

Contract No. HY/2011/03 - Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances Notification No.: 137 (ver1)

Date of Notification: 22 April 2013

Works Inspected: Data collected from water sampling works on 10 April 2013 and the test report was issued on 17 April 2013.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS8	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 8.78 x 120% = 10.5 mg/L for mid ebb) AND CS(Mf)5: 4.45 x 120% = 5.3 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 8.78 x 130% = 11.4 mg/L for mid ebb) AND CS(Mf)5: 4.45 x 130% = 5.8 mg/L for mid flood)	6.4	23.9

Notes:
 DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 10 April 2013, an AL exceedance at station IS8 was recorded during mid-flood tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

- The sampling time for IS8 was around 06:54 hour for mid-flood tide on 10 April 2013. According to the information provided by the Contractor, a tug boat was used to tow barges during the sampling date and a hopper barge was used to carry out rock filling at Zone 3A from 11:00 to 11:45 hour on 10 April 2013. No marine works were undertaken during the sampling period of IS8 for the mid-flood tide.
- The ranges of suspended solid at station IS8 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide	Range of Suspended Solid (mg/L) Mid- Flood Tide
IS8	5.5 to 25.5	5.8 to 31.3

The measured values at station IS8 were within the range of suspended solid during baseline monitoring for mid-ebb tide and mid-flood tide.

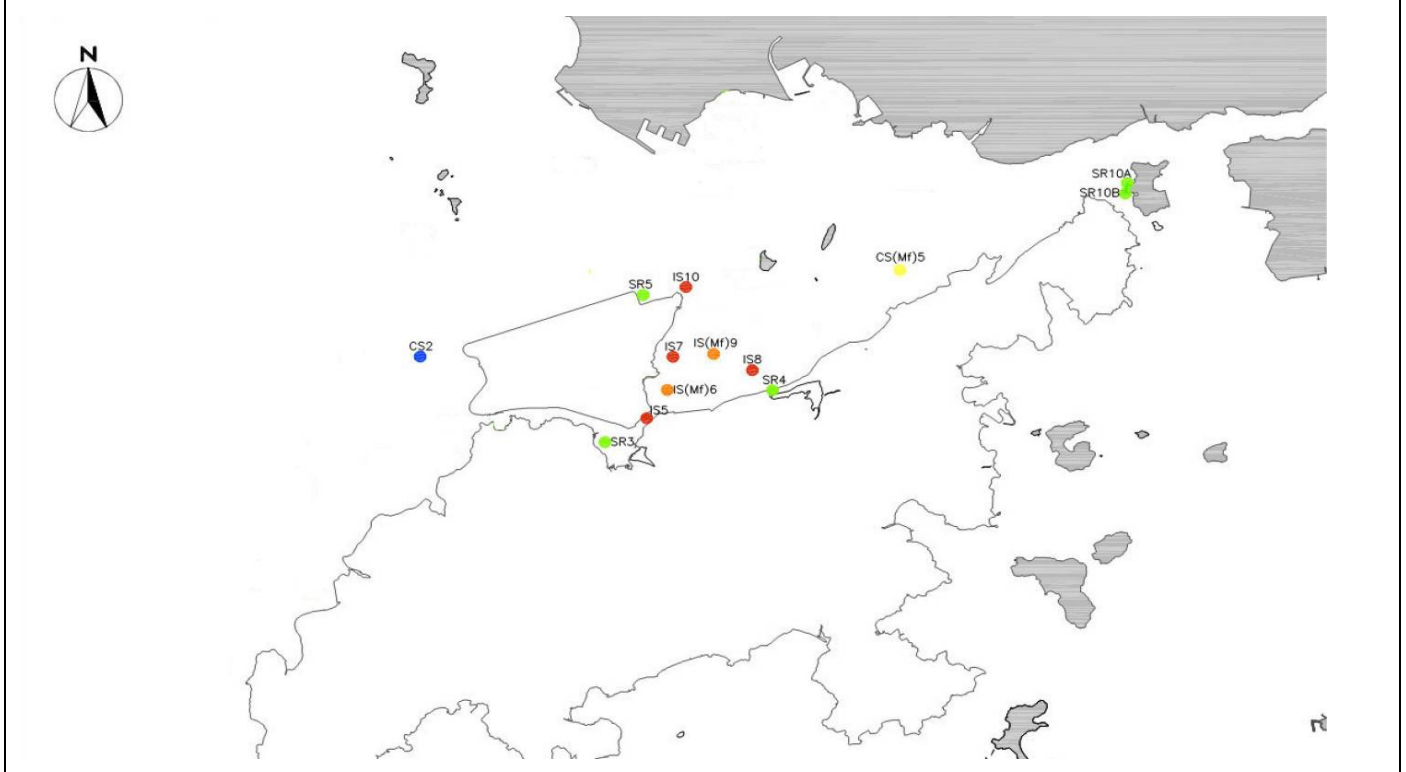
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.
- No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels are considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid levels recorded beyond the water quality criteria were not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 26 April 2013

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

**Contract No. HY/2011/03 -
 Hong Kong- Zhuhai- Macao Bridge
 Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
 Notifications of Environmental Quality Limits Exceedances** Notification No.: 138

Date of Notification: 7 May 2013

Works Inspected: Data collected from water sampling works on 26 April 2013 and the test report was issued on 6 May 2013.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS10	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 10.38 x 120% = 12.5 mg/L for mid ebb) AND CS(Mf)5: 5.78 x 120% = 6.9 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 10.38 x 130% = 13.5 mg/L for mid ebb) AND CS(Mf)5: 5.78 x 130% = 7.5 mg/L for mid flood)	11.3	24.1
SS	SR5	DA	CS2: 10.38 x 120% = 12.5 mg/L for mid ebb) AND CS(Mf)5: 5.78 x 120% = 6.9 mg/L for mid flood)	CS2: 10.38 x 130% = 13.5 mg/L for mid ebb) AND CS(Mf)5: 5.78 x 130% = 7.5 mg/L for mid flood)	11.0	25.8

Notes:
 DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 26 April 2013, AL exceedances at station IS10 and SR5 were recorded during mid-flood tide.

The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

- The sampling time for IS10 and SR 5 were around 06:22 and 06:29 hour for mid-flood tide on 26 April 2013. According to the information provided by the Contractor, removal of temporary stone platform and installation of stone column were carried out on 26 April 2013 during the working hours (after 8am). No marine works were undertaken during the sampling period of IS10 and SR5 for the mid-flood tide.
- The ranges of suspended solid at station IS10 and SR5 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide	Range of Suspended Solid (mg/L) Mid- Flood Tide
IS10	6.1 to 20.2	7.2 to 16
SR5	6.7 to 16.5	6.5 to 31.2

The measured value at station IS10 is higher than the range of suspended solid during mid-flood tide and the measured value at station SR5 was within the range of suspended solid during baseline monitoring for mid-flood tide.

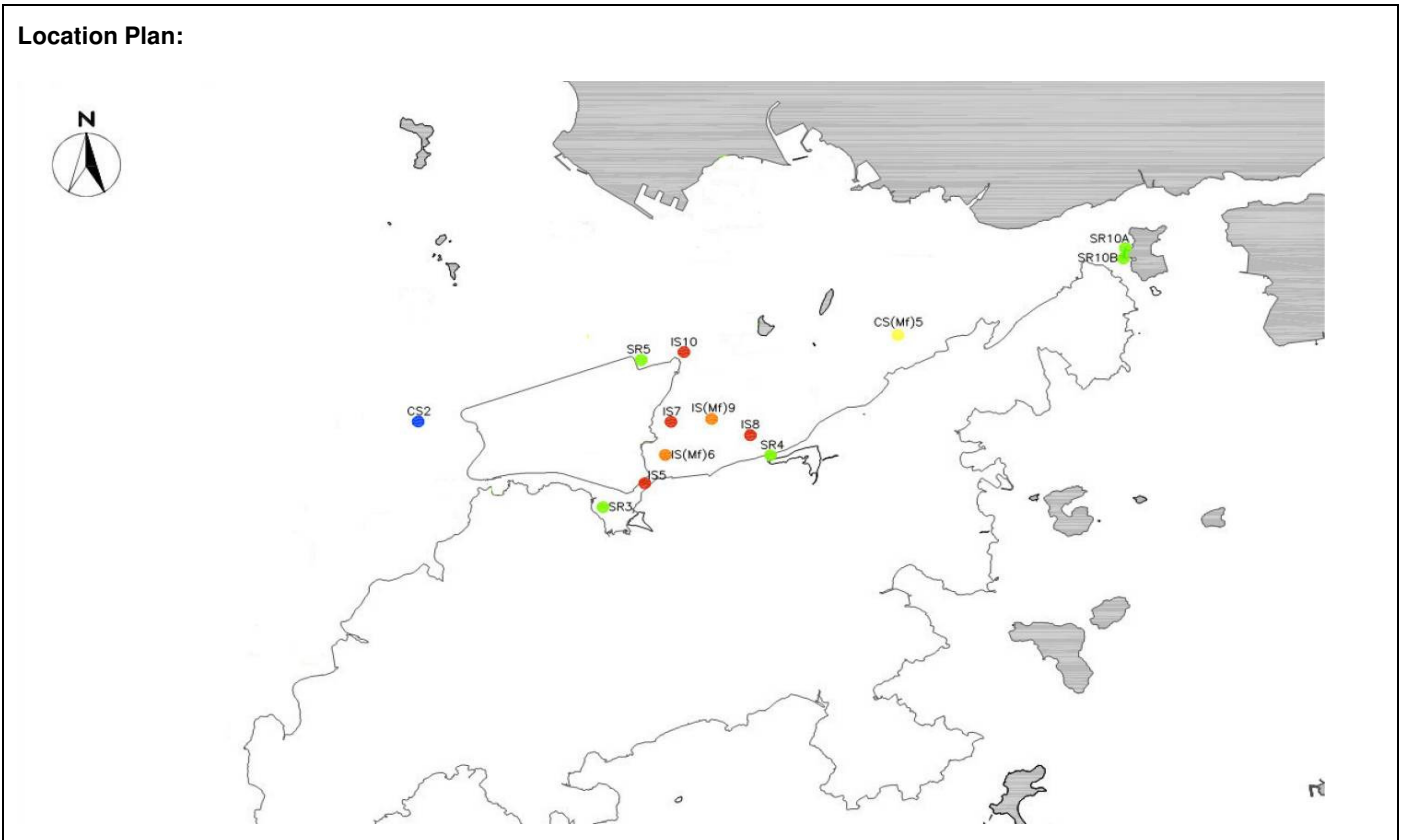
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.
- No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid levels are considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid levels recorded beyond the water quality criteria were not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 7 May 2013

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 - Hong Kong- Zhuhai- Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities Notifications of Environmental Quality Limits Exceedances			Notification No.: 139a
Date of Notification: 14 May 2013			
Works Inspected: Not Applicable			
Monitoring Location: Not Applicable			
Parameter: Noise			
Action & Limit Levels		Description	
Time Period	Action Level	Limit Level	2 Action level exceedances were recorded due to 1 documented complaint received - A facsimile complaint was received on 15 April 2013 regarding the machinery noise generated from the construction site near Tung Chung Development Pier operating for the Hong Kong-Zhuhai-Macao Bridge Hong Kong during the normal working hours on 6 April 2013 and 13 April 2013 causing nuisance to public.
07:00–19:00 hrs Normal weekday	1 complaint	75 dB(A)	
Possible reason for Action or Limit Level Non-compliance:			
<p>According to the site diary provided by the Contractor, stone column installation was undertaken at Zone 3A and rock filling activities were undertaken at Zone 1 during the normal working hours of 6 April 2013 (7:30a.m. to 6p.m.) where malfunctioning of the bulldozer operating at Zone 3A was recorded and the machine was checked and repaired to resume functional. During the normal working hours (7:30a.m. to 6p.m) of 13 April 2013, stone column installation was undertaken at Zone 3A and rock filling activities were undertaken at Zones 1 and 3A. The construction activities did not cause adverse noise impacts on nearby noise sensitive receivers. The site diary for the complaint time period of 6 and 13 April 2013 is attached for information.</p>			
Actions taken/ to be taken:			
<p>A site inspection was undertaken on 17 April 2013 between 9:30 a.m. and noon. During the site inspection, the following activities were undertaken:</p> <ul style="list-style-type: none"> • Zone 3A – Rock transfer from pelican barge to hopper barge • Zone 3A – Stone column installation • Zone 3B – Forming access at rock platform by excavator and dump trucks <p>It was found that powered mechanical equipment was operated under normal condition and no significant noise was generated from the construction activities.</p> <p>Based on the Contractor's site diary and our investigation, it is considered that the complaint is invalid.</p>			
Recommendations/ mitigation measures/ actions if necessary:			
<p>Although the noise complaint was considered invalid, the Contractor was also reminded to minimize the noise impact and implement the noise mitigation measures as required in the Implementation Schedule to minimize the potential noise impacts.</p>			

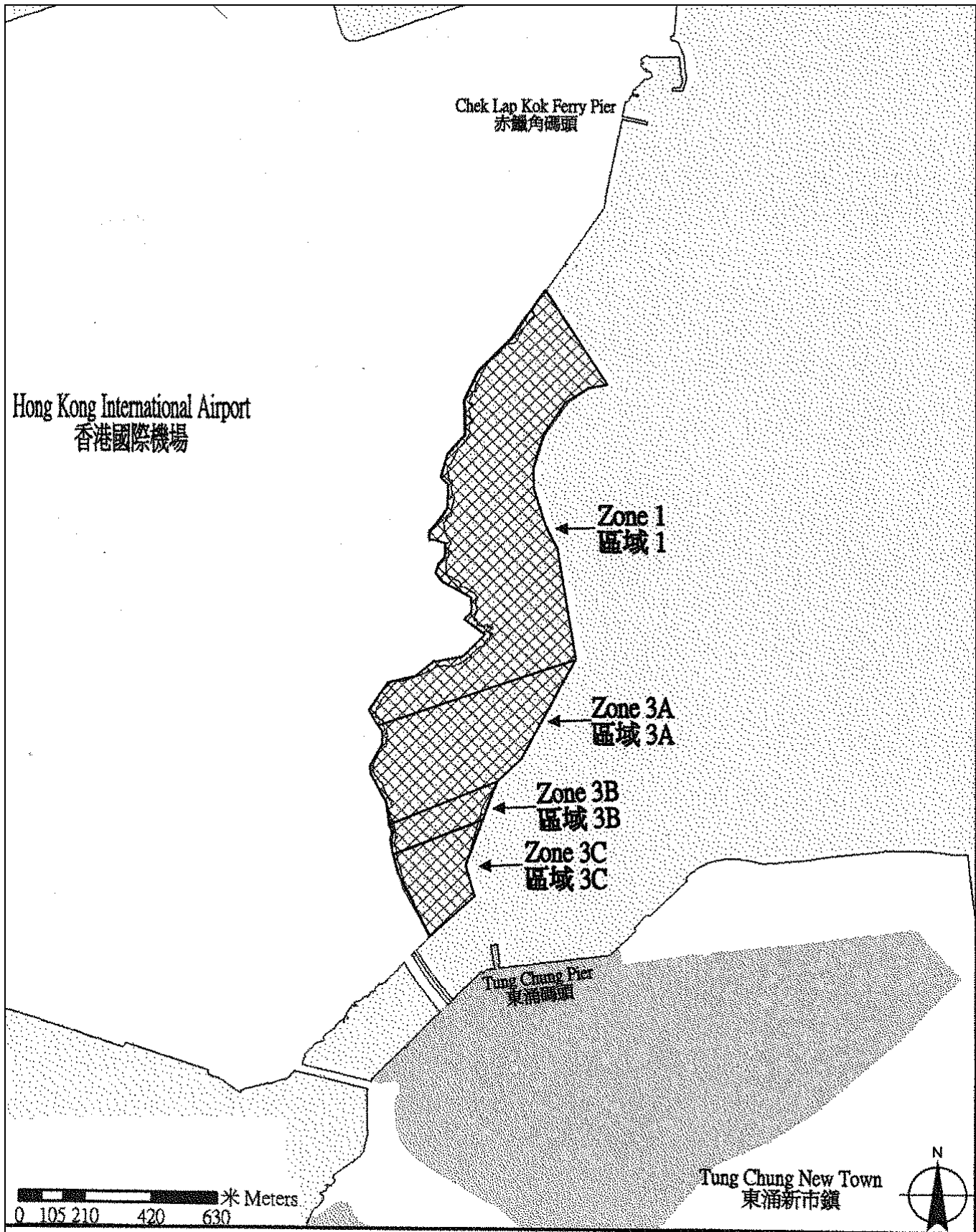
Reviewed by : Claudine Lee

Title : ET Leader



Date : 14 May 2013

Copied to : Supervising Officer, IEC, EPD, Contractor



Marine Plant Operation during normal working hours on 6 Apr 2013

Location	Time	Plant Name	Vessel Type	Working Status	CNP No.	Group
Zone 3A	0730 - 1800	N/A	Stone column rig	Stone column installation	N/A	N/A
		N/A	Air compressor	Provided compressed air for the stone column installation	N/A	N/A
		N/A	Generator	Provided power supply for the stone column installation	N/A	N/A
		N/A	Loader	Feeding rock material for stone column rig	N/A	N/A
		N/A	Bulldozer	Moving rock material to location for use by loader Sudden mechanical breakdown at 0930 and stopped operation for inspection and maintenance	N/A	N/A
Zone 1	1000 - 1800	盛業FB101	Flat top barge	Acting as marker pontoon at fix position	N/A	N/A
		C.M.118	Hopper barge	Rockfilling		

Marine Plant Operation during normal working hours on 13 Apr 2013

Location	Time	Plant Name	Plant Type	Working Status	CNP No.	Group
Zone 3A	0730 - 1900	N/A	Stone column rig	Stone column installation	N/A	N/A
		N/A	Air compressor	Provided compressed air for the stone column installation	N/A	N/A
		N/A	Generator	Provided power supply for the stone column installation	N/A	N/A
		N/A	Loader	Feeding rock material for stone column rig	N/A	N/A
		N/A	Bulldozer	Moving rock material to location for use by loader	N/A	N/A
Zone 1	1000 - 1800	盛業FB101	Flat top barge	Acting as marker pontoon at fix position	N/A	N/A
		C.M.118	Hopper barge	Rockfilling For positioning only without crane operation		
Zone 3A	0800 - 1200	新訊SS2	Derrick barge		N/A	N/A
		C.S.2001	Hopper barge	Rockfilling		
Zone 1	0900 - 11:00	粵惠州貨3388	Pelican barge	Rockfilling	N/A	N/A
	0900 - 11:00	粵廣州貨1062	Pelican barge	Rockfilling	N/A	N/A
	0800 - 1800	C.M.83 海駁5	Derrick barge Hopper barge	For positioning only without crane operation Rockfilling	N/A	N/A

Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A