 115 | 117 | 1.81 |
| HK2038714-055 | B1/S | EA025: Suspended Solids (SS) | 2 | mg/L | 16 | 15 | 7.97 |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3335436) | | | | | | | |
| HK2038714-061 | B2/S | EA025: Suspended Solids (SS) | 2 | mg/L | 13 | 14 | 0.00 |
| HK2038714-072 | B3/B Duplicate | EA025: Suspended Solids (SS) | 2 | mg/L | 22 | 21 | 7.64 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | | |
|--|------------|--------------------------|------|--|---------------------|------|------|---------------------|-------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | LCS | DCS | Recovery Limits (%) | Value | RPDs (%) | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 3335433) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | ---- | 2 | mg/L | <2 | 20 mg/L | 102 | ---- | 84.4 | 116 | ---- | ---- |
| EA/ED: Physical and Aggregate Properties (QCLot: 3335434) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | ---- | 2 | mg/L | <2 | 20 mg/L | 108 | ---- | 84.4 | 116 | ---- | ---- |
| EA/ED: Physical and Aggregate Properties (QCLot: 3335435) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | ---- | 2 | mg/L | <2 | 20 mg/L | 98.5 | ---- | 84.4 | 116 | ---- | ---- |
| EA/ED: Physical and Aggregate Properties (QCLot: 3335436) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | ---- | 2 | mg/L | <2 | 20 mg/L | 104 | ---- | 84.4 | 116 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



SAMPLE SUBMISSION FORM (Environmental test)

Note: The following information is required to expedite sample analysis. Please complete all the necessary details and return this form with your samples. Tests will not be started until a COMPLETED form is received. # Items will be subject to additional charge and unced further confirmation & arrangement.

Reporting Information for Final Report

*Company Name: Acuity Sustainability Consulting Limited
 *Client Contact: Name: Nelson Tsui Email: ntsui@acuityhk.com
 Tel: 69395551 Fax:
 *Report address to: Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon
 *Postal Address (if different):
 Soft copy report delivery (if different from above)
 *Client Contact Name (1st): Joe Ho Email: jho@acuityhk.com
 *Client Contact Name (2nd): Sally Mok / Peta Chan Email: pchan@acuityhk.com

Billing Information for Invoice (if different from reporting information for final report)

Note: Client Name on invoice will be the company Name of the final report.
 *Invoice to (c/o company):
 *Client Contact Name: _____ Tel:
 *Invoice address to:
 *Purchase Order/ Client Order No.: _____
 *ALS Quotation No.: HKE/2177/2018
 *Project Name/No.: IWMF
 Site Name (if any): _____

Environmental Division
Hong Kong
 Work Order Reference
HK2038726
 31/10



Telephone: + 862 2610 1044

Sampling and delivery
 Sampling by: Client ALS others: _____
 *Samples(s) delivery by: Client ALS others: M.S.Y.
 *Expected TAT (Working days): Regular (7-10) Express (5) #Double Express (3) Other (____)
 Other remark: _____

SAMPLE ANALYTICAL REQUIREMENTS (Supplementary sheet attached Yes, No)

| Lab ID | *Sample ID. | Matrix | *Sampling Date/Time | *Analysis Required (Tests) | pages |
|--------|----------------|-----------|---------------------|----------------------------|-------|
| 1 | A1/S | Mid-Flood | 2020 Oct 30 | SS | |
| 2 | A1/S/Duplicate | Mid-Flood | | | |
| 3 | A1/M | Mid-Flood | | | |
| 4 | A1/M/Duplicate | Mid-Flood | | | |
| 5 | A1/B | Mid-Flood | | | |
| 6 | A1/B/Duplicate | Mid-Flood | | | |
| 7 | A2/S | Mid-Flood | | | |
| 8 | A2/S/Duplicate | Mid-Flood | | | |
| 9 | A2/M | Mid-Flood | | | |
| 10 | A2/M/Duplicate | Mid-Flood | | | |
| 11 | A2/B | Mid-Flood | | | |
| 12 | A2/B/Duplicate | Mid-Flood | | | |

| | | | | | |
|----|----------------|-----------|--|--|--|
| 13 | A3/S | Mid-Flood | | | |
| 14 | A3/S/Duplicate | Mid-Flood | | | |
| 15 | A3/M | Mid-Flood | | | |
| 16 | A3/M/Duplicate | Mid-Flood | | | |
| 17 | A3/B | Mid-Flood | | | |
| 18 | A3/B/Duplicate | Mid-Flood | | | |
| 19 | B1/S | Mid-Flood | | | |
| 20 | B1/S/Duplicate | Mid-Flood | | | |
| 21 | B1/M | Mid-Flood | | | |
| 22 | B1/M/Duplicate | Mid-Flood | | | |
| 23 | B1/B | Mid-Flood | | | |
| 24 | B1/B/Duplicate | Mid-Flood | | | |
| 25 | B2/S | Mid-Flood | | | |
| 26 | B2/S/Duplicate | Mid-Flood | | | |
| 27 | B2/M | Mid-Flood | | | |
| 28 | B2/M/Duplicate | Mid-Flood | | | |
| 29 | B2/B | Mid-Flood | | | |
| 30 | B2/B/Duplicate | Mid-Flood | | | |
| 31 | B3/S | Mid-Flood | | | |
| 32 | B3/S/Duplicate | Mid-Flood | | | |
| 33 | B3/M | Mid-Flood | | | |
| 34 | B3/M/Duplicate | Mid-Flood | | | |
| 35 | B3/B | Mid-Flood | | | |
| 36 | B3/B/Duplicate | Mid-Flood | | | |
| 37 | A1/S | Mid-Ebb | | | |
| 38 | A1/S/Duplicate | Mid-Ebb | | | |
| 39 | A1/M | Mid-Ebb | | | |
| 40 | A1/M/Duplicate | Mid-Ebb | | | |
| 41 | A1/B | Mid-Ebb | | | |
| 42 | A1/B/Duplicate | Mid-Ebb | | | |
| 43 | A2/S | Mid-Ebb | | | |
| 44 | A2/S/Duplicate | Mid-Ebb | | | |
| 45 | A2/M | Mid-Ebb | | | |
| 46 | A2/M/Duplicate | Mid-Ebb | | | |
| 47 | A2/B | Mid-Ebb | | | |
| 48 | A2/B/Duplicate | Mid-Ebb | | | |
| 49 | A3/S | Mid-Ebb | | | |
| 50 | A3/S/Duplicate | Mid-Ebb | | | |

| | | | | | | |
|----|----------------|---------|--|--|--|----|
| 51 | A3/M | Mid-Ebb | | | | SS |
| 52 | A3/M/Duplicate | Mid-Ebb | | | | |
| 53 | A3/B | Mid-Ebb | | | | |
| 54 | A3/B/Duplicate | Mid-Ebb | | | | |
| 55 | B1/S | Mid-Ebb | | | | |
| 56 | B1/S/Duplicate | Mid-Ebb | | | | |
| 57 | B1/M | Mid-Ebb | | | | |
| 58 | B1/M/Duplicate | Mid-Ebb | | | | |
| 59 | B1/B | Mid-Ebb | | | | |
| 60 | B1/B/Duplicate | Mid-Ebb | | | | |
| 61 | B2/S | Mid-Ebb | | | | |
| 62 | B2/S/Duplicate | Mid-Ebb | | | | |
| 63 | B2/M | Mid-Ebb | | | | |
| 64 | B2/M/Duplicate | Mid-Ebb | | | | |
| 65 | B2/B | Mid-Ebb | | | | |
| 66 | B2/B/Duplicate | Mid-Ebb | | | | |
| 67 | B3/S | Mid-Ebb | | | | |
| 68 | B3/S/Duplicate | Mid-Ebb | | | | |
| 69 | B3/M | Mid-Ebb | | | | |
| 70 | B3/M/Duplicate | Mid-Ebb | | | | |
| 71 | B3/B | Mid-Ebb | | | | |
| 72 | B3/B/Duplicate | Mid-Ebb | | | | |

SAMPLE RECEIVE INFO: (Lab Use Only)

Received Date/Time: 10/10/2008 Document Received Date/Time: 10/10/2008
 Sorting Date/Time: 10/10/2008 Esky Count: 4
 Condition: Ambient / Chilled / Frozen [x] Ice Bricks / Ice [x] (es) No. 4
 Bottle Information: 1L Green X 66
 Tray No: N/A Sort by: [x]

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| | | | | | |
|--------------|---|--------------|---|----------------|-----------------|
| Client | : ACUITY SUSTAINABILITY CONSULTING LIMITED | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | : 1 of 6 |
| Contact | : NELSON TSUI | Contact | : Richard Fung | Work Order | : HK2038726 |
| Address | : 11/F, ROOM C, FORD GLORY PLAZA, 37-39 WING HONG STREET, CHEUNG SHA WAN, HONG KONG | Address | : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong | | |
| E-mail | : ntsui@acuityhk.com | E-mail | : richard.fung@alsglobal.com | | |
| Telephone | : 2698 9097 | Telephone | : +852 2610 1044 | Date received | : 30-Oct-2020 |
| Facsimile | : --- | Facsimile | : +852 2610 2021 | Date of issue | : 05-Nov-2020 |
| Project | : IWMF | Quote number | : HKEI2177a 2018_R1 | No. of samples | : Received : 66 |
| Order number | : --- | | | | : Analysed : 66 |
| C-O-C number | : --- | | | | |
| Site | : --- | | | | |

This report may not be reproduced except with prior written approval from the testing laboratory.

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory

Fung Lim Chee, Richard

Position

Managing Director

Inorganics

Authorised results for:

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



Page Number : 2 of 6
Client : ACUITY SUSTAINABILITY CONSULTING LIMITED
Work Order : HK2038726

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 30-Oct-2020 to 04-Nov-2020.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2038726 :

Sample(s) was/were picked up from client by ALS staff. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.



Analytical Results

| Sub-Matrix: WATER | | Compound | | EA025: Suspended Solids (SS) | | | | |
|-------------------|-----------------------------|----------------------|----------|--|--|--|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | LOR Unit | 2 mg/L | | | | |
| | | | | EA/ED: Physical and Aggregate Properties | | | | |
| A1/S | 30-Oct-2020 | HK2038726-001 | | 410 | | | | |
| A1/S/Duplicate | 30-Oct-2020 | HK2038726-002 | | 420 | | | | |
| A1/B | 30-Oct-2020 | HK2038726-005 | | 82 | | | | |
| A1/B/Duplicate | 30-Oct-2020 | HK2038726-006 | | 80 | | | | |
| A2/S | 30-Oct-2020 | HK2038726-007 | | 486 | | | | |
| A2/S/Duplicate | 30-Oct-2020 | HK2038726-008 | | 494 | | | | |
| A2/B | 30-Oct-2020 | HK2038726-011 | | 185 | | | | |
| A2/B/Duplicate | 30-Oct-2020 | HK2038726-012 | | 187 | | | | |
| A3/S | 30-Oct-2020 | HK2038726-013 | | 91 | | | | |
| A3/S/Duplicate | 30-Oct-2020 | HK2038726-014 | | 96 | | | | |
| A3/B | 30-Oct-2020 | HK2038726-017 | | 169 | | | | |
| A3/B/Duplicate | 30-Oct-2020 | HK2038726-018 | | 170 | | | | |
| B1/S | 30-Oct-2020 | HK2038726-019 | | 10 | | | | |
| B1/S/Duplicate | 30-Oct-2020 | HK2038726-020 | | 10 | | | | |
| B1/M | 30-Oct-2020 | HK2038726-021 | | 10 | | | | |
| B1/M/Duplicate | 30-Oct-2020 | HK2038726-022 | | 10 | | | | |
| B1/B | 30-Oct-2020 | HK2038726-023 | | 9 | | | | |
| B1/B/Duplicate | 30-Oct-2020 | HK2038726-024 | | 9 | | | | |
| B2/S | 30-Oct-2020 | HK2038726-025 | | 9 | | | | |
| B2/S/Duplicate | 30-Oct-2020 | HK2038726-026 | | 9 | | | | |
| B2/M | 30-Oct-2020 | HK2038726-027 | | 9 | | | | |
| B2/M/Duplicate | 30-Oct-2020 | HK2038726-028 | | 9 | | | | |
| B2/B | 30-Oct-2020 | HK2038726-029 | | 10 | | | | |
| B2/B/Duplicate | 30-Oct-2020 | HK2038726-030 | | 10 | | | | |
| B3/S | 30-Oct-2020 | HK2038726-031 | | 11 | | | | |
| B3/S/Duplicate | 30-Oct-2020 | HK2038726-032 | | 10 | | | | |
| B3/M | 30-Oct-2020 | HK2038726-033 | | 10 | | | | |
| B3/M/Duplicate | 30-Oct-2020 | HK2038726-034 | | 9 | | | | |
| B3/B | 30-Oct-2020 | HK2038726-035 | | 7 | | | | |
| B3/B/Duplicate | 30-Oct-2020 | HK2038726-036 | | 7 | | | | |
| A1/S | 30-Oct-2020 | HK2038726-037 | | 44 | | | | |



| Sub-Matrix: WATER | | Compound | | EA025: Suspended Solids (SS) 2 mg/L | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties |
|-------------------|-----------------------------|----------------------|----------|-------------------------------------|--|--|--|--|--|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | LOR Unit | | | | | | | | |
| A1/S/Duplicate | 30-Oct-2020 | HK2038726-038 | | 43 | | | | | | | |
| A1/M | 30-Oct-2020 | HK2038726-039 | | 36 | | | | | | | |
| A1/M/Duplicate | 30-Oct-2020 | HK2038726-040 | | 34 | | | | | | | |
| A1/B | 30-Oct-2020 | HK2038726-041 | | 26 | | | | | | | |
| A1/B/Duplicate | 30-Oct-2020 | HK2038726-042 | | 25 | | | | | | | |
| A2/S | 30-Oct-2020 | HK2038726-043 | | 26 | | | | | | | |
| A2/S/Duplicate | 30-Oct-2020 | HK2038726-044 | | 27 | | | | | | | |
| A2/M | 30-Oct-2020 | HK2038726-045 | | 18 | | | | | | | |
| A2/M/Duplicate | 30-Oct-2020 | HK2038726-046 | | 19 | | | | | | | |
| A2/B | 30-Oct-2020 | HK2038726-047 | | 10 | | | | | | | |
| A2/B/Duplicate | 30-Oct-2020 | HK2038726-048 | | 11 | | | | | | | |
| A3/S | 30-Oct-2020 | HK2038726-049 | | 75 | | | | | | | |
| A3/S/Duplicate | 30-Oct-2020 | HK2038726-050 | | 77 | | | | | | | |
| A3/M | 30-Oct-2020 | HK2038726-051 | | 49 | | | | | | | |
| A3/M/Duplicate | 30-Oct-2020 | HK2038726-052 | | 51 | | | | | | | |
| A3/B | 30-Oct-2020 | HK2038726-053 | | 10 | | | | | | | |
| A3/B/Duplicate | 30-Oct-2020 | HK2038726-054 | | 9 | | | | | | | |
| B1/S | 30-Oct-2020 | HK2038726-055 | | 12 | | | | | | | |
| B1/S/Duplicate | 30-Oct-2020 | HK2038726-056 | | 13 | | | | | | | |
| B1/M | 30-Oct-2020 | HK2038726-057 | | 11 | | | | | | | |
| B1/M/Duplicate | 30-Oct-2020 | HK2038726-058 | | 11 | | | | | | | |
| B1/B | 30-Oct-2020 | HK2038726-059 | | 10 | | | | | | | |
| B1/B/Duplicate | 30-Oct-2020 | HK2038726-060 | | 10 | | | | | | | |
| B2/S | 30-Oct-2020 | HK2038726-061 | | 12 | | | | | | | |
| B2/S/Duplicate | 30-Oct-2020 | HK2038726-062 | | 11 | | | | | | | |
| B2/M | 30-Oct-2020 | HK2038726-063 | | 10 | | | | | | | |
| B2/M/Duplicate | 30-Oct-2020 | HK2038726-064 | | 10 | | | | | | | |
| B2/B | 30-Oct-2020 | HK2038726-065 | | 10 | | | | | | | |
| B2/B/Duplicate | 30-Oct-2020 | HK2038726-066 | | 9 | | | | | | | |
| B3/S | 30-Oct-2020 | HK2038726-067 | | 12 | | | | | | | |
| B3/S/Duplicate | 30-Oct-2020 | HK2038726-068 | | 12 | | | | | | | |
| B3/M | 30-Oct-2020 | HK2038726-069 | | 10 | | | | | | | |
| B3/M/Duplicate | 30-Oct-2020 | HK2038726-070 | | 10 | | | | | | | |



| Sub-Matrix: WATER | | Compound | EA025: Suspended Solids (SS) | EA025: Suspended Solids (SS) | EA025: Suspended Solids (SS) | EA025: Suspended Solids (SS) | EA025: Suspended Solids (SS) | EA025: Suspended Solids (SS) | EA025: Suspended Solids (SS) |
|-------------------|-----------------------------|----------------------|--|--|--|--|--|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | 2 mg/L | 2 mg/L | 2 mg/L | 2 mg/L | 2 mg/L | 2 mg/L | 2 mg/L |
| B3/B | 30-Oct-2020 | HK2038726-071 | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties |
| B3/B/Duplicate | 30-Oct-2020 | HK2038726-072 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | Method: Compound | | Laboratory Duplicate (DUP) Report | | | |
|---|------------------|------------------|-----|-----------------------------------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340302) | | | | | | | |
| HK2038726-001 | A1/S | --- | 2 | mg/L | 410 | 412 | 0.462 |
| HK2038726-017 | A3/B | --- | 2 | mg/L | 169 | 167 | 1.34 |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340303) | | | | | | | |
| HK2038726-027 | B2/M | --- | 2 | mg/L | 9 | 9 | 0.00 |
| HK2038726-037 | A1/S | --- | 2 | mg/L | 44 | 43 | 0.00 |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340304) | | | | | | | |
| HK2038726-047 | A2/B | --- | 2 | mg/L | 10 | 11 | 0.00 |
| HK2038726-057 | B1/M | --- | 2 | mg/L | 11 | 11 | 0.00 |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340305) | | | | | | | |
| HK2038726-067 | B3/S | --- | 2 | mg/L | 12 | 12 | 0.00 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | |
|---|------------|-----|------|--------------------------|---------------------|------|--------------------|--|---------------------|-------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | LCS | Spike Recovery (%) | DCS | Recovery Limits (%) | Value | RPDs (%) | Control Limit |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340302) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 108 | --- | --- | 84.4 | 116 | --- | --- |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340303) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 102 | --- | --- | 84.4 | 116 | --- | --- |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340304) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 97.5 | --- | --- | 84.4 | 116 | --- | --- |
| EAJED: Physical and Aggregate Properties (QC Lot: 3340305) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 96.0 | --- | --- | 84.4 | 116 | --- | --- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



SAMPLE SUBMISSION FORM (Environmental test)

*Note: * The following information is required to expedite sample analysis. Please complete all the necessary details and return this form with your samples. Tests will not be started until a COMPLETED form is received.
 # Items will be subject to additional charge and needed further confirmation & arrangement.*

Reporting information for Final Report

*Company Name: Acuity Sustainability Consulting Limited
 *Client Contact: Name: Nelson Tsui Email: ntsui@acuityhk.com
 Tel: 69395551 Fax: _____
 *Report address to: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon
 *Postal Address (if different): _____

Soft copy report delivery (if different from above)

Client Contact Name (1): Joe Ho Email: jho@acuityhk.com
 Client Contact Name (2): Sally Mok / Patsy Chan Email: pchan@acuityhk.com

Billing information for Invoice (if different from reporting information for final report)

Note: Client Name on Invoice will be the company Name of the final report.
 *Invoice to (c/o company): _____
 *Client Contact Name: _____ Tel: _____
 Email: _____
 *Invoice address to: _____

***Purchase Order/ Client Order No:**

HKE/2177/2018

***ALS Quotation No:**

IWMF

***Project Name/No:**

Site Name (if any):

Sampling and delivery

Sampling by: Client # ALS others; _____

*Sample(s) delivery by: Client # ALS others; _____

*Expected TAT (Working days): Regular (7-10) #Express (5) #Double Express (3) #Other (____)

Other remark: _____

| Lab ID | *Sample ID. | Matrix | *Sampling Date/Time | *Analysis Required (Tests) |
|--------|----------------|-----------|---------------------|----------------------------|
| 1 | A1/S | Mid-Flood | 2020 Nov 3 | SS |
| 2 | A1/S/Duplicate | Mid-Flood | 3/11/2020 | SS |
| 3 | A1/M | Mid-Flood | | |
| 4 | A1/M/Duplicate | Mid-Flood | | |
| 5 | A1/B | Mid-Flood | | |
| 6 | A1/B/Duplicate | Mid-Flood | | |
| 7 | A2/S | Mid-Flood | | |
| 8 | A2/S/Duplicate | Mid-Flood | | |
| 9 | A2/M | Mid-Flood | | |
| 10 | A2/M/Duplicate | Mid-Flood | | |
| 11 | A2/B | Mid-Flood | | |
| 12 | A2/B/Duplicate | Mid-Flood | | |

SAMPLE ANALYTICAL REQUIREMENTS (Supplementary sheet attached Yes No) _____

| | | | | |
|----|----------------|-----------|--|--|
| 13 | A3/S | Mid-Flood | | |
| 14 | A3/S/Duplicate | Mid-Flood | | |
| 15 | A3/M | Mid-Flood | | |
| 16 | A3/M/Duplicate | Mid-Flood | | |
| 17 | A3/B | Mid-Flood | | |
| 18 | A3/B/Duplicate | Mid-Flood | | |
| 19 | B1/S | Mid-Flood | | |
| 20 | B1/S/Duplicate | Mid-Flood | | |
| 21 | B1/M | Mid-Flood | | |
| 22 | B1/M/Duplicate | Mid-Flood | | |
| 23 | B1/B | Mid-Flood | | |
| 24 | B1/B/Duplicate | Mid-Flood | | |
| 25 | B2/S | Mid-Flood | | |
| 26 | B2/S/Duplicate | Mid-Flood | | |
| 27 | B2/M | Mid-Flood | | |
| 28 | B2/M/Duplicate | Mid-Flood | | |
| 29 | B2/B | Mid-Flood | | |
| 30 | B2/B/Duplicate | Mid-Flood | | |
| 31 | B3/S | Mid-Flood | | |
| 32 | B3/S/Duplicate | Mid-Flood | | |
| 33 | B3/M | Mid-Flood | | |
| 34 | B3/M/Duplicate | Mid-Flood | | |
| 35 | B3/B | Mid-Flood | | |
| 36 | B3/B/Duplicate | Mid-Flood | | |
| 37 | A1/S | Mid-Ebb | | |
| 38 | A1/S/Duplicate | Mid-Ebb | | |
| 39 | A1/M | Mid-Ebb | | |
| 40 | A1/M/Duplicate | Mid-Ebb | | |
| 41 | A1/B | Mid-Ebb | | |
| 42 | A1/B/Duplicate | Mid-Ebb | | |
| 43 | A2/S | Mid-Ebb | | |
| 44 | A2/S/Duplicate | Mid-Ebb | | |
| 45 | A2/M | Mid-Ebb | | |
| 46 | A2/M/Duplicate | Mid-Ebb | | |
| 47 | A2/B | Mid-Ebb | | |
| 48 | A2/B/Duplicate | Mid-Ebb | | |
| 49 | A3/S | Mid-Ebb | | |
| 50 | A3/S/Duplicate | Mid-Ebb | | |

3/11/2020 SS

| | | | | |
|----|----------------|---------|-----------|----|
| 51 | A3/M | Mid-Ebb | 3/11/2020 | SS |
| 52 | A3/M/Duplicate | Mid-Ebb | | |
| 53 | A3/B | Mid-Ebb | | |
| 54 | A3/B/Duplicate | Mid-Ebb | | |
| 55 | B1/S | Mid-Ebb | | |
| 56 | B1/S/Duplicate | Mid-Ebb | | |
| 57 | B1/M | Mid-Ebb | | |
| 58 | B1/M/Duplicate | Mid-Ebb | | |
| 59 | B1/B | Mid-Ebb | | |
| 60 | B1/B/Duplicate | Mid-Ebb | | |
| 61 | B2/S | Mid-Ebb | | |
| 62 | B2/S/Duplicate | Mid-Ebb | | |
| 63 | B2/M | Mid-Ebb | | |
| 64 | B2/M/Duplicate | Mid-Ebb | | |
| 65 | B2/B | Mid-Ebb | | |
| 66 | B2/B/Duplicate | Mid-Ebb | | |
| 67 | B3/S | Mid-Ebb | | |
| 68 | B3/S/Duplicate | Mid-Ebb | | |
| 69 | B3/M | Mid-Ebb | | |
| 70 | B3/M/Duplicate | Mid-Ebb | | |
| 71 | B3/B | Mid-Ebb | | |
| 72 | B3/B/Duplicate | Mid-Ebb | | |

SAMPLE RECEIVE INFO: (Lab Use Only)

| | | | |
|---------------------|--|------------------------------|----------|
| Received Date/Time: | 3 NOV 2020 | Document Received Date/Time: | |
| Sorting Date/Time: | 3 NOV 2020 | Esky Count: | 4 |
| Condition: | Ambient / <input checked="" type="checkbox"/> Frozen | Ice Bricks / Ice | YES / NO |
| Bottle information: | 1L Green <input checked="" type="checkbox"/> | | |
| Tray No.: | N/A | Sort by: | 9 |

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| | | | | | |
|--------------|---|--------------|---|----------------|-------------------|
| Client | : ACUITY SUSTAINABILITY CONSULTING LIMITED | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | : 1 of 6 |
| Contact | : NELSON TSUI | Contact | : Richard Fung | Work Order | : HK2038732 |
| Address | : 11/F, ROOM C, FORD GLORY PLAZA, 37-39 WING HONG STREET, CHEUNG SHA WAN, HONG KONG | Address | : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong | | |
| E-mail | : ntsui@acuityhk.com | E-mail | : richard.fung@alsglobal.com | | |
| Telephone | : 2698 9097 | Telephone | : +852 2610 1044 | Date received | : 03-Nov-2020 |
| Facsimile | : --- | Facsimile | : +852 2610 2021 | Date of issue | : 06-Nov-2020 |
| Project | : IWMF | Quote number | : HKE/2177a/2018_R1 | No. of samples | : - Received : 72 |
| Order number | : --- | | | | : - Analysed : 72 |
| C-O-C number | : --- | | | | |
| Site | : --- | | | | |

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory

Fung Lim Chee, Richard

Position

Managing Director

Inorganics

Authorised results for:

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsglobal.com



Page Number : 2 of 6
Client : ACUITY SUSTAINABILITY CONSULTING LIMITED
Work Order : HK2038732

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 03-Nov-2020 to 06-Nov-2020.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2038732 :

Sample(s) was/were picked up from client by ALS staff . Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.



| Client sample ID | | Client sampling date / time | Compound | | EA025: Suspended Solids (SS) 2 mg/L | EA/ED: Physical and Aggregate Properties | | | | | | |
|------------------|--|-----------------------------|----------------------|----------|-------------------------------------|--|--|--|--|--|--|--|
| | | | Laboratory sample ID | LOR Unit | | | | | | | | |
| B3/S/Duplicate | | 03-Nov-2020 | HK2038732-032 | | 13 | | | | | | | |
| B3/M | | 03-Nov-2020 | HK2038732-033 | | 10 | | | | | | | |
| B3/M/Duplicate | | 03-Nov-2020 | HK2038732-034 | | 10 | | | | | | | |
| B3/B | | 03-Nov-2020 | HK2038732-035 | | 9 | | | | | | | |
| B3/B/Duplicate | | 03-Nov-2020 | HK2038732-036 | | 9 | | | | | | | |
| A1/S | | 03-Nov-2020 | HK2038732-037 | | 63 | | | | | | | |
| A1/S/Duplicate | | 03-Nov-2020 | HK2038732-038 | | 63 | | | | | | | |
| A1/M | | 03-Nov-2020 | HK2038732-039 | | 40 | | | | | | | |
| A1/M/Duplicate | | 03-Nov-2020 | HK2038732-040 | | 40 | | | | | | | |
| A1/B | | 03-Nov-2020 | HK2038732-041 | | 23 | | | | | | | |
| A1/B/Duplicate | | 03-Nov-2020 | HK2038732-042 | | 23 | | | | | | | |
| A2/S | | 03-Nov-2020 | HK2038732-043 | | 66 | | | | | | | |
| A2/S/Duplicate | | 03-Nov-2020 | HK2038732-044 | | 63 | | | | | | | |
| A2/M | | 03-Nov-2020 | HK2038732-045 | | 37 | | | | | | | |
| A2/M/Duplicate | | 03-Nov-2020 | HK2038732-046 | | 36 | | | | | | | |
| A2/B | | 03-Nov-2020 | HK2038732-047 | | 33 | | | | | | | |
| A2/B/Duplicate | | 03-Nov-2020 | HK2038732-048 | | 32 | | | | | | | |
| A3/S | | 03-Nov-2020 | HK2038732-049 | | 122 | | | | | | | |
| A3/S/Duplicate | | 03-Nov-2020 | HK2038732-050 | | 124 | | | | | | | |
| A3/M | | 03-Nov-2020 | HK2038732-051 | | 104 | | | | | | | |
| A3/M/Duplicate | | 03-Nov-2020 | HK2038732-052 | | 107 | | | | | | | |
| A3/B | | 03-Nov-2020 | HK2038732-053 | | 78 | | | | | | | |
| A3/B/Duplicate | | 03-Nov-2020 | HK2038732-054 | | 80 | | | | | | | |
| B1/S | | 03-Nov-2020 | HK2038732-055 | | 8 | | | | | | | |
| B1/S/Duplicate | | 03-Nov-2020 | HK2038732-056 | | 8 | | | | | | | |
| B1/M | | 03-Nov-2020 | HK2038732-057 | | 6 | | | | | | | |
| B1/M/Duplicate | | 03-Nov-2020 | HK2038732-058 | | 6 | | | | | | | |
| B1/B | | 03-Nov-2020 | HK2038732-059 | | 3 | | | | | | | |
| B1/B/Duplicate | | 03-Nov-2020 | HK2038732-060 | | 3 | | | | | | | |
| B2/S | | 03-Nov-2020 | HK2038732-061 | | 8 | | | | | | | |
| B2/S/Duplicate | | 03-Nov-2020 | HK2038732-062 | | 8 | | | | | | | |
| B2/M | | 03-Nov-2020 | HK2038732-063 | | 6 | | | | | | | |
| B2/M/Duplicate | | 03-Nov-2020 | HK2038732-064 | | 6 | | | | | | | |

Sub-Matrix: WATER



| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound LOR Unit | EA025: Suspended Solids (SS) | | | | | | | | | |
|------------------|-----------------------------|----------------------|-------------------|------------------------------|--|--|--|--|--|--|--|--|--|
| | | | | 2 mg/L | | | | | | | | | |
| B2/B | 03-Nov-2020 | HK2038732-065 | | 4 | | | | | | | | | |
| B2/B/Duplicate | 03-Nov-2020 | HK2038732-066 | | 4 | | | | | | | | | |
| B3/S | 03-Nov-2020 | HK2038732-067 | | 5 | | | | | | | | | |
| B3/S/Duplicate | 03-Nov-2020 | HK2038732-068 | | 5 | | | | | | | | | |
| B3/M | 03-Nov-2020 | HK2038732-069 | | 7 | | | | | | | | | |
| B3/M/Duplicate | 03-Nov-2020 | HK2038732-070 | | 7 | | | | | | | | | |
| B3/B | 03-Nov-2020 | HK2038732-071 | | 8 | | | | | | | | | |
| B3/B/Duplicate | 03-Nov-2020 | HK2038732-072 | | 8 | | | | | | | | | |

Sub-Matrix: WATER



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | Method: Compound | | Laboratory Duplicate (DUP) Report | | | |
|---|------------------|------------------------------|-----|-----------------------------------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3345237) | | | | | | | |
| HK2038732-001 | A1/S | EA025: Suspended Solids (SS) | 2 | mg/L | 279 | 282 | 1.05 |
| HK2038732-011 | A2/B | EA025: Suspended Solids (SS) | 2 | mg/L | 194 | 194 | 0.00 |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3345238) | | | | | | | |
| HK2038732-022 | B1/M/Duplicate | EA025: Suspended Solids (SS) | 2 | mg/L | 8 | 9 | 0.00 |
| HK2038732-031 | B3/S | EA025: Suspended Solids (SS) | 2 | mg/L | 13 | 13 | 0.00 |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3345239) | | | | | | | |
| HK2038732-041 | A1/B | EA025: Suspended Solids (SS) | 2 | mg/L | 23 | 23 | 0.00 |
| HK2038732-051 | A3/M | EA025: Suspended Solids (SS) | 2 | mg/L | 104 | 104 | 0.00 |
| EA/ED: Physical and Aggregate Properties (QC Lot: 3345240) | | | | | | | |
| HK2038732-061 | B2/S | EA025: Suspended Solids (SS) | 2 | mg/L | 8 | 8 | 0.00 |
| HK2038732-071 | B3/B | EA025: Suspended Solids (SS) | 2 | mg/L | 8 | 8 | 0.00 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | |
|--|------------|-----|------|--------------------------|---------------------|------|--------------------|--|---------------------|-------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | LCS | Spike Recovery (%) | DCS | Recovery Limits (%) | Value | RPDs (%) | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 3345237) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 107 | 84.4 | --- | 84.4 | 116 | --- | --- |
| EA/ED: Physical and Aggregate Properties (QCLot: 3345238) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 90.5 | 84.4 | --- | 84.4 | 116 | --- | --- |
| EA/ED: Physical and Aggregate Properties (QCLot: 3345239) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 108 | 84.4 | --- | 84.4 | 116 | --- | --- |
| EA/ED: Physical and Aggregate Properties (QCLot: 3345240) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | --- | 2 | mg/L | <2 | 20 mg/L | 99.0 | 84.4 | --- | 84.4 | 116 | --- | --- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

● No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Appendix D: Monitoring Photos





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|--|--------------------|---------------------------------|
| SUMMARY OF RESPONSE TO COMMENTS | | Page 1 of 1 |
| | | Comment issue date: 22 Feb 2021 |
| | | Issue date: 24 Sep 2021 |
| Submission Title: IWMF Test Report for Silt Curtain Efficiency Pilot Test (Rev A) | | Reviewer: EPD |
| COMMENT ITEM REF | REVIEWER'S COMMENT | ET'S RESPONSE |

| | | |
|----|--|--|
| 1. | Please explain why the sampling points of mid-Ebb and mid-Flood periods on Nov 3 were far apart from each other. | The sampling locations were followed with the actual location of dredging barge and the actual locations of dredging barges were arranged with the actual site condition and work procedure. Therefore, different sampling locations were applied on the three testing days. |
| 2. | Please explain why there were missing data for the tests on Oct 30. | As the depths of A1-A3 on Oct 30 were less than 6m, sampling events were only conducted at the surface level and bottom level with reference to general EM&A practice. A remark has been supplemented in Appendix B. |
| 3. | Please review if testing condition, such as weather, current, working method, etc., of mid-ebb test on Oct 30 was different from other tests. The efficiency of this standalone test was below 80%. It is recommended to take additional precautionary/mitigation measures during construction in that particular condition. | The testing condition on Oct 30 was similar with the other testing days after reviewing the data. |