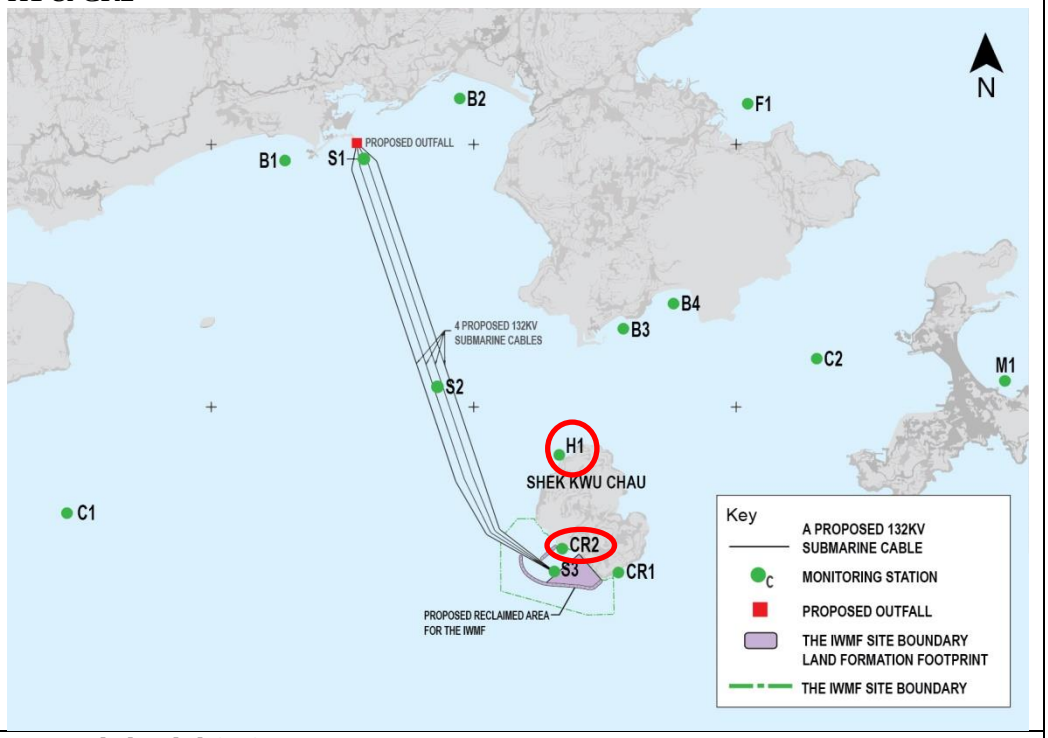
Appendix N Exceedance Report

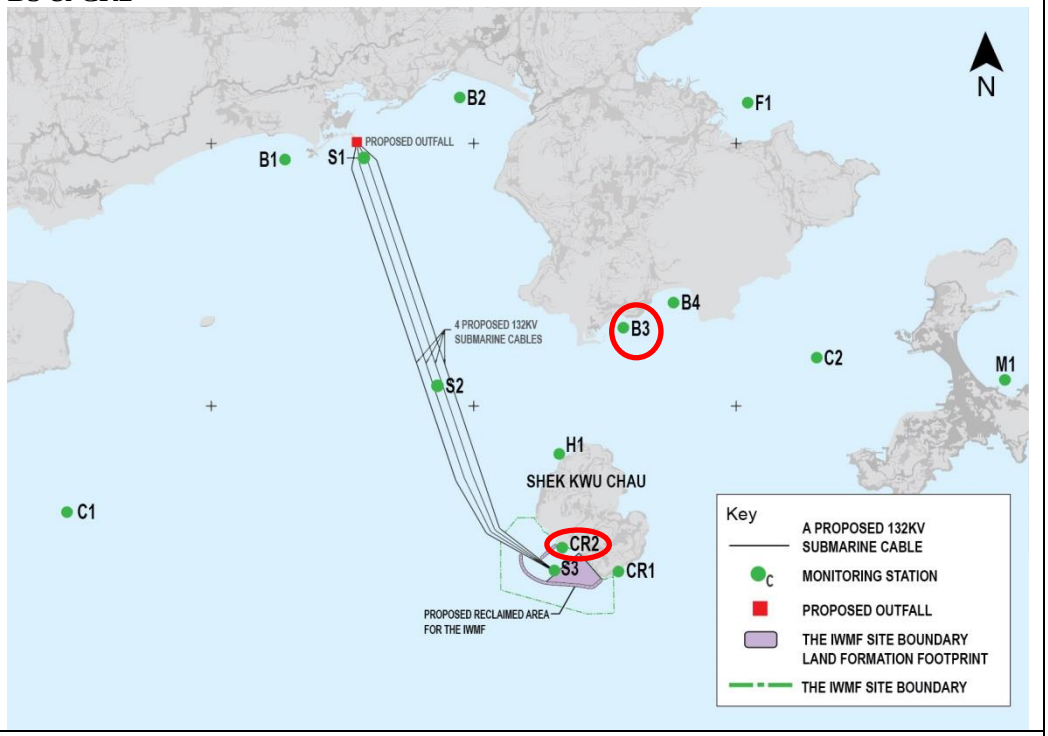
Statistical Summary of Exceedances in the Reporting Period

Water Quality			
Location	**Action Level**	**Limit Level**	**Total**
B1	2	3	5
B2	2	6	8
B3	1	3	4
B4	3	2	5
CR1	1	2	3
CR2	3	5	8
F1	2	3	5
H1	5	0	5
S1	0	0	0
S2	0	0	0
S3	0	0	0
M1	3	2	5
Noise			
Location	**Action Level**	**Limit Level**	**Total**
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	3 November 2018 (Lab result received on 7 November 2018)		
Time	09:53 – 13:55 (Mid-Ebb) 14:16 – 17:59 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	H1 & CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 10.8 mg/L (120% of C1)	≥ 11.7 mg/L (130% of C1)	
Measurement Level	Impact Station(s) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	17.7 mg/L (H1) 16.0 mg/L (CR2)	9.0 mg/L (C1) *10.5 mg/L (C2)	9.8 mg/L (B1) 9.5 mg/L (B2) *10.3 mg/L (B3) *10.8 mg/L (B4) *7.5 mg/L (F1) *9.8 mg/L (M1) 4.8 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	Most of works scheduled on site on 3/11 were suspended due to the yet to recover progress from typhoon YUTU except ground investigation (GI) work of 1borehole 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 direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. CR1, the closest downstream monitoring station to the site location when comparing to H1 (upstream monitoring stations), exhibited a smaller SS level. CR2 is located close to works location within the project site, while no observation of silt plume was made during the sampling event. The above rationales and absence of major SS source might suggest that high SS level exceedance at CR2 and H1 are deemed to be		

<table>
<tr><td></td><td colspan="3">unrelated to the Project.

Site tidiness in the present barges in the Project site were checked during weekly site inspection on 6/11, where no improper site practice that might contribute to the increase in SS level was observed during the inspection.</td></tr>
<tr><td>Actions taken / to be taken</td><td colspan="3">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.</td></tr>
<tr><td colspan="4">Mid-Flood</td></tr>
<tr><td>Monitoring Location</td><td colspan="3">B3 & CR2
 
</td></tr>
<tr><td>Parameter</td><td colspan="3">Suspended Solid (SS)</td></tr>
<tr><td rowspan="2">Action & Limit Levels</td><td>Action Level</td><td colspan="2">Limit Level</td></tr>
<tr><td>≥ 12.2 mg/L (120% of C2)</td><td colspan="2">≥ 13.2 mg/L (130% of C2)</td></tr>
<tr><td rowspan="2">Measurement Level</td><td>Impact Station(s) of Exceedance</td><td>Control Stations</td><td>Impact Station(s) without Exceedance</td></tr>
<tr><td>13.0 mg/L (B3)
18.0 mg/L (CR2)</td><td>10.0 mg/L (C1)
10.2 mg/L (C2)</td><td>9.8 mg/L (B1)
9.5 mg/L (B2)
8.8 mg/L (B4)
10.3 mg/L (F1)
9.3 mg/L (H1)
7.2 mg/L (M1)
11.8 mg/L (CR1)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="3">Most of works scheduled on site on 3/11 were suspended due to the yet to recover progress from typhoon YUTU except ground investigation (GI) work of 1borehole 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.

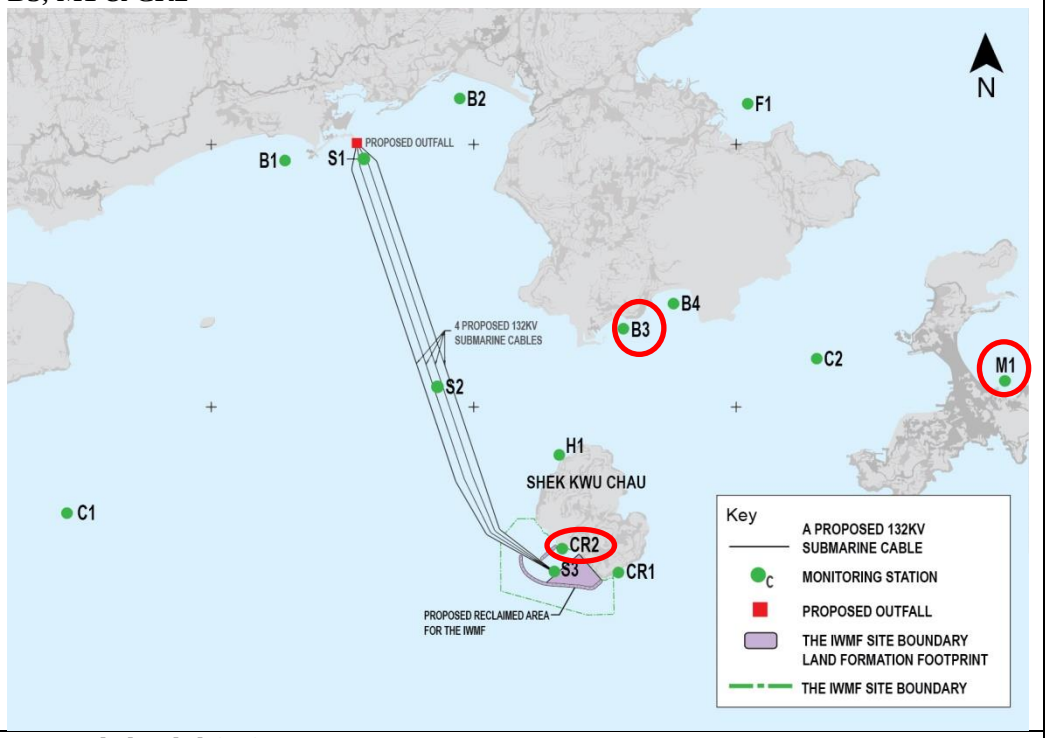
Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.

B3 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</td></tr>
</table>

	unrelated to the Project. CR2 is located close to the works location within the Project site, while no observation of silt plume was made during the sampling event and absence of major SS source might suggest that SS exceedance at CR2 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 6/11, where no 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	Note: Data with (*) are considered as reference use only since their sampling time were out of predicted tidal period. Current direction during mid-ebb sampling on 3/11:  Current direction during mid-flood sampling on 3/11: 

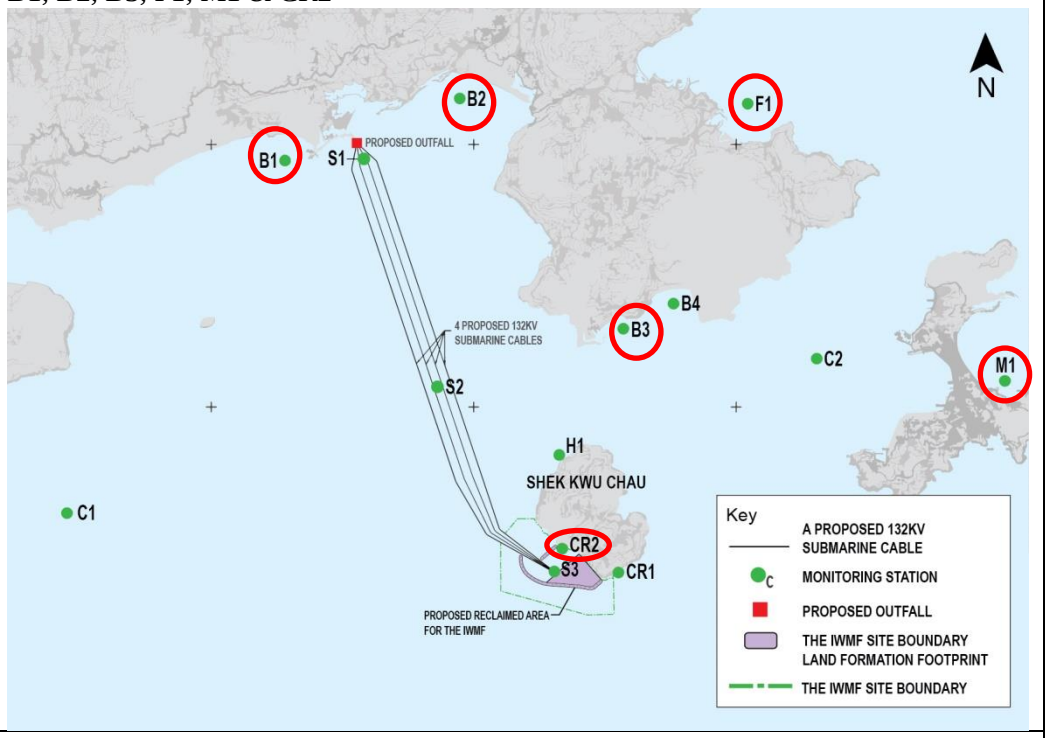
	 (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	8 November 2018

Incident Report on Action Level or Limit Level Non-compliance

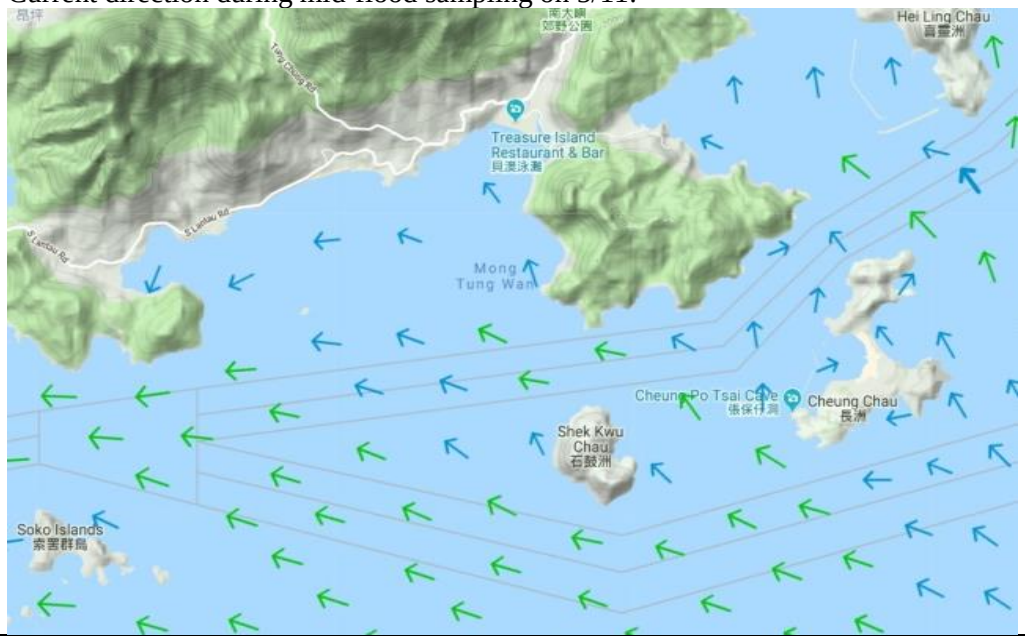
Project	Integrated Waste Management Facilities, Phase 1		
Date	5 November 2018 (Lab result received on 8 November 2018)		
Time	10:00 – 13:29 (Mid-Ebb) 15:11 – 18:50 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B3, M1 & CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 17.6 mg/L (120% of C1)	≥ 19.1 mg/L (130% of C1)	
Measurement Level	Impact Station(s) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	17.8 mg/L (B3) 18.5 mg/L (M1) 36.2 mg/L (CR2)	14.7 mg/L (C1) 14.2 mg/L (C2)	7.3 mg/L (B1) 12.8 mg/L (B2) 17.3 mg/L (B4) 10.7 mg/L (F1) 14.2 mg/L (H1) 15.7 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	Most of works scheduled on site on 5 /11 were suspended due to the yet to recover progress from typhoon YUTU except ground investigation (GI) work of 1 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 direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3 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. 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 above rationale and absence of		

<table>
<tr><td></td><td>major SS source might suggest that high SS level exceedance at CR2 is deemed to be unrelated to the Project.

It is noted that SS level at CR2 is exceptionally high on that day, however, potential source of SS increase was not spotted during the water sampling event. ET will keep track of any re-occurrence of extreme data recording from CR2 in the future.

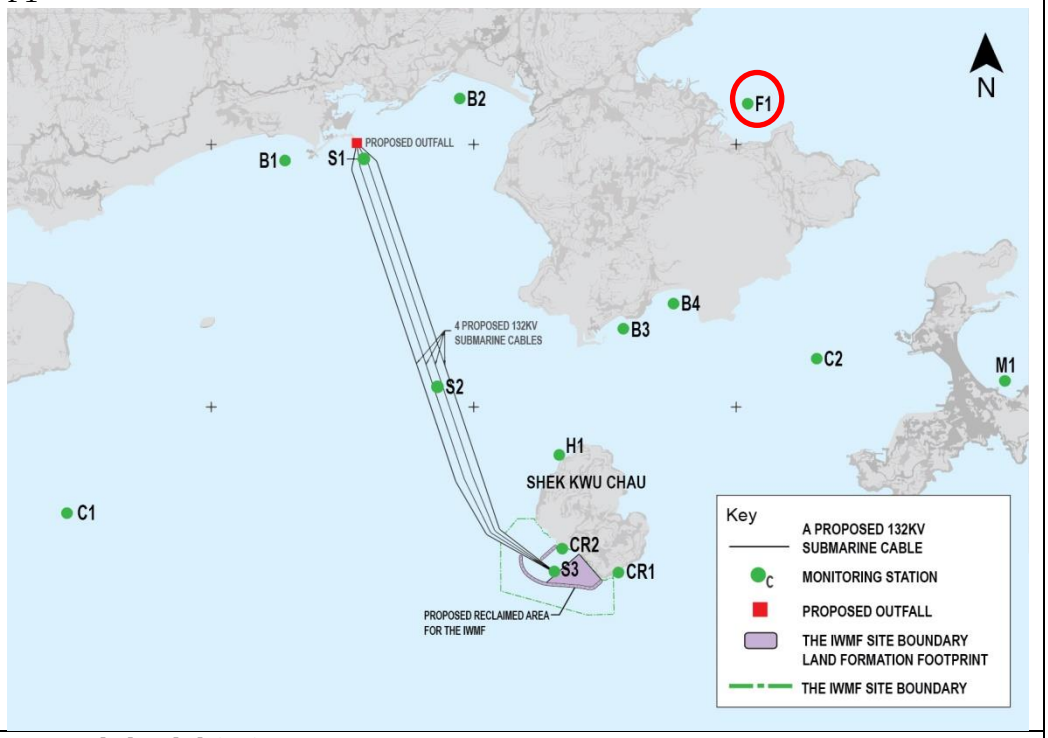
Site tidiness in the present barges in the Project site were checked during weekly site inspection on 6/11, where no improper site practice that might contribute to the increase in SS level was observed during the inspection.</td></tr>
<tr><td>Actions taken / to be taken</td><td>Examination of environmental 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.</td></tr>
<tr><td colspan="2">Mid-Flood</td></tr>
<tr><td>Monitoring Location</td><td>B1, B2, B3, F1, M1 & CR2
 
</td></tr>
<tr><td>Parameter</td><td colspan="2">Suspended Solid (SS)</td></tr>
<tr><td rowspan="2">Action & Limit Levels</td><td>Action Level</td><td>Limit Level</td></tr>
<tr><td>≥ 10.6 mg/L (120% of C2)</td><td>≥ 11.5 mg/L (130% of C2)</td></tr>
<tr><td rowspan="2">Measurement Level</td><td>Impact Station(s) of Exceedance</td><td>Control Stations</td><td>Impact Station(s) without Exceedance</td></tr>
<tr><td>11.8 mg/L (B1)
15.9 mg/L (B2)
12.3 mg/L (B3)
14.5 mg/L (F1)
14.2 mg/L (M1)
16.3 mg/L (CR2)</td><td>10.0 mg/L (C1)
8.8 mg/L (C2)</td><td>9.8 mg/L (B4)
8.8 mg/L (H1)
8.0 mg/L (CR1)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="2">Most of works scheduled on site on 5 /11 were suspended due to the yet to recover progress from typhoon YUTU except ground investigation (GI) work of 1 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 direction was found to be from Southeast to Northwest at</td></tr>
</table>

	waters around Shek Kwu Chau. B1, B2, B3, F1 & 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. CR2 is located close to works location within the Project site, while no observation of silt plume was made during the sampling event and absence of major SS source might suggest that SS exceedance at CR2 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 6/11, where no 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-ebb sampling on 5/11:  Current direction during mid-flood sampling on 5/11: 

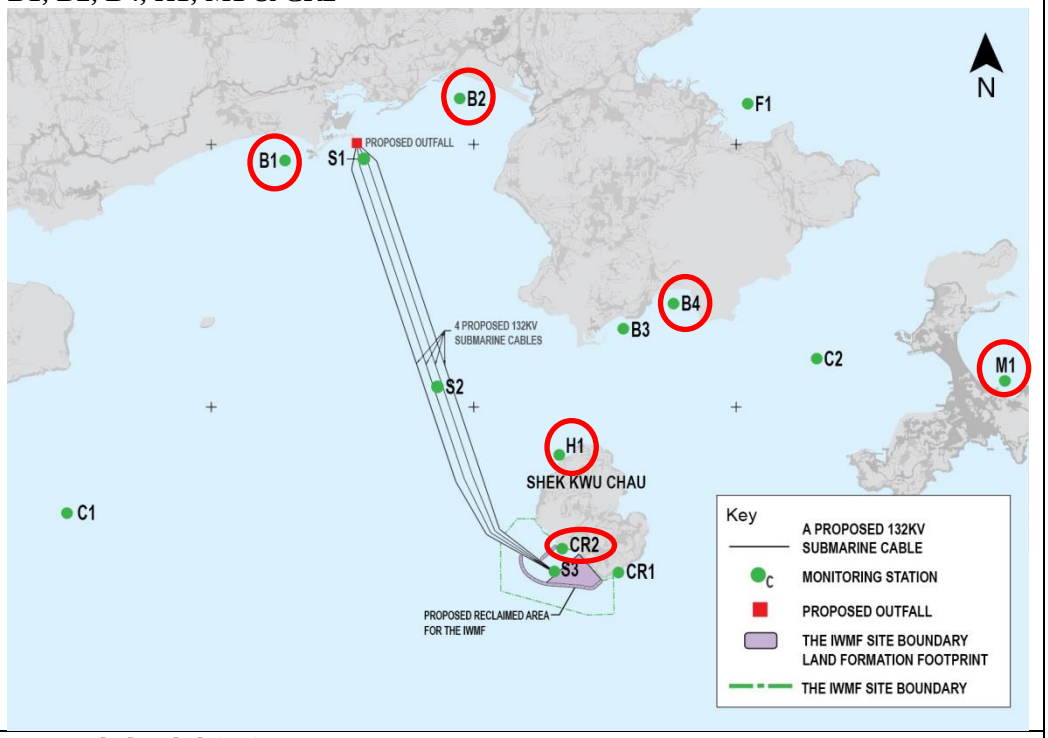
	 (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	9 November 2018

Incident Report on Action Level or Limit Level Non-compliance

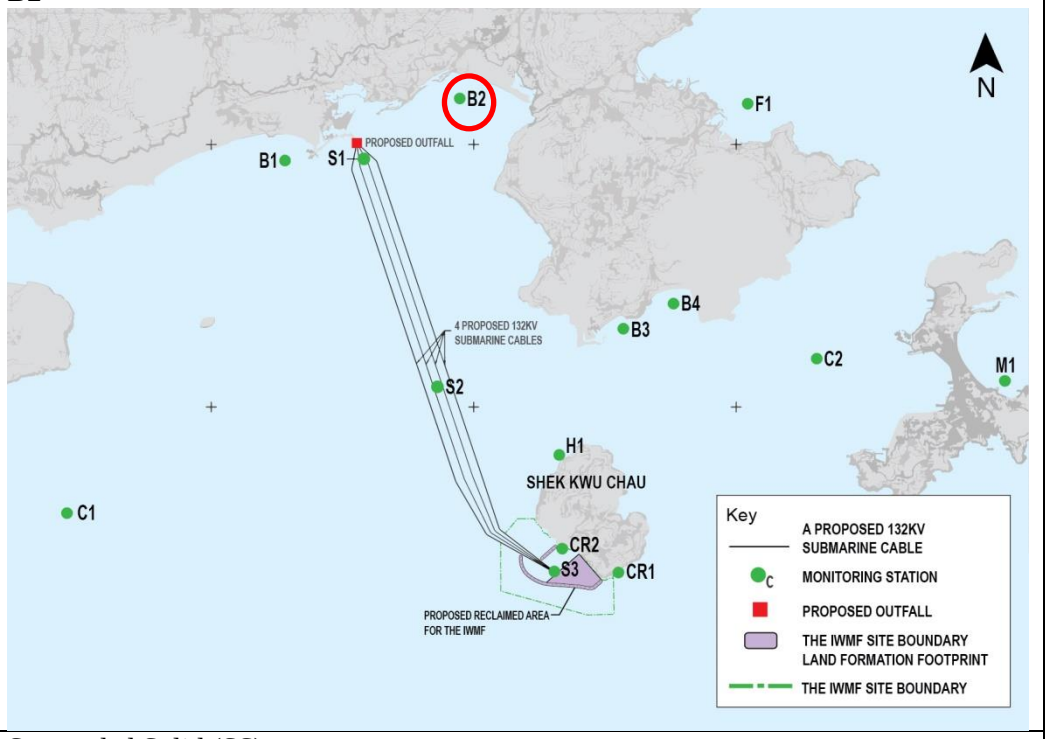
Project	Integrated Waste Management Facilities, Phase 1		
Date	7 November 2018 (Lab result received on 9 November 2018)		
Time	10:41 – 14:25 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	F1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 18.0 mg/L (120% of C1)	≥ 19.5 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	18.3 mg/L (F1)	15.0 mg/L (C1) 16.5 mg/L (C2)	15.0 mg/L (B1) 13.3 mg/L (B2) 13.8 mg/L (B3) 15.3 mg/L (B4) 17.3 mg/L (M1) 12.5 mg/L (H1) 15.2 mg/L (CR1) 11.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 7 /11 include ground investigation (GI) work of 1 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 direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. F1 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. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 6/11, where no 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-ebb sampling on 7/11:  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	10 November 2018

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	9 November 2018 (Lab result received on 14 November 2018)		
Time	11:48 – 15:40 (Mid-Ebb) 17:09 – 20:54 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1, B2, B4, H1, M1 & CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 9.4 mg/L (120% of C1)	≥ 10.2 mg/L (130% of C1)	
Measurement Level	Impact Station(s) with Exceedance	Control Stations	Impact Station(s) without Exceedance
	11.3 mg/L (B1) 12.3 mg/L (B2) 10.5 mg/L (B4) 13.7 mg/L (H1) 10.2 mg/L (M1) 18.8 mg/L (CR2)	7.8 mg/L (C1) 10.7 mg/L (C2)	9.0 mg/L (B3) 8.7 mg/L (F1) 7.2 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 9 /11 include ground investigation (GI) work of 1 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 direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B1, B2, B4 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, the closest downstream monitoring station to the site location when comparing to H1 (upstream monitoring stations), exhibited a smaller SS level. CR2 is located close to the works location within the Project site, while no observation of silt plume		

<table>
<tr><td></td><td colspan="3">was made during the sampling event. The above rationale and absence of major SS source might suggest that high SS level exceedance at CR2 and H1 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 13/11, where no improper site practice that might contribute to the increase in SS level was observed during the inspection.</td></tr>
<tr><td>Actions taken / to be taken</td><td colspan="3">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.</td></tr>
<tr><td colspan="4">Mid-Flood</td></tr>
<tr><td>Monitoring Location</td><td colspan="3">B2
 
</td></tr>
<tr><td>Parameter</td><td colspan="3">Suspended Solid (SS)</td></tr>
<tr><td rowspan="2">Action & Limit Levels</td><td>Action Level</td><td colspan="2">Limit Level</td></tr>
<tr><td>≥ 11.0 mg/L (120% of C2)</td><td colspan="2">≥ 11.9 mg/L (130% of C2)</td></tr>
<tr><td rowspan="2">Measurement Level</td><td>Impact Station(s) of Exceedance</td><td>Control Stations</td><td>Impact Station(s) without Exceedance</td></tr>
<tr><td>13.0 mg/L (B2)</td><td>8.8 mg/L (C1)
9.2 mg/L (C2)</td><td>9.0 mg/L (B1)
8.5 mg/L (B3)
9.3 mg/L (B4)
8.5 mg/L (F1)
9.7 mg/L (H1)
9.5 mg/L (M1)
9.8 mg/L (CR1)
10.3 mg/L (CR2)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="3">Works scheduled on site on 9/11 include ground investigation (GI) work of 1 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.

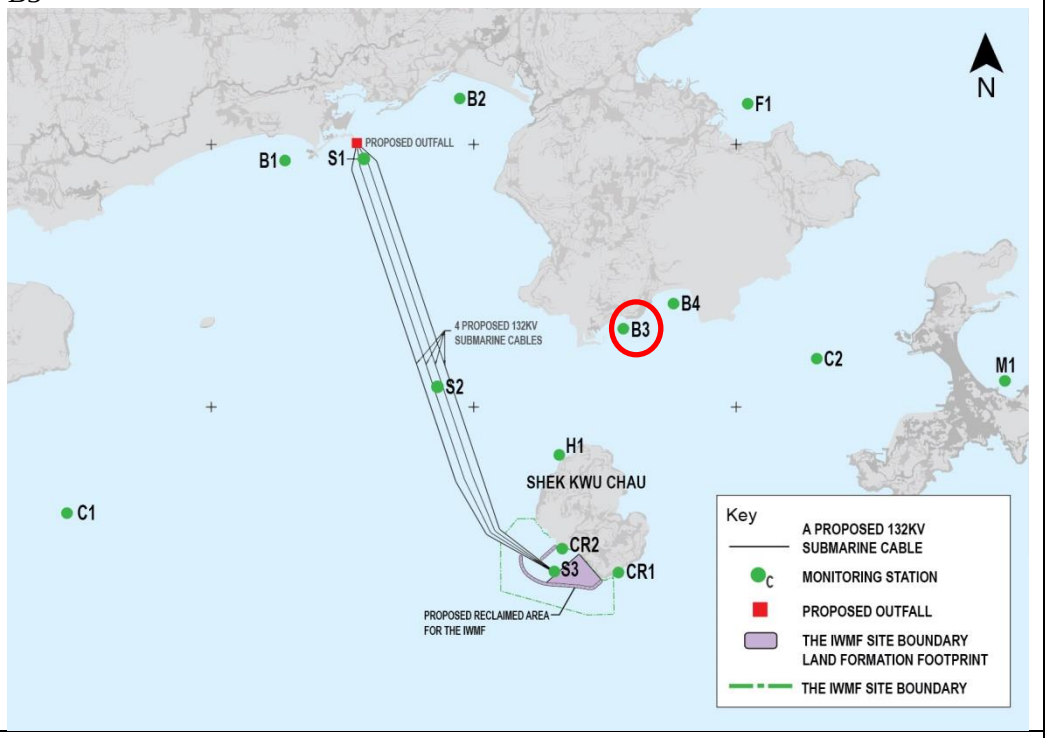
Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.

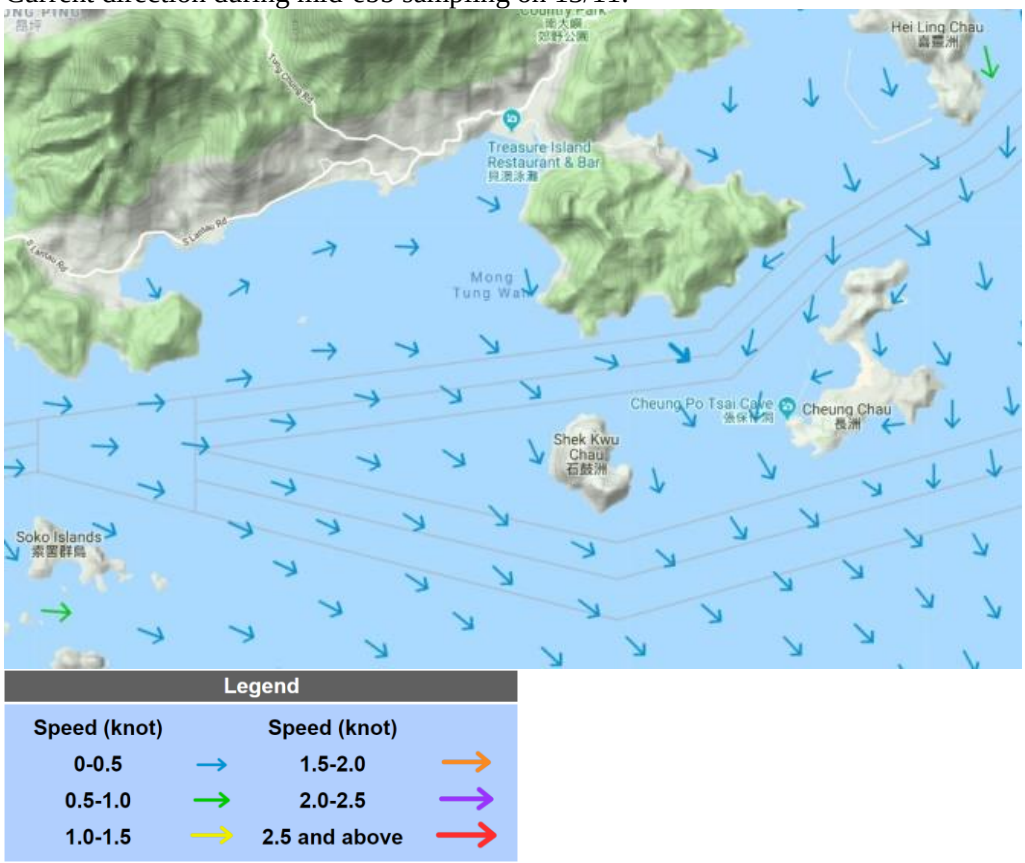
B2 is located at unrelated stream direction (neither upstream nor downstream, far</td></tr>
</table>

	away) to the works location, exceedance of this monitoring location 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 13/11, where no 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-ebb sampling on 9/11:  Current direction during mid-flood sampling on 9/11:   (Sourced from http://current.hydro.gov.hk/en/map.html)

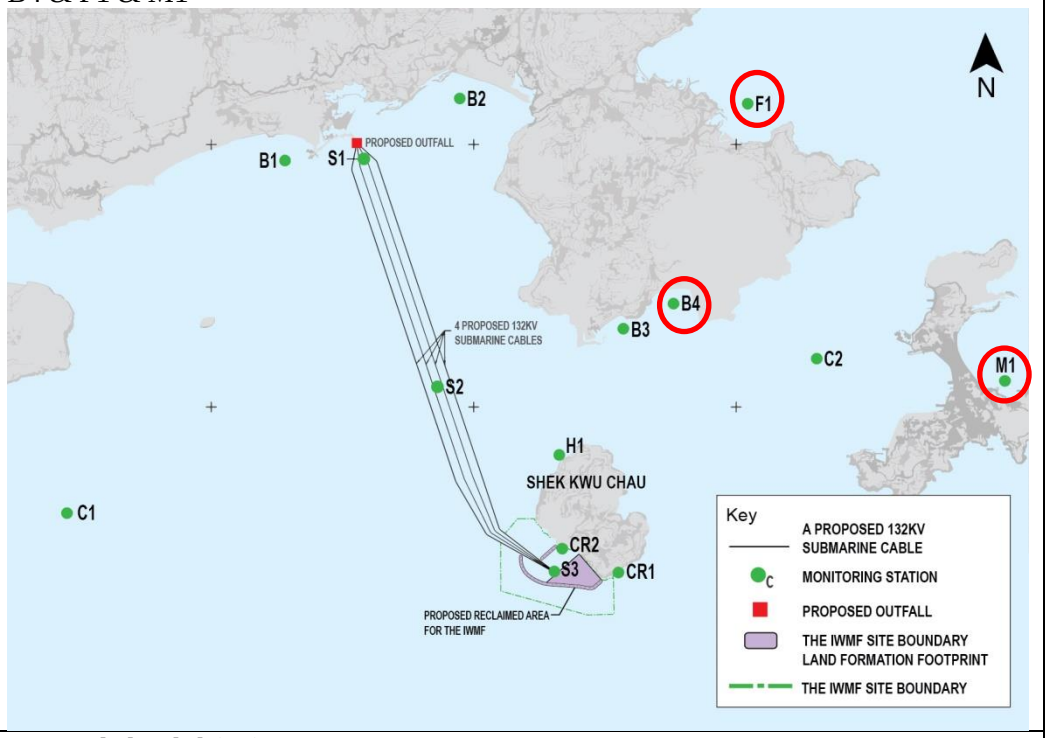
Prepared by	Polar Chan
Date	15 November 2018

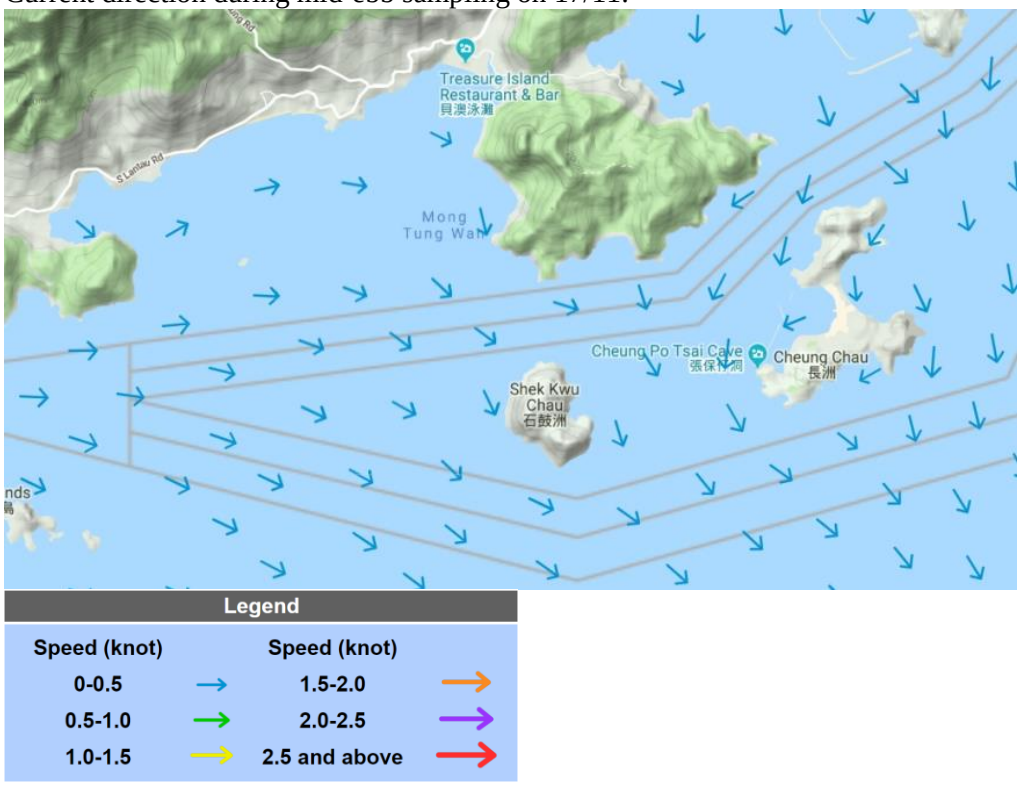
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	13 November 2018 (Lab result received on 19 November 2018)		
Time	14:39 – 17:52 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	B3 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 14.4 mg/L (120% of C1)	≥ 15.6 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	* 15.0 mg/L (B3)	12.0 mg/L (C1) * 16.2 mg/L (C2)	11.8 mg/L (B1) 12.5 mg/L (B2) * 13.5 mg/L (B4) * 10.8 mg/L (F1) 9.7 mg/L (H1) * 13.8 mg/L (M1) 8.0 mg/L (CR1) 9.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 13 /11 include ground investigation (GI) work of 3 borehole drilling, DCM sample coring for pre-construction site trial and laying of geotextile at caisson seawall area, which shall not be a major source of SS concentration increase considering the limited scale and nature of works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3 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. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 13/11, where no improper site practice that might contribute to the		

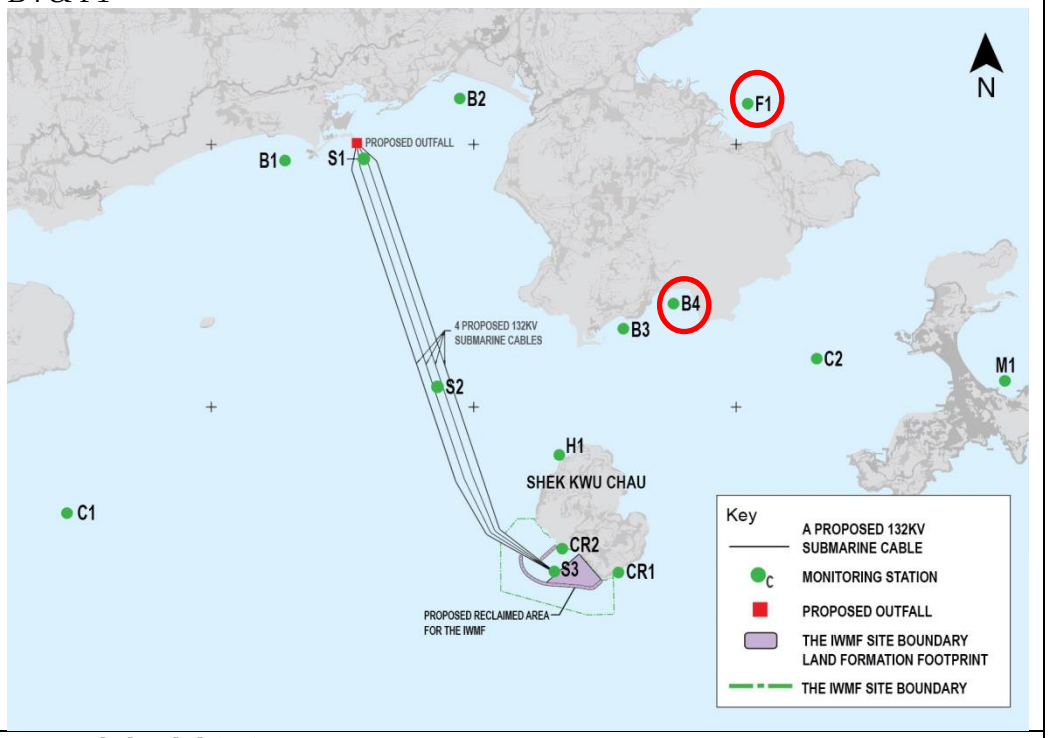
	increase in SS level was observed during the inspection.
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Note: Data with (*) are considered as reference use only since their sampling time were out of predicted tidal period. Current direction during mid-ebb sampling on 13/11:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	20 November 2018

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	17 November 2018 (Lab result received on 26 November 2018)		
Time	08:30 – 11:48 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	B4 & F1 & M1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 10.0 mg/L (120% of C1)	≥ 10.8 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	10.3 mg/L (B4) * 11.5 mg/L (F1) * 9.7 mg/L (M1)	8.3 mg/L (C1) 8.8 mg/L (C2)	4.8 mg/L (B1) 6.0 mg/L (B2) 8.5 mg/L (B3) 7.3 mg/L (H1) 4.0 mg/L (CR1) 7.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 17/11 include ground investigation (GI) work of 3 borehole drilling, DCM sample coring for pre-construction site trial and laying of geotextile at caisson seawall area, which shall not be a major source of SS concentration increase considering the limited scale and nature of works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B4, 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. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 20/11, where no 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		

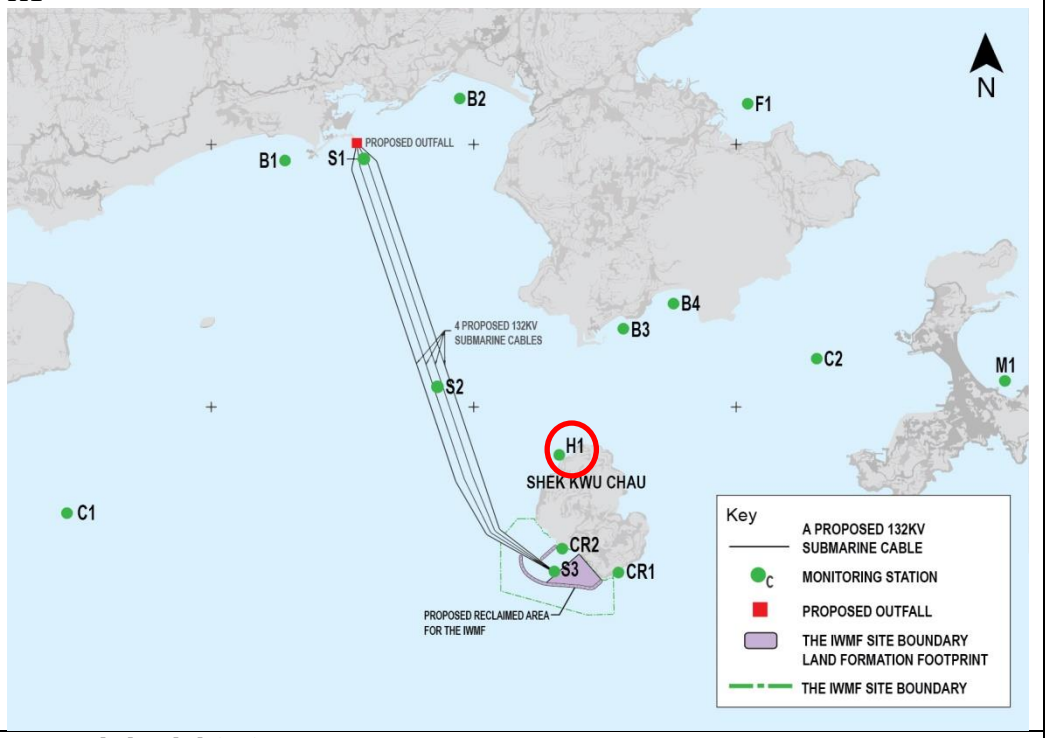
	weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Note: Data with (*) are considered as reference use only since their sampling time were out of predicted tidal period. Current direction during mid-ebb sampling on 17/11:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	27 November 2018

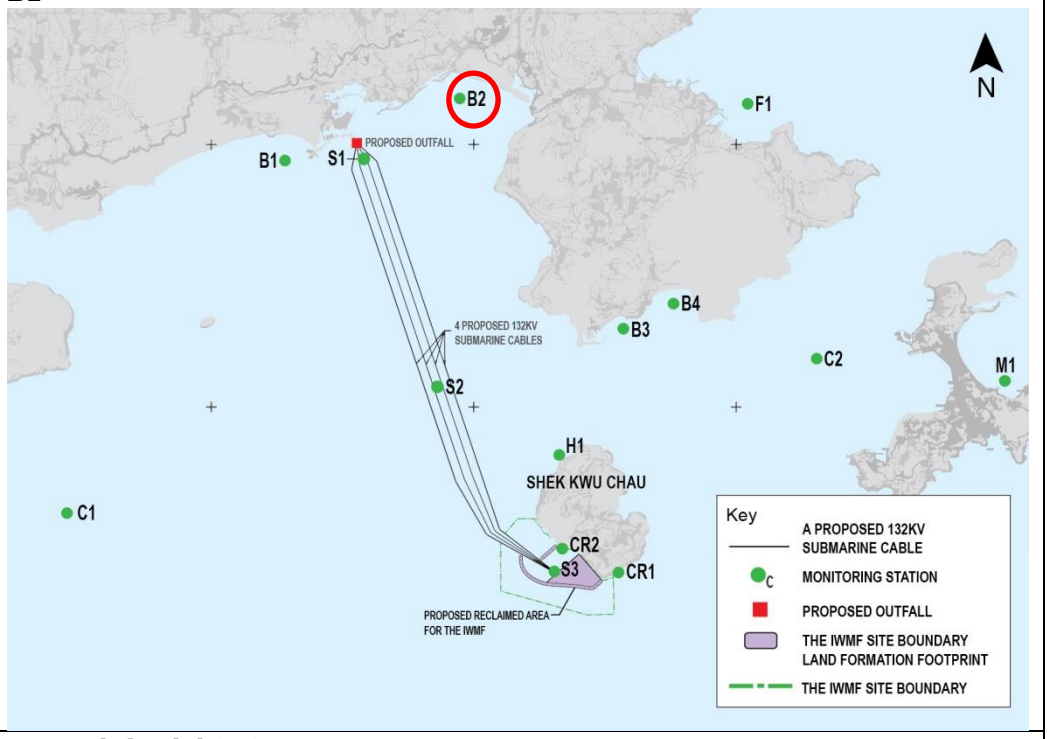
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	19 November 2018 (Lab result received on 22 November 2018)		
Time	07:19 – 11:10 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	B4 & F1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 10.0 mg/L (120% of C1)	≥ 10.8 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	13.5 mg/L (B4) 11.0 mg/L (F1)	8.3 mg/L (C1) 9.5 mg/L (C2)	4.0 mg/L (B1) 5.3 mg/L (B2) 9.5 mg/L (B3) 7.8 mg/L (H1) 9.7 mg/L (M1) 7.3 mg/L (CR1) 7.7 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 19/11 include ground investigation (GI) work of 3 borehole drilling, DCM sample coring for pre-construction site trial and laying of geotextile at caisson seawall area, which shall not be a major source of SS concentration increase considering the limited scale and nature of works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B4 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. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 20/11, where no 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-ebb sampling on 19/11:  **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	23 November 2018

Incident Report on Action Level or Limit Level Non-compliance

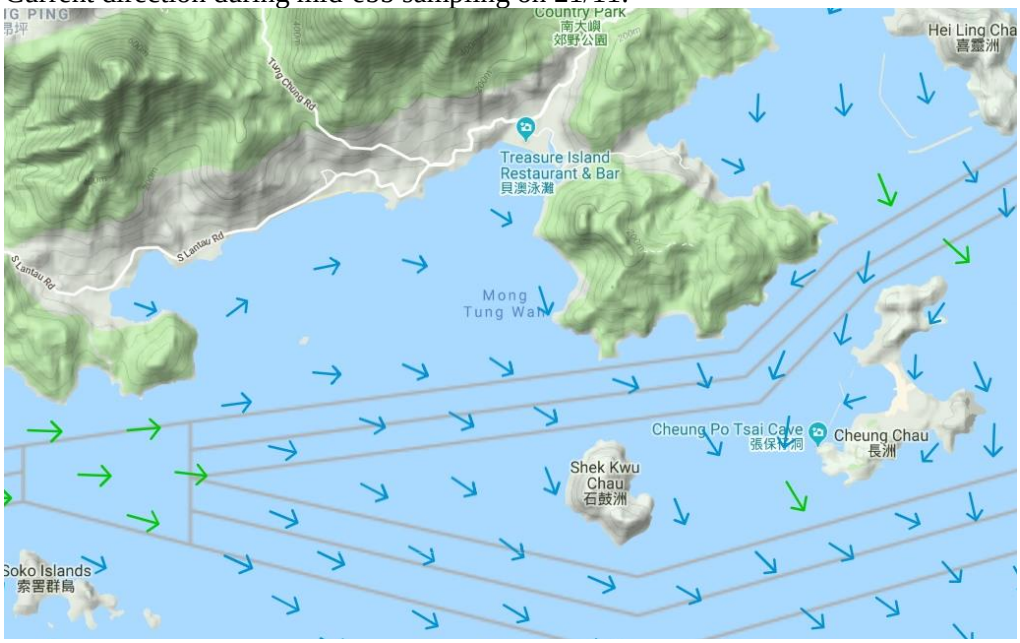
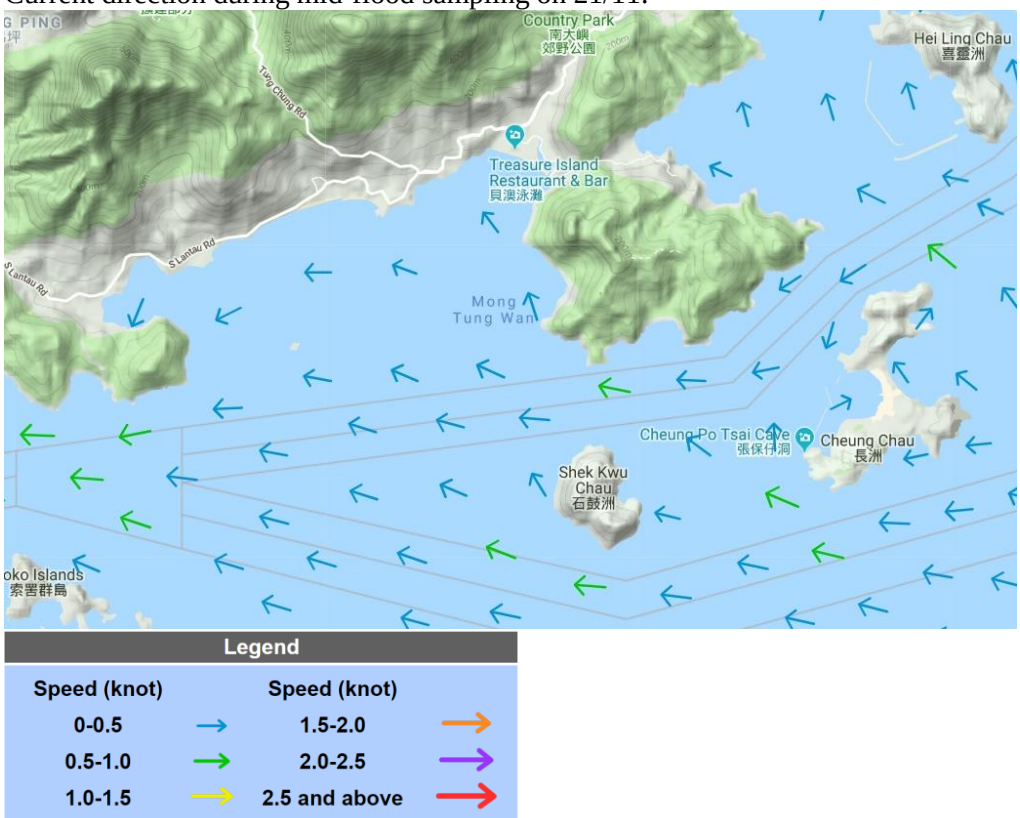
Project	Integrated Waste Management Facilities, Phase 1		
Date	21 November 2018 (Lab result received on 26 November 2018)		
Time	09:02 – 12:32 (Mid-Ebb) 15:07 – 18:37 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	H1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 15.2 mg/L (120% of C1)	≥ 16.5 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	16.7 mg/L (H1)	12.7 mg/L (C1) 14.0 mg/L (C2)	7.3 mg/L (B1) 12.8 mg/L (B2) 9.3 mg/L (B3) 7.3 mg/L (B4) 13.7 mg/L (F1) 8.3 mg/L (M1) 11.5 mg/L (CR1) 12.7 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 21/11 include ground investigation (GI) work of 3 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 direction was found to be from Northwest to Southeast around Shek Kwu Chau. CR1 and CR2, the closest monitoring stations to the site location when comparing to H1 (upstream monitoring stations), exhibited a smaller SS level. The above rationales and absence of major SS source might suggest that high SS level exceedance at H1 is deemed to be is deemed to be unrelated to the Project.		

<table>
<tr><td></td><td colspan="3">Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/11, where no improper site practice that might contribute to the increase in SS level was observed during the inspection.</td></tr>
<tr><td>Actions taken / to be taken</td><td colspan="3">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.</td></tr>
<tr><td colspan="4">Mid-Flood</td></tr>
<tr><td>Monitoring Location</td><td colspan="3">B2
 
</td></tr>
<tr><td>Parameter</td><td colspan="3">Suspended Solid (SS)</td></tr>
<tr><td rowspan="2">Action & Limit Levels</td><td>Action Level</td><td colspan="2">Limit Level</td></tr>
<tr><td>≥ 10.4 mg/L (120% of C2)</td><td colspan="2">≥ 11.3 mg/L (130% of C2)</td></tr>
<tr><td rowspan="2">Measurement Level</td><td>Impact Station(s) of Exceedance</td><td>Control Stations</td><td>Impact Station(s) without Exceedance</td></tr>
<tr><td>29.8 mg/L (B2)</td><td>7.3 mg/L (C1)
8.7 mg/L (C2)</td><td>5.3 mg/L (B1)
8.0 mg/L (B3)
7.8 mg/L (B4)
6.3 mg/L (F1)
8.2 mg/L (H1)
8.5 mg/L (M1)
7.2 mg/L (CR1)
8.0 mg/L (CR2)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="3">Works scheduled on site on 21/11 include ground investigation (GI) work of 3 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.

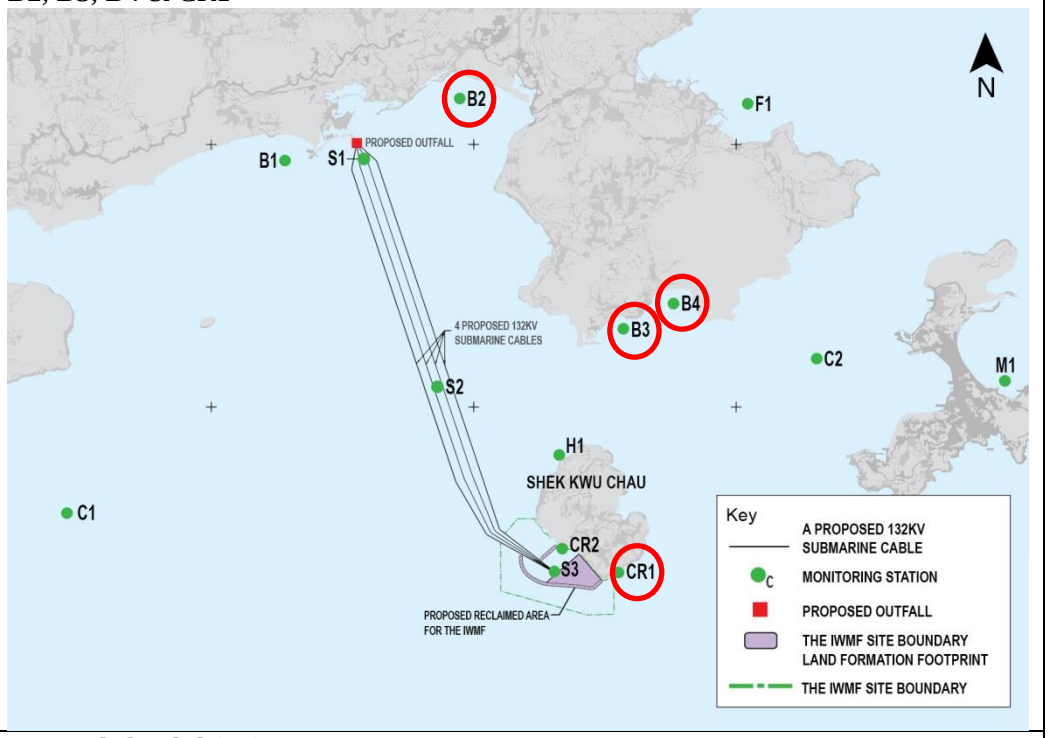
Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.

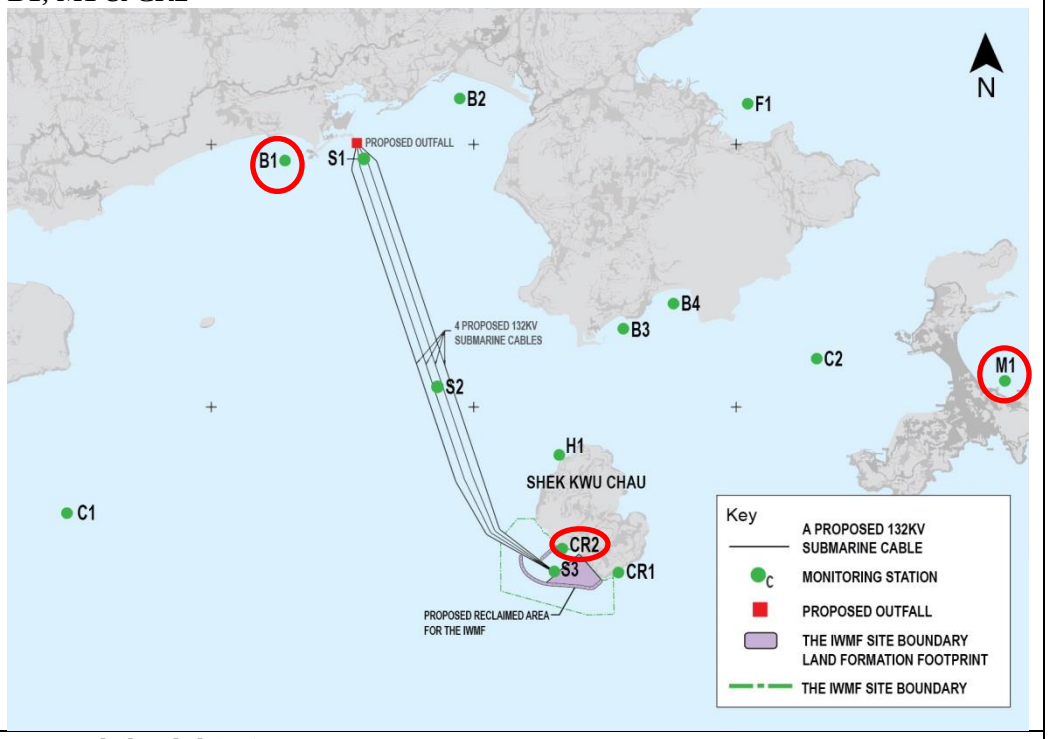
B2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring location is deemed to be unrelated to the Project.

Site tidiness in the present barges in the Project site were checked during weekly site</td></tr>
</table>

	inspection on 27/11, where no 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-ebb sampling on 21/11:  Current direction during mid-flood sampling on 21/11:  **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	27 November 2018

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	23 November 2018 (Lab result received on 29 November 2018)		
Time	10:28 – 13:58 (Mid-Ebb) 16:07 – 19:37 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B2, B3, B4 & CR1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 9.8 mg/L (120% of C1)	≥ 10.6 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	11.5 mg/L (B2) 10.8 mg/L (B3) 10.3 mg/L (B4) 15.5 mg/L (CR1)	8.2 mg/L (C1) 7.2 mg/L (C2)	6.8 mg/L (B1) 9.0 mg/L (F1) 8.3 mg/L (H1) 9.7 mg/L (M1) 8.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 23/11 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 Northwest to Southeast at waters around Shek Kwu Chau. B2, B3, 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. CR1 is located at downstream direction to the works location, while no observation of silt plume was made during the sampling event. Silt curtain checking was implemented by contractor and checking result showed no deficiency of silt curtain was found on that day. It might suggest that exceedance of SS at CR1 is deemed to be unrelated to the Project.		

<table>
<tr><td></td><td colspan="3">Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/11, where no improper site practice that might contribute to the increase in SS level was observed during the inspection.</td></tr>
<tr><td>Actions taken / to be taken</td><td colspan="3">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.</td></tr>
<tr><td colspan="4">Mid-Flood</td></tr>
<tr><td>Monitoring Location</td><td colspan="3">B1, M1 & CR2
 
</td></tr>
<tr><td>Parameter</td><td colspan="3">Suspended Solid (SS)</td></tr>
<tr><td rowspan="2">Action & Limit Levels</td><td>Action Level</td><td colspan="2">Limit Level</td></tr>
<tr><td>≥ 8.0 mg/L</td><td colspan="2">≥ 10.0 mg/L</td></tr>
<tr><td rowspan="2">Measurement Level</td><td>Impact Station(s) of Exceedance</td><td>Control Stations</td><td>Impact Station(s) without Exceedance</td></tr>
<tr><td>9.5 mg/L (B1)
8.5 mg/L (M1)
8.3 mg/L (CR2)</td><td>5.7 mg/L (C1)
5.5 mg/L (C2)</td><td>6.8 mg/L (B2)
7.8 mg/L (B3)
6.0 mg/L (B4)
5.8 mg/L (F1)
5.2 mg/L (H1)
7.8 mg/L (CR1)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="3">Works scheduled on site on 23/11 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.

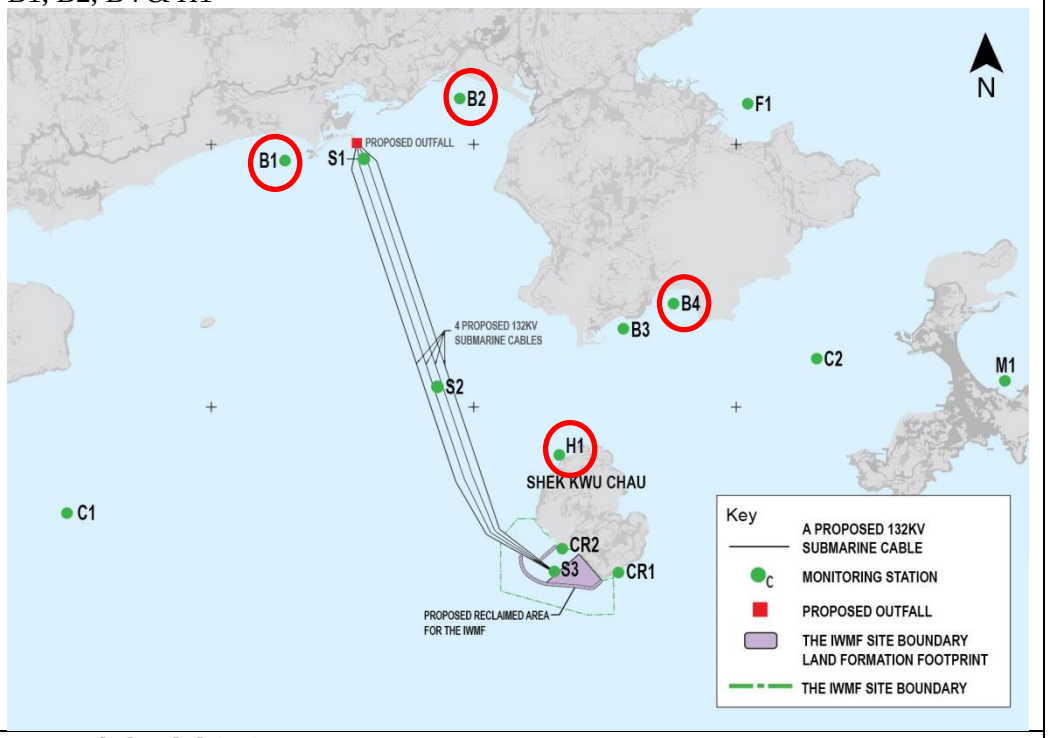
Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.

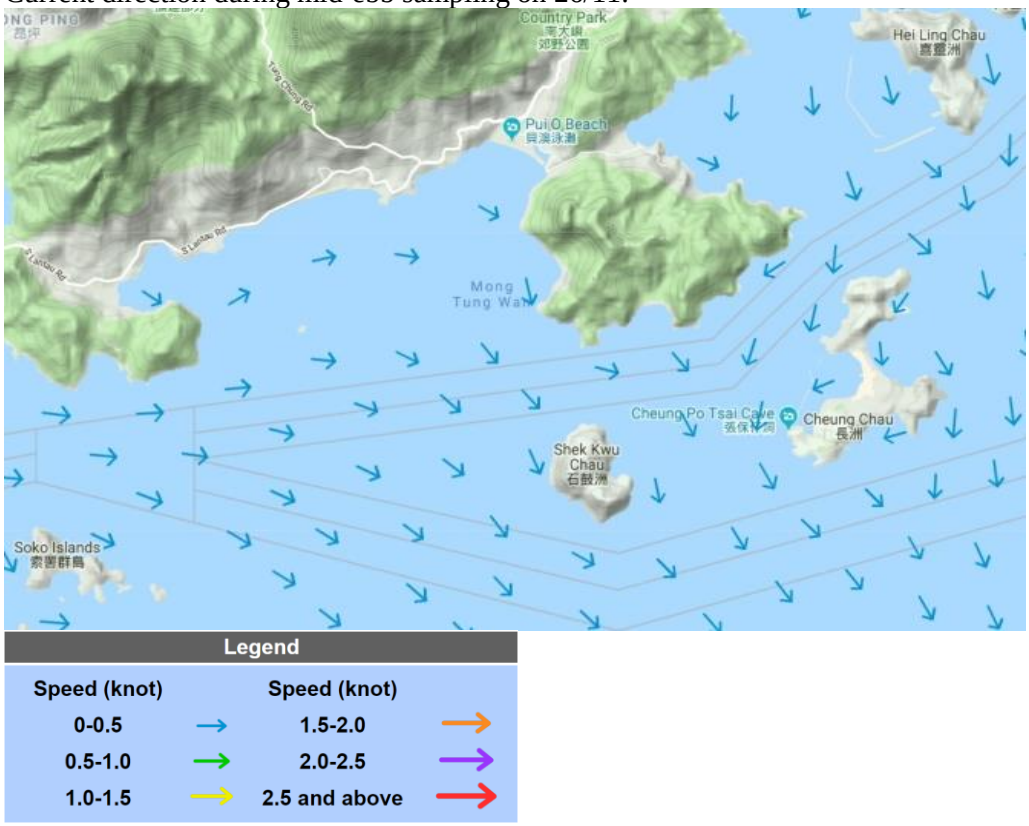
B1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project.

CR2 is located close to works location within the Project site, while no observation of silt plume was made during the sampling event. Silt curtain checking was implemented by contractor and checking result showed no deficiency of silt curtain was found on that day. It might suggest that exceedance of SS at CR2 is deemed to be</td></tr>
</table>

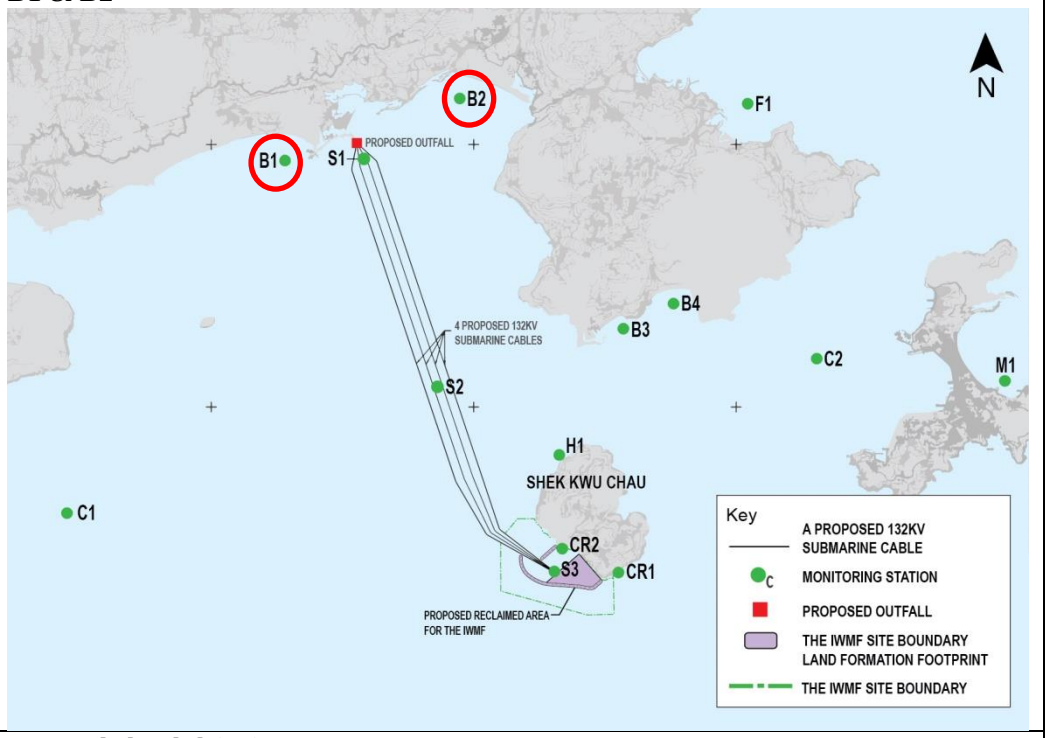
	unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/11, where no improper site practice that might contribute to the increase in SS level was observed during the inspection.
Actions taken / to be taken	Examination of environmental 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-ebb sampling on 23/11:  Current direction during mid-flood sampling on 23/11:  **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	30 November 2018

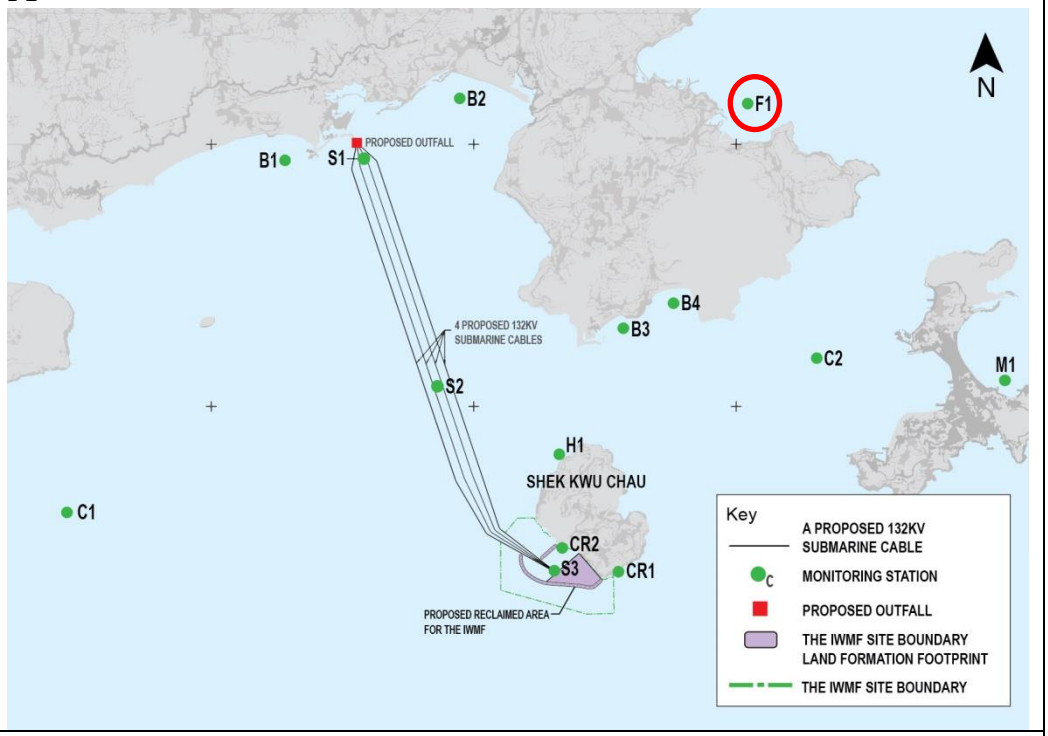
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	26 November 2018 (Lab result received on 29 November 2018)		
Time	12:42 – 16:12 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	B1, B2, B4 & H1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 13.2 mg/L (120% of C1)	≥ 14.3 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	14.3 mg/L (B1) 13.3 mg/L (B2) 13.3 mg/L (B4) 14.7 mg/L (H1)	11.0 mg/L (C1) 11.8 mg/L (C2)	12.3 mg/L (B3) 11.8 mg/L (F1) 12.5 mg/L (M1) 10.7 mg/L (CR1) 10.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 26/11 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 Northwest to Southeast at waters around Shek Kwu Chau. B1, 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. CR1 and CR2, the closest monitoring stations to the site location when comparing to H1 (upstream monitoring stations), exhibited a much smaller SS level. 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 27/11, where no 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-ebb sampling on 26/11:  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	30 November 2018

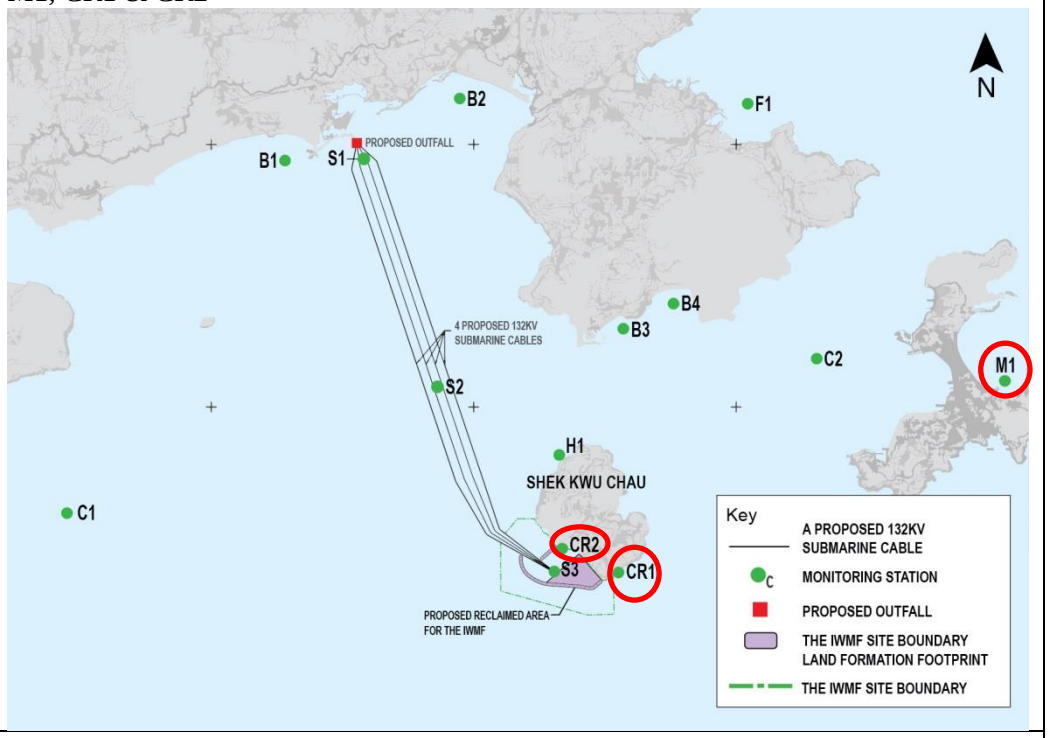
Incident Report on Action Level or Limit Level Non-compliance

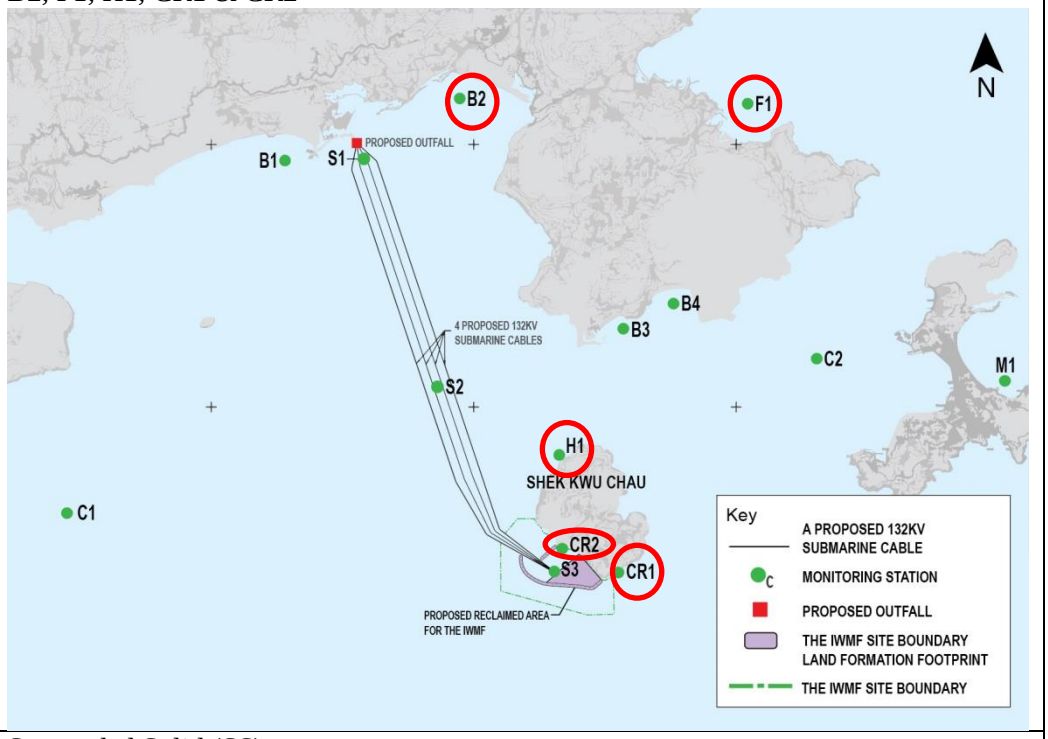
Project	Integrated Waste Management Facilities, Phase 1		
Date	28 November 2018 (Lab result received on 3 December 2018)		
Time	09:21 – 12:51 (Mid-Flood) 14:57 – 17:50 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	B1 & B2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 9.0 mg/L (120% of C2)	≥ 10.0 mg/L	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	14.8 mg/L (B1) 9.0 mg/L (B2)	8.2 mg/L (C1) 7.5 mg/L (C2)	6.8 mg/L (B3) 8.3 mg/L (B4) 8.2 mg/L (F1) 8.0 mg/L (H1) 8.3 mg/L (M1) 8.5 mg/L (CR1) 8.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 28/11 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 and B2 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, silt curtain checking was implemented by contractor and checking result showed no deficiency of silt curtain was found on that day, exceedance of these monitoring locations 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 27/11, where no improper site practice that might contribute to the		

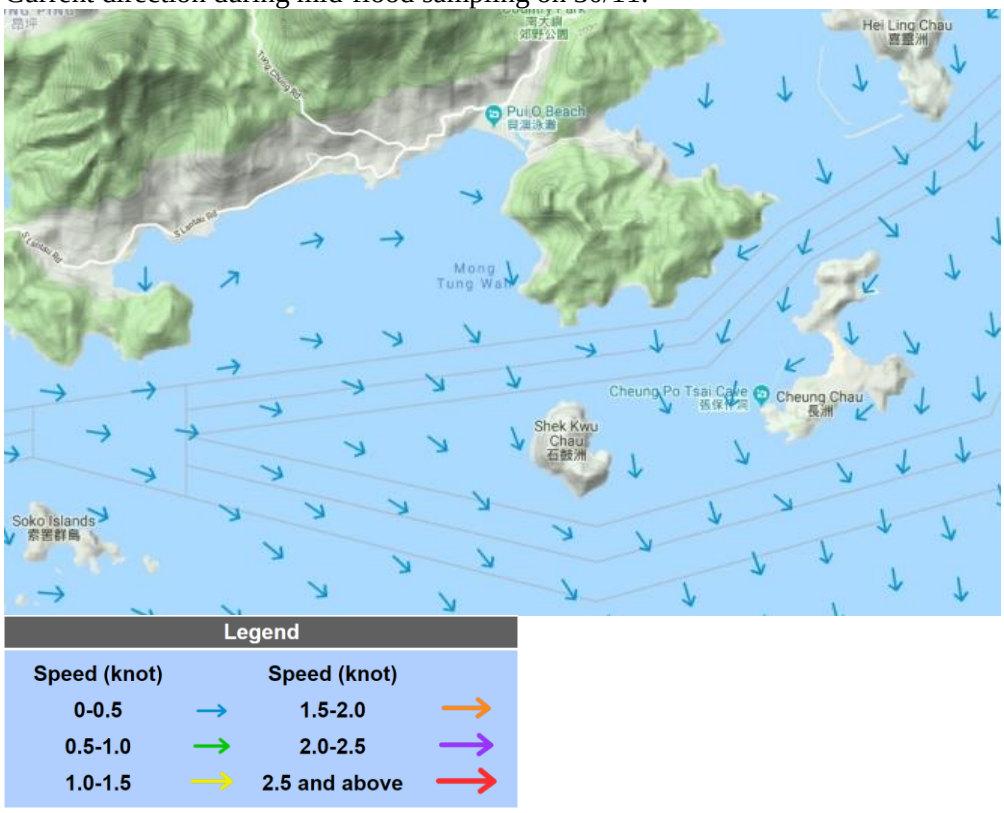
	increase in SS level was observed during the inspection.		
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Mid-Ebb			
Monitoring Location	F1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 11.6 mg/L (120% of C1)	≥ 12.6 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	15.7 mg/L (F1)	9.7 mg/L (C1) 12.8 mg/L (C2)	8.8 mg/L (B1) 11.3 mg/L (B2) 9.5 mg/L (B3) 6.0 mg/L (B4) 7.8 mg/L (H1) 9.3 mg/L (M1) 11.3 mg/L (CR1) 10.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 28/11 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 Northwest to Southeast at waters around Shek Kwu Chau. F1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, silt curtain checking was implemented by contractor and checking result showed no deficiency of silt curtain was found on that day, exceedance of this monitoring location 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 27/11, where no 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 28/11:  Current direction during mid-ebb sampling on 28/11:   (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	4 December 2018

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	30 November 2018 (Lab result received on 5 December 2018)		
Time	11:41 – 15:11 (Mid-Flood) 17:33 – 20:23 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	M1, CR1 & CR2 		
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
	8.8 mg/L (M1) 8.0 mg/L (CR1) 9.3 mg/L (CR2)	6.0 mg/L (C1) 5.3 mg/L (C2)	6.3 mg/L (B1) 5.8 mg/L (B2) 5.5 mg/L (B3) 6.0 mg/L (B4) 5.2 mg/L (F1) 5.8 mg/L (H1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 30/11 include ground investigation (GI) work of 2 borehole drilling, DCM sample coring for pre-construction site trial, laying of geotextile with sand placing for ballasting and sand blanket laying 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. CR1 is located at upstream 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. Silt curtain checking was implemented by contractor and checking result showed no deficiency of silt curtain was found on that day. It might suggest that		

	exceedance of SS at 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 27/11, where no 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	B2, F1, H1, CR1 & CR2 		
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
	9.5 mg/L (B2) 8.0 mg/L (F1) 10.3 mg/L (H1) 10.8 mg/L (CR1) 8.5 mg/L (CR2)	4.7 mg/L (C1) 10.3 mg/L (C2)	7.0 mg/L (B1) 6.3 mg/L (B3) 6.5 mg/L (B4) 7.5 mg/L (M1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 30/11 include ground investigation (GI) work of 2 borehole drilling, DCM sample coring for pre-construction site trial, laying of geotextile with sand placing for ballasting and sand blanket laying at caisson seawall area. Dominating sea current direction was found to be from Northwest to Southeast around Shek Kwu Chau. B2 and F1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works locations and H1 is located at upstream direction to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project. 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. Silt curtain checking was implemented by contractor and checking		

	result showed no deficiency of silt curtain was found on that day. It might suggest that exceedance of SS at 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 27/11, where no 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 30/11:  Current direction during mid-flood sampling on 30/11:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	6 December 2018