

## Appendix N Exceedance Report

## Statistical Summary of Exceedances in the Reporting Period

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

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

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

Project	Integrated Waste Management Facilities, Phase 1		
Date	13 May 2022 (Lab result received on 20 May 2022)		
Time	07:35 – 13:23 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	<p>B2</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.0 mg/L		≥ 14.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	22.3 mg/L (B2)	5.0 mg/L (C1A) 7.5 mg/L (C2A)	7.5 mg/L (B1) 11.3 mg/L (B3) 4.3 mg/L (B4) 5.8 mg/L (F1A) 5.7 mg/L (H1) 6.0 mg/L (M1) 5.7 mg/L (CR1) 6.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 13 May 2022 include infilling of caisson at Breakwater A, levelling of G200 rockfill at Breakwater B CH 160 – CH 210, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, piling works for bored pile, pile cap construction and blockwork seawall and existing caisson extension.</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>An exceedance of limit level was found at B2.</p> <p>B2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedance is deemed to be unrelated to the Project.</p>		

	<p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was cloudy during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 10 and 17 May 2022.</p> <p>After the investigation, the exceedance on 13 May 2022 at B2 is deemed to be unrelated to the Project.</p>
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Monitoring photos of  
stations with exceedance

B2:



Remarks

Current direction during mid-ebb sampling on 13 May 2022:



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

Prepared by Jack Chow

Date 25 May 2022



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

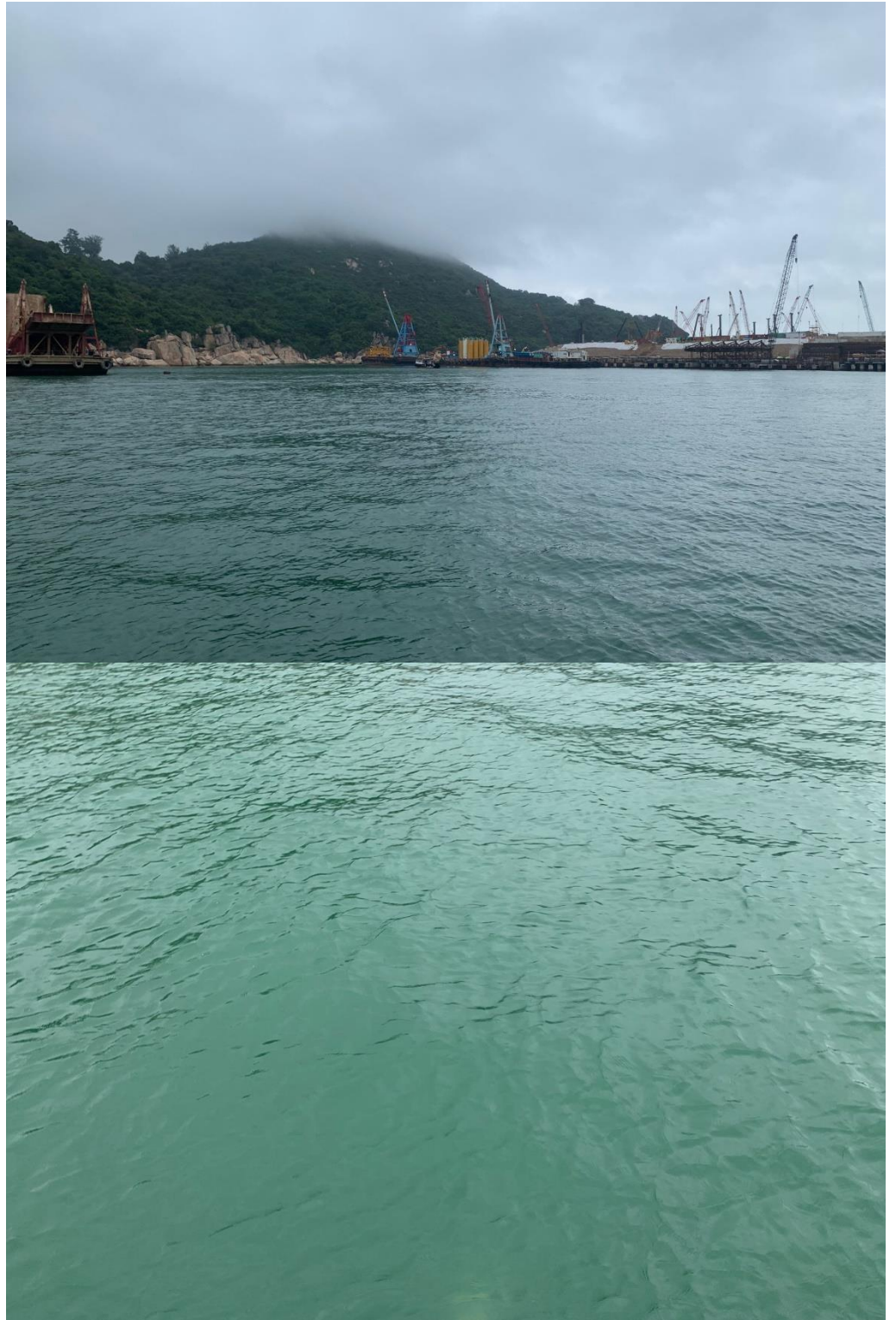
Project	Integrated Waste Management Facilities, Phase 1		
Date	27 May 2022 (Lab result received on 02 June 2022)		
Time	08:00 – 13:42 (Mid-Ebb)		
Mid-Ebb			
Monitoring Location	<p>CR2</p>		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 12.0 mg/L		≥ 14.0 mg/L
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	15.8 mg/L (CR2)	4.2 mg/L (C1A) 3.7 mg/L (C2A)	4.0 mg/L (B1) 4.3 mg/L (B2) 4.7 mg/L (B3) 5.0 mg/L (B4) 4.5 mg/L (F1A) 4.5 mg/L (H1) 8.7 mg/L (M1) 7.8 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 27 May 2022 include infilling of 1.85T armour rock at Caisson No. 48 - 49, diver inspection work at the rock base at Caisson No.65, installation of stoppers at Caissons 55-56, 56-57, 57-58, 58-59, infilling of caisson, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, piling works for bored pile, Pile Cap Construction and blockwork seawall and existing caisson extension.</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>An exceedance of limit level was found at CR2.</p>		

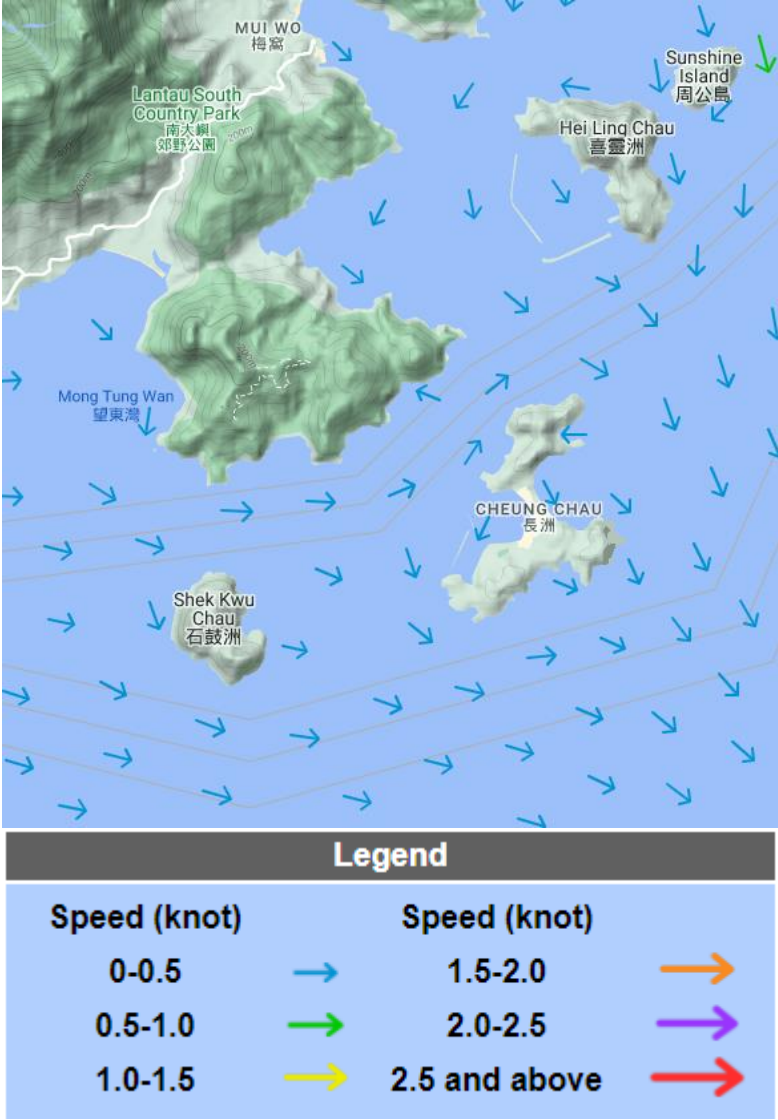


	<p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> <p>CR2 is located close to the works location within the Project site while no marine work was conducted on 27 May 2022.</p> <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was cloudy during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 31 May 2022.</p> <p>After the investigation, the exceedance on 27 May 2022 at CR2 is deemed to be unrelated to the Project.</p>
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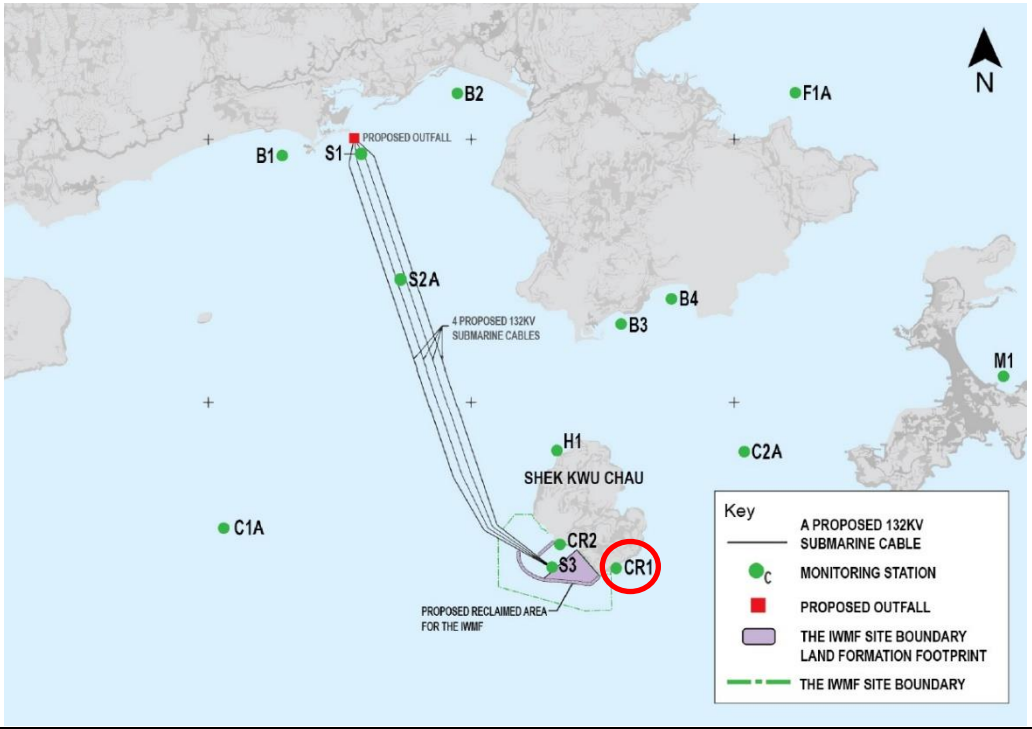
Monitoring photos of  
stations with exceedance

CR2:



<p>Remarks</p>	<p>Current direction during mid-ebb sampling on 27 May 2022:</p>  <p>(Sourced from <a href="http://current.hydro.gov.hk/en/map.html">http://current.hydro.gov.hk/en/map.html</a>)</p>
<p>Prepared by</p>	<p>Jack Chow</p>
<p>Date</p>	<p>07 June 2022</p>

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

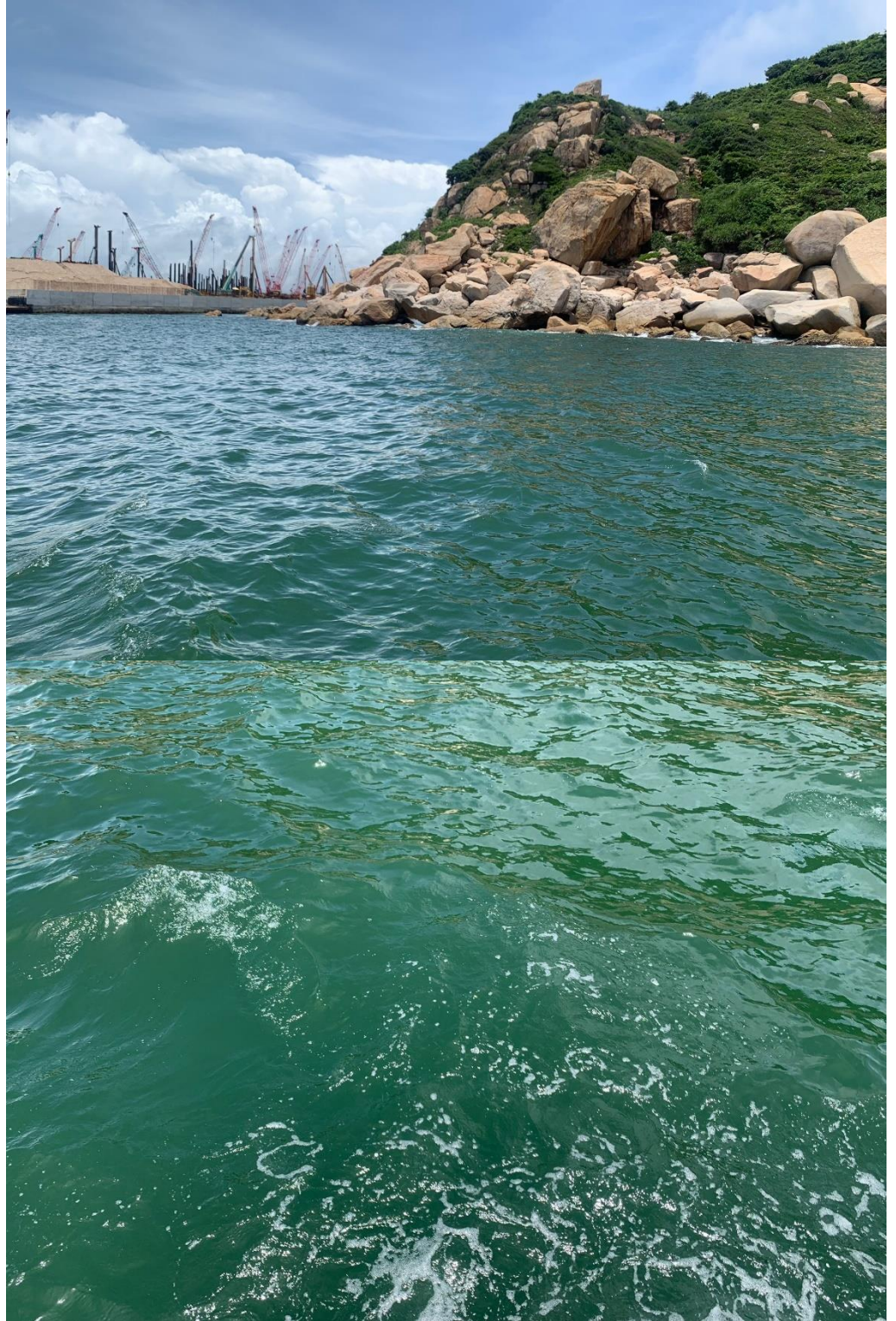
Project	Integrated Waste Management Facilities, Phase 1		
Date	30 May 2022 (Lab result received on 06 June 2022)		
Time	08:51 – 15:53 (Mid-Ebb) 15:53 – 22:32 (Mid-Flood)		
Mid-Ebb			
Monitoring Location	CR1 		
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level		Limit Level
	≥ 13.8 mg/L (120% of C1A)		≥ 15.0 mg/L (130% of C1A)
Measurement Level	Impact Station(s) of Exceedance	Measurement Level	Impact Station(s) without Exceedance
	15.3 mg/L (CR1)	11.5 mg/L (C1A) 6.3 mg/L (C2A)	6.5 mg/L (B1) 7.3 mg/L (B2) 6.3 mg/L (B3) 7.0 mg/L (B4) 10.3 mg/L (M1) 7.8 mg/L (F1A) 8.7 mg/L (H1) 11.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<p>Works scheduled on site on 30 May 2022 include transloading 1.85T armour rock from rock barge, installation of Caisson No.65, diver inspection work at the stopper at CH40 - CH100 and CH160 - CH180, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, piling works for bored pile, Pile Cap Construction and blockwork seawall and existing caisson extension.</p> <p>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</p> <p>An exceedance of limit level was found at CR1.</p>		

	<p>CR1 is located within the Project site while no marine work was conducted on 30 May 2022.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p> <p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was sunny during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 31 May 2022.</p> <p>After the investigation, the exceedance on 30 May 2022 at CR1 is deemed to be unrelated to the Project.</p>
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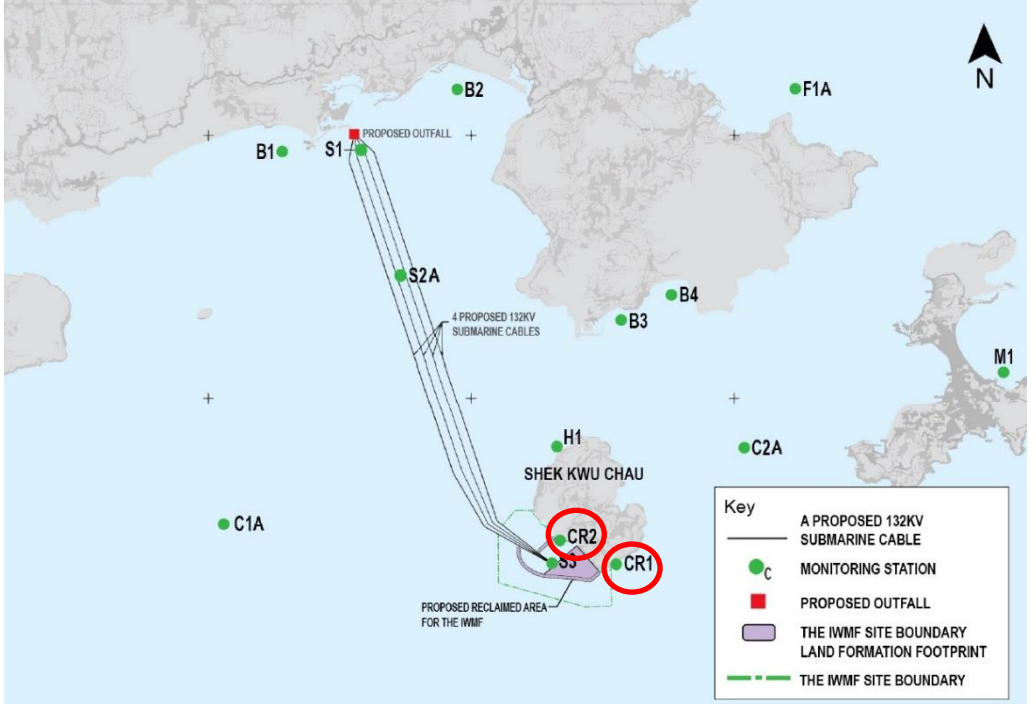


Monitoring photos of  
stations with exceedance

CR1:



Mid-Flood

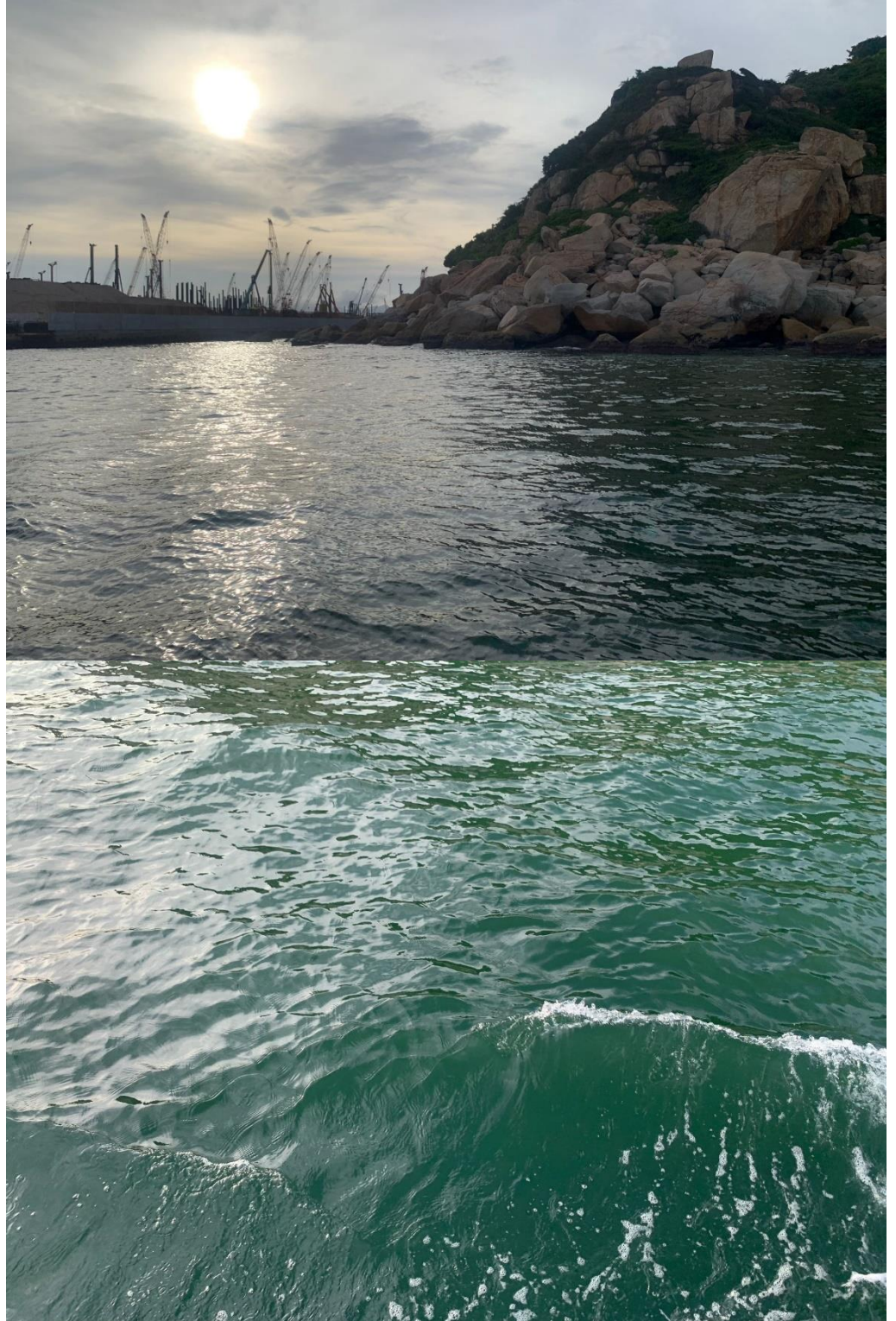
<p>Monitoring Location</p>	<p>CR1, CR2</p> 		
<p>Parameter</p>	<p>Suspended Solid (SS)</p>		
<p>Action &amp; Limit Levels</p>	<p>Action Level  <math>\geq 12.0</math> mg/L</p>		<p>Limit Level  <math>\geq 14.0</math> mg/L</p>
<p>Measurement Level</p>	<p>Impact Station(s) of Exceedance                      17.3 mg/L (CR1)                      12.5 mg/L (CR2)</p>	<p>Control Stations                      7.3 mg/L (C1A)                      5.8 mg/L (C2A)</p>	<p>Impact Station(s) without Exceedance                      6.5 mg/L (B1)                      7.5 mg/L (B2)                      6.5 mg/L (B3)                      8.0 mg/L (B4)                      6.0 mg/L (F1A)                      8.2 mg/L (H1)                      8.2 mg/L (M1)</p>
<p>Possible reason for Action or Limit Level Non-compliance</p>	<p>Works scheduled on site on 30 May 2022 include transloading 1.85T armour rock from rock barge, installation of Caisson No.65, diver inspection work at the stopper at CH40 - CH100 and CH160 - CH180, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, piling works for bored pile, Pile Cap Construction and blockwork seawall and existing caisson extension.</p> <p>Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.</p> <p>An exceedance of limit level was found at CR1 and an exceedance of action level was found at CR2.</p> <p>CR1 and CR2 are located within the Project site while no marine work was conducted on 30 May 2022.</p> <p>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.</p>		



	<p>According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was sunny during the sampling event.</p> <p>No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 31 May 2022.</p> <p>After the investigation, the exceedances on 30 May 2022 at CR1 and CR2 are deemed to be unrelated to the Project.</p>
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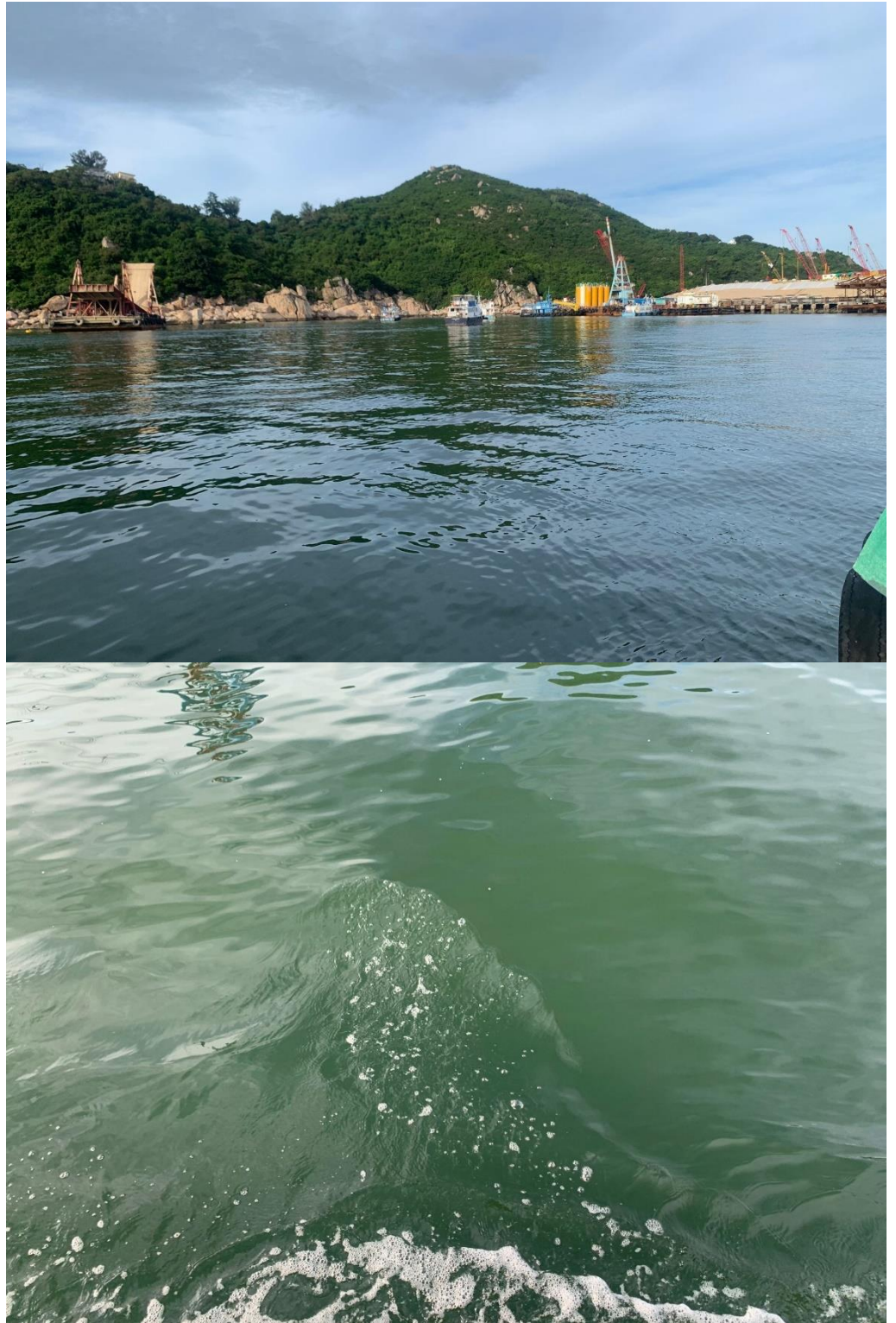
Monitoring photos of  
stations with exceedance

CR1:



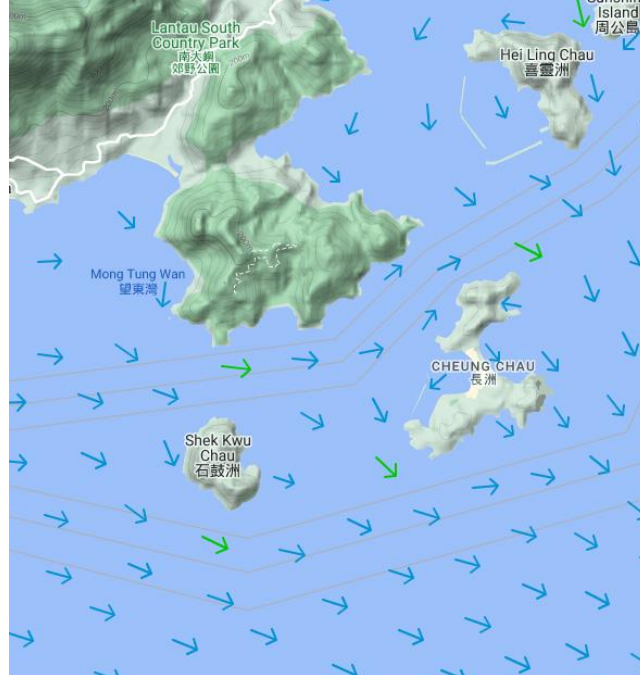


CR2:

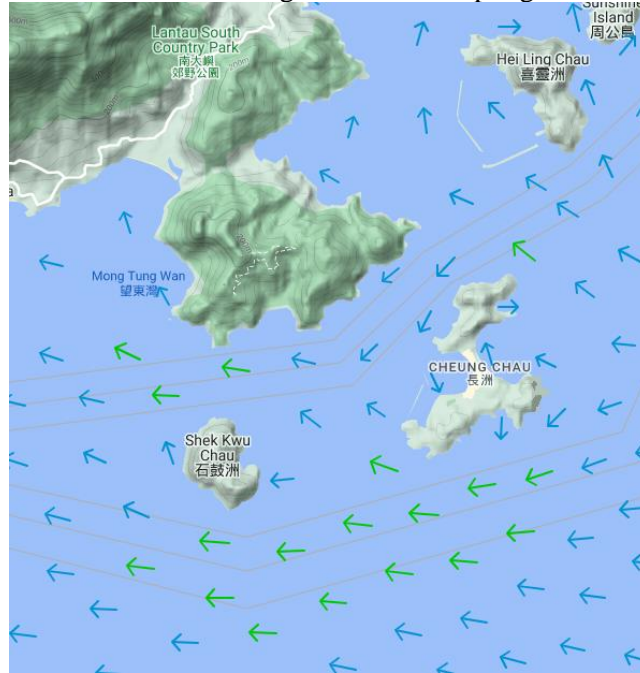


Remarks

Current direction during mid-ebb sampling on 30 May 2022:



Current direction during mid-flood sampling on 30 May 2022:



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

Prepared by Jack Chow

Date 07 June 2022