

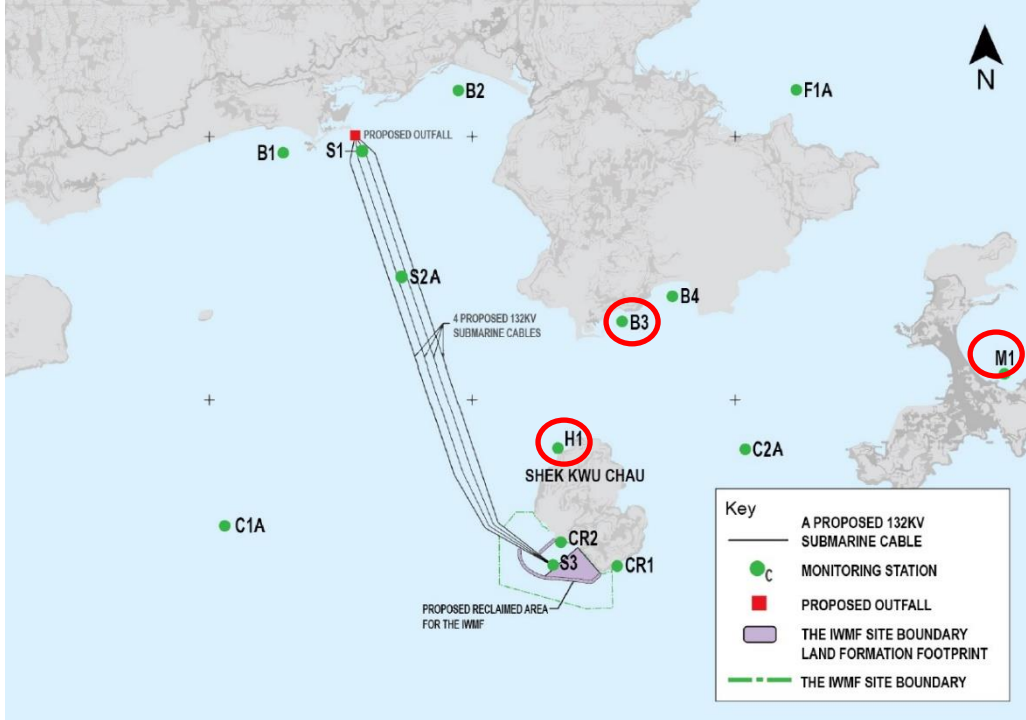
Appendix N Exceedance Report

Statistical Summary of Exceedances in the Reporting Period

Water Quality (Regular Monitoring)			
Location	Action Level	Limit Level	Total
B1	0	1	1
B2	0	1	1
B3	1	1	2
B4	0	1	1
CR1	0	0	0
CR2	0	0	0
F1A	0	0	0
H1	2	1	3
S1	Not applicable		
S2A	Not applicable		
S3	Not applicable		
M1	1	0	1

Noise (Day Time)			
Location	Action Level	Limit Level	Total
M1	0	0	0
M2	0	0	0
M3	0	0	0
Noise (Evening Time)			
Location	Action Level	Limit Level	Total
M1	0	0	0
M2	0	0	0
M3	0	0	0
Noise (Night Time)			
Location	Action Level	Limit Level	Total
M1	0	0	0
M2	0	0	0
M3	0	0	0

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	14 Feb 2023 (Lab result received on 21 February 2023)		
Time	17:09 – 19:00 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	B3, H1, M1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 8.0 mg/L		≥ 10.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.3 mg/L (B3) 9.7 mg/L (H1) 8.1 mg/L (M1)	5.2 mg/L (C1A) 4.0 mg/L (C2A)	6.5 mg/L (B1) 7.0 mg/L (B2) 7.8 mg/L (B4) 5.7 mg/L (F1A) 4.9 mg/L (CR1) 4.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 14 Feb 2023 include inspection works at Breakwater A seaside CH700 - CH720, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>Exceedances of action level were found at B3, H1 and M1. B3, H1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at B3, H1 and M1 are deemed to be unrelated to the Project.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p>		

	<p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was overcast during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 14 February 2023.</p> <p>After the investigation, the exceedances on 14 February 2023 during ebb tide at B3, H1 and M1 are deemed to be unrelated to the Project.</p>
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Monitoring photos of
stations with exceedance

B3:



H1:



M1:

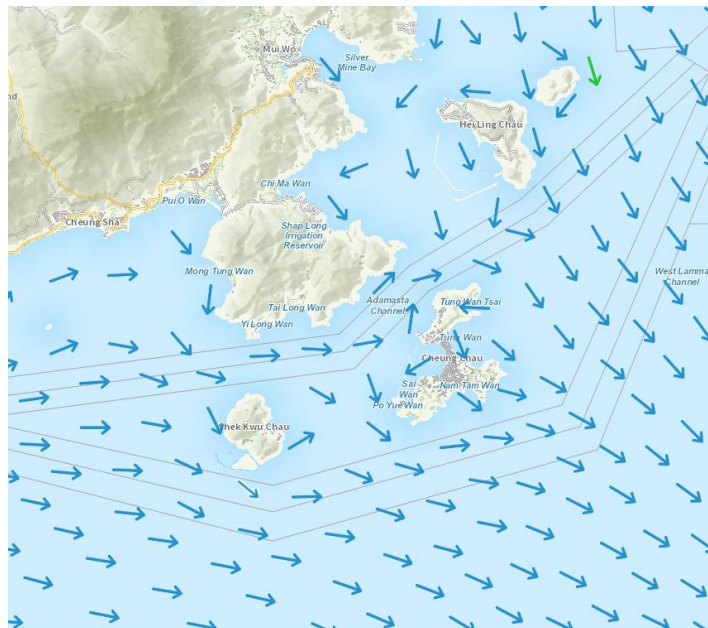
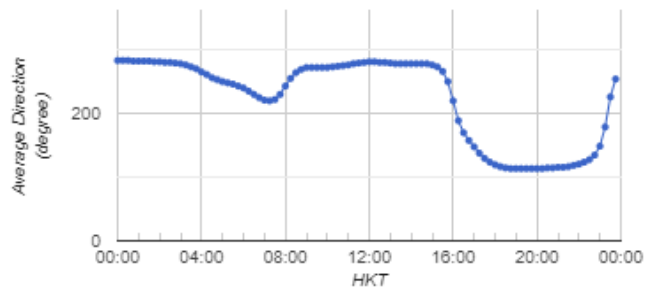
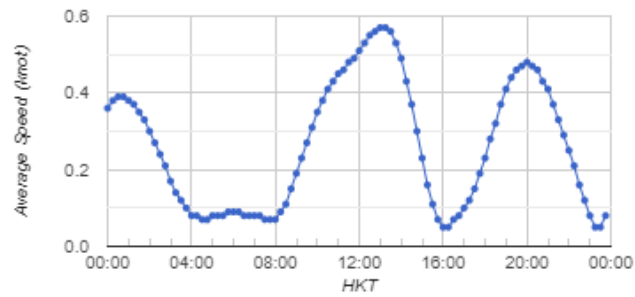


Remarks

Current direction during mid-flood sampling on 14 Feb 2023:

HKT	2023-02-14 17:30		UPDATE
Date & Time	2023-02-14 17:30		
Prediction Mode	Average	Change Mode	
Position (WGS84)	22 - 11.017 N / 113 - 59.24 E		
Speed:	0.15 knot(s)		
Direction:	129 °(TN)		

24-hour Tidal Stream's Speed & Direction
 2023-02-14



	Legend								
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0 →</td> <td style="padding: 5px;">2.0-2.5 →</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5 →</td> <td style="padding: 5px;">2.5 and above →</td> </tr> </tbody> </table>	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 →
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	Jack Chow								
Date	28 Feb 2023								

Interim Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	18 Feb 2023 (Lab result received on 23 February 2023)		
Time	10:02 – 12:42 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	<p>H1</p> <p>The map shows the Shek Kwu Chau area with various monitoring stations marked with green dots: B1, B2, B3, B4, C1A, C2A, M1, CR1, CR2, CR3, S1, S2A, and S3. A red square indicates the proposed outfall at S1. Four blue lines represent the proposed 132KV submarine cables. A purple shaded area shows the IWMF site boundary, and a green dashed line shows the land formation footprint. Station H1 is circled in red. A key in the bottom right corner defines the symbols: A PROPOSED 132KV SUBMARINE CABLE, MONITORING STATION, PROPOSED OUTFALL, THE IWMF SITE BOUNDARY, and THE IWMF SITE BOUNDARY.</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 8.0 mg/L		≥ 10.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	8.0 mg/L (H1)	5.5 mg/L (C1A) 7.3 mg/L (C2A)	4.4 mg/L (B1) 4.1 mg/L (B2) 6.0 mg/L (B3) 7.3 mg/L (B4) 6.5 mg/L (M1) 5.5 mg/L (F1A) 6.3 mg/L (CR1) 5.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 18 Feb 2023 include inspection works at Breakwater A seaside CH710 - CH720, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</p> <p>Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>An exceedance of action level was found at H1. H1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. An exceedance at H1 is deemed to be unrelated to the Project.</p>		

	<p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was overcast during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 23 February 2023.</p> <p>After the investigation, an exceedance on 18 February 2023 during ebb tide at H1 is deemed to be unrelated to the Project.</p>
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Monitoring photos of
stations with exceedance

H1:

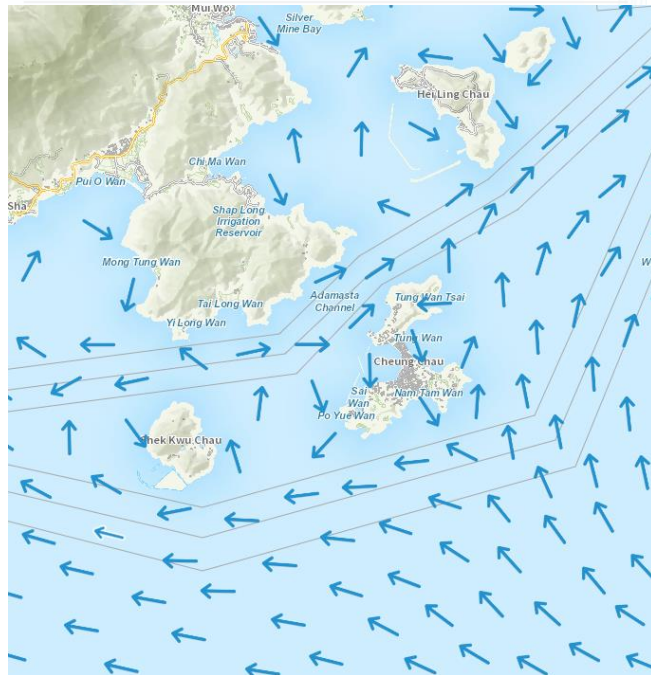
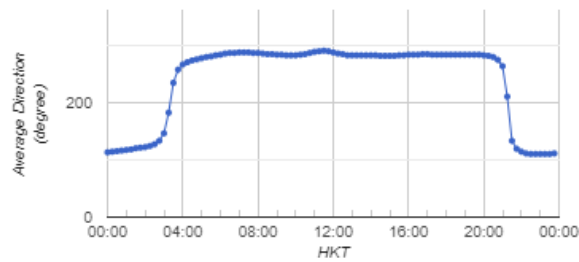
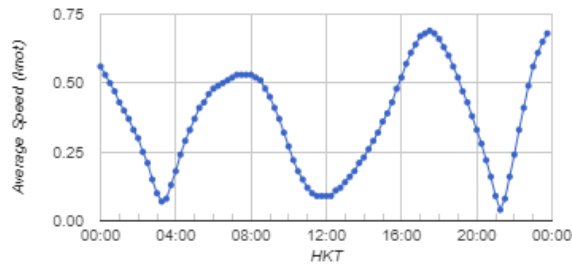


Remarks

Current direction during mid-flood sampling on 18 Feb 2023:

HKT	2023-02-18 10:30		UPDATE
Date & Time	2023-02-18 10:30		
Prediction Mode	Average	Change Mode	
Position (WGS84)	22 - 10.791 N / 113 - 58.527 E		
Speed:	0.18 knot(s)		
Direction:	284 °(TN)		

24-hour Tidal Stream's Speed & Direction
 2023-02-18



	Legend								
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0 →</td> <td style="padding: 5px;">2.0-2.5 →</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5 →</td> <td style="padding: 5px;">2.5 and above →</td> </tr> </tbody> </table>		Speed (knot)	Speed (knot)	0-0.5 →	1.5-2.0 →	0.5-1.0 →	2.0-2.5 →	1.0-1.5 →
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	Jack Chow								
Date	28 Feb 2023								

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	22 Feb 2023 (Lab result received on 27 February 2023)		
Time	08:00 – 11:29 (Mid-Flood)		
	Mid-Flood		
Monitoring Location	B1, B2, B3, B4, H1		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 9.4 mg/L (120% of C2A)		≥ 10.2 mg/L (130% of C2A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	11.8 mg/L (B1) 14.5 mg/L (B2) 10.5 mg/L (B3) 12.5 mg/L (B4) 11.0 mg/L (H1)	10.7 mg/L (C1A) 7.8 mg/L (C2A)	9.3 mg/L (M1) 8.3 mg/L (F1A) 8.2 mg/L (CR1) 7.0 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 18 Feb 2023 include inspection works at Seawall A CH370 - CH440, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</p> <p>Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>Exceedances of limit level were found at B1, B2, B3, B4 and H1. B1, B2, B3, B4 and H1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at B1, B2, B3, B4 and H1 are deemed to be unrelated to the Project.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p>		

	<p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 23 February 2023.</p> <p>After the investigation, the exceedances on 22 February 2023 during flood tide at B1, B2, B3, B4 and H1 are deemed to be unrelated to the Project.</p>
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Monitoring photos of
stations with exceedance

B1:



B2:



B3:



B4:



H1:

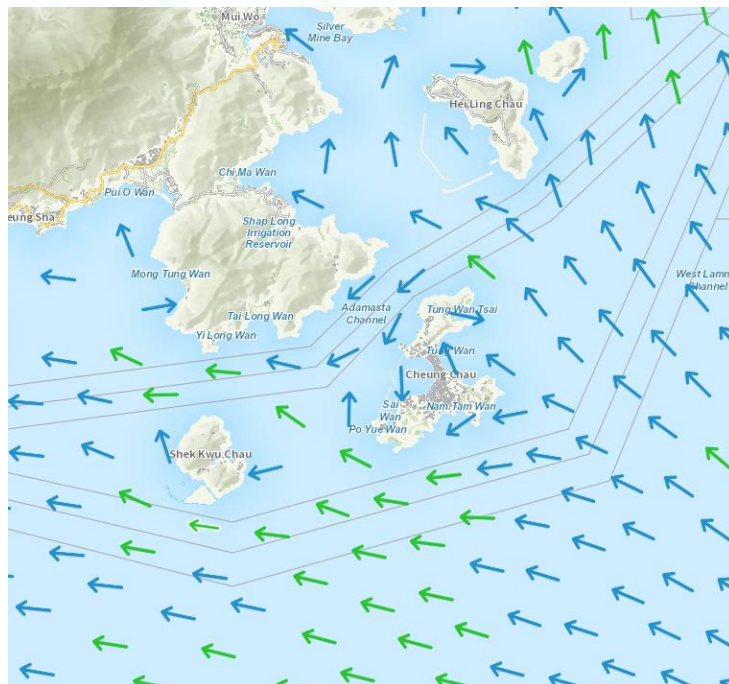
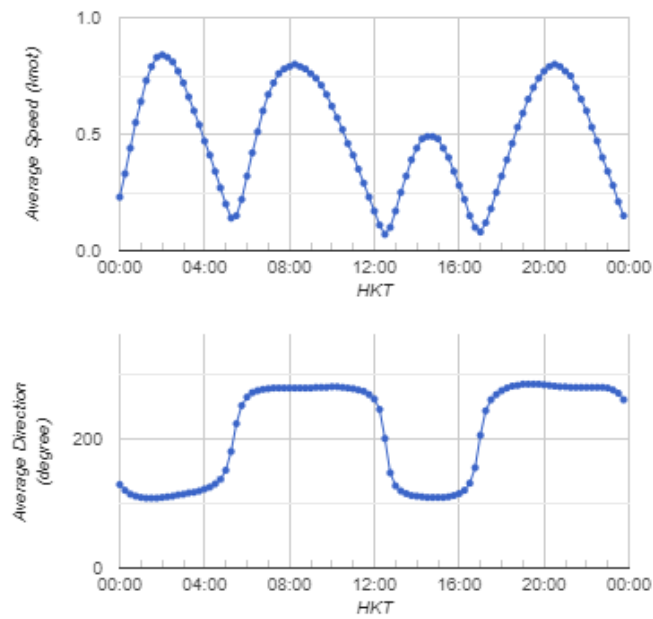


Remarks

Current direction during mid-flood sampling on 22 Feb 2023:

HKT	2023-02-22 08:00		UPDATE
Date & Time	2023-02-22 08:00		
Prediction Mode	Average	Change Mode	
Position (WGS84)	22 - 11.017 N / 113 - 59.24 E		
Speed:	0.79 knot(s)		
Direction:	278 °(TN)		

24-hour Tidal Stream's Speed & Direction
 2023-02-22



	Legend								
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Speed (knot)</th> <th style="text-align: left; padding: 5px;">Speed (knot)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-0.5 →</td> <td style="padding: 5px;">1.5-2.0 →</td> </tr> <tr> <td style="padding: 5px;">0.5-1.0 →</td> <td style="padding: 5px;">2.0-2.5 →</td> </tr> <tr> <td style="padding: 5px;">1.0-1.5 →</td> <td style="padding: 5px;">2.5 and above →</td> </tr> </tbody> </table>	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 →
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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	Jack Chow								
Date	01 Mar 2023								