| Contract No. EP/SP/66<br>Integrated Waste Mana | /12<br>gement Facilities, Phase 1 | Keppel Seghers – Zhen Hua Joint Venture |
|--|-----------------------------------|---|
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
|  |                                   |   |
| Appendix N                                     | Exceedance Report                 |   |
|  |                                   |   |
|  |                                   |   |

# Statistical Summary of Exceedances in the Reporting Period

|           | Wate         | r Quality   |       |
|-----------|--------------|-------------|-------|
| Location  | Action Level | Limit Level | Total |
| B1        | 3            | 7           | 10    |
| B2        | 4            | 5           | 9     |
| В3        | 3            | 5           | 8     |
| B4        | 5            | 4           | 9     |
| CR1       | 3            | 5           | 8     |
| CR2       | 1            | 6           | 7     |
| F1        | 4            | 1           | 5     |
| H1        | 3            | 2           | 5     |
| S1        | 1            | 6           | 7     |
| S2        | 1            | 4           | 5     |
| S3        | 1            | 5           | 6     |
| M1        | 2            | 7           | 9     |
| <u>I</u>  | Ν            | Joise       |       |
| Location  | Action Level | Limit Level | Total |
| M1 / N_S1 | 0            | 0           | 0     |
| M2 / N_S2 | 0            | 0           | 0     |
| M3 / N_S3 | 0            | 0           | 0     |

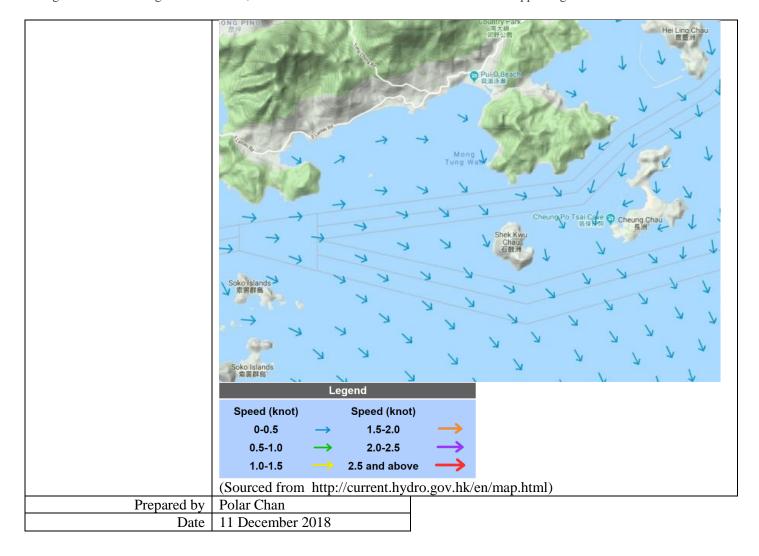
| Project   | Integrated Waste Managemen   | nt Facilities, Phase 1   |  |  |
|---|--|--|--|--|
| Date  | 03 December 2018 (Lab result received on 06 December 2018)   |  |  |  |
| Time  | 13:57 – 17:27 (Mid-Flood)  |  |  |  |
|   | Mid-Fl   | lood   |  |  |
| Monitoring Location   | B1, B2, B3, F1 & H1  + B1  • C1  | PROPOSED OUTFALL +  4 PROPOSED 132KV SUBMARINE CABLES  83  CR1  PROPOSED RECLAIMED AREA FOR THE IWMF | Key  A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |
|   |  |  |  |  |
| Parameter   | Suspended Solid (SS)   |  |  |  |
| Action & Limit Levels                                       | Action Level   | Limit Level  |  |  |
|   | $\geq$ 8.0 mg/L  | $\geq 10.0 \text{ mg/L}$   |  |  |
| Measurement Level   | Impact Station(s) of   | Control Stations   | Impact Station(s) without  |  |
|   | Exceedance   |  | Exceedance   |  |
|   | 8.5 mg/L (B1)  | 6.7 mg/L (C1)  | 5.8 mg/L (B4)  |  |
|   | 8.0 mg/L (B2)  | 6.5 mg/L (C2)  | 6.5 mg/L (M1)  |  |
|   | 8.0 mg/L (B3)  |  | 7.5 mg/L (CR1)   |  |
|   | 8.0 mg/L (F1)  |  | 6.8 mg/L (CR2)   |  |
|   | 8.2 mg/L (H1)  |  |  |  |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 03/12 include ground investigation (GI) work of 2 borehole drilling, DCM sample coring for pre-construction site trial and laying of geotextile with sand placing for ballasting at caisson seawall area.  Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  B1, B2, B3 and F1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project.  CR1 and CR2, the closest monitoring stations to the site location when comparing to H1 (upstream monitoring station), exhibited a much smaller SS level. No observation of silt plume was made during the sampling event. Silt curtain checking was implemented by the contractor and checking result showed that no deficiency of silt curtain was found on that day. It might suggest that the high SS level exceedance at |  |  |  |

|                             | H1 is deemed to be unrelated to the project.  |  |  |
|-----------------------------|---|--|--|
|                             | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 04/12, there was two observations might contribute the SS level increase where sand on the pontoon surface was nearly overflowed to the sea on FTB 19 and a big lump of sand was observed at the edge of the barge surface on 洋記 7. However, according to the rationale in the previous paragraph, these two observations were not considered as the source of SS exceedance at H1. |  |  |
| Actions taken / to be taken | The Contractor was reminded to clean up the sand more frequently and hence to avoid   |  |  |
|                             | the sand was leaked outside the silt curtain. The Contractor was reminded to use an   |  |  |
|                             | elongated soft hose to avoid the sand accumulation on the pontoon surface during sand   |  |  |
|                             | blanket laying process.   |  |  |
|                             | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.  |  |  |
| Remarks                     | Current direction during mid-flood sampling on 03/12:   |  |  |
|                             | Country Park    Applied   |  |  |
|                             | Legend  |  |  |
|                             | Speed (knot) Speed (knot)   |  |  |
|                             | 0-0.5 $\rightarrow$ 1.5-2.0 $\rightarrow$   |  |  |
|                             | $0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$   |  |  |
|                             | 1.0-1.5 -> 2.5 and above ->   |  |  |
| <i>n</i>                    | (Sourced from http://current.hydro.gov.hk/en/map.html)  |  |  |
| Prepared by                 | Polar Chan  |  |  |
| Date                        | 7 December 2018   |  |  |

| Project   | Integrated Waste Management Facilities, Phase 1 |  |   |  |
|---|---|--|---|--|
| Date  | 5 December 2018 (Lab result                     | t received on 10 December 20   | 18)   |  |
| Time  | 09:19 – 12:49 (Mid-Ebb)                         |  |   |  |
|   | 15:02 – 18:32 (Mid-Flood)                       |  |   |  |
|   | Mid-E   | Ebb  |   |  |
| Monitoring Location   | B3, B4, M1 & CR1                                |  |   |  |
|   | + B1 • S1-                                      | PROPOSED OUTFALL +  4 PROPOSED 132KV SUBMARINE CABLES  S2  H1  SHEK KWU CHAU  CR2  PROPOSED RECLAMED AREA FOR THE IMMF | Key  A PROPOSED 132KV SUBMARINE CABLE  MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |
| Parameter   | Suspended Solid (SS)                            |  |   |  |
| Action & Limit Levels                                       | Action Level                                    | Limit Level  |   |  |
| 7 tetion & Emili Levels                                     | $\geq 8.0 \text{ mg/L}$                         | $\geq 10.0 \text{ mg/L}$   |   |  |
| Measurement Level   | Impact Station(s) of                            | Control Stations   | Impact Station(s) without   |  |
| Weasurement Level   | Exceedance                                      | Control Stations   | Exceedance  |  |
|   | 9.3 mg/L (B3)                                   | 6.2 mg/L (C1)  |   |  |
|   |   | 6.3 mg/L (C1)  | 7.5 mg/L (B1)   |  |
|   | 8.8 mg/L (B4)                                   | 9.8 mg/L (C2)  | 7.8 mg/L (B2)   |  |
|   | 10.7 mg/L (M1)                                  |  | 7.5 mg/L (F1)   |  |
|   | 8.8 mg/L (CR1)                                  |  | 7.7 mg/L (H1)   |  |
|   |   |  | 5.3 mg/L (CR2)  |  |
| Possible reason for Action or<br>Limit Level Non-compliance |   |  |   |  |
|   |   |  |   |  |
|   |   |  |   |  |
|   |   |  |   |  |

| <b>-</b>                        |  |  |                              |   |
|---------------------------------|--|--|------------------------------|---|
|                                 | CR1 is deemed to be unrelat  | ed to the projec   | t.                           |   |
|                                 | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 4/12, where sand on the pontoon surface was nearly overflowed to the sea on FTB 19 and a big lump of sand was observed at the edge of the barge surface on 洋記 7. However, according to the rationale in the previous paragraph, these two observations were not considered as the source of SS exceedance. |  |                              |   |
| Actions taken / to be taken     |  |  |                              |   |
|                                 | The Contractor was reminded to clean up the sand more frequently and hence to avoid the sand was leaked outside the silt curtain. The Contractor was reminded to use an elongated soft hose to avoid the sand accumulation on the pontoon surface during sand blanket laying process.  |  |                              |   |
|                                 | Examination of environment weekly inspection, and the C  | Contractor is ren  | ninded to imple              |   |
|                                 | mitigation measures as per tl  | he Updated EM  | &A Manual.                   |   |
|                                 | Mid-F  | lood   |                              |   |
| Monitoring Location             | H1 B1 S  | PROPOSED OUTFALL +  PROPOSED OUTFALL +  PROPOSED TALL + | H1 SHEK KWU CHAU  CR2 S3 CR1 | Key  A PROPOSED 132KV SUBMARINE CABLE  MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |
| Danamatan                       | C1-1 C-1:1 (CC)  |  |                              |   |
| Parameter Action & Limit Levels | Suspended Solid (SS) Action Level  | 1  | Limit Level                  |   |
| Action & Limit Levels           | Action Level $\geq 10.0 \text{ mg/L } (120\% \text{ of C2})$   |  | $\geq 10.8 \text{ mg/L}$ (   | 130% of C2)   |
| Measurement Level               | Impact Station(s) of   | Control Stati  |                              | Impact Station(s) without   |
| Wiedstrement Level              | Exceedance   | Control Stati  | ons                          | Exceedance  |
|                                 | 11.0 mg/L (M1)   | 7.2 mg/L (C1   | )                            | 6.5 mg/L (B1)   |
|                                 | 11.0 mg/L (W11)  | 8.3 mg/L (C2   |                              | 8.0 mg/L (B2)   |
|                                 |  |  |                              | 7.0 mg/L (B3)   |
|                                 |  |  |                              | 6.8 mg/L (B4)   |
|                                 |  |  |                              | 8.3 mg/L (F1)   |
|                                 |  |  |                              | 5.7 mg/L (H1)   |
|                                 | 8.3 mg/L (CR1)   |  | 8.3 mg/L (CR1)               |   |
|                                 |  |  |                              | 7.8 mg/L (CR2)  |
| Possible reason for Action or   | Works scheduled on site on 05/12 include ground investigation (GI) work of 2   |  |                              |   |
| Limit Level Non-compliance      | borehole drilling, DCM sample coring for pre-construction site trial and laying of sand  |  |                              |   |
|                                 | blanket at caisson seawall area.   |  |                              |   |

Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring location is deemed to be unrelated to the Project. Silt curtain checking was implemented by contractor and checking result showed no deficiency of silt curtain was found. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 4/12, where sand on the pontoon surface was nearly overflowed to the sea on FTB 19 and a big lump of sand was observed at the edge of the barge surface on 洋記 7. However, according to the rationale in the previous paragraph, these two observations were not considered as the source of SS exceedance. Actions taken / to be taken The Contractor was reminded to clean up the sand more frequently and hence to avoid the sand was leaked outside the silt curtain. The Contractor was reminded to use an elongated soft hose to avoid the sand accumulation on the pontoon surface during sand blanket laying process. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-flood sampling on 5/12: Remarks Current direction during mid-flood sampling on 5/12:



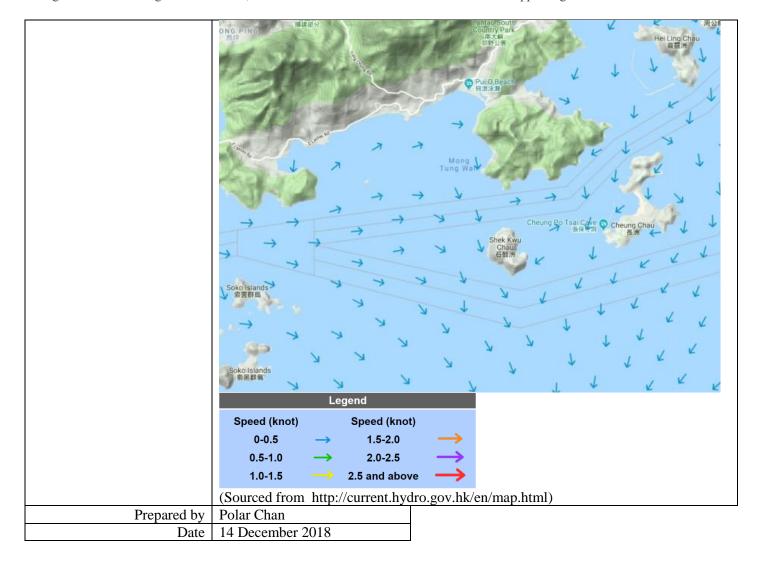
| Project   | Integrated Waste Management Facilities, Phase 1   |  |                              |   |
|---|---|--|------------------------------|---|
| Date  | 7 December 2018 (Lab result   | t received on 1  | 2 December 20                | 18)   |
| Time  | 10:51 – 14:21 (Mid-Ebb)   |  |                              |   |
|   | Mid-F   | Ebb  |                              |   |
| Monitoring Location   | B2 & B4   |  |                              |   |
|   | + B1 S1   | PROPOSED OUTFALL +  4 PROPOSED SUBMARINE CO SUBMARINE CO PROPOSED RECLAMM FOR THE IWMF | H1 SHEK KWU CHAU  CR2 83 CR1 | Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |
| Parameter   | Suspended Solid (SS)  |  |                              |   |
| Action & Limit Levels                                       | Action Level  |  | Limit Level                  |   |
| 7 Retion & Emili Levels                                     | $\geq$ 9.4 mg/L (120% of C1)  |  | $\geq 10.1 \text{ mg/L}$ (   | 120% of C1)   |
| Measurement Level   | Impact Station(s) of  | Control Stati  |                              | Impact Station(s) without   |
| Tyrougarement Ecver   | Exceedance  |  | ions                         | Exceedance  |
|   | 10.0 mg/L (B2)  | 7.8 mg/L (C  | 1)                           | 8.3 mg/L (B1)   |
|   | 9.8 mg/L (B4)   | 8.0 mg/L (C  |                              | 7.8 mg/L (B3)   |
|   |   | 8  | ,                            | 7.8 mg/L (F1)   |
|   |   |  |                              | 8.2 mg/L (H1)   |
|   |   |  |                              | 8.2 mg/L (M1)   |
|   |   |  |                              | 8.5 mg/L (CR1)  |
|   |   |  |                              | 9.2 mg/L (CR2)  |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 07/12 include ground investigation (GI) work of 2 borehole drilling, DCM sample coring for pre-construction site trial and laying of sand blanket at both caisson seawall area and DCM Plant Trial Area. |  |                              |   |
|   | Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.  |  |                              |   |
|   | B2 and B4 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project.                          |  |                              |   |
|   | Silt curtain checking was implemented by the contractor and checking result showed that no deficiency of silt curtain was found on that day.  |  |                              |   |
|   | Site tidiness in the present ba   | arges in the Pro   | oject site were cl           | necked during weekly site   |

|                             | inspection on 04/12, there was two observations might contribute the SS level increase   |  |  |  |
|-----------------------------|--|--|--|--|
|                             | where sand on the pontoon surface was nearly overflowed to the sea on FTB 19 and a   |  |  |  |
|                             | big lump of sand was observed at the edge of the barge surface on 祥記 7. However,   |  |  |  |
|                             | according to the rationale in previous paragraph, these two observations were not  |  |  |  |
|                             | considered as the source of SS exceedance.   |  |  |  |
| Actions taken / to be taken | Sand on the pontoon surface was picked up and poured into the hopper by the Contractor on 07/12. Also, the big lump of sand at the edge of the barge surface was cleaned by the Contractor on 07/12.   |  |  |  |
|                             |  |  |  |  |
|                             | The Contractor was reminded to clean up the sand more frequently and use an elongated soft hose, and hence to avoid the sand was leaked outside the silt curtain.  |  |  |  |
|                             | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.   |  |  |  |
| Remarks                     | Current direction during mid-ebb sampling on 7/12:   |  |  |  |
|                             | Entau South Country Park 原文語 图形的 Pui(O Beach) 原文語 图形的 Tung War  Cheung Po Tsai Cafe ② Cheung Chau 原文語  Shek Kwu Chau 石酸洲  Action Acti |  |  |  |
|                             | → × × × × × × × × × × × × × × × × × × ×  |  |  |  |
|                             |  |  |  |  |
|                             | oko islands  |  |  |  |
|                             | oko Islands<br>泰書群島  |  |  |  |
|                             | Legend   |  |  |  |
|                             | Speed (knot) Speed (knot)  |  |  |  |
|                             | 0-0.5 → 1.5-2.0 →  |  |  |  |
|                             | 0.5-1.0 → 2.0-2.5 →  |  |  |  |
|                             | 1.0-1.5 —> 2.5 and above —>  |  |  |  |
|                             | (Sourced from http://current.hydro.gov.hk/en/map.html)   |  |  |  |
| Prepared by                 | Polar Chan   |  |  |  |
| Date                        | 13 December 2018   |  |  |  |

| Project                       | Integrated Waste Management Facilities, Phase 1  |  |  |  |
|-------------------------------|--|--|--|--|
| Date                          | 10 December 2018 (Lab resu   | lt received on 13 Decer  | mber 2018)   |  |
| Time                          | 08:00 – 10:52 (Mid-Flood)  |  |  |  |
|                               | 12:37 – 16:07 (Mid-Ebb)  | 12:37 – 16:07 (Mid-Ebb)  |  |  |
|                               | Mid-Fl   | lood   |  |  |
| Monitoring Location           | B1, B2, B3, B4, F1, S2 & S3  |  |  |  |
|                               | + B1 S1  | A PROPOSED 132KV SUBMARINE CABLES  S2  H1  SHEK KWU CH  CR2  S3  PROPOSED RECLAIMED AREA FOR THE INMIF | RAU  Key  A PROPOSED 132KV SUBMARINE CABLE  MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |
| Parameter                     | Suspended Solid (SS)   |  |  |  |
| Action & Limit Levels         | Action Level   | Limit L  | evel   |  |
| Tieron & Zinnt Zevens         | ≥ 11.2 mg/L (120% of C2)   |  | mg/L (130 % of C2)   |  |
| Measurement Level             | Impact Station(s) of   | Control Stations   | Impact Station(s) without  |  |
|                               | Exceedance   |  | Exceedance   |  |
|                               | 13.0 mg/L (B1)   | 7.0 mg/L (C1)  | 8.8 mg/L (H1)  |  |
|                               | 13.8 mg/L (B2)   | 9.3 mg/L (C2)  | 7.3 mg/L (M1)  |  |
|                               | 14.0 mg/L (B3)   | 7.5 mg/L (C2)  | 11.0 mg/L (CR1)  |  |
|                               |  |  |  |  |
|                               | 13.3 mg/L (B4)   |  | 8.7 mg/L (CR2)   |  |
|                               | 12.2 mg/L (F1)   |  | 10.5 mg/L (S1)   |  |
|                               | 15.3 mg/L (S2)   |  |  |  |
|                               | 13.5 mg/L (S3)   |  |  |  |
| Possible reason for Action or | Works scheduled on site on 1   | 0/12 include ground in   | vestigation (GI) work of 2   |  |
| Limit Level Non-compliance    | borehole drilling and DCM sa   | ample coring for pre-co  | onstruction site trial, which shall  |  |
| -                             | not be a major source of SS of   | concentration increase c   | considering the limited scale and  |  |
|                               | nature of works.   |  |  |  |
|                               |  |  |  |  |
|                               | Dominating sea current direc   | tion was found to be fro   | om Southeast to Northwest at   |  |
|                               | waters around Shek Kwu Cha   |  | 311  |  |
|                               | waters around shok it wa ch  | au.  |  |  |
|                               | R1 R2 R3 R4 F1 and \$2 ar  | ra located at unralated c  | tream direction (neither upstream  |  |
|                               |  |  |  |  |
|                               | nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project. |  |  |  |
|                               |  |  |  |  |
|                               |  | 3  |  |  |
|                               |  | -  |  |  |
|                               | S3 is located close to the wor   | ks location within the F   | Project site, while no observation The absence of site works and   |  |

|   | above rationales might suggest that the high SS level exceedance at S3 is deemed to be unrelated to the project.  |                 |                             |   |
|---|---|-----------------|-----------------------------|---|
|   | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 14/12, where there was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.       |                 |                             |   |
| Actions taken / to be taken                                 | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.  Mid-Ebb   |                 |                             |   |
| Monitoring Location   | B1, B2, B3, H1, M1, CR1 &   |                 | SHER KWU CHAU  CR2  S3  CR1 | Key  A PROPOSED 132KV SUBMARINE CABLE  C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |
| Parameter   | Suspended Solid (SS)  |                 |                             |   |
| Action & Limit Levels                                       | Action Level  |                 | Limit Level                 |   |
|   | $\geq$ 8.2 mg/L (120% of C1)  |                 | $\geq 10.0 \text{ mg/L}$    |   |
| Measurement Level   | Impact Station(s) of Exceedance 10.8 mg/L (B1)  | Control Stati   |                             | Impact Station(s) without<br>Exceedance<br>6.0 mg/L (B4)  |
|   | 10.0 mg/L (B2)<br>10.0 mg/L (B3)<br>9.8 mg/L (H1)<br>9.7 mg/L (M1)<br>10.7 mg/L (CR1)<br>11.0 mg/L (CR2)  | 6.2 mg/L (C     |                             | 6.0 mg/L (F1)<br>6.5 mg/L (S1)<br>6.8 mg/L (S2)<br>7.7 mg/L (S3)  |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 10/12 include ground investigation (GI) work of 2 borehole drilling and DCM sample coring for pre-construction site trial, which shall not be a major source of SS concentration increase considering the limited scale and nature of works. |                 |                             |   |
|   | Dominating sea current direct waters around Shek Kwu Cha  |                 | d to be from So             | utheast to Northwest at   |
|   | B1, B2, B3 and M1 are located   | ed at unrelated | l stream direction          | on (neither upstream nor  |

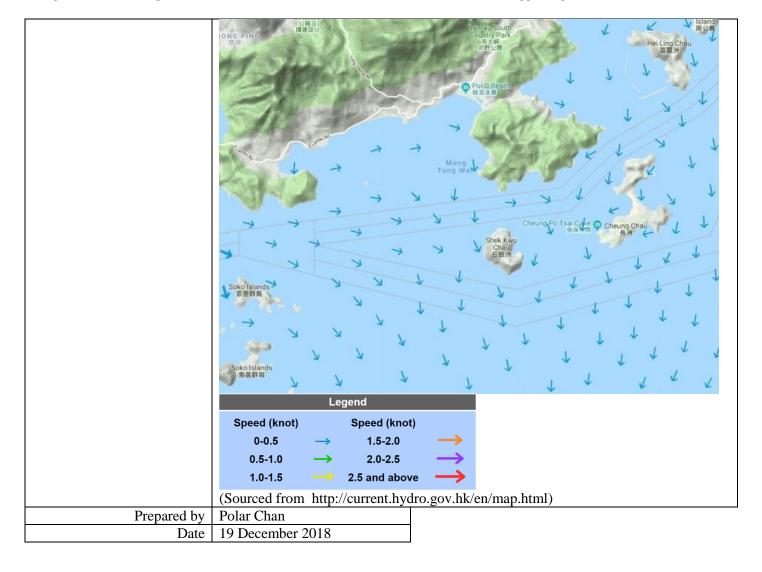
|                             | downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project.   |  |  |
|-----------------------------|--|--|--|
|                             | H1 is located upstream direction, CR1 is located at downstream direction and CR2 is located close to the works location within the Project site, while no observation of silt plume was made during the sampling event. The absence of site works and above rationales might suggest that the high SS level exceedance at H1, CR1 and CR2 are deemed to be unrelated to the project. |  |  |
|                             | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 14/12, where there was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.  |  |  |
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.   |  |  |
| Remarks                     | Current direction during mid-flood sampling on 10/12:    Country Park   Cheung Po Tsai Care   Cheung Chau  |  |  |



| Project                       | Integrated Waste Manageme  | ent Facilities, Phase 1  |   |  |
|-------------------------------|--|--|---|--|
| Date                          | 12 December 2018 (Lab result received on 18 December 2018)   |  |   |  |
| Time                          | 08:37 – 12:07 (Mid-Flood)  |  |   |  |
|                               | 14:09 – 16:51 (Mid-Ebb)  |  |   |  |
|                               | Mid-F  |  |   |  |
| Monitoring Location           | B1, B3, B4, M1, CR1, CR2,  | S1 & S3  |   |  |
|                               | + B1 (S1   | B2  4 PROPOSED OUTFALL +  4 PROPOSED 132RV SUBMARINE CABLES  S2  H1  SHEK KWU CHAU  GR2  FROPOSED RECLAMED AREA FOR THE IMMF | Key  A PROPOSED 132KV SUBMARINE CABLE  OC  MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |
| Parameter                     | Suspended Solid (SS)   |  |   |  |
| Action & Limit Levels         | Action Level   | Limit Level  |   |  |
|                               | ≥ 11.2 mg/L (120% of C2)   | $\geq$ 12.1 mg/L (   | (130 % of C2)   |  |
| Measurement Level             | Impact Station(s) of   | Control Stations   | Impact Station(s) without   |  |
|                               | Exceedance   |  | Exceedance  |  |
|                               | 12.3 mg/L (B1)   | 9.5 mg/L (C1)  | 11.0 mg/L (B2)  |  |
|                               | 12.3 mg/L (B3)   | 9.3 mg/L (C2)  | 10.7 mg/L (F1)  |  |
|                               | 14.8 mg/L (B4)   |  | 9.3 mg/L (H1)   |  |
|                               | 15.0 mg/L (M1)   |  | 10.7 mg/L (S2)  |  |
|                               | 13.3 mg/L (CR1)  |  |   |  |
|                               | 15.2 mg/L (CR2)  |  |   |  |
|                               | 13.5 mg/L (S1)   |  |   |  |
|                               | 13.7 mg/L (S3)   |  |   |  |
| Possible reason for Action or |  | 12/12 include ground investiga   | ation (GI) work of borehole   |  |
| Limit Level Non-compliance    |  | g for pre-construction site trial  |   |  |
| •                             |  | ng for ballasting and laying of  |   |  |
|                               |  | ing for banasting and laying of  | sand branket at caisson   |  |
|                               | seawall area.  |  |   |  |
|                               |  |  |   |  |
|                               | Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.   |  |   |  |
|                               | B1, B3, B4, S1, F1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project. |  |   |  |
|                               |  |  |   |  |

| Actions taken / to be taken                      | CR1 is located at upstream de location within the Project sit the sampling event. Silt curtar checking result showed that it Control stations and most of level of that tidal period, implewaters. It might suggest that deemed to be unrelated to the Site tidiness in the present base inspection on 14/12, where the that might contribute to the in Examination of environments weekly inspection, and the Comitigation measures as per the | te, while no obtain checking who deficiency of the monitoring dying the high the high SS level project.  The project of the pr | servation of silt as implemented of silt curtain was stations showed background SS well exceedance approximately between the project site were capior observations evel was observed of the Project winded to imple | t plume was made during by the contractor and as found on that day. d considerably high SS level of surrounding at CR1, CR2 & S3 are hecked during weekly site of improper site practice yed during the inspection. will be continued during the |
|--|---|--|---|--|
|  | Mid-F   | Ebb  |   |  |
| Monitoring Location                              | B1, M1 & S1  B10 (S1)   | PROPOSED OUTFALL +  4 PROPOSED 1  SUBMARINE CO  PROPOSED RECLAMME FOR THE IMME   | H1 SHEK KWU CHAU  CR2 S3 CR1  | Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY  |
| Parameter  | Suspended Solid (SS)  |  |   |  |
| Action & Limit Levels                            | Action Level  |  | Limit Level   |  |
|  | ≥ 15.0 mg/L (120% of C1)  |  | $\geq$ 16.3 mg/L (  |  |
| Measurement Level  Possible reason for Action or | Impact Station(s) of Exceedance 18.5 mg/L (B1) 17.0 mg/L (M1) 16.8 mg/L (S1)  Works scheduled on site on 1  | Control Stati<br>12.5 mg/L (C<br>13.2 mg/L (C  | C1)<br>C2)  | Impact Station(s) without Exceedance  11.5 mg/L (B2) 14.3 mg/L (B3) 11.8 mg/L (B4) 11.7 mg/L (F1) 12.0 mg/L (H1) 10.7 mg/L (CR1) 12.5 mg/L (CR2) 11.2 mg/L (S2) 13.0 mg/L (S3)   |
| Limit Level Non-compliance                       | drilling, DCM sample coring   |  |   |  |
| Limit Level Non-compitance                       | unning, DCM sample coring   | 101 pre-constr   | uction site that,   | Dem main works, laying   |

of geotextile with sand placing for ballasting and laying of sand blanket at caisson seawall area. Dominating sea current direction was found to be from Northwest to Southwest waters around Shek Kwu Chau. B1, S1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project. Silt curtain checking was implemented by the contractor and checking result showed that no deficiency of silt curtain was found on that day. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 14/12, where there was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Examination of environmental performance of the Project will be continued during the Actions taken / to be taken weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual. Remarks Current direction during mid-flood sampling on 12/12: Current direction during mid-ebb sampling on 12/12:



| Project                       | Integrated Waste Management Facilities, Phase 1  |  |                              |   |
|-------------------------------|--|--|------------------------------|---|
| Date                          | 15 December 2018 (Lab result received on 19 December 2018)   |  |                              |   |
| Time                          | 11:42 – 15:12 (Mid-Flood)  |  |                              |   |
|                               | Mid-Flood  |  |                              |   |
| Monitoring Location           | B1, B2, B3, B4, F1, M1, CR1, CR2, S1, S2 & S3  |  |                              |   |
|                               | + B10 (51  | PROPOSED OUTFALL +  PROPOSED SUBMARINE CO  PROPOSED RECLAMM FOR THE WIMF | H1 SHEK KWU CHAU  CR2 S3 CR1 | Key  A PROPOSED 132KV SUBMARINE CABLE  C MONITORING STATION PROPOSED OUTFALL THE IVMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IVMF SITE BOUNDARY |
| Parameter                     | Suspended Solid (SS)   |  |                              |   |
| Action & Limit Levels         | Action Level   |  | Limit Level                  |   |
| retion & Emilit Devels        | $\geq$ 9.6 mg/L (120% of C2)   |  | $\geq$ 10.4 mg/L (           | 130% of C2)   |
| Measurement Level             | Impact Station(s) of   | Control Stat   |                              | Impact Station(s) without   |
| Wiedsdreinene Eever           | Exceedance   | Control State  | ions                         | Exceedance  |
| Possible reason for Action or | 11.3 mg/L (B1)<br>15.0 mg/L (B2)<br>13.5 mg/L (B3)<br>14.5 mg/L (B4)<br>10.0 mg/L (F1)<br>14.2 mg/L (M1)<br>12.0 mg/L (CR1)<br>15.5 mg/L (CR2)<br>13.5 mg/L (S1)<br>13.2 mg/L (S2)<br>12.3 mg/L (S3)<br>Works scheduled on site on 1 | •  | ground investiga             | 8.5 mg/L (H1) ation (GI) work of 2  |
| Limit Level Non-compliance    | borehole drilling, DCM mair  | n works and la   | ying of sand bla             | nket at both caisson seawall  |
|                               | area and DCM plant trial area.  Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.  B1, B2, B3, B4, S1, S2, F1 and M1 are located at unrelated stream direction (neither   |  | d stream direction (neither  |   |
|                               | upstream nor downstream, fa<br>monitoring locations are deep   | - ·  |                              |   |

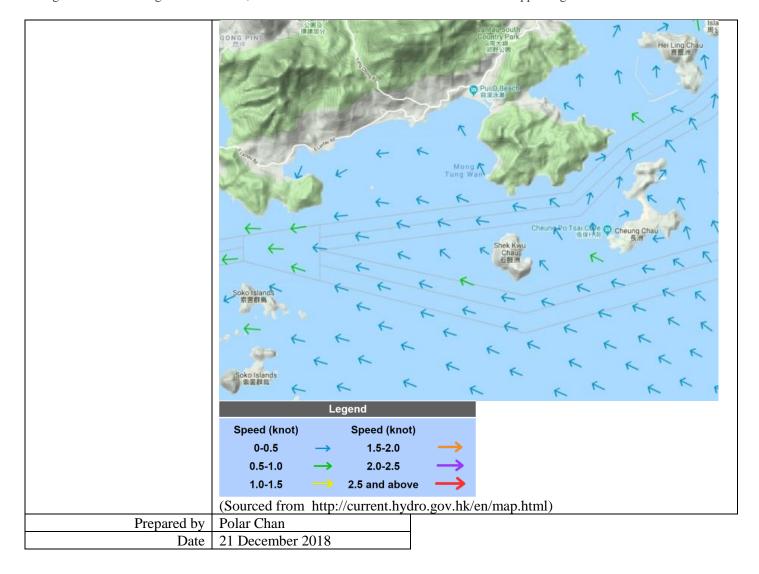
|                             | CR1 is located at upstream direction, CR2 & S3 are located close to the works location within the Project site, while no observation of silt plume was made during the sampling event. Silt curtain checking was implemented by the contractor and checking result showed that no deficiency of silt curtain was found on that day. Control stations and most of the monitoring stations showed considerably high SS level of that tidal period, implying the high background SS level of surrounding waters. It might suggest that the high SS level exceedance at CR1, CR2 & S3 are deemed to be unrelated to the project.  Site tidiness in the present barges in the Project site were checked during weekly site inspection on 14/12, where there was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.  |
|-----------------------------|--|
| Actions taken / to be taken | Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.   |
| Remarks                     | Current direction during mid-flood sampling on 15/12:    Contract of the contr |
|                             | 0-0.5 → 1.5-2.0 →  |
|                             | 0.5-1.0 $\rightarrow$ 2.0-2.5 $\rightarrow$  |
|                             | 1.0-1.5 $\longrightarrow$ 2.5 and above $\longrightarrow$ (Sourced from http://current.hydro.gov.hk/en/map.html)   |
| Prepared by                 | Polar Chan   |
| Date                        | 20 December 2018   |
|                             |  |

| Project                       | Integrated Waste Managemen                                   | nt Facilities, P   | Phase 1                  |   |  |
|-------------------------------|--|--|--------------------------|---|--|
| Date                          | 17 December 2018 (Lab resu                                   | lt received on   | 20 December 2            | 018)  |  |
| Time                          | 08:00 – 08:44 (Mid-Ebb)                                      |  |                          |   |  |
|                               | 12:50 – 16:20 (Mid-Flood)                                    |  |                          |   |  |
|                               | Mid-E  | Ebb  |                          |   |  |
| Monitoring Location           | B2, B4, H1, M1, CR1, CR2 &                                   | & S3   |                          |   |  |
|                               | + B1  S1   | PROPOSED OUTFALL +  4 PROPOSED SUBMARINE OF THE IMME                         | SHER KWU CHAU            | Key  A PROPOSED 132KV SUBMARINE CABLE  C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |
| Parameter                     | Suspended Solid (SS)   |  |                          |   |  |
| Action & Limit Levels         | Action Level   |  | Limit Level              |   |  |
|                               | $\geq 8.2 \text{ mg/L } (120\% \text{ of C1})$               |  | $\geq 10.0 \text{ mg/L}$ |   |  |
| Measurement Level             | Impact Station(s) of   | Control Stat   |                          | Impact Station(s) without   |  |
|                               | Exceedance   |  |                          | Exceedance  |  |
|                               | 8.5 mg/L (B2)  | 6.8 mg/L (C  | (1)                      | 5.8 mg/L (B1)   |  |
|                               | 8.8 mg/L (B4)  | 6.7 mg/L (C  |                          | 7.0 mg/L (B3)   |  |
|                               | 8.5 mg/L (H1)  | 017 mg/2 (0  | -)                       | 6.3 mg/L (F1)   |  |
|                               | 13.2 mg/L (M1)   |  |                          | 7.5 mg/L (S1)   |  |
|                               | 13.2 mg/L (W1)<br>12.7 mg/L (CR1)                            |  |                          | 6.7 mg/L (S2)   |  |
|                               |  |  |                          | 0.7 mg/L (32)   |  |
|                               | 9.5 mg/L (CR2)   |  |                          |   |  |
| Descible masses for Astion on | 8.8 mg/L (S3)  | 17/10 :1 1-  |                          | -ti(CI)1f-2   |  |
| Possible reason for Action or |  | Works scheduled on site on 17/12 include ground investigation (GI) work of 2 |                          |   |  |
| Limit Level Non-compliance    | borehole drilling, DCM main                                  | ı works, laying  | g of geotextile v        | vith sand placing for   |  |
|                               | ballasting at caisson seawall                                | area and layin   | g of sand blank          | et at caisson seawall area.   |  |
|                               |  |  |                          |   |  |
|                               | Dominating sea current direc                                 | tion was found   | d to be from No          | rthwest to Southeast at   |  |
|                               | waters around Shek Kwu Cha                                   | au.  |                          |   |  |
|                               |  |  |                          |   |  |
|                               | B2, B4 and M1 are located at                                 | t unrelated stre   | eam direction (r         | either upstream nor   |  |
|                               | downstream, far away) to the                                 |  | ·                        | •   |  |
|                               | locations are deemed to be un                                |  |                          |   |  |
|                               |  |  | J - <del></del>          |   |  |
| III in leasted of second      |  | d CD1:   | 1 . 1 . 1                | 11 11 CD2 0 C2  |  |
|                               | H I is located at unstream loc                               | ation. CR Lis  | located at down          | stream direction. CR2 & S3 1  |  |
|                               | H1 is located at upstream loc are located close to the works |  |                          |   |  |

|   | silt plume was made during t  |  |   | •  |
|---|---|--|---|--|
|   | implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. It might suggest that the high SS level exceedance at H1, CR1, CR2 & S3 are deemed to be unrelated to the Project.                      |  |   |  |
|   | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 18/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. |  |   |  |
| Actions taken / to be taken                                 | Examination of environment weekly inspection, and the C mitigation measures as per th   | al performance<br>contractor is rer  | of the Project<br>minded to imple             | will be continued during the   |
|   | Mid-F   |  | ixA Manual.                                   |  |
| Monitoring Location   | B1, B3, B4, F1, H1 & S2   | 1000   |   |  |
|   | +<br>B10 S1   | PROPOSED OUTFALL +  4 PROPOSED 1: SUBMARINE CA  PROPOSED RECLAIME FOR THE IMMF | SHEK KWU CHAU                                 | Key  A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |
| Parameter   | Suspended Solid (SS)  |  |   | <del>-</del>   |
| Action & Limit Levels                                       | Action Level  |  | Limit Level                                   |  |
|   | $\geq$ 8.2 mg/L (120% of C2)  |  | $\geq 10.0 \text{ mg/L}$                      |  |
| Measurement Level   | Impact Station(s) of Exceedance   | Control Stati  | ons   | Impact Station(s) without Exceedance   |
|   | 8.5 mg/L (B1)<br>8.3 mg/L (B3)<br>9.3 mg/L (B4)<br>8.7 mg/L (F1)<br>10.8 mg/L (H1)<br>10.0 mg/L (S2)  | 5.7 mg/L (C2<br>6.8 mg/L (C2   |   | 6.8 mg/L (B2)<br>6.8 mg/L (M1)<br>6.7 mg/L (CR1)<br>6.3 mg/L (CR2)<br>7.8 mg/L (S1)<br>7.7 mg/L (S3)   |
| Possible reason for Action or<br>Limit Level Non-compliance | Works scheduled on site on 17/12 include ground investigation (GI) work of 2 borehole drilling, DCM main works, laying of geotextile with sand placing for ballasting at caisson seawall area and laying of sand blanket at caisson seawall area.           |  | ntion (GI) work of 2<br>with sand placing for |  |
|   | Dominating sea current direct waters around Shek Kwu Ch   |  | I to be from Sou                              | utheast to Northwest at  |
|   | B1, B3, B4, F1 and S2 are located at unrelated stream direction (neither upstream downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project.  |  |   |  |

CR1, CR2 and S3, the closet monitoring stations to the site location when comparing to H1 (downstream monitoring station), exhibited a smaller SS level. It might suggest that the high SS level exceedance at H1 is deemed to be unrelated to the Project. However, questionable silt curtain deployment condition in the present pelican barge was observed by MMO and SO, where presence of sandy water outside the silt curtain were found around 2:30pm. Also, silt plume was observed near the pelican barge YGZH 1332 and it was recorded by SO around 11:10 am, and the mal-practice was stopped immediately. Actions taken / to be taken The sand blanket laying works were suspended by the Contractor immediately and the Contractor was reminded to properly fix and maintain the deployed silt curtain for the operation of sand blanket laying works. Further diver inspection on silt curtain was implemented on 18/12/2018 and checking result showed no deficiency of silt curtain was found. Silt plume near pelican barge "YGZH 1332" vanished immediately after switching off the propeller of the barge. The environmental department of the Contractor was reminded to keep paying attention to avoid the repeating of such incidents. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual. Remarks Current direction during mid-ebb sampling on 17/12:

Current direction during mid-flood sampling on 17/12:

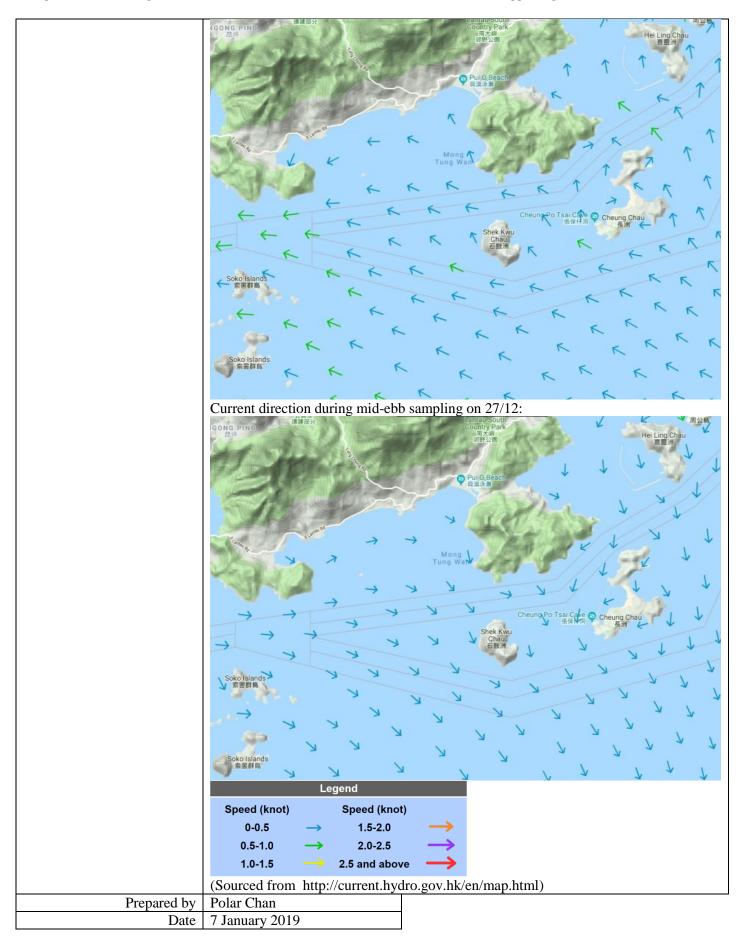


| Project                       | Integrated Waste Managemen   | nt Facilities, Pl  | hase 1  | Integrated Waste Management Facilities, Phase 1  |  |  |
|-------------------------------|--|--|---|--|--|--|
| Date                          | 19 December 2018 (Lab result received on 27 December 2018)   |  |   |  |  |  |
| Time                          | 08:00 – 10:41 (Mid-Ebb)  |  |   |  |  |  |
|                               | Mid-Ebb  |  |   |  |  |  |
| Monitoring Location           | F1, M1, CR1, CR2, S2 & S3  |  |   |  |  |  |
|                               | + B1  S1-  | PROPOSED OUTFALL +  4 PROPOSED SUBMARINE CO.  SZELAME  PROPOSED RECLAME FOR THE IMME |   | Key  A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |  |
| Parameter                     | Suspended Solid (SS)   |  |   |  |  |  |
| Action & Limit Levels         | Action Level   |  | Limit Level   |  |  |  |
| retion & Emili Ecvers         | $\geq 10.4 \text{ mg/L } (120\% \text{ of C1})$  |  | $\geq$ 11.3 mg/L (                                  | (130% of C1)   |  |  |
| Measurement Level             | Impact Station(s) of   | Control Stati  |   | Impact Station(s) without  |  |  |
| 111045 41101110 20 ( 01       | Exceedance   |  | -0115   | Exceedance   |  |  |
|                               | 10.5 mg/L (F1)   | 8.7 mg/L (C  | 1)  | 7.8 mg/L (B1)  |  |  |
|                               | 13.8 mg/L (M1)   | 9.5 mg/L (C  | ·   | 7.5 mg/L (B2)  |  |  |
|                               | 14.0 mg/L (CR1)  | 7.0  | _/  | 5.5 mg/L (B3)  |  |  |
|                               | 15.3 mg/L (CR2)  |  |   | 7.5 mg/L (B4)  |  |  |
|                               | 11.0 mg/L (S2)   |  |   | 6.2 mg/L (H1)  |  |  |
|                               |  |  |   | 7.5 mg/L (S1)  |  |  |
| Possible reason for Action or | 11.8 mg/L (S3)   | 0/12 include a   | round investice                                     | •  |  |  |
| Limit Level Non-compliance    | borehole drilling and laying of sand blanket at both plant trial area and seawall area.  Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.  |  | ial area and seawall area. rthwest to Southeast at  |  |  |  |
|                               | S2, F1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring  |  |   | •  |  |  |
|                               |  |  |   |  |  |  |
|                               | locations are deemed to be unrelated to the Project.  CR1 is located at downstream direction, CR2 & S3 are located close to the works location within the Project site, while silt curtain checking was implemented by the Contractor and checking result showed that no deficiency of silt curtain was found that day. It might suggest that the high SS exceddance at CR1, CR2 & S3 are deem to be unrelated to the Project. |  |   |  |  |  |
|                               |  |  | was implemented by the of silt curtain was found on |  |  |  |
|                               | Page 1   | · · ·  |   |  |  |  |

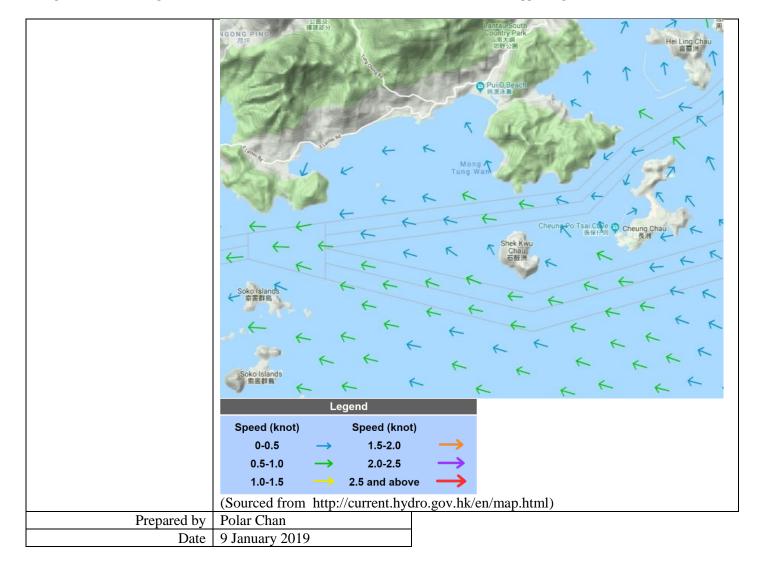
|                             | However, a track of observable silt plume at the back of the pelican barge deployed   |
|-----------------------------|---|
| Actions taken / to be taken | for sand blanket laying works was found around 3:00 pm.  After switching off the engine of the pelican barge, the observable silt plume had vanished. The Contractor confirmed the observable silt plume was related to the engine operation of pelican barge in shallow water. The Contractor designed to use the tugboat to manoeuvre the pelican barge especially in shallow water. The environmental department of the Contractor was reminded to keep paying attention to  |
| Remarks                     | avoid the repeating of such incidents.  Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.  |
| Remarks                     | Current direction during mid-ebb sampling on 19/12:    Parting South County Park   Pa |
|                             |   |
|                             | $\begin{array}{cccc} 0-0.5 & \longrightarrow & 1.5-2.0 & \longrightarrow \\ 0.5-1.0 & \longrightarrow & 2.0-2.5 & \longrightarrow \end{array}$  |
|                             | 1.0-1.5   |
|                             |   |
| Drongrad by                 | (Sourced from http://current.hydro.gov.hk/en/map.html) Polar Chan   |
| Prepared by                 |   |
| Date                        | 31 December 2018  |

| Project   | Integrated Waste Managemen  | nt Facilities, Phase 1   |   |  |
|---|---|--|---|--|
| Date  | 27 December 2018 (Lab resu  | lt received on 05 January 20   | 19)   |  |
| Time  | 08:59 – 12:29 (Mid-Flood)   | 08:59 – 12:29 (Mid-Flood)  |   |  |
|   | 14:26 – 17:56 (Mid-Ebb)   | 14:26 – 17:56 (Mid-Ebb)  |   |  |
|   | Mid-Fl  | lood   |   |  |
| Monitoring Location   | B1, B2, CR1 & CR2   |  |   |  |
|   | + B1 S1   | PROPOSED OUTFALL +  4 PROPOSED 132KV SUBMARINE CABLES  \$2  H1  SHEK KWU CHAU  CR2  FOR THE IMMF | Key A PROPOSED 132KV SUBMARINE CABLE  C MONITORING STATION  PROPOSED OUTFALL  THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT  THE IWMF SITE BOUNDARY |  |
| Parameter   | Suspended Solid (SS)  |  |   |  |
| Action & Limit Levels                                       | Action Level  | Limit Level  |   |  |
| Action & Ellint Levels                                      | $\geq 8.0 \text{ mg/L}$   | $\geq 10.0 \text{ mg/I}$   |   |  |
| Measurement Level   | Impact Station(s) of  | Control Stations   | Impact Station(s) without   |  |
| iviousurement Level   | Exceedance  |  | Exceedance  |  |
|   | 9.3 mg/L (B1)   | 7.8 mg/L (C1)  | 4.0 mg/L (B3)   |  |
|   | 8.5 mg/L (B2)   | 6.3 mg/L (C2)  | 6.0 mg/L (B4)   |  |
|   |   | 0.3 Hig/L (C2)   | 6.8 mg/L (F1)   |  |
|   | 9.2 mg/L (CR1)  |  | • .   |  |
|   | 10.3 mg/L (CR2)   |  | 5.8 mg/L (H1)   |  |
|   |   |  | 7.2 mg/L (M1)   |  |
|   |   |  | 7.5 mg/L (S1)   |  |
|   |   |  | 7.2 mg/L (S2)   |  |
|   |   |  | 6.3 mg/L (S3)   |  |
| Possible reason for Action or<br>Limit Level Non-compliance |   |  | ges (ESC-61 & ESC-62) and on that day. No deficiency of   |  |
|   | Silt curtain checking was implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day.  |  |   |  |
|   | Site tidiness in the present barges in the Project site were checked during w inspection on 27/12, where was no major observation of improper site pract might contribute to the increase in SS level was observed during the inspect |  | improper site practice that   |  |
| Actions taken / to be taken                                 | Asking the Contractor to prov   |  | during the hispection.  |  |
| retions taken / to be taken                                 | risking the Contractor to pro   | vide more miormation.  |   |  |
| Mid-Ebb   |   |  |   |  |

| Monitoring Location   | CR1 & S1  |  |  |
|---|---|--|--|
|   | + B1 • C1   | B2  APROPOSED OUTFALL +  APROPOSED 132RV SUBMARINE CABLES  B3  S2  H1  SHEK KWU CHAU  CR2  S3  CR1  PROPOSED RECLAMED AREA FOR THE INMIF   | A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY  |
| Parameter   | Suspended Solid (SS)  |  |  |
| Action & Limit Levels                                       | Action Level  | Limit Level  |  |
|   | $\geq$ 8.0 mg/L   | ≥ 10.0 mg/L  |  |
| Measurement Level   | Impact Station(s) of Exceedance   | Control Stations   | Impact Station(s) without Exceedance   |
|   | 8.5 mg/L (CR1)<br>9.8 mg/L (S1)   | 5.5 mg/L (C1)<br>6.7 mg/L (C2)   | 7.3 mg/L (B1) 7.8 mg/L (B2) 7.8 mg/L (B3) 5.8 mg/L (B4) 5.8 mg/L (F1) 6.3 mg/L (H1) 5.3 mg/L (M1) 7.8 mg/L (CR2) 7.5 mg/L (S2) 7.7 mg/L (S3) |
| Possible reason for Action or<br>Limit Level Non-compliance | From MMO monitoring record two dumb lighters (DT 12 & silt curtain was found before Silt curtain checking was improved and silt curtain was found before silt curtain was found before as the | FTB 19) were in operations of the start of construction active plemented by the Contractor as was found on that day.  Targes in the Project site were over t | on that day. No deficiency of ity.  and checking results showed checked during weekly site mproper site practice that                        |
| Actions taken / to be taken                                 | Asking the Contractor to prov   |  | <u> </u>   |
| Remarks   | Current direction during mid-   |  |  |
|   | content direction during find   | Too a sumpring on 27/12.   |  |



| Project   | Integrated Waste Management  | nt Facilities, Phase  | e 1  |  |
|---|--|---|--|--|
| Date  | 29 December 2018 (Lab result received on 9 January 2019)   |   |  |  |
| Time  | 10:40 – 14:10 (Mid-Flood)  |   |  |  |
|   | Mid-Fl   | Mid-Flood   |  |  |
| Monitoring Location   | B1, B2, B3, B4, H1, CR1, Cl  | R2, S1, S2 & S3   |  |  |
|   | + B1 • C1  | A PROPOSED 122KV SUBMARINE CABLES  S2  PROPOSED RECLAMED AREA— FOR THE INMIF                                    | F1  KKWU CHAU  Key  A PROPOSED 132KV SUBMARINE CABLE  MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY |  |
| Parameter   | Suspended Solid (SS)   |   |  |  |
| Action & Limit Levels                                       | Action Level   | Li  | mit Level  |  |
|   | $\geq 8.6 \text{ mg/L } (120\% \text{ of C2})$   |   | 10.0 mg/L  |  |
| Measurement Level   | Impact Station(s) of   | Control Stations  | <u> </u>   |  |
|   | Exceedance   |   | Exceedance   |  |
| Possible reason for Action or<br>Limit Level Non-compliance | lighters (Shun Tat D12 & FT of silt curtain was found before Silt curtain checking was improved the silt curtain was found before the silt curtain was into deficiency of silt curtain was silt to the silt to the silt curtain was silt to the silt to t | "B-12) were in ope<br>ore the start of con<br>plemented by the C<br>was found on that c<br>arges in the Project | Contractor and checking results showed   |  |
|   | ,  |   |  |  |
|   | might contribute to the increa   |   | s observed during the inspection.  |  |
| Actions taken / to be taken                                 | _  | vide more informa   | ation.   |  |



| Project                         | Integrated Waste Management Facilities, Phase 1   |                      |                                      |  |
|---------------------------------|---|----------------------|--------------------------------------|--|
| Date                            | 31 December 2018 (Lab resu  | lt received on 09 Ja | nuary 2019)                          |  |
| Time                            | 08:00 – 09:30 (Mid-Ebb)   |                      |                                      |  |
|                                 | 12:31 – 16:00 (Mid-Flood)   |                      |                                      |  |
|                                 | Mid-E   | Ebb                  |                                      |  |
| Monitoring Location             | + B1  |                      | Key A PROPOSED 132KV SUBMARINE CABLE |  |
| Danamatan                       | Commanded Colid (CC)  |                      |                                      |  |
| Parameter Action & Limit Levels | Suspended Solid (SS) Action Level   | Lin                  | nit Level                            |  |
| Action & Limit Levels           |   |                      | 4.3 mg/L (130% of C1)                |  |
| Measurement Level               | $\geq$ 13.2 mg/L (120% of C1)<br>Impact Station(s) of   | Control Stations     | Impact Station(s) without            |  |
| Wedstrement Level               | Exceedance  | Control Stations     | Exceedance                           |  |
|                                 | 16.0 mg/L (S1)  | 11.0 mg/L (C1)       | 9.3 mg/L (B1)                        |  |
|                                 | 15.5 mg/L (S2)  | 8.8 mg/L (C2)        | 9.0 mg/L (B2)                        |  |
|                                 | 13.3 Hig/L (32)   | 0.0 Hig/L (C2)       | 9.5 mg/L (B3)                        |  |
|                                 |   |                      | 10.8 mg/L (B4)                       |  |
|                                 |   |                      | 11.3 mg/L (F1)                       |  |
|                                 |   |                      | 9.5 mg/L (H1)                        |  |
|                                 |   |                      | 10.3 mg/L (M1)                       |  |
|                                 |   |                      | 11.2 mg/L (CR1)                      |  |
|                                 |   |                      | 9.5 mg/L (CR2)                       |  |
|                                 |   |                      | 11.5 mg/L (S3)                       |  |
| Possible reason for Action or   | From MMO monitoring records on 31/12, two DCM barges (ESC-61 & ESC-62) and  |                      |                                      |  |
| Limit Level Non-compliance      | two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day while no   |                      |                                      |  |
|                                 | deficiency of silt curtain was found before the start of construction activity.   |                      |                                      |  |
|                                 | Silt curtain checking was implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day.  |                      |                                      |  |
|                                 | Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. |                      |                                      |  |
|                                 | inspection on 27/12, where w  | as no major observ   | ation of improper site practice that |  |

