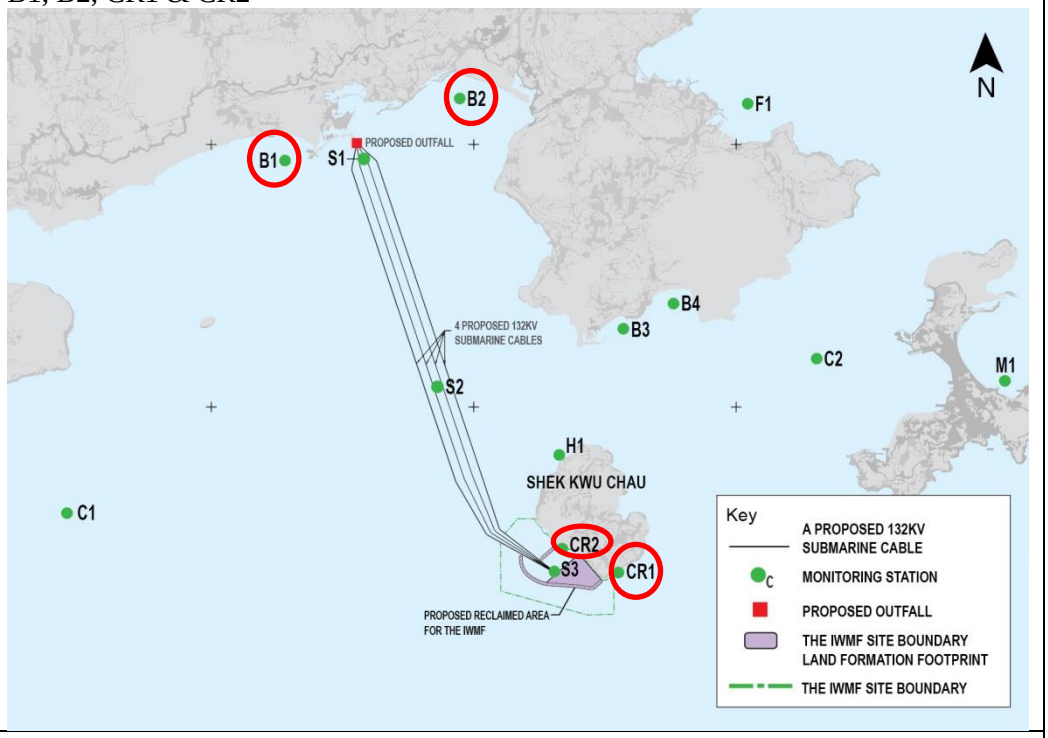
Appendix N Exceedance Report

Statistical Summary of Exceedances in the Reporting Period

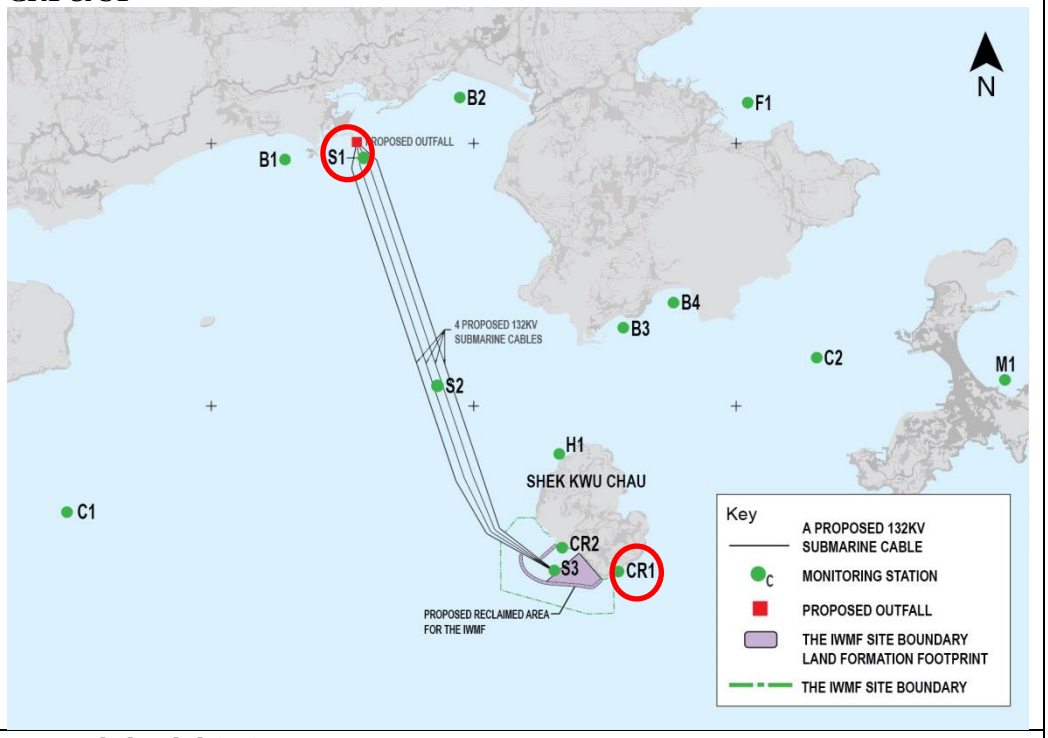
Water Quality			
Location	**Action Level**	**Limit Level**	**Total**
B1	0	2	2
B2	2	0	2
B3	0	1	1
B4	2	2	4
CR1	1	0	1
CR2	2	1	3
F1	1	3	4
H1	0	1	1
S1	1	1	2
S2	3	0	3
S3	2	3	5
M1	0	5	5
Noise			
Location	**Action Level**	**Limit Level**	**Total**
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0

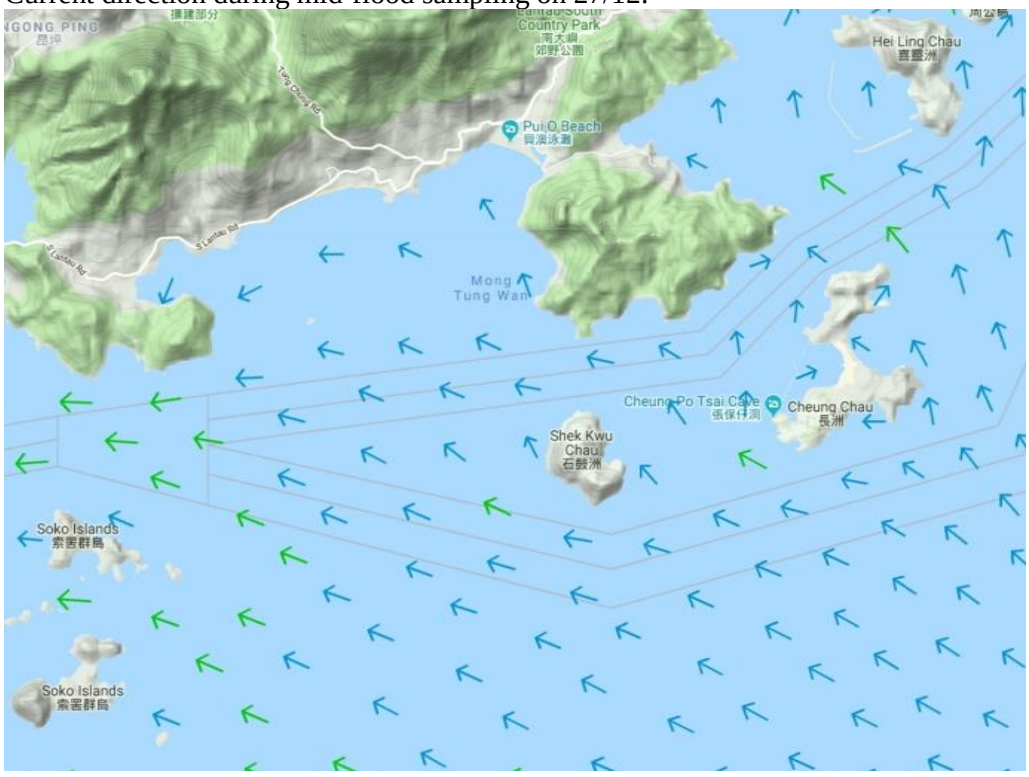
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	27 December 2018 (Lab result received on 05 January 2019)		
Time	08:59 – 12:29 (Mid-Flood) 14:26 – 17:56 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	B1, B2, 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
	9.3 mg/L (B1) 8.5 mg/L (B2) 9.2 mg/L (CR1) 10.3 mg/L (CR2)	7.8 mg/L (C1) 6.3 mg/L (C2)	4.0 mg/L (B3) 6.0 mg/L (B4) 6.8 mg/L (F1) 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 Limit Level Non-compliance	Works scheduled on site on 27/12 include Cone Penetration Test works, sand blanket laying at caisson seawall area and DCM cluster installation at caisson seawall area. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. B1 & B2 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. From MMO monitoring records on 27/12, two DCM barges (ESC-61 & ESC-62) and two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day. No deficiency of silt curtain was found before the start of construction activity.		

	CR1 is located at upstream and CR2 is located close to the works location within the Project site, while silt curtain checking on ESC-61, ESC-62 & Shun Tat D12 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The sand blanket laying works scheduled in FTB19 was stopped on that day due to the damage of the cage type silt curtain. It might suggest that the high SS exceedances at CR1 & 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 27/12, 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 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

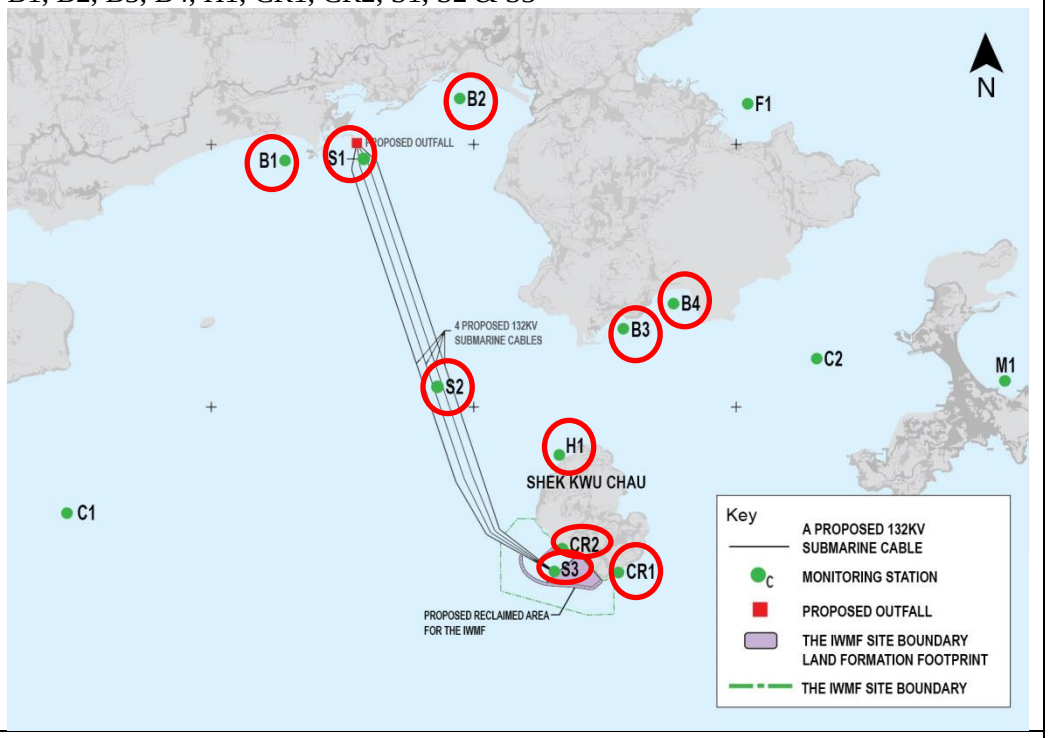
Monitoring Location	CR1 & S1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 8.0 mg/L	≥ 10.0 mg/L	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	8.5 mg/L (CR1) 9.8 mg/L (S1)	5.5 mg/L (C1) 6.7 mg/L (C2)	7.3 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 Limit Level Non-compliance	Works scheduled on site on 27/12 include Cone Penetration Test works, sand blanket laying at caisson seawall area and DCM cluster installation at caisson seawall area.		

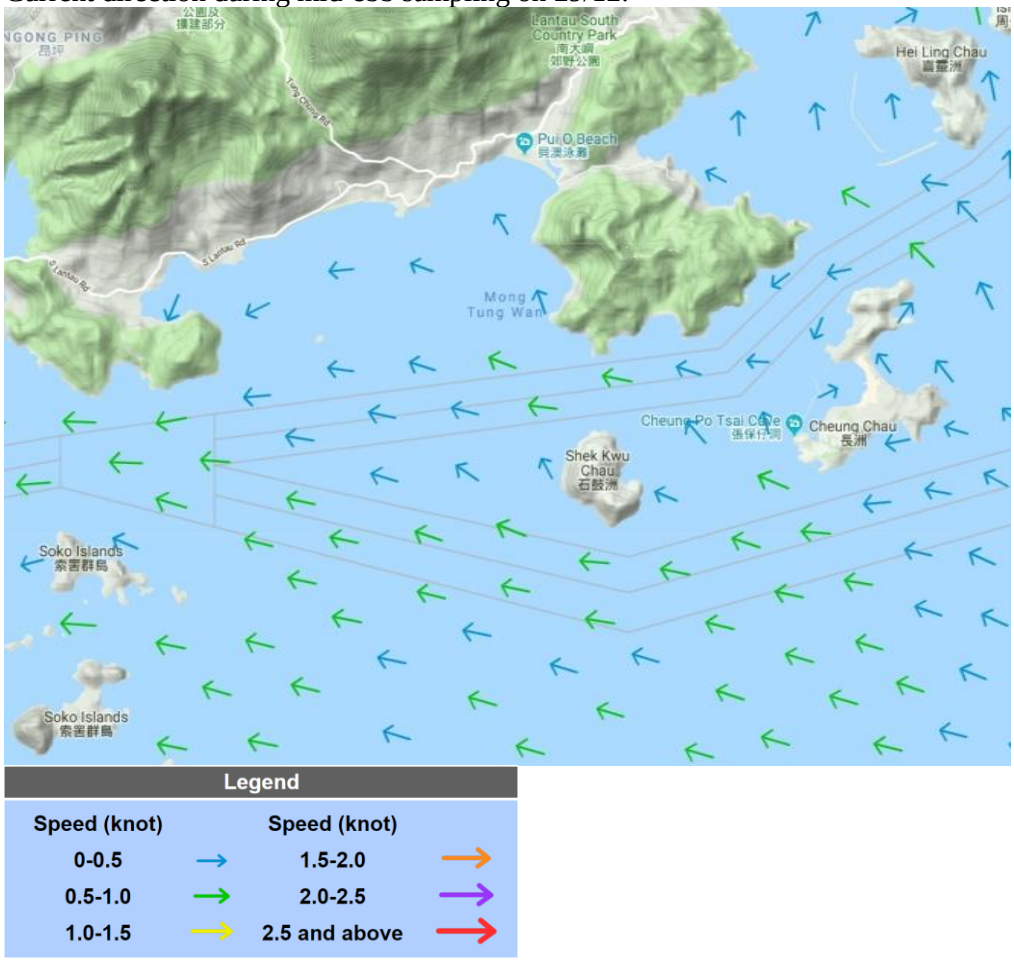
	Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring location is deemed to be unrelated to the Project. From MMO monitoring records on 27/12, two DCM barges (ESC-61 & ESC-62) and two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day. No deficiency of silt curtain was found before the start of construction activity. CR1 is located at downstream direction while silt curtain checking on ESC-61, ESC-62 & Shun Tat D12 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The sand blanket laying works scheduled in FTB19 was stopped on that day due to the damage of the cage type silt curtain. It might suggest that the high SS exceedance at CR1 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 27/12, 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 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 27/12:  Current direction during mid-ebb sampling on 27/12:

(Sourced from http://current.hydro.gov.hk/en/map.html)

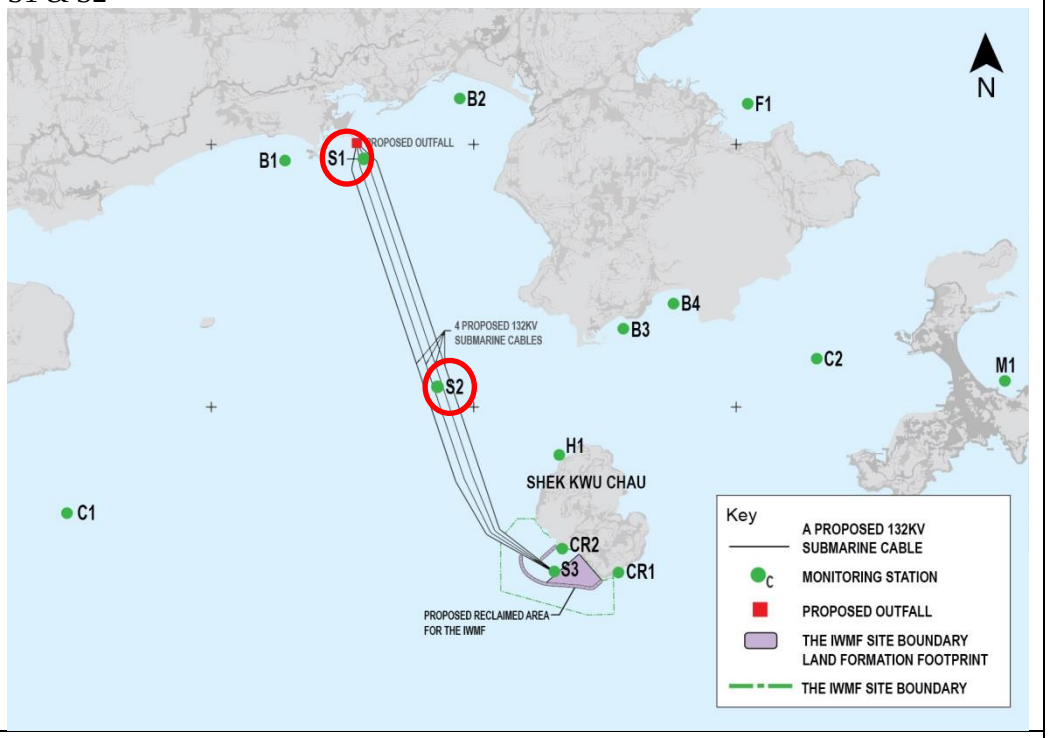
Prepared by	Polar Chan
Date	7 January 2019

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	29 December 2018 (Lab result received on 9 January 2019)		
Time	10:40 – 14:10 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B1, B2, B3, B4, H1, CR1, CR2, S1, S2 & S3 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 8.6 mg/L (120% of C2)	≥ 10.0 mg/L	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	21.8 mg/L (B1) 16.0 mg/L (B2) 10.3 mg/L (B3) 8.8 mg/L (B4) 10.5 mg/L (H1) 22.8 mg/L (CR1) 23.3 mg/L (CR2) 22.8 mg/L (S1) 23.0 mg/L (S2) 23.5 mg/L (S3)	20.7 mg/L (C1) 7.2 mg/L (C2)	7.7 mg/L (F1) 7.7 mg/L (M1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 29/12 include Cone Penetration Test works 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. B1, B2, B3, B4, S1 & S2 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. From MMO monitoring records on 29/12, one DCM barge (ESC-61) and two dumb		

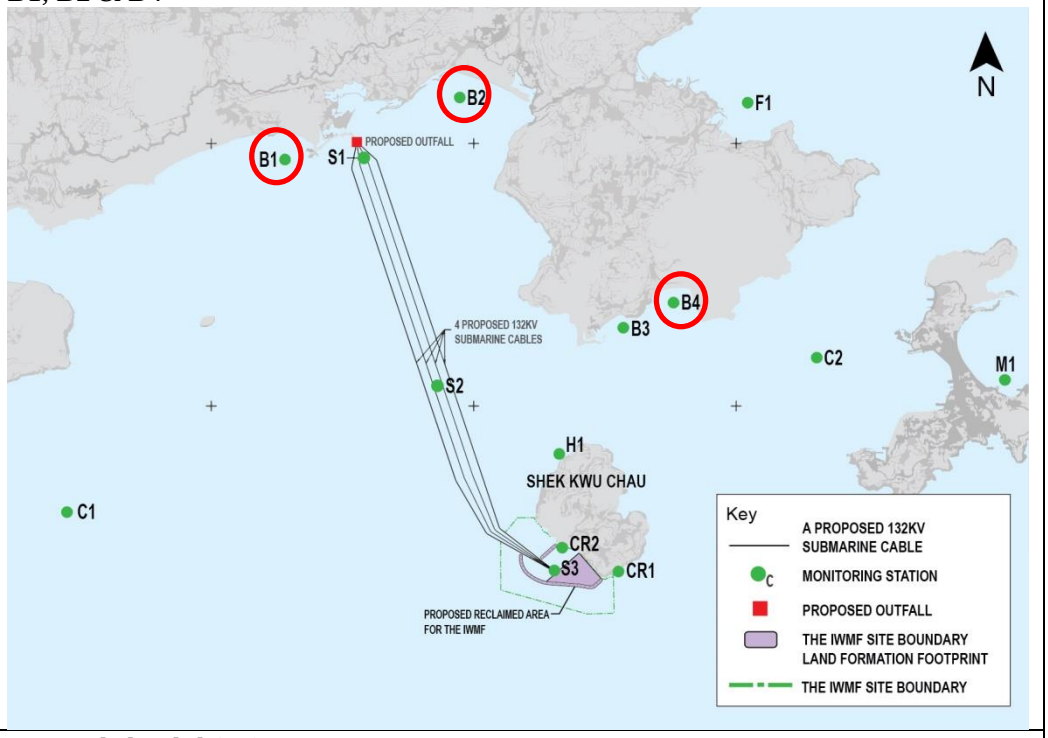
	lighters (Shun Tat D12 & FTB-19) were in operations on that day while no deficiency of silt curtain was found before the start of construction activity. H1 is located at downstream direction, CR1 is located at upstream direction, CR2 & S3 are located close to the works location within the Project site, while silt curtain checking on Shun Tat D12, FTB-19 & ESC-61 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. Control station (C1) and most of 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 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 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.
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 29/12:  **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	9 January 2019

Incident Report on Action Level or Limit Level Non-compliance

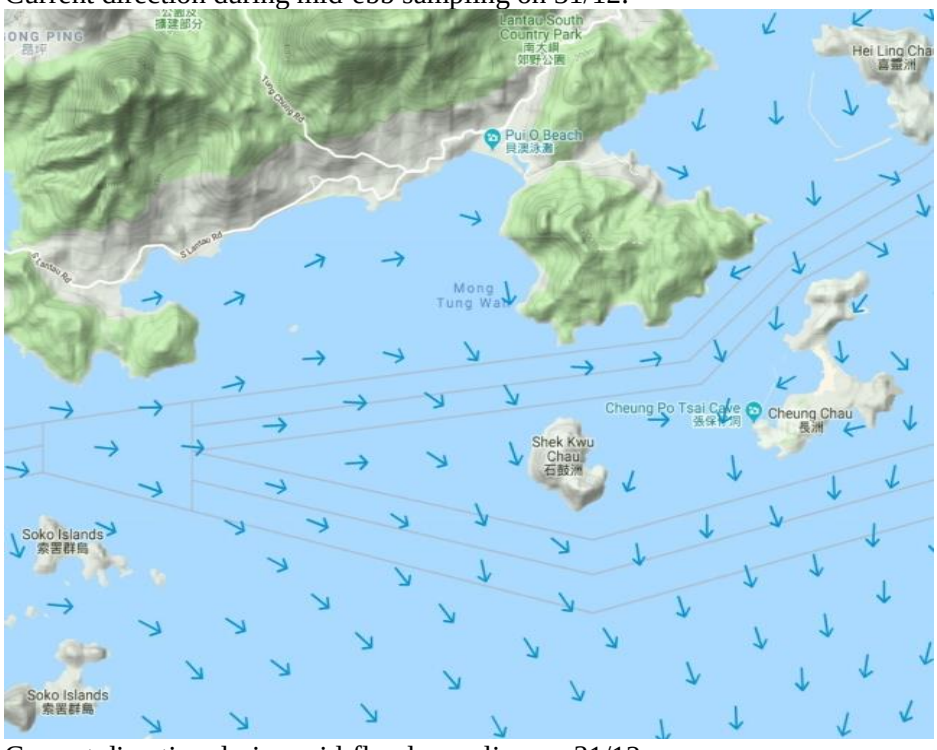
Project	Integrated Waste Management Facilities, Phase 1		
Date	31 December 2018 (Lab result received on 09 January 2019)		
Time	08:00 – 09:30 (Mid-Ebb) 12:31 – 16:00 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	S1 & S2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 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
	16.0 mg/L (S1) 15.5 mg/L (S2)	11.0 mg/L (C1) 8.8 mg/L (C2)	9.3 mg/L (B1) 9.0 mg/L (B2) 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 Limit Level Non-compliance	Works scheduled on site on 31/12 include Cone Penetration Test works and sand blanket laying at caisson seawall area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S1 & S2 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 31/12, two DCM barges (ESC-61 & ESC-62) and		

<table>
<tr><td></td><td colspan="3">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 on FTB-19 & Shun Tat D12 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 & ESC-62 were suspended on that day due to adverse weather condition.

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.</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, B2 & B4
 
</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>≥ 13.8 mg/L (120% of C2)</td><td colspan="2">≥ 15.0 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>16.0 mg/L (B1)
15.8 mg/L (B2)
16.3 mg/L (B4)</td><td>11.2 mg/L (C1)
11.5 mg/L (C2)</td><td>11.8 mg/L (B3)
12.2 mg/L (F1)
13.3 mg/L (H1)
10.8 mg/L (M1)
7.8 mg/L (CR1)
11.8 mg/L (CR2)
12.5 mg/L (S1)
13.0 mg/L (S2)
12.0 mg/L (S3)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="3">Works scheduled on site on 31/12 include Cone Penetration Test works and sand blanket laying at caisson seawall area.

Dominating sea current direction was found to be from Southeast to Northwest at</td></tr>
</table>

	waters around Shek Kwu Chau. B1, B2 & 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. From MMO monitoring records on 31/12, two DCM barges (ESC-61 & ESC-62) and 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 on Shun Tat D12 & FTB-19 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 & ESC-62 were suspended on that day due to adverse weather condition. 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.
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 31/12:  Current direction during mid-flood sampling on 31/12:

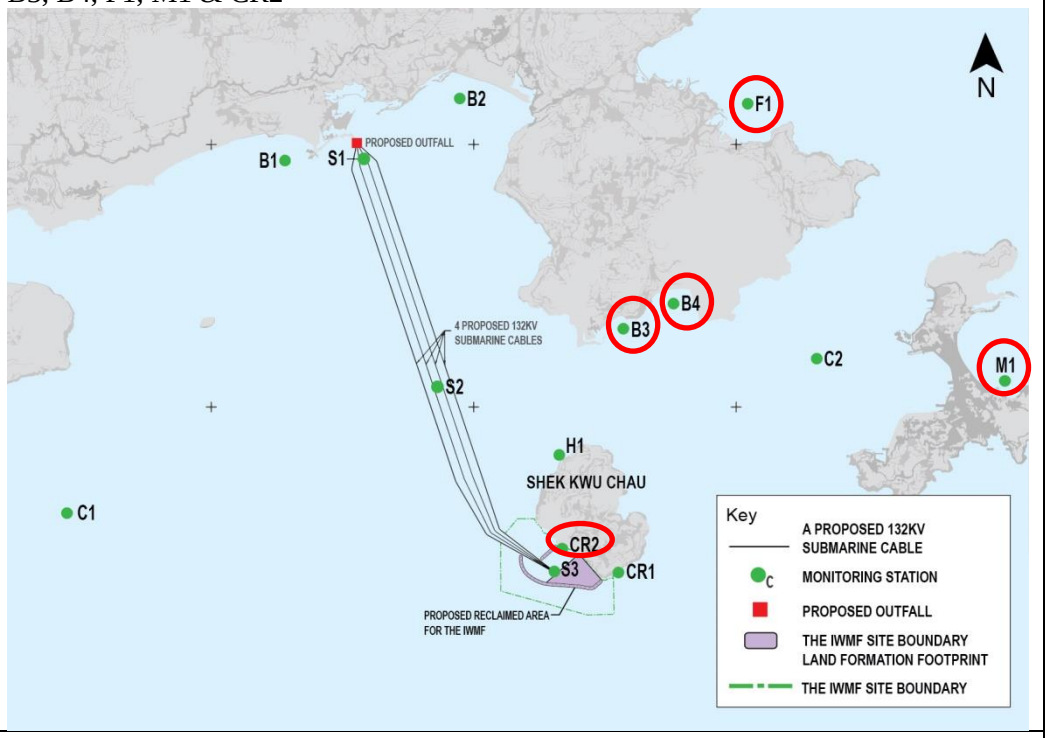
Legend

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	→

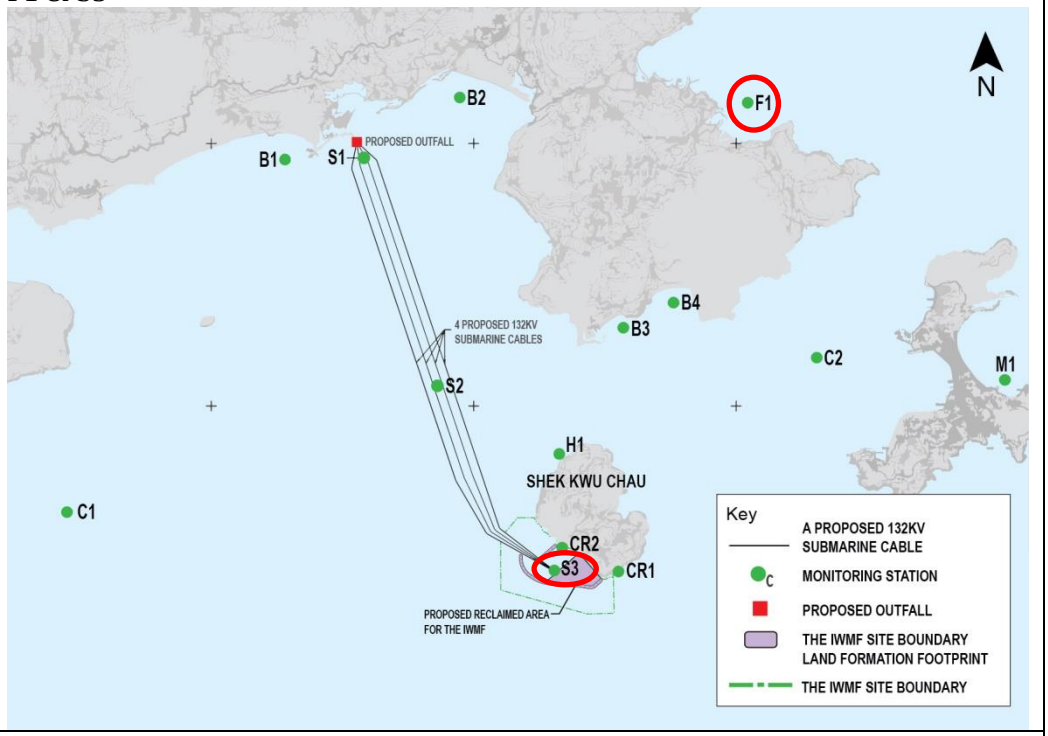
(Sourced from http://current.hydro.gov.hk/en/map.html)

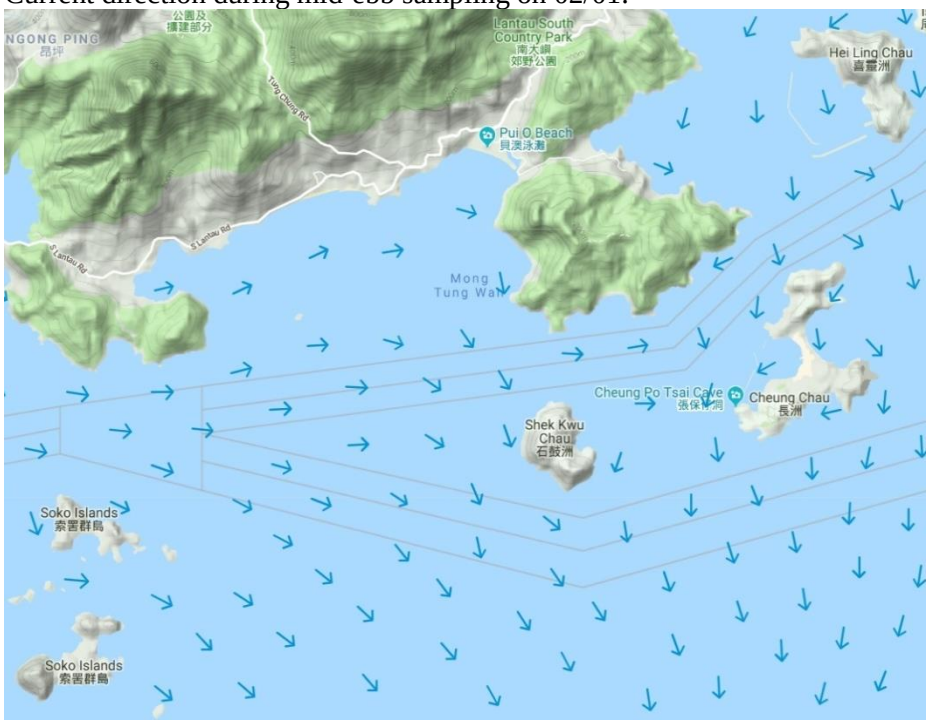
Prepared by	Polar Chan
Date	09 January 2019

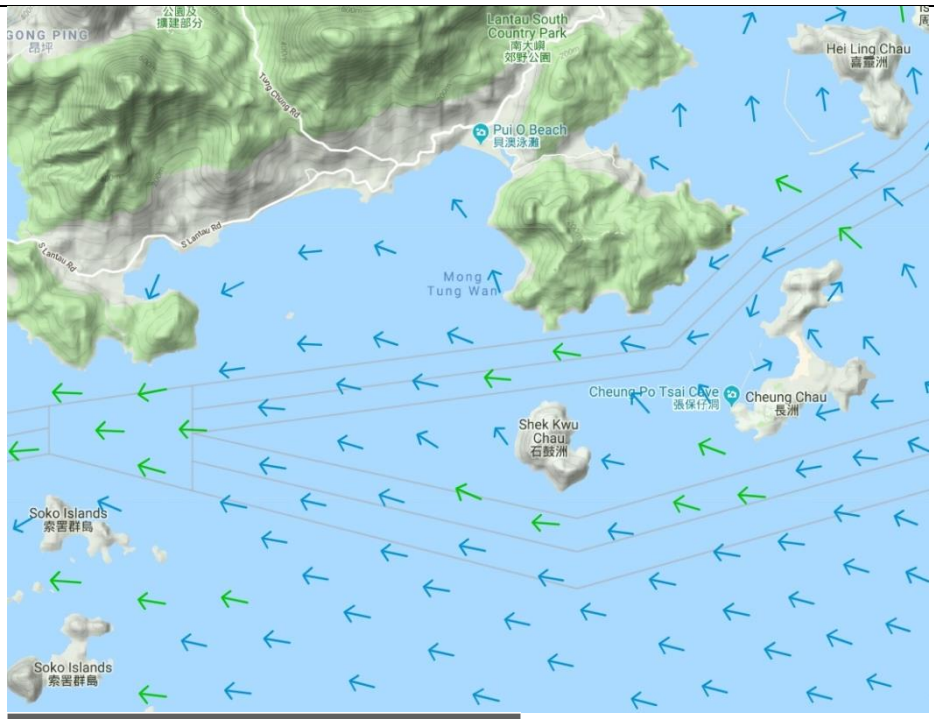
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	02 January 2019 (Lab result received on 09 January 2019)		
Time	08:07 – 11:37 (Mid-Ebb) 13:49 – 17:19 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B3, B4, F1, M1 & CR2 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 9.6 mg/L (120% of C1)	≥ 10.4 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	16.5 mg/L (B3) 14.5 mg/L (B4) 15.5 mg/L (F1) 17.0 mg/L (M1) 11.0 mg/L (CR2)	8.0 mg/L (C1) 15.7 mg/L (C2)	7.3 mg/L (B1) 7.8 mg/L (B2) 9.2 mg/L (H1) 8.3 mg/L (CR1) 8.0 mg/L (S1) 9.0 mg/L (S2) 9.0 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 02/01 include ground investigation (GI) work of Borehole drilling, Cone Penetration Test work at Static Loading Test area and sand blanket laying at caisson seawall area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4, F1 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 02/01, MMO teams were arranged to one DCM barges (ESC-61) and two derrick barges (Shun Tat D12 & FTB 19) on that day while no deficiency of silt curtain was found before the start of construction activity.		

<table>
<tr><td></td><td colspan="3">CR2 is located close to the works location within the Project site while silt curtain checking on ESC-61 (09:45 & 16:45) & Shun Tat D12 (09:00) were implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 were suspended due to high swell and deteriorating weather condition on site. It might suggest that the high 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 02/01, where was 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 remained 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">F1 & S3
 
</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>≥ 15.4 mg/L (120% of C2)</td><td colspan="2">≥ 16.7 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>16.7 mg/L (F1)
16.7 mg/L (S3)</td><td>10.0 mg/L (C1)
12.8 mg/L (C2)</td><td>7.8 mg/L (B1)
10.0 mg/L (B2)
14.0 mg/L (B3)
15.0 mg/L (B4)
15.0 mg/L (H1)
13.5 mg/L (M1)
8.3 mg/L (CR1)
6.8 mg/L (CR2)
12.5 mg/L (S1)
14.7 mg/L (S2)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="3">Works scheduled on site on 02/01 include ground investigation (GI) work of Borehole drilling, Cone Penetration Test work at Static Loading Test area and sand blanket laying at caisson seawall area.</td></tr>
</table>

	Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. F1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project. From MMO monitoring records on 02/01, MMO teams were arranged to one DCM barges (ESC-61) and two derrick barges (Shun Tat D12 & FTB 19) on that day while no deficiency of silt curtain was found before the start of construction activity. S3 is located close to the works location within the Project site while silt curtain checking on ESC-61 (09:45 & 16:45) & Shun Tat D12 (09:00) were implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 were suspended due to high swell and deteriorating weather condition on site. It might suggest that the high SS 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 02/01, where was 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 02/01:  Current direction during mid-flood sampling on 02/01:



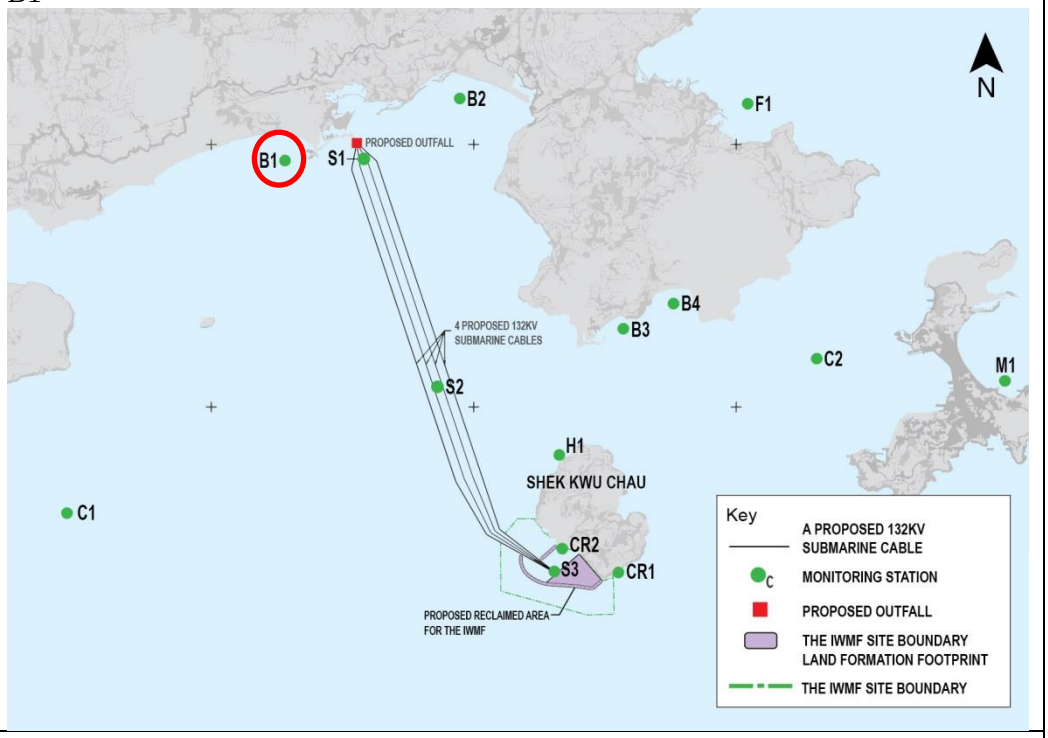
Legend

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)

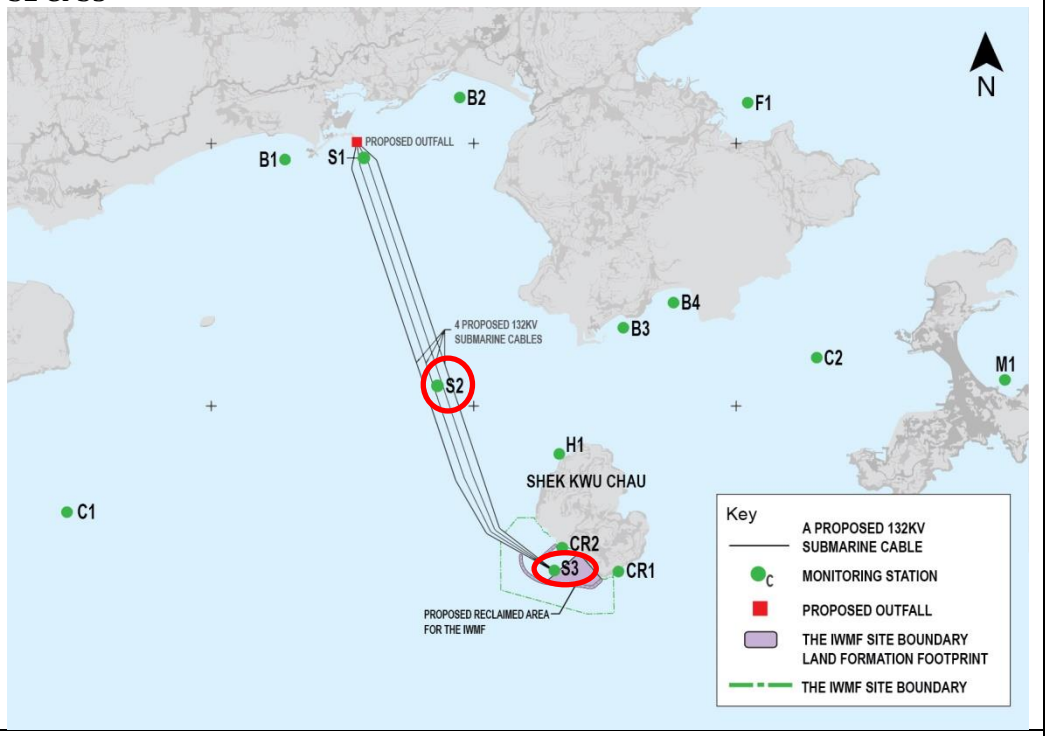
Prepared by	Polar Chan
Date	10 January 2019

Incident Report on Action Level or Limit Level Non-compliance

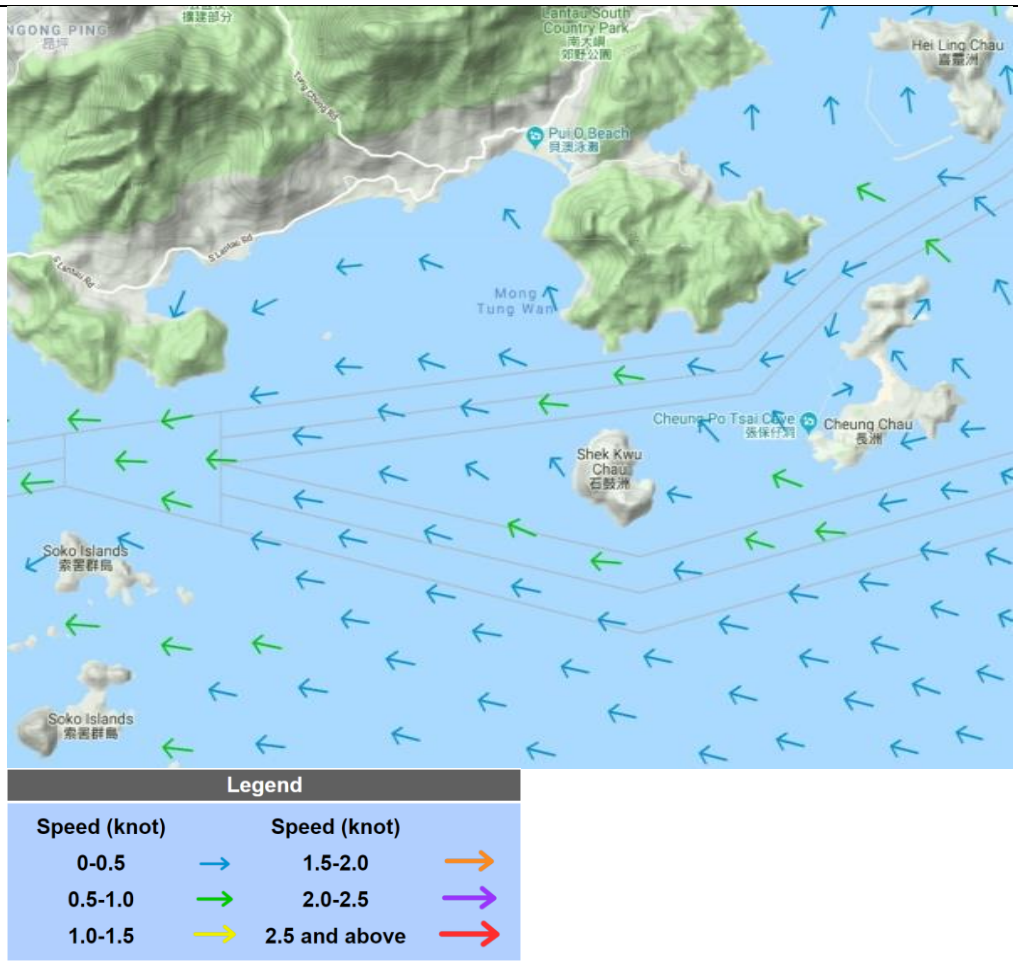
Project	Integrated Waste Management Facilities, Phase 1		
Date	04 January 2019 (Lab result received on 14 January 2019)		
Time	09:56 – 13:26 (Mid-Ebb) 15:02 – 18:32 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	B1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 9.6 mg/L (120% of C1)	≥ 10.4 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	10.5 mg/L (B1)	8.0 mg/L (C1) 4.8 mg/L (C2)	8.5 mg/L (B2) 5.0 mg/L (B3) 4.8 mg/L (B4) 5.0 mg/L (F1) 8.0 mg/L (H1) 7.8 mg/L (M1) 6.0 mg/L (CR1) 5.5 mg/L (CR2) 5.5 mg/L (S1) 4.5 mg/L (S2) 3.7 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 04/01 include ground investigation (GI) work of borehole drilling, DCM main works and sand blanket laying at caisson seawall area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project.		

<table>
<tr><td></td><td colspan="3">From MMO monitoring records on 02/01, MMO teams were arranged to one DCM barges (ESC-61) on that day while no deficiency of silt curtain was found before the start of construction activity.

Silt curtain checking on ESC-61 (15:45) was implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-61 & ESC-62 were suspended due to high swell and deteriorating weather condition. The sand blanket laying at caisson seawall area scheduled in Shun Tat D12 was suspended due to maintenance works for the derrick barge D12.

Site tidiness in the present barges in the Project site were checked during weekly site inspection on 02/01, where was 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 remained 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">S2 & S3
 
</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>9.8 mg/L (S2)
12.2 mg/L (S3)</td><td>6.0 mg/L (C1)
6.3 mg/L (C2)</td><td>6.5 mg/L (B1)
6.0 mg/L (B2)
3.8 mg/L (B3)
6.3 mg/L (B4)
7.0 mg/L (F1)
5.2 mg/L (H1)
6.0 mg/L (M1)
6.7 mg/L (CR1)
6.7 mg/L (CR2)
7.3 mg/L (S1)</td></tr>
</table>

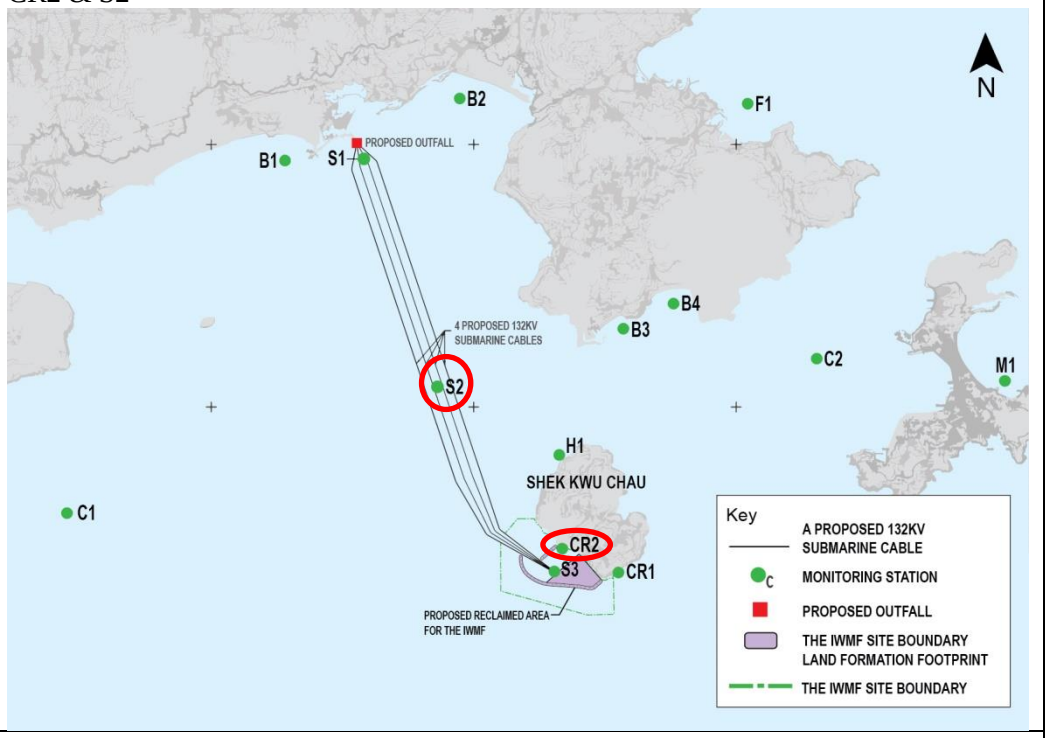
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 04/01 include ground investigation (GI) work of borehole drilling, DCM main works and sand blanket laying at caisson seawall area. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. S2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project. From MMO monitoring records on 02/01, MMO teams were arranged to one DCM barge (ESC-61) on that day while no deficiency of silt curtain was found before the start of construction activity. S3 is located close to the works location within the Project site while silt curtain checking on ESC-61 (15:45) was implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-61 & ESC-62 were suspended due to high swell and deteriorating weather condition. The sand blanket laying at caisson seawall area scheduled in Shun Tat D12 was suspended due to maintenance works for the derrick barge D12. The absence of works and above rationales might suggest that the high SS 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 02/01, where was 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 04/01:  Current direction during mid-flood sampling on 04/01:

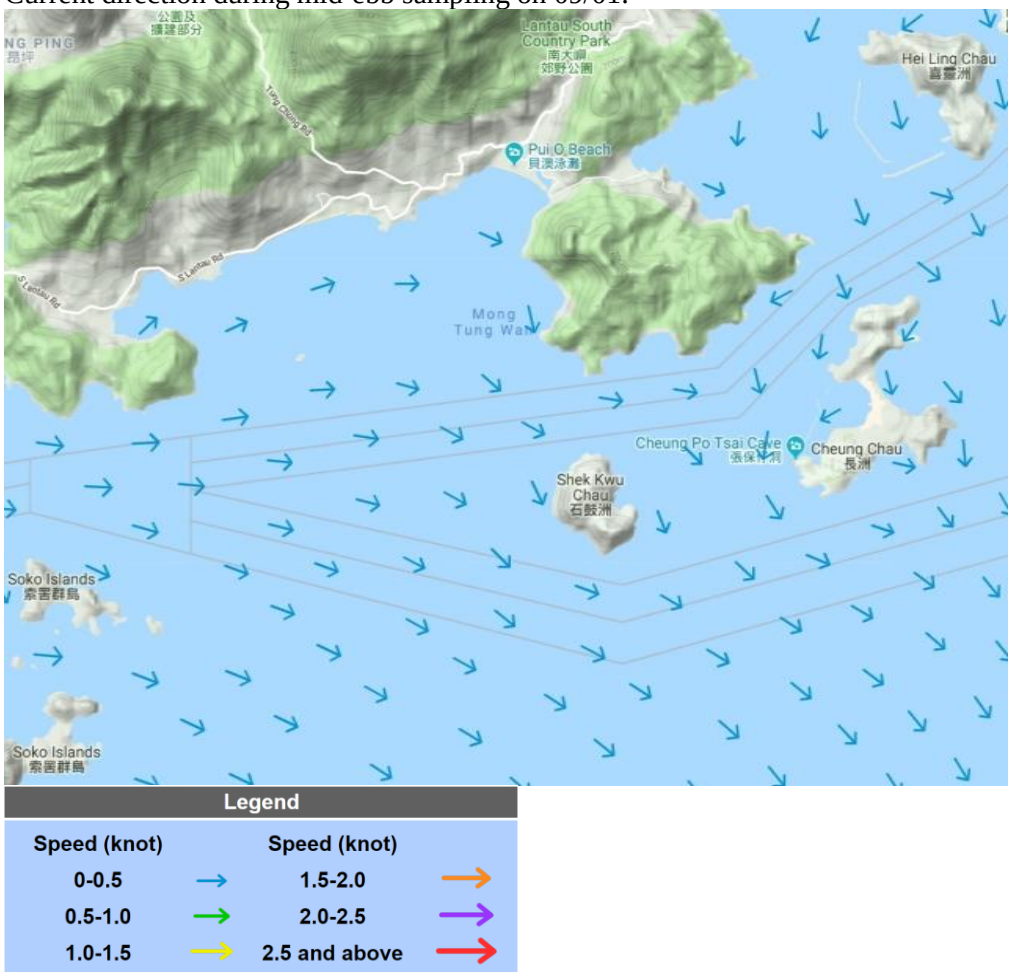


(Sourced from http://current.hydro.gov.hk/en/map.html)

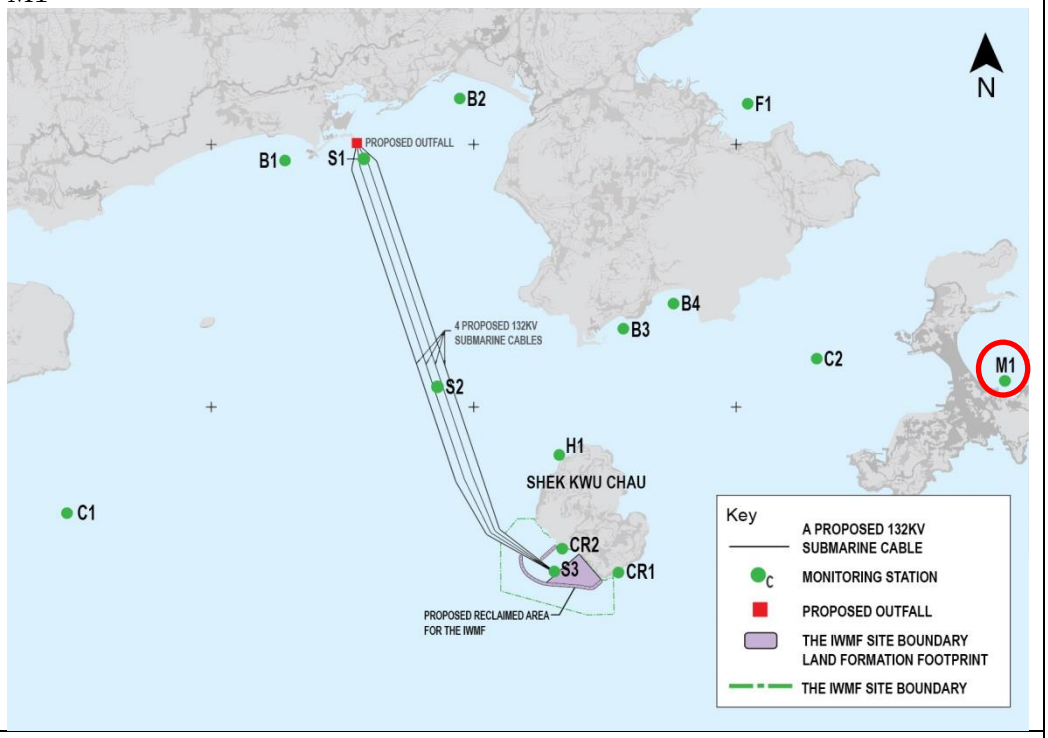
Prepared by	Polar Chan
Date	16 January 2019

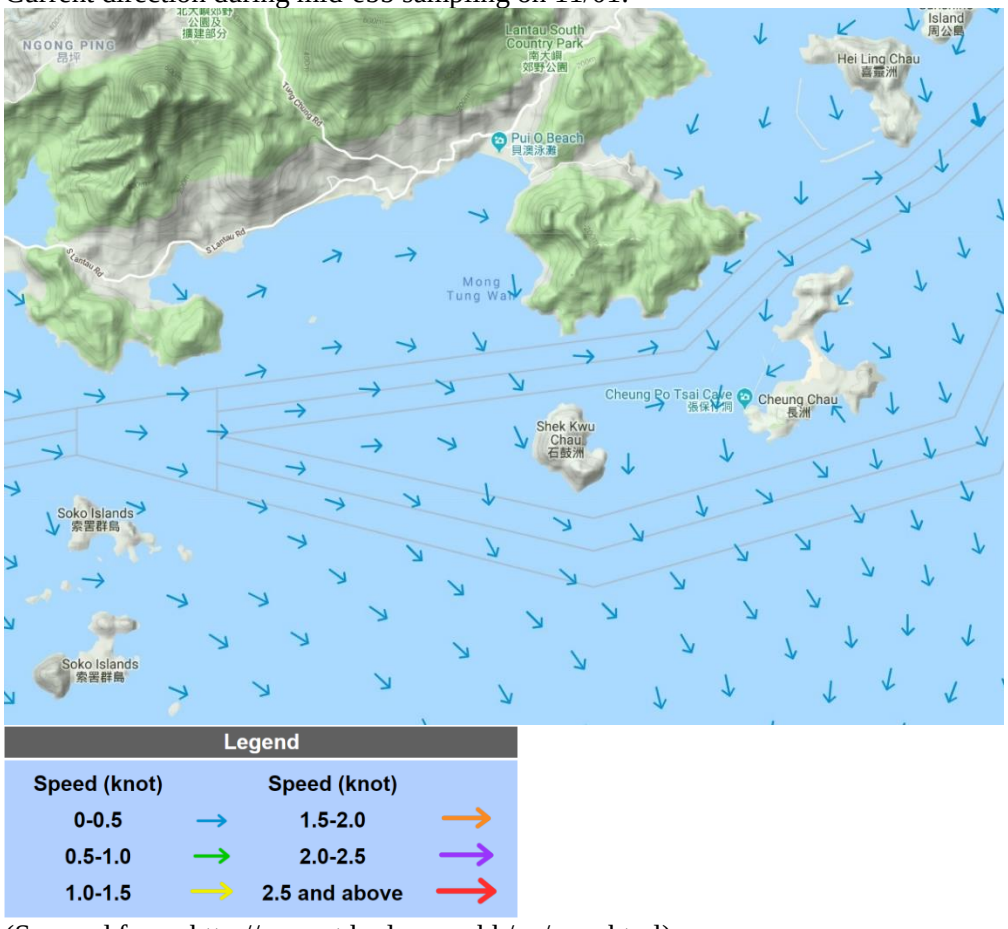
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	09 January 2019 (Lab result received on 16 January 2019)		
Time	09:56 – 13:26 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	CR2 & S2 		
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
	9.7 mg/L (CR2) 8.7 mg/L (S2)	4.7 mg/L (C1) 4.2 mg/L (C2)	4.5 mg/L (B1) 5.3 mg/L (B2) 7.3 mg/L (B3) 6.5 mg/L (B4) 5.3 mg/L (F1) 4.5 mg/L (H1) 7.5 mg/L (M1) 7.3 mg/L (CR1) 4.0 mg/L (S1) 7.8 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 09/01 include Marine Ground Investigation (GI) Borehole drilling, sand blanket and geotextile laying at Caisson Seawall area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring station is deemed to be unrelated to the Project. From MMO monitoring records on 09/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and one dumb lighter (FTB-19) on that day while no		

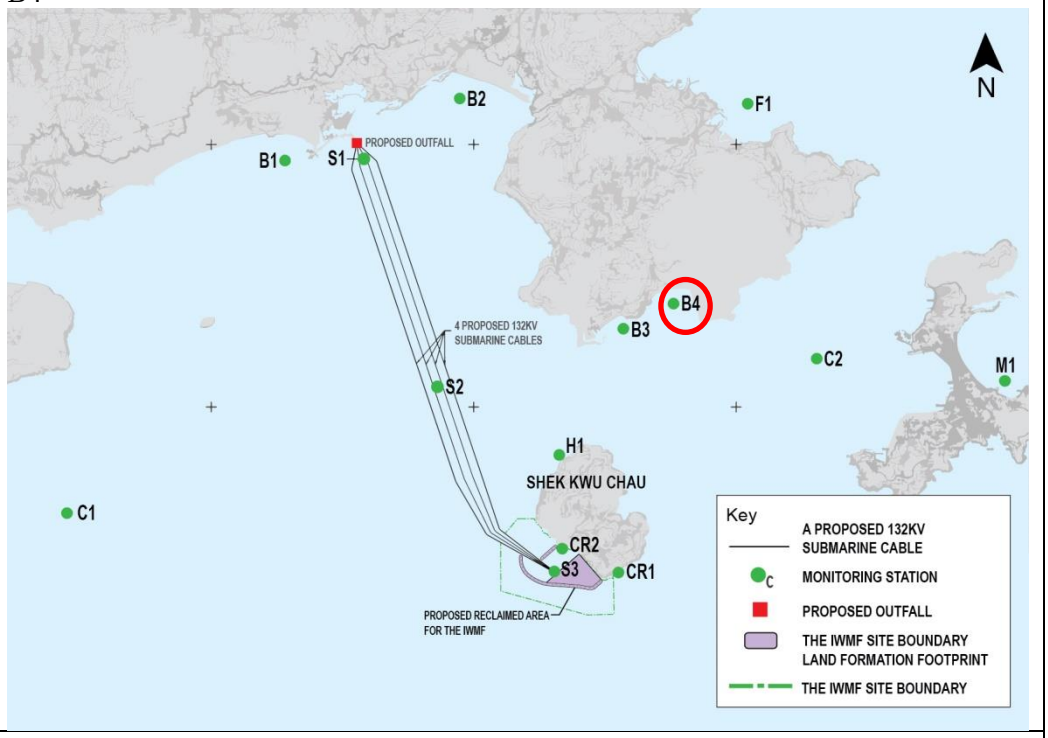
	deficiency of silt curtain was found before the start of construction activity. CR2 is located close to the works location within the Project site while silt curtain checking on FTB-19 (07:30) & Shun Tat D12 (09:30) were implemented by the Contractor and the checking result showed no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-61 & ESC-62 were duty off on that day. It might suggest that the high SS exceedance at CR2 is deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 08/01, there was an observation might contribute the SS level increase where accumulation of sand was observed between the metal hoarding and the boundary on FTB 19, which may overflow into the sea.
Actions taken / to be taken	The accumulation of sand between metal hoarding and boundary was cleaned by the Contractor on 09/01. 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 and the sand accumulation on the pontoon surface. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 09/01:  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	17 January 2019

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

Project	Integrated Waste Management Facilities, Phase 1		
Date	11 January 2019 (Lab result received on 18 January 2019)		
Time	14:15 – 17:45 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	M1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 9.2 mg/L (120% of C1)	≥ 10.0 mg/L	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	10.0 mg/L (M1)	7.7 mg/L (C1) 8.5 mg/L (C2)	3.3 mg/L (B1) 4.8 mg/L (B2) 7.5 mg/L (B3) 7.0 mg/L (B4) 7.5 mg/L (F1) 8.3 mg/L (H1) 8.5 mg/L (CR1) 6.5 mg/L (CR2) 5.5 mg/L (S1) 5.8 mg/L (S2) 7.0 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 11/01 include Marine Ground Investigation (GI) of borehole drilling, sand blanket and geotextile laying at Caisson Seawall area and DCM main works. Dominating sea current direction was found to be from Northwest to Southeast 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 station is deemed to be unrelated to the Project.		

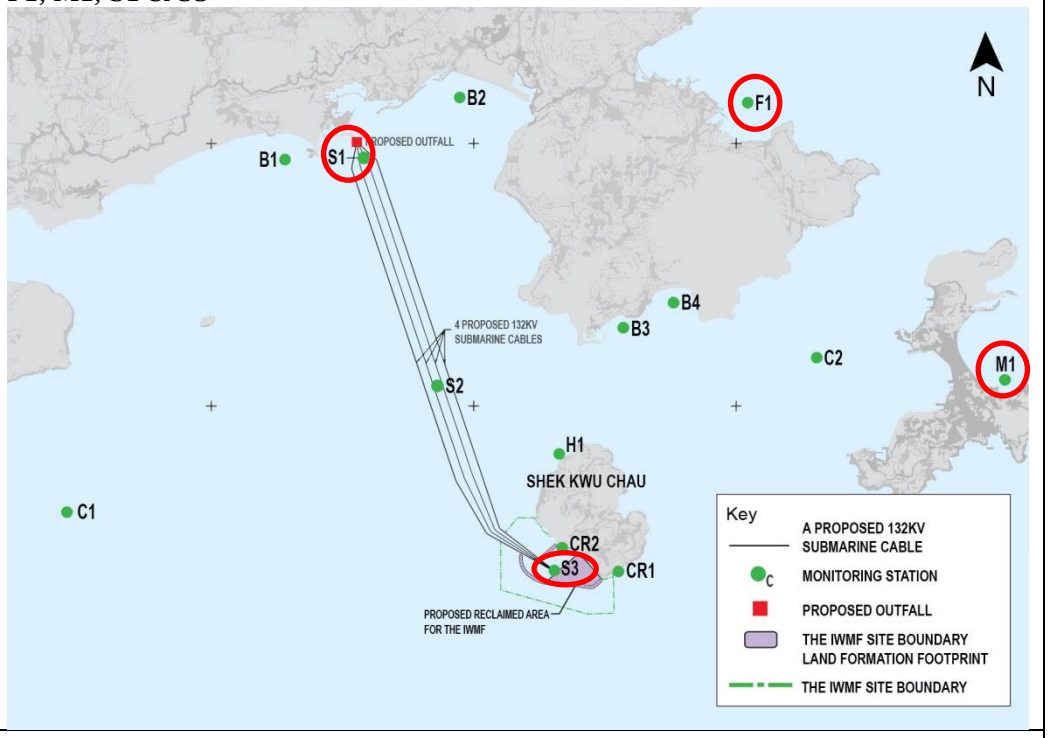
	From MMO monitoring records on 11/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (FTB-19 & Shun Tat D12) on that day while questionable silt plume was observed near FTB-19 around 10:30. Silt curtain checking on ESC-61 (07:35), ESC-62, FTB-19 (07:00) & Shun Tat D12 (14:30) were implemented by the Contractor and the checking result showed no deficiency of silt curtain was found on that day. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 15/01, 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	The Contractor stopped the construction activities on FTB-19 immediately after the observation of yellow muddy water was found outside silt curtain and carried out the maintenance of the frame type silt curtain afterwards. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remined to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 11/01:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	21 January 2019

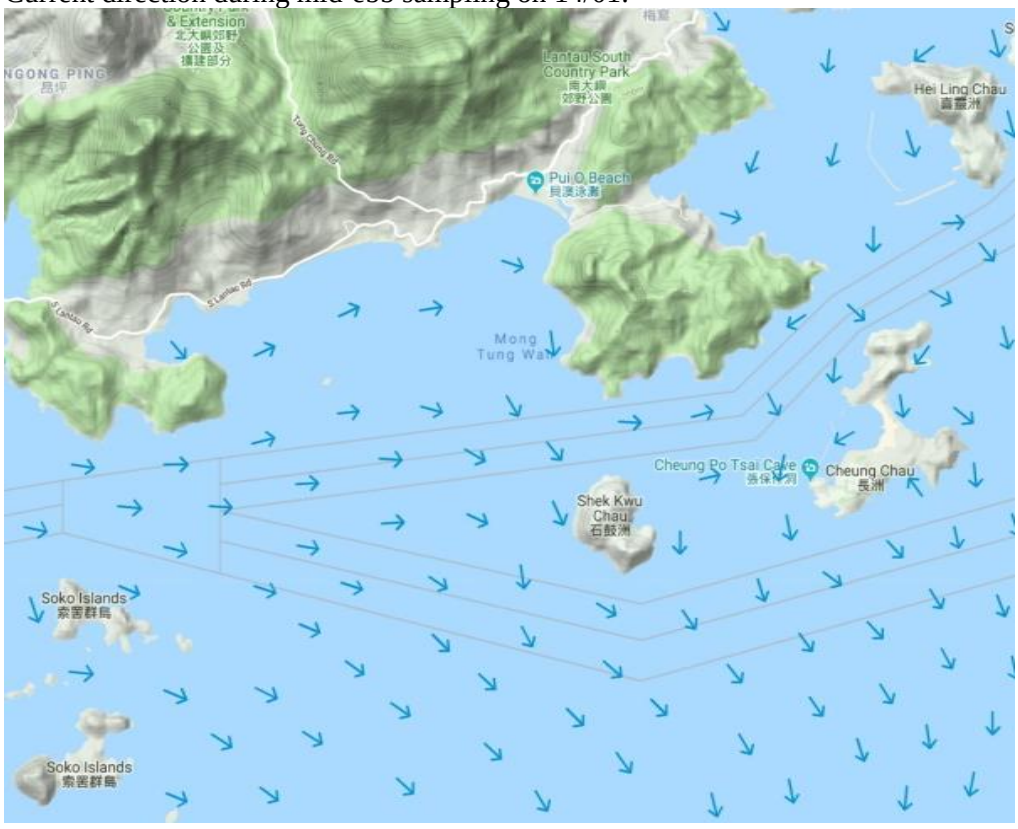
Incident Report on Action Level or Limit Level Non-compliance

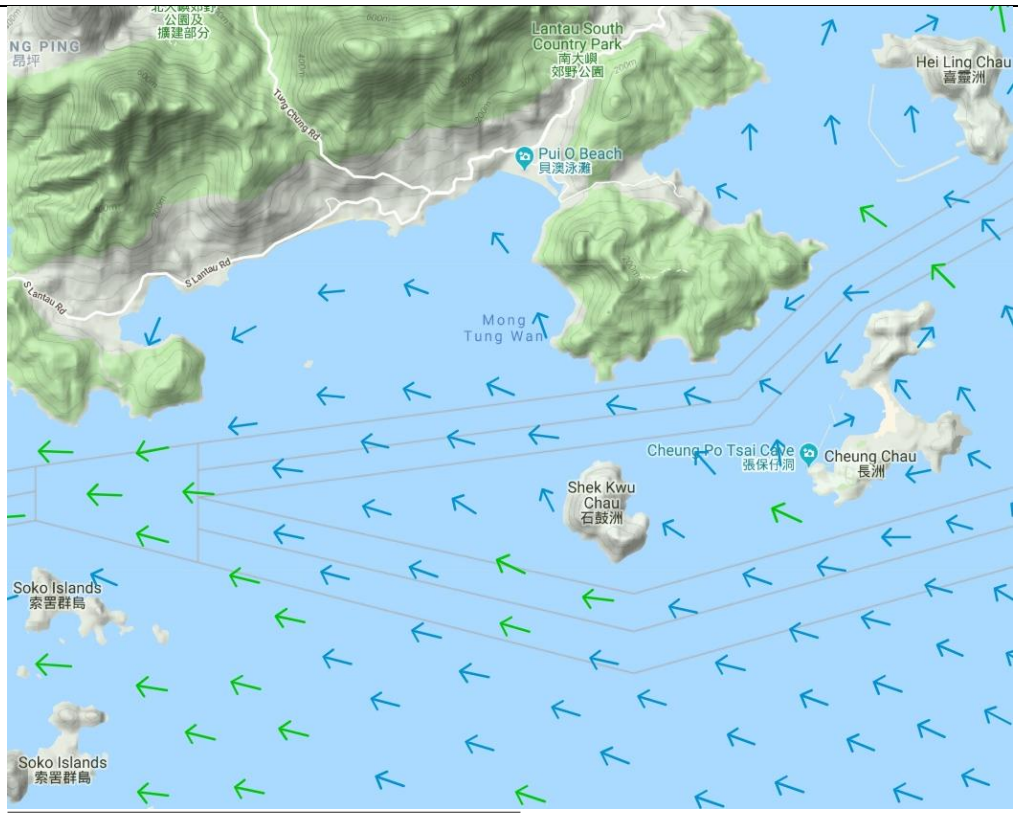
Project	Integrated Waste Management Facilities, Phase 1		
Date	14 January 2019 (Lab result received on 21 January 2019)		
Time	10:41 – 14:11 (Mid-Flood) 17:17 – 20:00 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	B4 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 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 (B4)	8.8 mg/L (C1) 6.2 mg/L (C2)	2.8 mg/L (B1) 6.0 mg/L (B2) 6.0 mg/L (B3) 6.8 mg/L (F1) 6.5 mg/L (H1) 6.8 mg/L (M1) 5.2 mg/L (CR1) 7.3 mg/L (CR2) 4.3 mg/L (S1) 4.5 mg/L (S2) 5.5 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 14/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at caisson seawall area and DCM main works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. B4 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project.		

<table>
<tr><td></td><td>From MMO monitoring records on 14/01, MMO teams were arranged to one DCM barges (ESC-61) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.

Silt curtain checking was implemented on ESC-61 (07:00), FTB-19 (07:00) and Shun Tat D12 (09:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. No sand blanket laying scheduled in Shun Tat D12 was carried out on that day.

Site tidiness in the present barges in the Project site were checked during weekly site inspection on 15/01, where was no major observation of 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 remained to implement all applicable mitigation measures as per the Updated EM&A Manual.</td></tr>
<tr><td colspan="2">Mid-Ebb</td></tr>
<tr><td>Monitoring Location</td><td>F1, M1, S1 & S3
 
</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>≥ 9.2 mg/L (120% of C1)</td><td>≥ 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 (F1)
10.5 mg/L (M1)
10.8 mg/L (S1)
10.8 mg/L (S3)</td><td>7.7 mg/L (C1)
7.3 mg/L (C2)</td><td>5.8 mg/L (B1)
5.8 mg/L (B2)
8.0 mg/L (B3)
6.0 mg/L (B4)
8.2 mg/L (H1)
7.8 mg/L (CR1)
8.3 mg/L (CR2)
7.3 mg/L (S2)</td></tr>
<tr><td>Possible reason for Action or Limit Level Non-compliance</td><td colspan="2">Works scheduled on site on 14/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at caisson</td></tr>
</table>

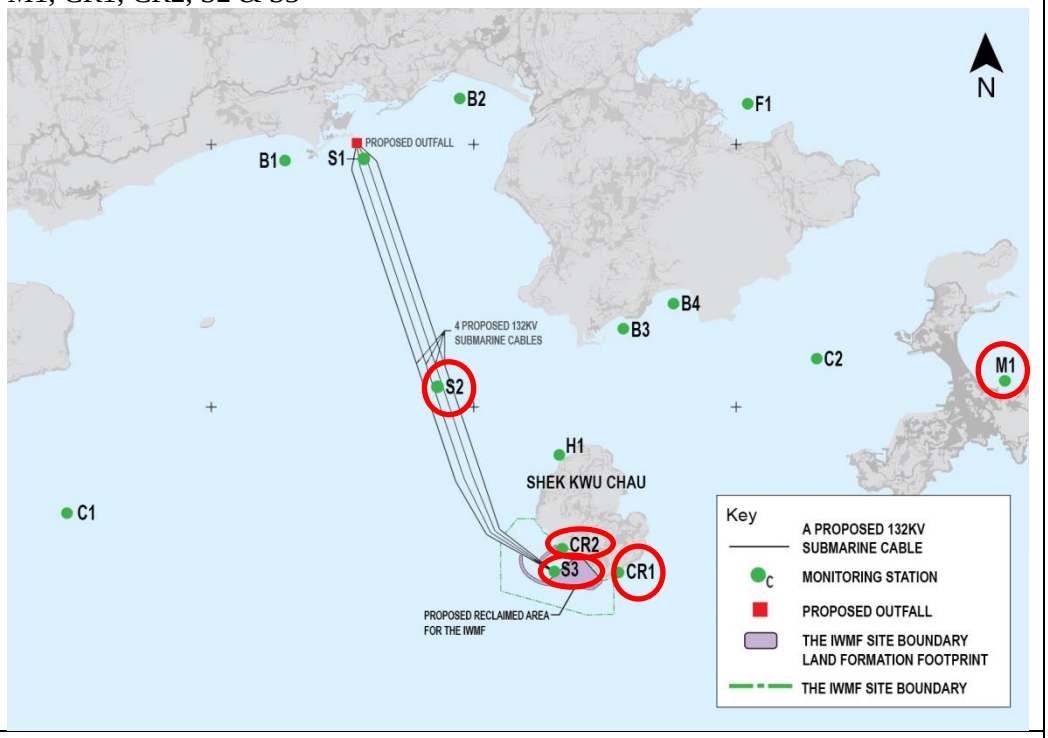
	seawall area and DCM main works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. F1, M1 & S1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 14/01, MMO teams were arranged to one DCM barges (ESC-61) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity. S3 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (07:00), FTB-19 (07:00) and Shun Tat D12 (09:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. No sand blanket laying scheduled in Shun Tat D12 was carried out on that day. It might suggest that the high SS 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 15/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 14/01:  Current direction during mid-flood sampling on 14/01:

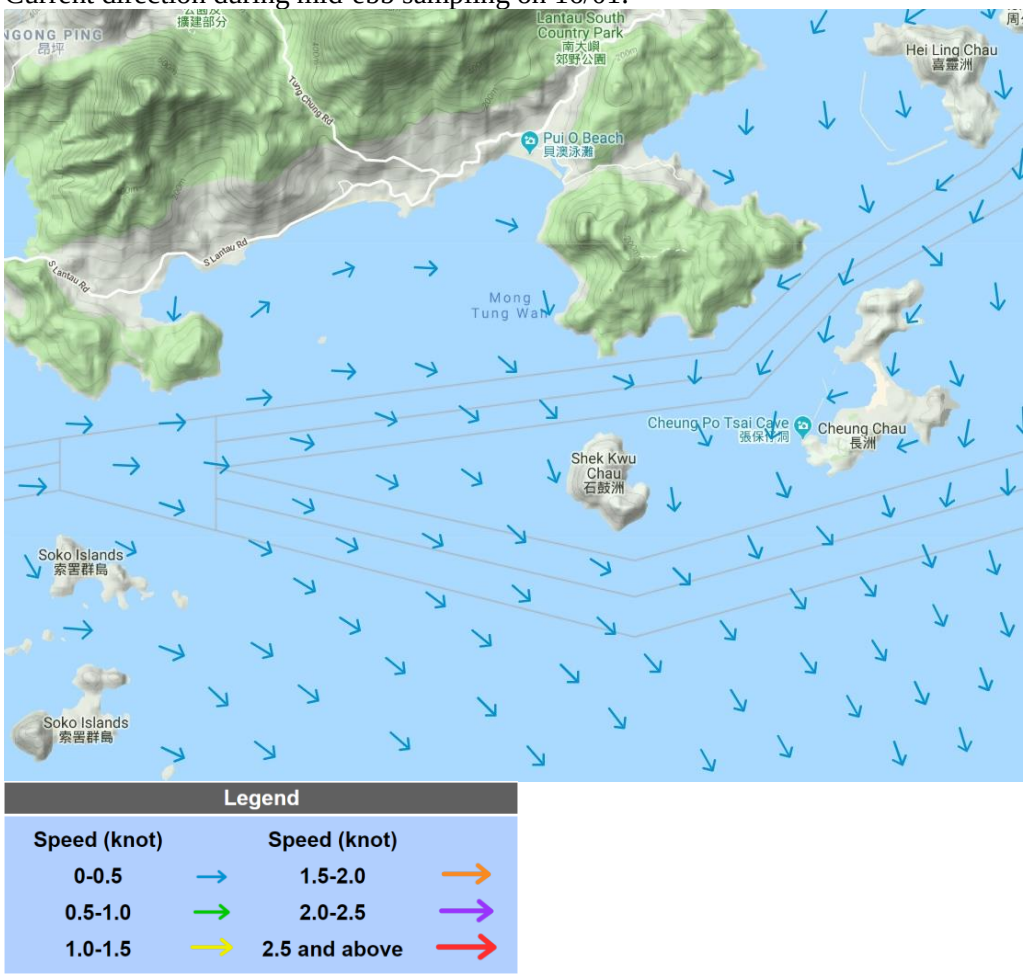


(Sourced from http://current.hydro.gov.hk/en/map.html)

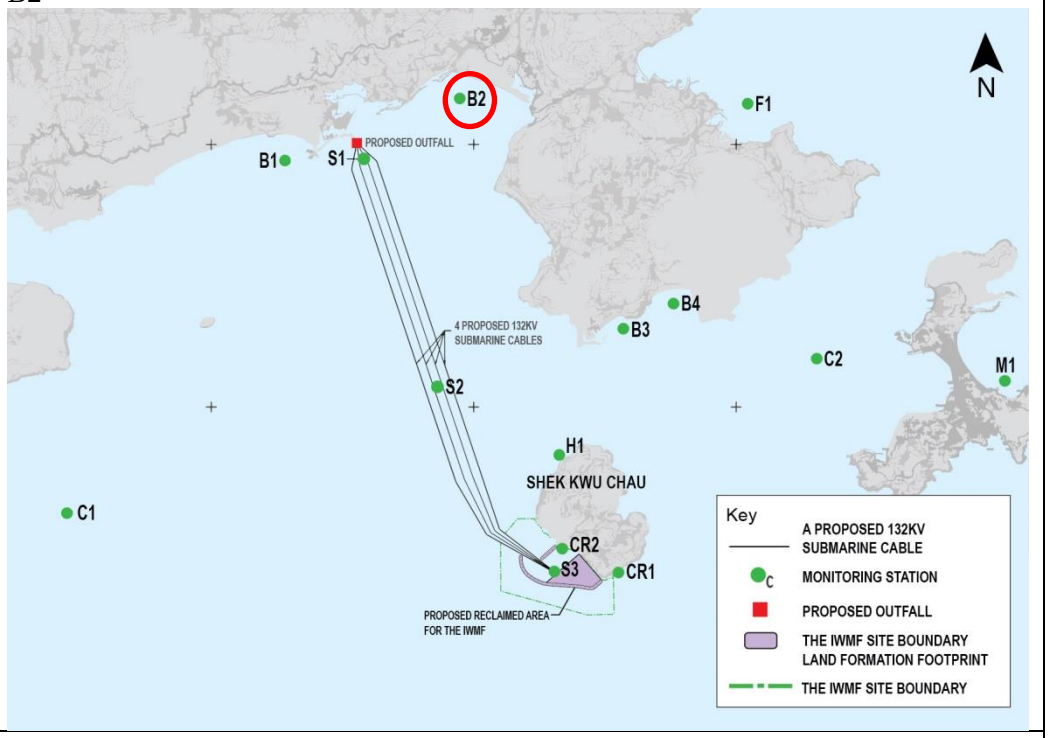
Prepared by	Polar Chan
Date	22 January 2019

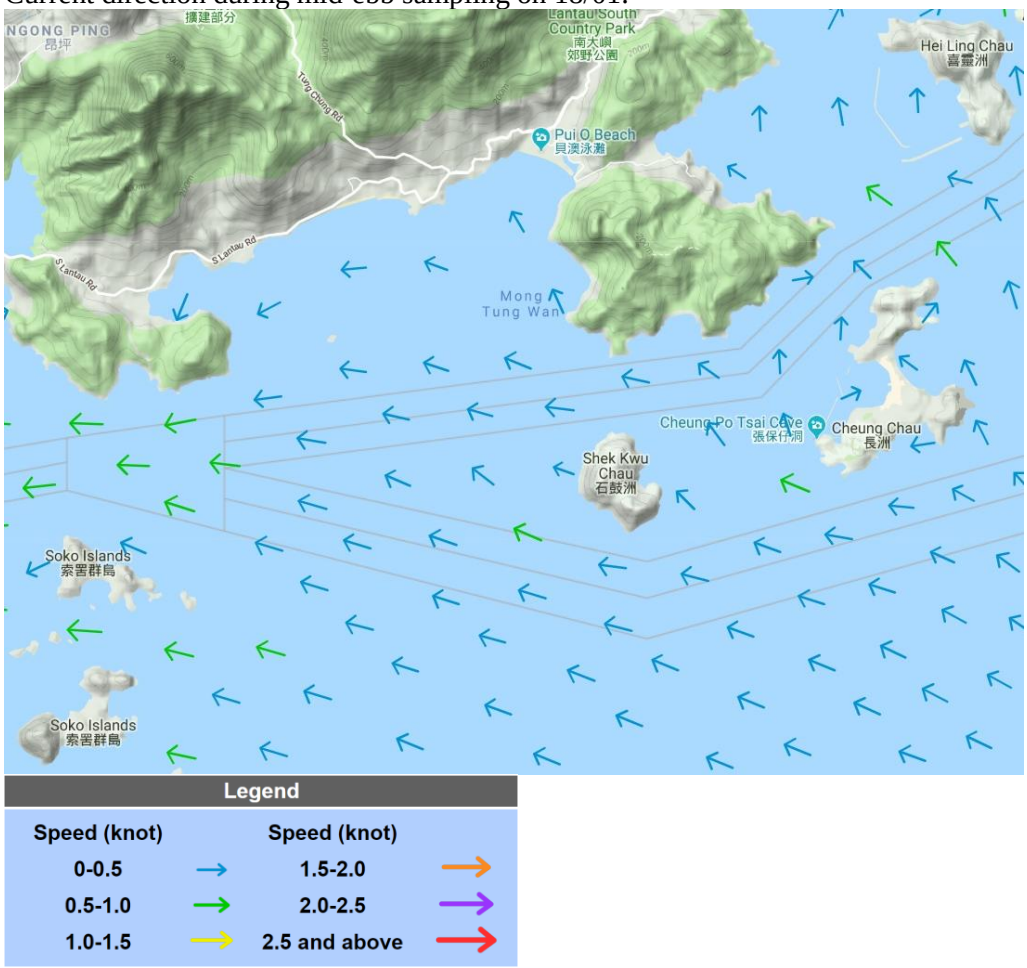
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	16 January 2019 (Lab result received on 23 January 2019)		
Time	08:00 – 09:07 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	M1, CR1, CR2, S2 & S3 		
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
	11.3 mg/L (M1) 8.8 mg/L (CR1) 8.3 mg/L (CR2) 8.2 mg/L (S2) 8.8 mg/L (S3)	6.0 mg/L (C1) 5.5 mg/L (C2)	6.8 mg/L (B1) 5.5 mg/L (B2) 7.0 mg/L (B3) 7.8 mg/L (B4) 6.2 mg/L (F1) 6.7 mg/L (H1) 6.8 mg/L (S1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 16/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at caisson seawall area and DCM main works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. M1 & S2 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 16/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.		

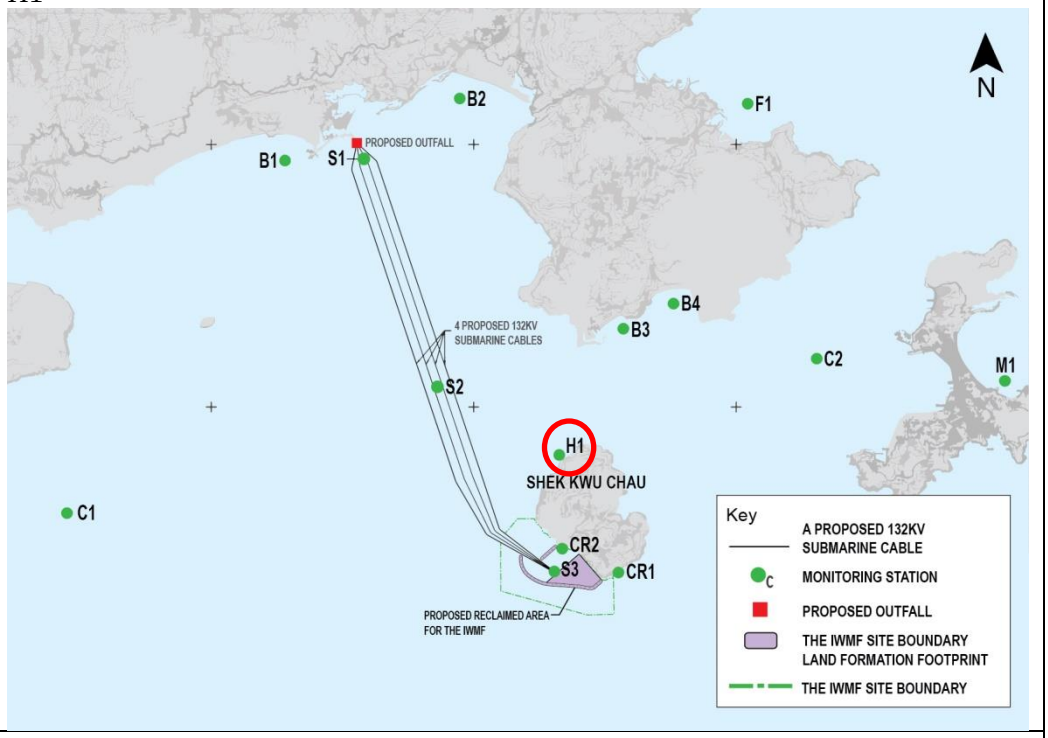
	CR1 is located at downstream monitoring station, CR2 & S3 are located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (07:30), Shun Tat D12 (09:00) & ESC-61 (12:55) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. It might suggest that the high SS exceedances 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 15/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 16/01:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	24 January 2019

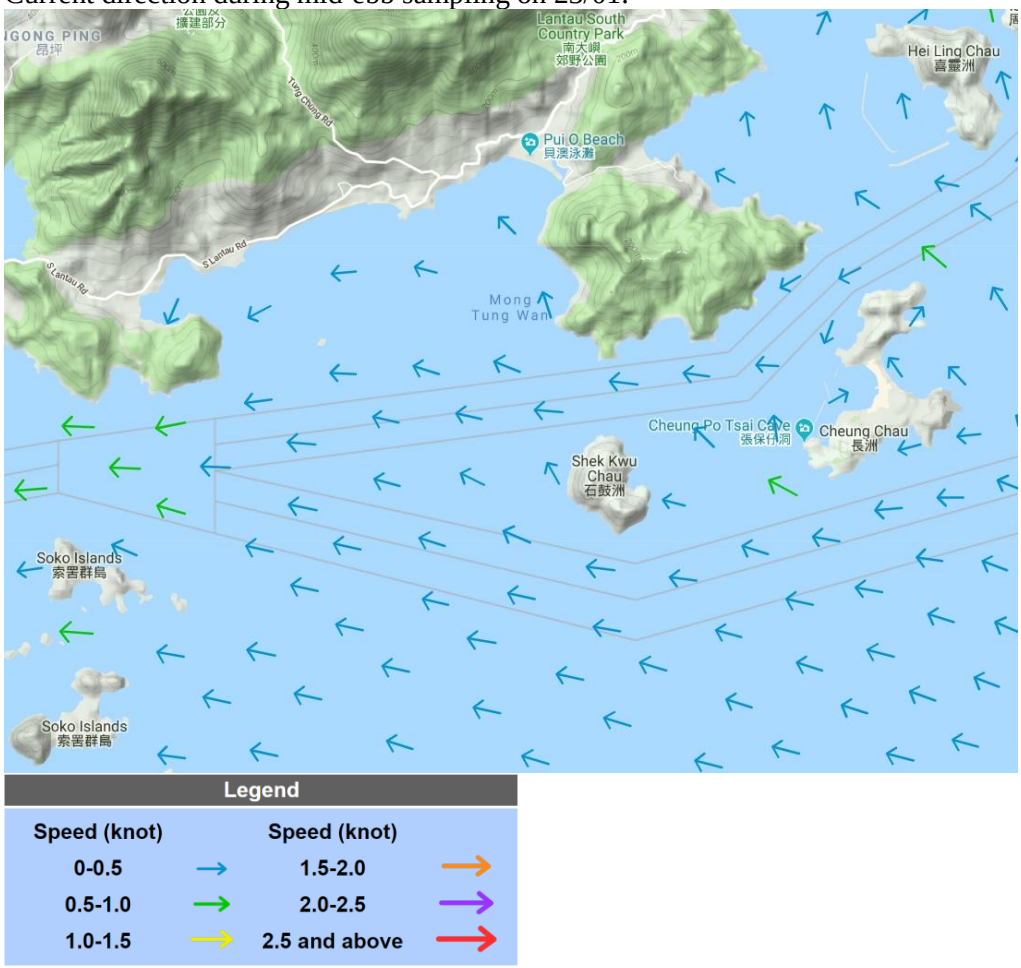
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	18 January 2019 (Lab result received on 28 January 2019)		
Time	13:31 – 17:01 (Mid-Flood)		
Mid-Flood			
Monitoring Location	B2 		
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
	8.5 mg/L (B2)	7.7 mg/L (C1) 5.8 mg/L (C2)	6.8 mg/L (B1) 7.0 mg/L (B3) 6.8 mg/L (B4) 7.2 mg/L (F1) 6.8 mg/L (H1) 6.0 mg/L (M1) 6.5 mg/L (CR1) 6.2 mg/L (CR2) 5.8 mg/L (S1) 7.5 mg/L (S2) 6.5 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 18/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main 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, exceednace of this monitoring station is deemed to be unrelated to the Project.		

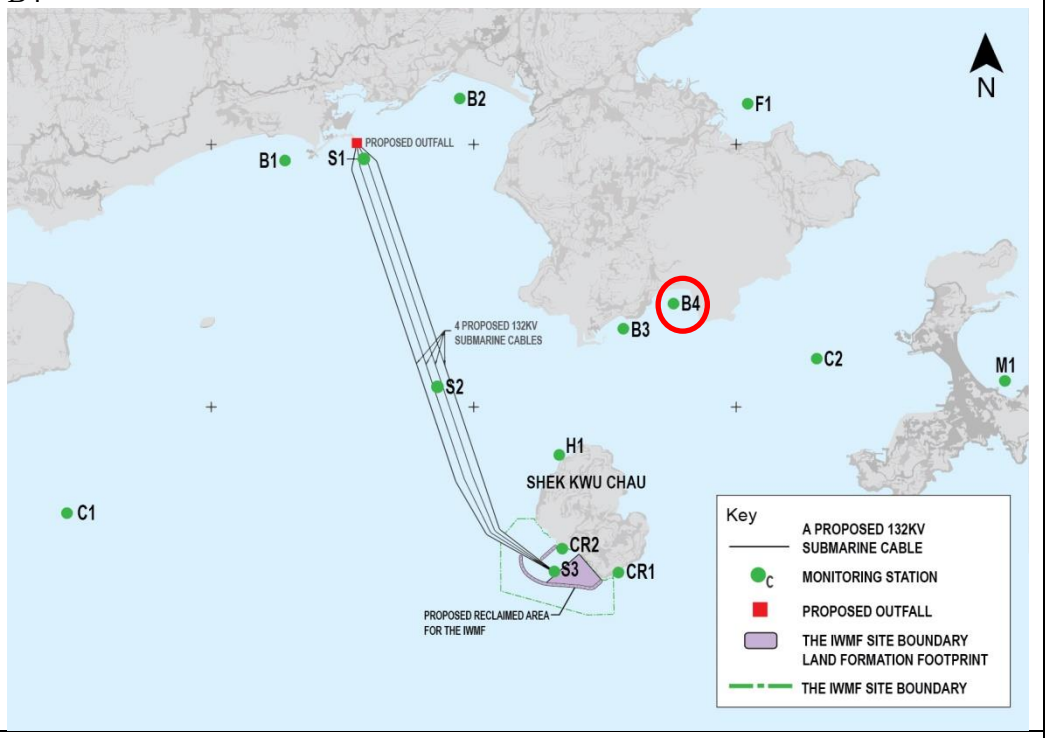
	From MMO monitoring records on 18/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking was implemented on FTB-19 (07:30), Shun Tat D12 (09:30) & ESC-61 (07:10) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. No sand blanket laying at reclamation area scheduled in Shun Tat D12 was carried out on that day due to high swell and adverse wave condition. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 15/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 18/01:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	29 January 2019

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	23 January 2019 (Lab result received on 30 January 2019)		
Time	16:37 – 19:00 (Mid-Flood)		
Mid-Flood			
Monitoring Location	H1 		
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
	11.0 mg/L (H1)	6.2 mg/L (C1) 6.5 mg/L (C2)	3.5 mg/L (B1) 4.3 mg/L (B2) 5.3 mg/L (B3) 5.3 mg/L (B4) 6.5 mg/L (F1) 6.3 mg/L (M1) 6.0 mg/L (CR1) 4.3 mg/L (CR2) 6.0 mg/L (S1) 5.8 mg/L (S2) 7.3 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 23/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. From MMO monitoring records on 23/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (Shun Tat D32, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.		

	H1 is located at downstream location to the works location while silt curtain checking was implemented on FTB-19 (07:00), Shun Tat D12 (10:30), Shun Tat D32 (11:30), ESC-61 (07:08) & ESC-62 (07:10) 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 exceedance at H1 is deemed to unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 24/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 23/01:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	31 January 2019

Incident Report on Action Level or Limit Level Non-compliance

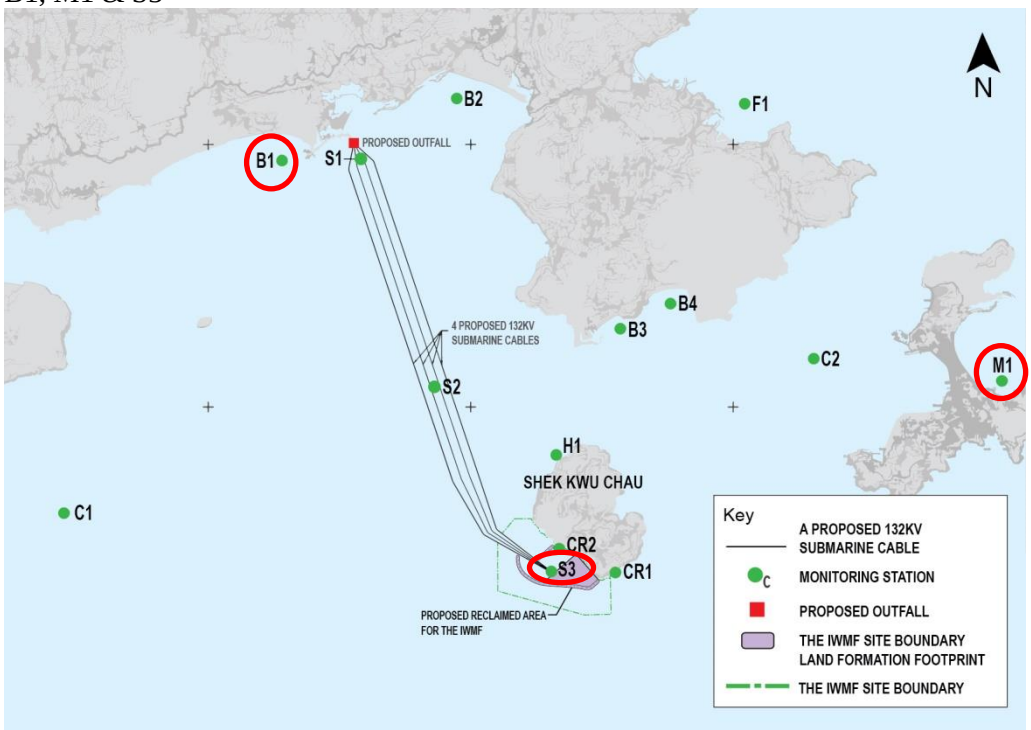
Project	Integrated Waste Management Facilities, Phase 1		
Date	25 January 2019 (Lab result received on 1 February 2019)		
Time	08:44 – 12:14 (Mid-Flood) 14:05 – 17:35 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	B4 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 10.8 mg/L (120% of C2)	≥ 11.7 mg/L (130% of C3)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	12.0 mg/L (B4)	8.8 mg/L (C1) 9.0 mg/L (C2)	10.0 mg/L (B1) 9.3 mg/L (B2) 10.0 mg/L (B3) 9.7 mg/L (F1) 9.8 mg/L (H1) 8.3 mg/L (M1) 7.8 mg/L (CR1) 8.5 mg/L (CR2) 10.3 mg/L (S1) 7.3 mg/L (S2) 8.3 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 25/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B4 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project.		

<table>
<tr><td></td><td>From MMO monitoring records on 25/01, MMO teams were arranged to one DCM barges (ESC-61) and three derrick barges (Shun Tat D12, Shun Tat D32 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.

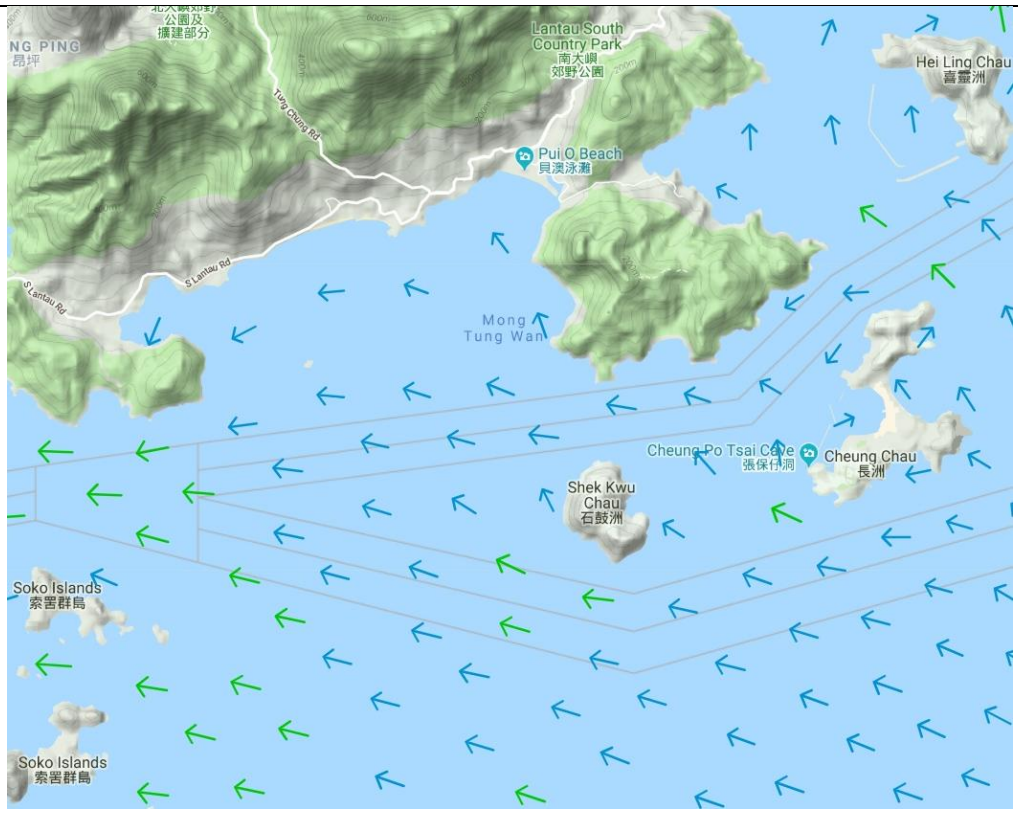
Silt curtain checking was implemented on ESC-61 (07:05), ESC-62 (07:25), Shun Tat D32 (12:00), Shun Tat D12 (09:30) and FTB-19 (07:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day.

Site tidiness in the present barges in the Project site were checked during weekly site inspection on 24/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.

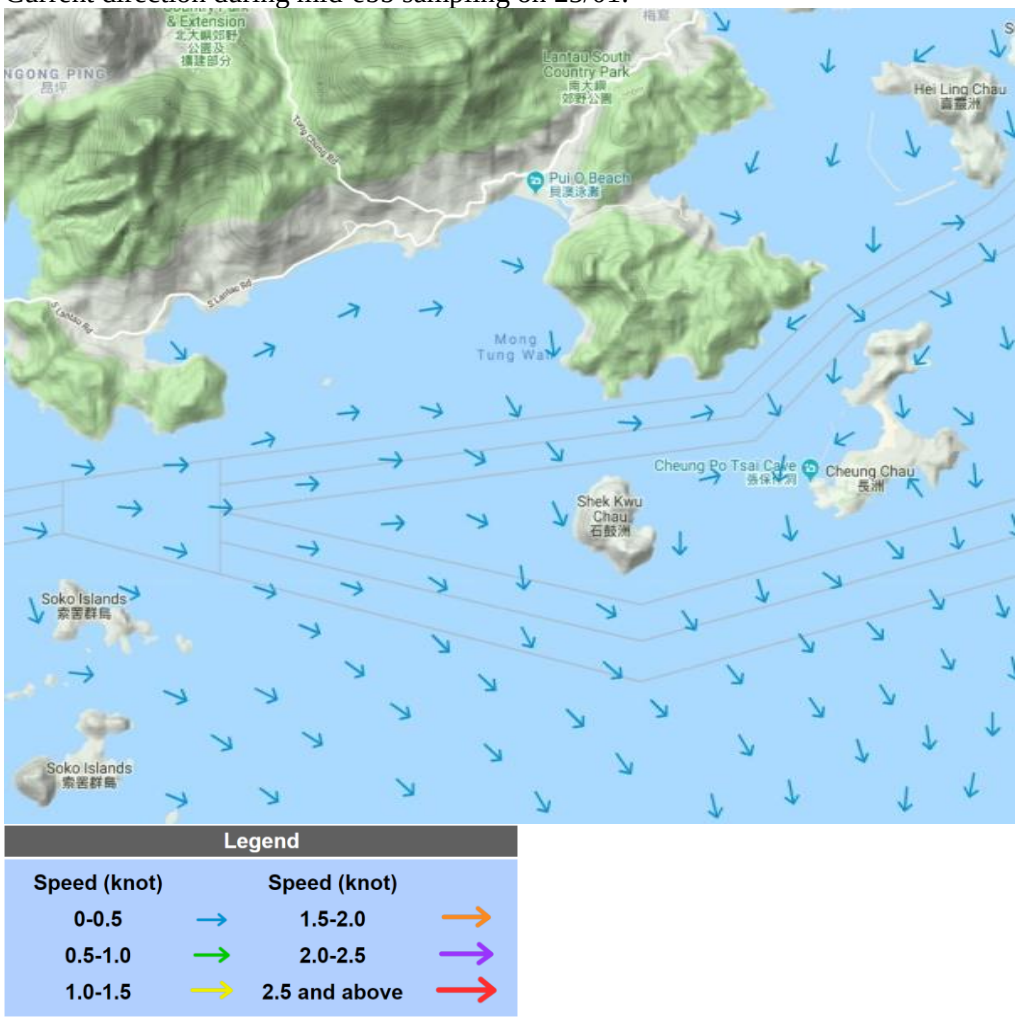
However, an observable track of sandy water was observed near CR2 around 10:00 by the frontline staff of water sampling. Moreover, it seemed to be unrelated to exceedance at B4 during the mid-flood sampling event.</td></tr>
<tr><td>Actions taken / to be taken</td><td>After confirming with the Contractor, there was no abnormal site activity on that day which suggested that the observable track of sandy water was not related to the Project.

Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.</td></tr>
<tr><td colspan="2">Mid-Ebb</td></tr>
<tr><td>Monitoring Location</td><td>B1, M1 & S3
 
</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>≥ 8.6 mg/L (120% of C1)</td><td>≥ 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>10.0 mg/L (B1)
11.2 mg/L (M1)
9.7 mg/L (S3)</td><td>7.2 mg/L (C1)
9.2 mg/L (C2)</td><td>5.3 mg/L (B2)
5.3 mg/L (B3)
5.0 mg/L (B4)</td></tr>
</table>

			6.2 mg/L (F1) 7.3 mg/L (H1) 7.8 mg/L (CR1) 7.5 mg/L (CR2) 7.0 mg/L (S1) 7.2 mg/L (S2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 25/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. B1 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 25/01, MMO teams were arranged to one DCM barges (ESC-61) and three derrick barges (Shun Tat D12, Shun Tat D32 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity. S3 is located close to the work location within the Project site while silt curtain checking was implemented on ESC-61 (07:05), ESC-62 (07:25), Shun Tat D32 (12:00), Shun Tat D12 (09:30) and FTB-19 (07:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. It might suggest that high SS 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 24/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Current direction during mid-flood sampling on 25/01:		



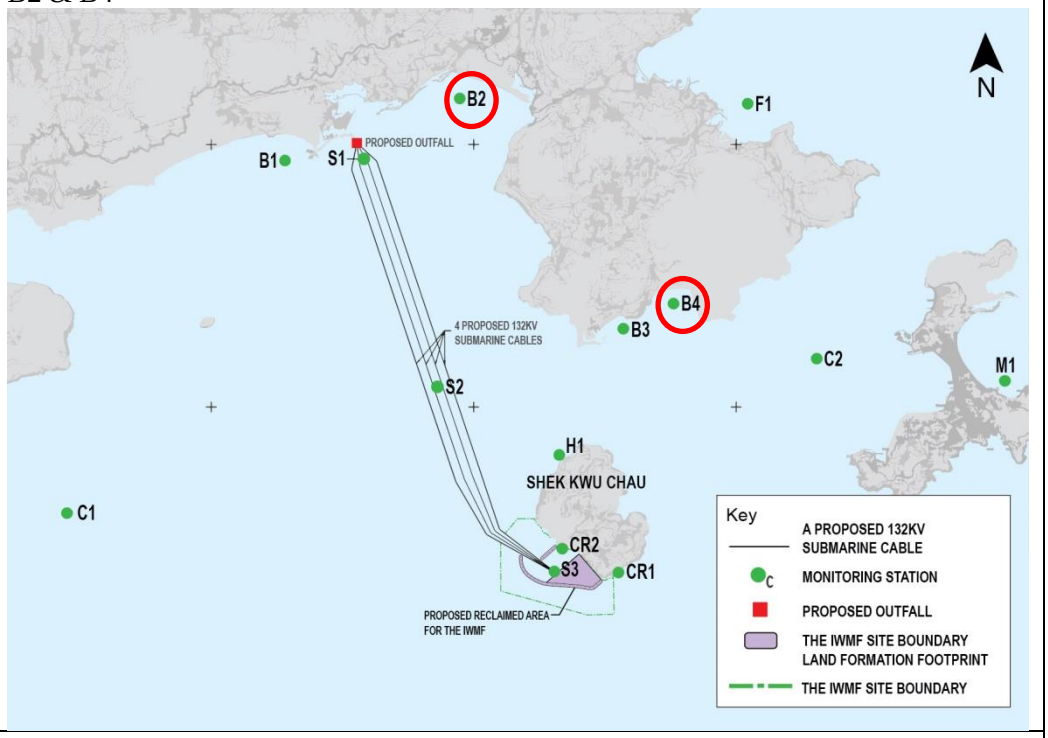
Current direction during mid-ebb sampling on 25/01:

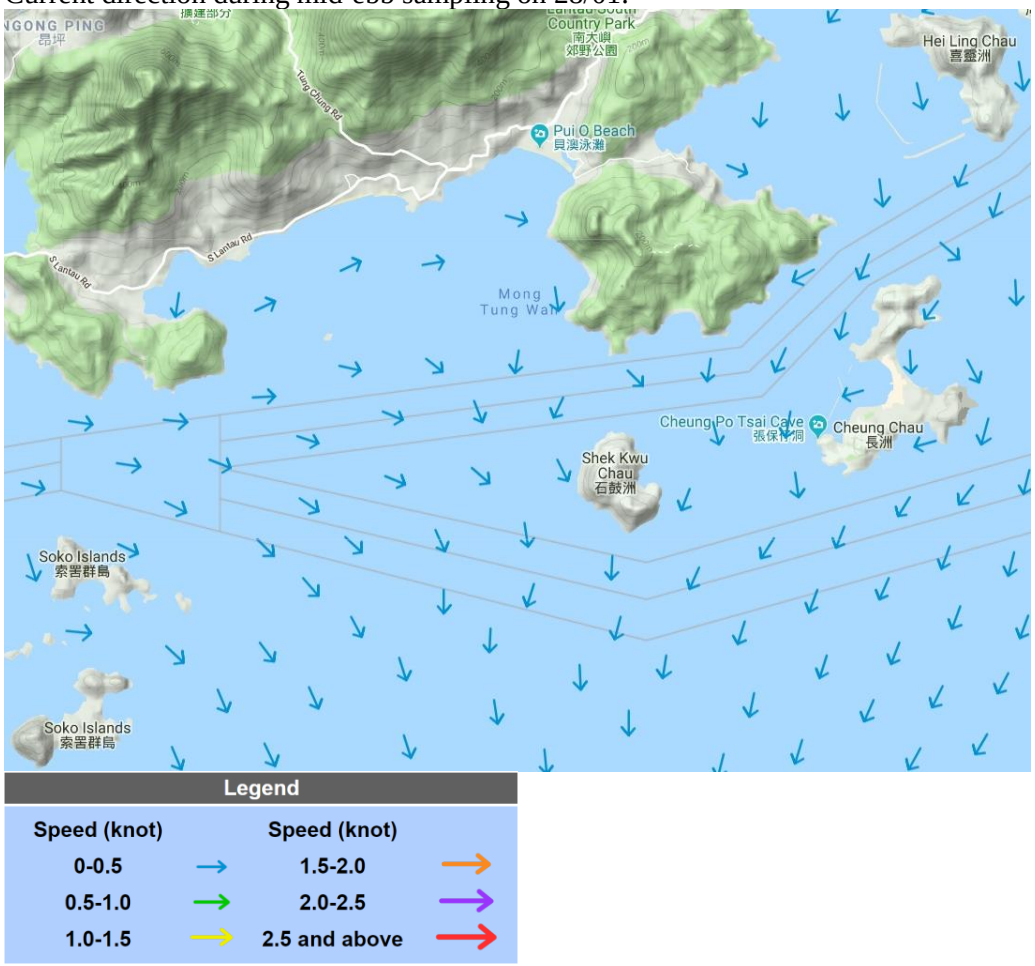


(Sourced from http://current.hydro.gov.hk/en/map.html)

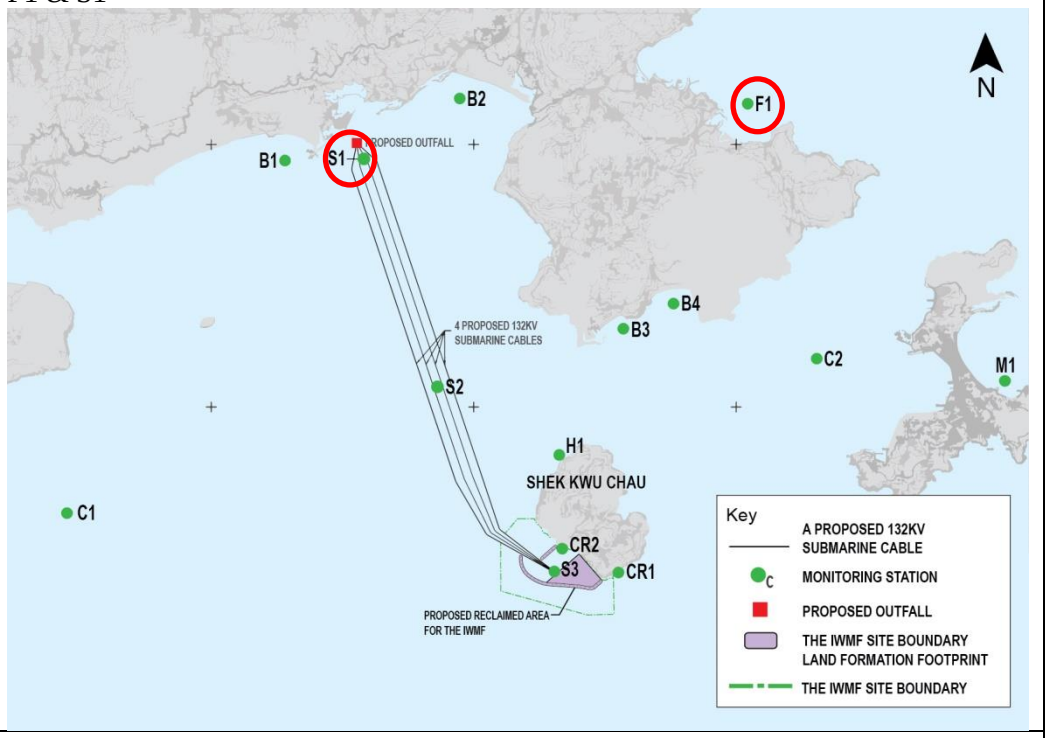
Prepared by	Polar Chan
Date	2 February 2019

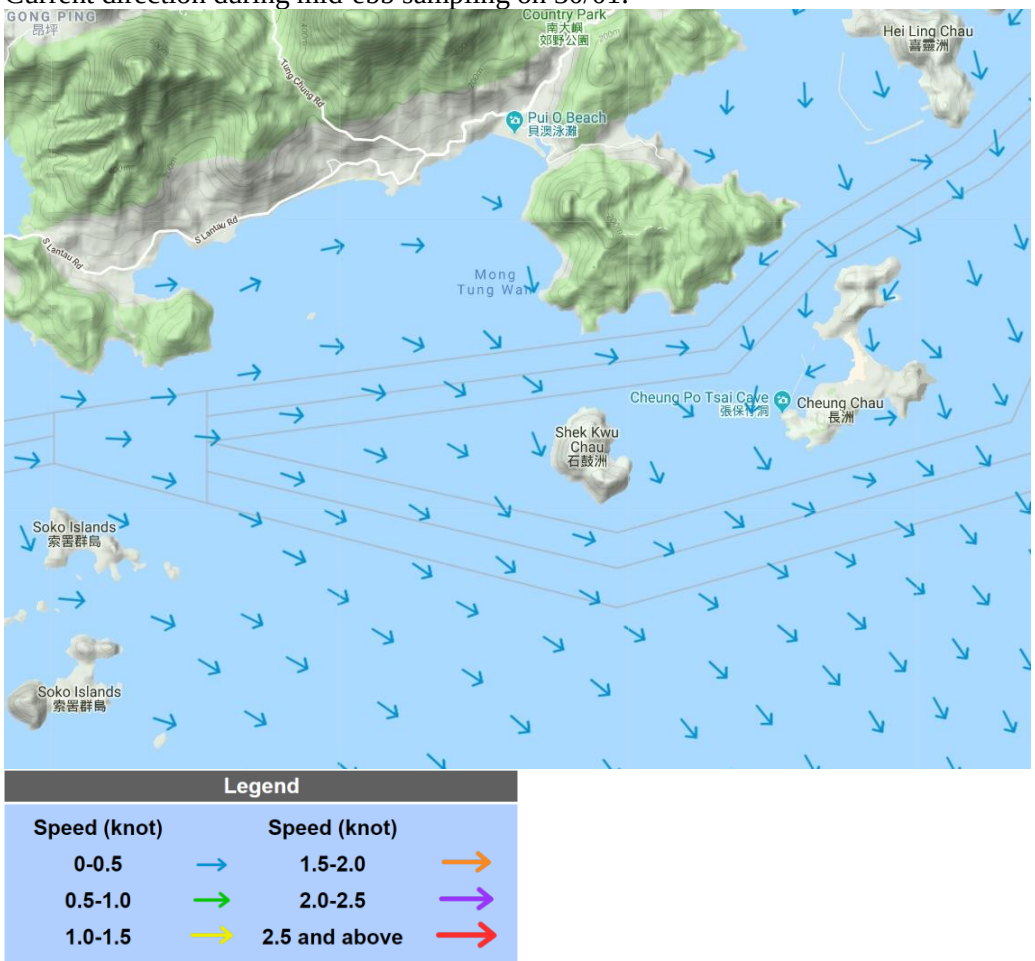
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	28 January 2019 (Lab result received on 08 February 2019)		
Time	16:04 – 19:00 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	B2 & B4 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 11.4 mg/L (120% of C1)	≥ 12.4 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	11.5 mg/L (B2) 11.8 mg/L (B4)	9.5 mg/L (C1) 8.5 mg/L (C2)	9.8 mg/L (B1) 9.5 mg/L (B3) 7.8 mg/L (F1) 10.0 mg/L (H1) 10.7 mg/L (M1) 7.7 mg/L (CR1) 6.0 mg/L (CR2) 7.3 mg/L (S1) 7.0 mg/L (S2) 7.2 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 28/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. B2 & B4 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project.		

	From MMO monitoring records on 28/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (Chjeung Kee No.7, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking was implemented on Cheung Kee 7 (09:20), FTB-19 (19:45), ESC-61 (07:10) & ESC-62 (09:40) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work at caisson seawall area was performed at Shun Tat D12 referring to the site diary on that day from the Contractor. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 28/01:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	09 February 2019

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1		
Date	30 January 2019 (Lab result received on 12 February 2019)		
Time	08:00 – 10:07 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	F1 & S1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	≥ 10.2 mg/L (120% of C1)	≥ 11.1 mg/L (130% of C1)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	12.3 mg/L (F1) 11.0 mg/L (S1)	8.5 mg/L (C1) 11.0 mg/L (C2)	8.5 mg/L (B1) 6.8 mg/L (B2) 7.0 mg/L (B3) 7.0 mg/L (B4) 7.8 mg/L (H1) 9.7 mg/L (M1) 7.7 mg/L (CR1) 7.3 mg/L (CR2) 9.5 mg/L (S2) 8.2 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 30/01 include ground investigation (GI) work of borehole drilling, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. F1 & S1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 30/01, MMO teams were arranged to two DCM		

	barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking was implemented on Shun Tat D12 (09:31), FTB-19 (10:00), ESC-61 (07:10) & ESC-62 (07:10) by the Contractor and checking results 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 29/01, 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 environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 30/01:  (Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	13 February 2019