

Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (September 2015)

CONTRACT NO: HK/2011/07

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 2)

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 , FEP-06/356/2009 AND FEP-07/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- SEPTEMBER 2015 -

CLIENTS:

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and

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DATE:

12 October 2015



Ref.: AACWBIECEM00_0_7263L.15

12 October 2015

By Post and Fax (3912 3010)

AECOM Asia Company Limited Engineer's Representative's Office 25 Hung Hing Road, Causeway Bay, Hong Kong

Attention: Mr. Peter Poon

Dear Mr. Poon,

Re: Contract No. HK/2011/07 Wan Chai Development Phase II - Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

Monthly Environmental Monitoring and Audit Report (September 2015) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for September 2015 received by e-mail on 12 October 2015 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

Encl.

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Lam Geotechnics Limited

EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – September 2015 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring findings and information recorded during the period August 2015 to September 2015. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
 Nil
- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Placing levelling stone for construction of seawall at WCR3
 - Placing caisson seawall
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 Reinstatement of vertical seawall at TPCWAE
- v. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 Nil
- vi. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
 - Dry dock construction
 - Installation of pipe pile wall
 - Construction of culvert
- vii. During this reporting period, the major work activities for Contract no. HY/2010/08.
 - Diversion pipe maintenance

Noise Monitoring

- viii. No action and limit level exceedance was recorded in this reporting month.
- ix. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b,
 M3a, M4b, M5b and M6 on a weekly basis in the reporting month.

Real-time Noise Monitoring

x. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 -



FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

- xi. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xii. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No limit level exceedance was recorded in the reporting month.

Air Quality Monitoring

- xiii. One action level exceedance during 24 hr TSP monitoring was recorded at monitoring station
 CMA1b Oil Street Site Office on 24 September 2015 in the reporting month. Investigation found that the exceedance recorded was not related to the Project.
- xiv. With respect to the removal of Oil Street Site Office, the respective air quality monitoring station CMA1b was finely adjusted on 11 September 2015.
- xv. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 and 15 September 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during this reporting month.
- xvi. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3 December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively
- xvii. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b – Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xviii. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xix. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; CMA2a – Causeway Bay Community Center; CMA3a – CWB
 PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5b – Pedestrian Plaza; CMA6a – WDII PRE Site Office.

Water Quality Monitoring

- xx. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2015.
- xxi. Due to the hoisting of Amber Rainstorm Warning Signal and safety consideration under adverse weather condition, the scheduled Water Quality Monitoring on 26 September 2015 during flood tide was cancelled.
- xxii. With respect to the completion of the removal of the silt screen maintained under WDII Contract HK/2009/01 at WSD Saltwater Intake Station WSD19 on 15 September 2015, the monitoring location for the WQM station WSD19 would be finely adjusted to the location



immediately outside the abstraction point of the respective WSD Saltwater Intake from 16 September 2015.

- With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015 and the monitoring at Ex-PCWAE SE is tentatively to be resumed by November 2015.
- xxiv. With respect to the construction stage and access condition at Ex-PCWAW and the potential DO concern within the area, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SE was resumed on 10 August 2015 at the finely adjusted monitoring location.
- xxv. With respect to the construction works undertaken at Ex-PCWAW and the forthcoming wet season DO concern, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SW was resumed on 30 March 2015 at the finely adjusted monitoring location.
- xxvi. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.
- xxvii. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014.
- xxviii. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- xxix. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- xxx. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake. The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- xxxi. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- xxxii. As confirmed by WDII RSS and IEC, the cross harbor dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- xxxiii. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July



2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.

- xxxiv. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
- xxxv. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- xxxvi. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- xxxvii. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.
- xxxviii. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- xxxix. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
 - xl. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
 - xli. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
 - xlii. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
 - xliii. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
 - xliv. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.



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- xlv. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- xlvi. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- xlvii. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- xlviii. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.

	Water	Mid-flood				Mid-ebb							
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	1	3	1	0	0	0	1	2	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	1	0	0	0	0	0	1	0	0
HY/2009/15 & HY/2010/08	C7	0	0	1	1	0	0	0	0	0	0	0	0
Total		0	0	2	5	1	0	0	0	1	3	0	0

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014



- Maintenance responsibility of silt screen C1, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- Silt screen at WSD19 was removed since 15 September 2015.
- xlix. There were 3 action level and 8 limit level of turbidity exceedance, and 1 action level and no limit level of suspended solid exceedance recorded in the reporting month. Investigation found that the exceedance was not related to Project works. The details of the recorded exceedance can be referred to the **Section 6.4**.
 - I. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table II*.

		Mid-f	lood	Mid-ebb	
Contract no.	Water Monitoring Station	DO		DO	
	Claion	AL	LL	AL	LL
	C6	0	0	1	0
HY/2009/15	Ex-WPCWA SW	1	5	2	3
	Ex-WPCWA SE	0	1	1	0
Total		1	6	4	3

Table IISummary of Enhanced Dissolved Oxygen Monitoring Exceedances inReporting Month

- There were 5 action level and 9 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances were not related to Project works. The details of the recorded exceedances can be referred to the *Section 6.4*.
- Iii. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- liii. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013.
- liv. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- Iv. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO



monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.

Complaints, Notifications of Summons and Successful Prosecutions

- lvi. Three environmental complaints were received in this reporting month.
- Ivii. A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)

ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.

According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

Iviii. Second public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08)



ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.

Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.

From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.

In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.



The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.

The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

Iix. The third public complaint regarding water quality referred by EPD was received by ET on 17 September 2015. The complainant reported that Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan Chai, Hong Kong).

Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.

In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.

Site Inspections and Audit

- Ix. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.
- Ixi. Construction works under HK/2010/06 was confirmed completed and the respective work area under FEP-05/356/2009 was handover and inspected under HK/2012/08 from 22 September 2014 onwards.



Future Key Issues

Ixii. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

• Nil

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East</u>

- Backfill behind Seawall
- Reclamation
- Demolition of remaining part of existing Wan Chai Ferry Pier

<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

• Reinstatement of vertical seawall at TPCWAE

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

• Nil

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

- Dry dock construction
- Installation of pipe pile wall
- Construction of culvert

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

• Diversion pipe maintenance



Lam Geotechnics Limited

1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of August 2015 to September 2015. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5 *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 *Cumulative Construction Impact due to the Concurrent Projects* summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.



- Section 8 Environmental Site Audit summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



2 Project Background

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
 - Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
 - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above
 - Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above



Lam Geotechnics Limited

- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (Eps) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

ltem	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

- 2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.2. The details of individual contracts are summarized in *Table 2.2*.



Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date	
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong	DP3, DP6	23 July 2010	
Kong Convention and Exhibition Centre		DP1, DP2	25 August 2011	
HK/2009/02		DP3, DP5	5 July 2010	
	East	DP1	26 April 2011	
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (Completed)	
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010	
	(Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011	
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)	
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)	
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)	
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011	
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011	
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014	
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013	
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014	

Table 2.2 Details of Individual Contracts under the Project

2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2.* Key personnel and contact particulars are summarized in *Table 2.3*:



Party	Role	Post	Name	Contact No.	Contact Fax	
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877	
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010	
Chun Wo – Leader	Contractor under Contract no.	Project Manager	Mr. Simon Liu	9304 8355	2587 1878	
Joint Venture	HK/2009/01	Site Agent	Mr. Andy Yu	9648 4896		
		Construction Manager	Mr. Terry Wong	9757 9846		
		Construction Manager	Mr. Wyman Wong	9627 2467		
		Construction Manager	Mr. Terry Tsang	6683 9394		
		Environmental Officer	Ms. Wendy Ng	9803 0057		
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057		
Chun Wo –	Contractor under	Project Manager	Mr. Paul Yu	3658-3085	2827 9996	
CRGL Joint Venture	Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856		
China	Contractor under	Project Director	Chris Leung	3557 6393	2566 2192	
State Constructi	Contract no. HY/2009/15	Site Manager	Y Huo	3557 6368		
on Engineerin g (HK) Ltd.		Contractor's Representative	Andrew Wong	3557 6371		
g (i iii) Eta.		Contractor's Representative	Gene Cheung	3557 6395		
		Environmental Officer	Andy Mak	3557 6347		
Chun Wo – CRGL –	Contractor under Contract no.	Project Manager	Rayland Lee	3758 6788	2570 8013	
MBEC_	HY/2009/19	Site Agent	David Lau	3758 8879	-	
Joint Venture		Deputy Site Agent	Eric Fong	6191 9337	-	
		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810		
		Construction Manager (Marine)	Andy Chan	9879 4325		
		Construction Manager (Land)	Bear Ding	6483 6198]	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010		
China	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522	

Table 2.3 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
State-	under Contract	Project Manager	Eddie Chung	9189 8118	
Leader JV	no. HK/2012/08	Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	
China State	Contractor under Contract no. HY/2010/08	Project Director	Chris Leung	3467 4299	2566 8061
		Project Manager	Chan Ying Lun	3418 3001	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
Leighton	Contractor under	Project Manager	Paul Evans	2823 1111	21406799
Joint Venture	Contract no. HY/2011/08	Site Agent	Colman Wong	9730 0806	
		Environmental Officer	David Hung	9765 6161	
		Environmental Supervisor	Penny Yiu	2214 7738	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechni cs Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. For Contract no. HK/2009/01, the principal work activities in this reporting month included:

• Nil

- 2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Placing levelling stone for construction of seawall at WCR3
 - Placing caisson seawall
- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Reinstatement of vertical seawall at TPCWAE



- 2.4.6. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - Nil
- 2.4.7. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
 - Dry dock construction
 - Installation of pipe pile wall
 - Construction of culvert
- 2.4.8. For Contract no. HY/2010/08, no principal work activities this reporting month.
 - Diversion pipe maintenance
- 2.4.9. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

• Nil

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East</u>

- Backfill behind Seawall
- Reclamation
- Demolition of remaining part of existing Wan Chai Ferry Pier

<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

• Reinstatement of vertical seawall at TPCWAE

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

• Nil

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

- Dry dock construction
- Installation of pipe pile wall
- Construction of culvert



Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

• Diversion pipe maintenance



3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	Valid

3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> over MTR Tsuen Wan Line under FEP-05/356/2009

3.1.3. The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in *Table 3.2* and *Table 3.3*.

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit	GW-RS0243-15	16 Mar 2015	25 Mar 2015 to 24 Sept 2015	Expired
(CNP) for non-piling equipment	GW-RS-269-15	16 Mar 2015	8 Apr 2015 to 7 Oct 2015	Valid
	GW-RS0416-15	16 Apr 2015	8 May 2015 to 7 Nov 2015	Valid
	GW-RS0445-15	30 Apr 2015	26 May 2015 to 25 Nov 2015	Valid
	GW-RS0462-15	30 Apr 2015	2 May 2015 to 1 Nov 2015	Valid
	GW-RS0706-15	30 Jun 2015	2 Jul 2015 to 1 Jan 2016	Valid
	GW-RS0803-15	28 Jul 2015	21 Aug 2015 to 20 Feb 2016	Valid

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2009/01



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0804-15	28 Jul 2015	22 Aug 2015 to 21 Feb 2016	Valid
	GW-RS0868-15	13 Aug 2015	14 Aug 2015 to 13 Feb 2016	Valid
	GW-RS1025-15	22 Sep 2015	24 Sep 2015 to 23 Mar 2016	Valid
	GW-RS1031-15	22 Sep 2015	29 Sep 2015 to 24 Mar 2016	Valid
Discharge Licence	WT00021138-2015	13 Apr 2015	31 Mar 2020	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-062	17 Aug 2015	18 Aug 2015 to 30 Sept 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	-	-	-	-

Table 3.3 Summary of submission status under FEP-02/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
Condition 2.9	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010



EP Condition	Submission	Date of Submission
	Silt Screen Deployment Plan (Rev. 8)	7 Sep 2015
	Silt Screen Deployment Plan (Rev. 7)	21 Nov 2014
Condition 2.9	Silt Screen Deployment Plan (Rev. 6)	20 Aug 2014
Condition 2.9	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010
Condition 1.12	Notification of Commencement Date	20 Jun 2011
Condition 2.6 to 2.8	Management Organization, Works Schedule and Location Plan	18 May 2011
Condition 2.9	Silt Screen Deployment Plan	10 Jun 2011
Condition 2.18	Landscape Plan	31 Oct 2013

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in *Table 3.4* and *Table 3.5*.



Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS0236-15	13 Mar 2015	25 Mar 2015 to 24 Sep 2015	Expired
	GW-RS0246-15	13 Mar 2015	22 Mar 2015 to 13 Sep 2015	Expired
	GW-RS0446-15	30 April 2015	27 May 2015 to 26 Nov 2015	Valid
Construction Noise Permit	GW-RS0447-15	30 April 2015	22 May 2015 to 21 Nov 2015	Valid
(CNP) for non-piling equipment	GW-RS0454-15	30 April 2015	2 May 2015 to 28 Oct 2015	Valid
	GW-RS0454-15	30 April 2015	2 May 2015 to 29 Oct 2015	Valid
	GW-RS0544-15	22 May 2015	26 May 2015 to 18 Nov 2015	Valid
	GW-RS0610-15	10 Jun 2015	22 Jun 2015 to 21 Dec 2015	Valid
	GW-RS0637-15	11 Jun 2015	18 Jun 2015 to 8 Dec 2015	Valid
	GW-RS0709-15	30 June 2015	2 Jul 2015 to 1 Jan2016	Valid
	GW-RS0716-15	30 June 2015	4 Jul 2015 to 27 Dec 2015	Valid
	GW-RS0723-15	2 July 2015	7 Jul 2015 to 6 Jan 2016	Cancelled
	GW-RS0831-15	31 July 2015	3 Aug 2015 to 28 Jan 2016	Cancelled
	GW-RS0981-15	7 Sep 2015	9 Sep 2015 to 6 Mar 2016	Valid
	GW-RS1004-15	15 Sep 2015	17 Sep 2015 to 16 Dec 2015	Valid
	GW-RS1006-15	15 Sep 2015	18 Sep 2015 to 14 Mar2016	Valid
	WT00008982-2011	26 Apr 2011	30 April 2016	Valid
Discharge Licence	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-034	26 Jun 2015	1 Jul 2015 to 21 Dec 2015	Valid

Table 3.5 Summary of submission status under FEP-03/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
Condition 2.8	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	Silt Curtain Deployment Plan (Revision M)	30 Nov 2012
	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
Condition 2.9	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
	Silt Screen Deployment Plan (Revision D)	10 Dec 2012
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Decorative Screen Hoarding)	11 May 2010



EP Condition	Submission	Date of Submission
	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter</u> <u>Section)</u>

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under FEP-04/356/2009 are shown in *Table 3.6* and *Table 3.7*.

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no.
HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0893-15	17 Aug 2015	17 Aug 2015 to 16 Feb 2015	Valid
Construction Noise Permit (CNP) for reclamation and d-wall works at Ex-PCWA	GW-RS0579-15	29 May 2015	31 May 2015 to 26 Nov 2015	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	26 Jun 2015	17 Jul 2015 to 16 Oct 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-051	3 Aug 2015	5 Aug 2015 to 30 Jan 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal(Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/16-063	18 Aug 2015	20 Aug 2015 to 19 Sep 2015	Expired
	EP/MD/16-085	18 Sep 2015	22 Sep 2015 to 21 Oct 2015	Valid



FEP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.02	Noise Management Plan	20 Oct 2010
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

Table 3.7 Summary of submission status under FEP-04/356/2009 Condition

3.1.7. Implementation status of the recommended mitigation measures during this reporting period is presented in <u>Appendix 3.1.</u>

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in *Table 3.8*

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/A	20 Sep 2012	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0909-15	21 Aug 2015	21 Aug 2015 to 20 Feb 2016	Valid
Discharge License (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under FEP-06/356/2009 are shown in *Table 3.9* and *Table 3.10*.

Table 3.9 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Water Discharge Licence	WT00018223-2014	28 Jan 2014	31 Jan 2019	Superseded by WT0002059 4-2014
	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid
Construction Noise Permit	GW-RS0295-15	19 Mar 2015	27 Mar 2015 to 26 Sep 2015	Expired
	GW-RS0296-15	19 Mar 2015	23 Mar 2015 to 22 Sep 2015	Expired
	PP-RS0008-15	10 Mar 2015	12 Mar 2015 to 11 Sep 2015	Expired
	GW-RS0223-15	3 Mar 2015	9 Mar 2015 to 8 Sep 2015	Expired
	GW-RS-0360-15	1 Apr 2015	2 May 2015 to 31 Oct 2015	Valid
	GW-RS0838-15	31 Jul 2015	3 Aug 2015 to 2 Feb 2016	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0835-15	3 Aug 2015	5 Aug 2015 to 2 Feb 2016	Valid
	GW-RS1012-15	22 Sep 2015	27 Sep 2015 to 26 Mar 2016	Valid
	GW-RS0976-15	7 Sep 2015	23 Sep 2015 to 22 Mar 2016	Valid
	PP-RS0024-15	17 Sep 2015	22 Sep 2015 to 21 Mar 2016	Valid
	GW-RS0921-15	26 Aug 2015	9 Sep 2015 to 8 Mar 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-037	30 Jun 2015	2 Jul 2015 to 1 Jan 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/16-053	29 Jul 2015	2 Aug 2015 to 1 Sep 2015	Expired
	EP/MD/16-072	25 Aug 2015	2 Sep 2015 to 1 Oct 2015	Valid

Table 3.10Summary of submission status under EP-356/2009 and FEP-06/356/2009Condition

FEP Condition	Submission	Date of Submission	
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.	
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 19 Sep 2013	
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 15 Aug 2013	
Condition 2.24	Landscape Plan (Rev. 3)	Generally in order as commented by EPD on 31 Oct 2013	

Contract no. HY/2010/08 – Central - Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under FEP-07/356/2009 are shown in Table 3.11 and Table 3.12.



Table 3.11	Cumulative Summary of Valid Licences and Permits under Contract no.
HY/2010/08	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C11 69-44	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7020947	22 Dec 2014	NIL	Valid.
Water Discharge Licence	WT00020753-2015	3 Feb 2015	28 Feb 2017	Valid
Construction Noise Permit	GW-RS0309-15	20 Mar 2015	21 Mar 2015 to 19 Sep 2015	Expired
	GW-RS0531-15	18 May 2015	18 May 2015 to 17 Nov 2015	Valid
	GW-RS0811-15	24 Jul 2015	29 Jul 2015 to 28 Jan 2016	Cancelled
	GW-RS1039-15	23 Sep 2015	23 Sep 2015 to 21 Mar 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-057	10 Aug 2015	12 Aug 2015 to 11 Feb 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	NIL	NIL	NIL

Table 3.12Summary of submission status under EP-356/2009 and FEP-07/356/2009Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (rev03)	24 Dec 2014
Condition 2.9	Silt Screen Deployment Plan (rev02)	18 Feb 2015
Condition 2.23	Noise Management Plan (rev02)	25 Mar 2014
Condition 2.24	Landscape Plant (rev04)	23 Sep 2014



Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Station	Description	
M1a	Harbour Road Sports Centre	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

Table 4.1 Noise Monitoring Station

REAL-TIME NOISE MONITORING STATIONS

- 4.1.2. The real-time noise monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.
- 4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 -FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

District	Station	Description
North Point	RTN2a	Electric Centre

Table 4.2 Real Time Noise Monitoring Station

Real time noise monitoring results and graphical presentation during night time period are for information only.

RTN2 had been relocated to RTN2a since 5 Oct 2012

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO)



criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

- 4.1.6. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

- 4.1.8. As referred to in the Technical Memorandum [™] issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.9. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
СМАЗа	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

Table 4.3 Air Monitoring Station

Remarks*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was renamed as remark.



Remarks**: The location ID of monitoring station CMA1b was updated as "Oil Street Site Office" in April 2013.

Remarks***: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm2;
 - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring;
 - provided with a peaked roof inlet;
 - incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at horizontal position;
 - easily changeable filter; and
 - capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.



LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 4.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:



- 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
- 1 Slight Identifiable odour, and slight chance to have odour nuisance;
- 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
- 3 Strong Identifiable, likely to have odour nuisance;
- 4 Extreme Severe odour, and unacceptable odour level.
- 4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in *Appendix 4.1*.
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.

4.3 Water Quality Monitoring

- 4.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.
- 4.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April September) will be effected and applied to the water quality monitoring data from 30 April 2011.

Water Quality Monitoring Stations

4.3.3. It is proposed to monitor the water quality at 1 WSD salt water intakes and 7 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 4.4* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Station Ref.	Location	Easting	Northing
WSD Salt Water Int	ake		
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C7	Windsor House	837193.7	816150.0
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0

Table 4.4	Marine Water Quality	Stations for Water	Quality Monitoring
1 anic 4.4	warne water Quanty		Quality monitoring



Station Ref.	Location	Easting	Northing
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower) ke / WSD Salt Water Intake	835895.2	816215.2
ocoming water inta			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake	836268.0	816020.0

WATER QUALITY PARAMETERS

- 4.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.
- 4.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 4.5* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Activities	Monitoring Frequency ¹	Parameters ²
During the 4-week baseline monitoring period	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
Materia		

 Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Notes:

1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

2. Turbidity should be measured in situ whereas SS should be determined by laboratory.



DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a temperature of 0-45 degree Celsius
- 4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

4.3.10. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

SAMPLER

4.3.11. A water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

SAMPLE CONTAINER AND STORAGE

4.3.12. Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

WATER DEPTH DETECTOR

4.3.13. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

<u>SALINITY</u>

4.3.14. A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

MONITORING POSITION EQUIPMENT

4.3.15. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during



monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

CALIBRATION OF IN-SITU INSTRUMENTS

- 4.3.16. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 4.3.17. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 4.3.18. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 4.3.19. Current calibration certificates of equipments are presented in Appendix 4.2.

LABORATORY MEASUREMENT / ANALYSIS

4.3.20. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

- 4.3.21. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 4.3.22. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in *Table 4.6* and *Figure* <u>4.1</u>.

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

 Table 4.6
 Marine Water Quality Stations for Enhanced Water Quality Monitoring

- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme.



- Enhanced DO monitoring stations (Ex-PCWA SW and Ex-PCWA SE) was finely adjusted to the PCWAE since 7 November 2014.
- 4.3.23. The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 4.3.24. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 4.3.25. The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data sahll be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 4.3.26. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 4.3.27. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 4.3.28. The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
 - Contract no. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
 - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
 - Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
 - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at HKCEC, Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East</u>

5.1.1. The proposed division of noise monitoring stations are summarized in *Table 5.1* below.

Table 5.1 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.2. No action or limit level exceedance was recorded in this reporting month.
- 5.1.3. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

5.1.4. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

Table 5.2Noise Monitoring Station for Contract no. HY/2009/15

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

- 5.1.5. No action or limit level exceedance was recorded in this reporting month.
- 5.1.6. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.1.7. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

 Table 5.3
 Noise Monitoring Station for Contract no. HY/2009/19

- 5.1.8. No action or limit level exceedance was recorded in this reporting month.
- 5.1.9. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

Contract no. HY/2010/08-Central-Wanchi Bypass Tunnel (Slip Road 8 Section)

5.1.10. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.



Table 5.4Noise Monitoring Station for Contract no. HY/2010/08

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

- 5.1.11. No action or limit level exceedance was recorded in this reporting month.
- 5.1.12. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

5.2 Real-time Noise Monitoring

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

- 5.2.1 As the marine-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 5.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.
- 5.2.4 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

District	Station	Description
North Point	RTN2a	Electric Centre

 Table 5.5 Real Time Noise Monitoring Station for Contract no. HY/2009/19

• Real time noise monitoring results and graphical presentation during night time period are for information only.

RTN2 had been relocated to RTN2a since 5 Oct 2012

RTN1 monitoring had been finished on 28 Nov 2012

5.2.5 No limit level exceedance was recorded in this reporting month.



5.2.6 Details of real time noise monitoring results and graphical presentation can be referred to *Appendix 5.5.*

5.3 Air Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

5.3.1. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed divisions of air monitoring stations are summarized in *Table 5.6* below.

 Table 5.6
 Air Monitoring Stations for Contract no. HK/2009/01

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

5.3.2. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3.*

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

5.3.3. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations are summarized in *Table 5.7* below. No exceedance was recorded in the reporting month.

Table 5.7Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

5.3.4. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3.</u>

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

5.3.5. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in *Table 5.8* below.

Table 5.8Air Monitoring Station for Contract no. HY/2009/15

Station	Description
СМАЗа	CWB PRE Site Office



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- 5.3.6. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.
- 5.3.7. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 and 15 September 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during this reporting month. The details of the odour patrol results and meteorological conditions and on the date of odour patrol are shown in <u>Appendix 5.3</u>.

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.3.8. The proposed division of air monitoring stations are summarized in *Table 5.9* below.

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

Table 5.9 Air Monitoring Stations for Contract no. HY/2009/19

- 5.3.9. One action level exceedance was recorded at monitoring station CMA1b on 24 September 2015 during 24hr TSP monitoring in the reporting month.
- 5.3.10. After investigation, no construction activities was undertaken during monitoring period around the monitoring station and the condition of the haul road around the monitoring station was generally maintained with dust suppression measures, the exceedance was considered as non-Project related and contributed by local ambient condition. Nevertheless, in view of the transition into dry season, the Contractor was reminded to enhance all necessary dust suppression measure for construction works or potential dust surface to minimize potential dust impact to the surroundings.
- 5.3.11. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.

Contract no. HK/2012/08- Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West

5.3.12. The proposed division of air monitoring stations are summarized in *Table 5.10* below.

Station	Description
CMA5b	Pedestrian Plaza

 Table 5.10 Air Monitoring Stations for Contract no. HK/2012/08



5.3.13. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.

Contract no. HY/2010/08- Central-Wanchai Bypass Tunnel (Slip Road 8 Section)

5.3.14. The proposed division of air monitoring stations are summarized in *Table 5.11* below. No exceedance was recorded in the reporting month.

Table 5.11 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
СМАЗа	CWB PRE Site Office

5.3.15. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.

5.4 Water Monitoring Results.

- 5.4.1. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2015.
- 5.4.2. Due to the hoisting of Amber Rainstorm Warning Signal and safety consideration under adverse weather condition, the scheduled Water Quality Monitoring on 26 September 2015 during flood tide was cancelled.
- 5.4.3. With respect to the completion of the removal of the silt screen maintained under WDII Contract HK/2009/01 at WSD Saltwater Intake Station WSD19 on 15 September 2015, the monitoring location for the WQM station WSD19 would be finely adjusted to the location immediately outside the abstraction point of the respective WSD Saltwater Intake from 16 September 2015.
- 5.4.4. With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015 and the monitoring at Ex-PCWAE SE is tentatively to be resumed by November 2015
- 5.4.5. With respect to the construction stage and access condition at Ex-PCWAW and the potential DO concern within the area, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SE was resumed on 10 August 2015 at the finely adjusted monitoring location.
- 5.4.6. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.



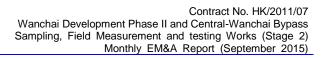
- 5.4.7. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014
- 5.4.8. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- 5.4.9. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- 5.4.10. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- 5.4.11. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- 5.4.12. As confirmed by WDII RSS and IEC, the cross harbour dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- 5.4.13. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
- 5.4.14. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
- 5.4.15. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- 5.4.16. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- 5.4.17. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at

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relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.

- 5.4.18. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 5.4.19. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- 5.4.20. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- 5.4.21. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
- 5.4.22. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 5.4.23. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.24. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.
- 5.4.25. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 5.4.26. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.





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5.4.28. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.

Contract No.	Remaining DP3 and work area(s)	Relevant Water Monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1 ¹	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 ¹ , C1 ¹	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 ³ , P3 ³ , P4 ³ , P5 ³	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 ⁴ , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 ⁴ , C7 (plus enhanced DO monitoring)	Mar 2014

Table 5.12 Water Monitoring Stations for contracts with respect to remaining DP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Remarks:

-The water monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.

-4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring.

-Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)

-Enhanced DO Monitoring at C6 since the intake abandon in May 2011.

- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> HKCEC

5.4.29. Water monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.13* below.

 Table 5.13
 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C1	HKCEC Extension	835885.6	816223.0	

Remarks:



- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013

<u>Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II –</u> <u>Central – Wan Chai Bypass at WanChai East</u>

5.4.30. Water monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.14* below.

Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C1	HKCEC Extension	835885.6	816223.0	
Cooling Water Intake / WSD Salt Water Intake				
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/WSD Wanchai salt water intake	836268.0	816020.0	

Table 5.14Water Monitoring Stations for Contract no. HK/2009/02

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8 Feb 2012.
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

<u>Contract no. HK/2012/08 - Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

5.4.31. Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in *Table 5.15* below.

 Table 5.15
 Water Monitoring Stations for Contract no. HK/2012/08

Station Ref.	Location	Easting	Northing	
WSD Salt Water Intake				
WSD19 Sheung Wan 833415.0 816771.0				



Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
P1	HKCEC Phase I	835774.7	816179.4	
P3	The Academy of performing Arts	835824.6	816212.0	
P4	Shui on Centre	835865.6	816220.0	
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2	

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter</u> <u>Section)</u>

- 5.4.32. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 5.4.33. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations are summarized in Table 5.16 below.
- 5.4.34. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

 Table 5.16
 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing			
Cooling Water Intake						
C7	Windsor House	837193.7	816150.0			

Remarks:

- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

- 5.4.35. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012.
- 5.4.36. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.



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- 5.4.37. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 5.4.38. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.39. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 was terminated effective from 26 May 2011.
- 5.4.40. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 5.4.41. Water monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in <u>Appendix 5.4</u>.

Water				Mid-f	lood			Mid-ebb					
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	1	3	1	0	0	0	1	2	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	1	0	0	0	0	0	1	0	0
HY/2009/15 & HY/2010/08	C7	0	0	1	1	0	0	0	0	0	0	0	0
Total		0	0	2	5	1	0	0	0	1	3	0	0

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.



- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- Silt screen at WSD19 was removed since 15 September 2015.
- 5.4.42. There was 3 action and 8 limit level exceedances, and 1 action and no limit level exceedance recorded in the reporting month. Investigation found that the exceedance was not related to Project works. The details of recorded exceedance can be referred to the **Section 6.4**.
- 5.4.43. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table 5.18*.

	Contract Water Menitoring		Mid-flood		ebb
Contract no.	Water Monitoring Station	D	С	DO	
	Clation	AL	LL	AL	LL
	C6	0	0	1	0
HY/2009/15	Ex-WPCWA SW	1	5	2	3
	Ex-WPCWA SE	0	1	1	0
Total		1	6	4	3

Table 5.18Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting Month

- 5.4.44. There were 5 action level and 9 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances were not related to Project works. The details of recorded exceedances can be referred to the **Section 6.4**.
- 5.4.45. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the



requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored. Details of additional DO monitoring results can be referred in *Appendix 5.4.*

- 5.4.46. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 5.4.47. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.

5.5 Waste Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

5.5.1. No inert C&D waste and non- inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.19.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	62116.405	TKO137, TM38
Inert C&D materials recycled, m ³	NIL	5856.5	N/A
Non-inert C&D materials disposed, m ³	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau

Table 5.19	Details of Waste Disposal for Contract no. HK/2009/01
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Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

5.5.2. There were no marine sediment Type 1- Open Sea Disposal and no marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East</u>

5.5.3. No inert C&D waste and Non-inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.20.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	276075.1	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	240222* (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL	146445 (Bulk volume)	East of Sha Chau

Table 5.20 Details of Waste Disposal for Contract no. HK/2009/02

*Remark: The cumulative quantity of Type 1 – Open Sea Disposal was updated in this reporting month.

5.5.4. There were no marine sediment Type 1 – Open Sea Disposal and no Type 1 Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal disposed in this reporting month.



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

5.5.5. No Inert C&D waste and no non- inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.21*

Table 5.21 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m ³	NIL	141579.2	Tuen Mun Area 38	NIL
uisposed, m	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m ³	NIL	304	Ex-PCWA	NIL
recycled, m	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk Volume)	137072 (Bulk Volume)	Cheung Chau South	Dredging from TCBR1E / TCBR1W / TCBR2/TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	5684 (Bulk Volume)	312859 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1E / TCBR1W / TCBR2/TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) m ³	NIL (Bulk Volume)	12640 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m ³	NIL	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Disposal) , m3				
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

5.5.6. There were Type 1 Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed, and no Type 1 Open Sea Disposal disposed in this reporting month.

Contract no. HY/2009/19 –Central- WanChai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.5.7. No inert C&D waste and non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.22.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	355921.04	TM38
Inert C&D materials recycled, m ³	NIL	59367	N/A
Non-inert C&D materials disposed, m ³	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	162	South Cheung Chau
$\begin{array}{l} \mbox{Marine Sediment (Type 2 - Confined Marine Disposal)},\\ \mbox{m}^3 \end{array}$	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	

Table 5.22 Details of Waste Disposal for Contract no. HY/2009/19

5.5.8. There was no marine sediment Type1- Open Sea Disposal and there was no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.



<u>Contract no. HK/2012/08 –Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

5.5.9. There was no Inert C&D waste and no non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.23.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	4131	TM38
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	315	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL (Bulk volume)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

Table 5.23 Details of	Waste Dis	posal for Co	ontract no. H	HK/2012/08
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5.5.10. There were no Marine Sediment Type 1 – Open Sea Disposal and no marine sediment Type 1 – Open Sea Disposal (Delicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

Contract no. HY/2010/08 – Central - Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

5.5.11. No Inert C&D waste and no non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.24*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	267660.2	N/A
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	55290	South Cheung Chau / Brothers Island *



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	27760	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Remarks: Under the condition of EP/MD/15-169, dredged sediment required to dispose at South of the Brothers since 9 Feb 2015.

5.5.12. There was no Type 1 – Open Sea Disposal, Type 3 – Special Treatment and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.



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6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1.*

6.1 Noise Monitoring

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.1.1 No exceedance was recorded in the reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

6.1.2 No exceedance was recorded in the reporting month.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

6.1.3 No exceedance was recorded in the reporting month.

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

6.1.4 No exceedance was recorded in the reporting month.

Contract no. HY/2010/08 - Central-Wanchai Bypass - Tunnel (Slip Raod 8 Section)

6.1.5 No exceedance was recorded in the reporting month.

6.2 Real-time noise Monitoring

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.2.1. No limit level exceedance was recorded in the reporting month.

6.3 Air Monitoring

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.3.1 No exceedance was recorded in the reporting month.

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel)</u>

6.3.2 No exceedance was recorded in the reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

6.3.3 No exceedance was recorded in the reporting month.



6.3.4 No action and limit level was recorded for odour patrol during this reporting month.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 6.2.1. One action level exceedance was recorded at monitoring station CMA1b on 24 September 2015 during 24hr TSP monitoring in the reporting month.
- 6.2.2. After investigation, local ambient condition was considered as the major air quality contribution and the exceedance was considered as non- Project related. The Contractor was reminded to enhance all necessary dust suppression measure for construction works or potential dust surface for dry season transition.

Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West

6.2.3. No exceedance was recorded in the reporting month.

Contract no. HY/2010/08 - Central-Wanchai Bypass - Tunnel (Slip Raod 8 Section)

6.2.4. No exceedance was recorded in the reporting month.

6.4 Water Quality Monitoring

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.4.1 No exceedance was recorded in the reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

- 6.4.2 There were turbidity exceedances recorded at RW21-P789 on 4 and 11 September 2015 in the reporting month.
- 6.4.3 After checking with the contractor, despite loading of C&D materials at Portion 3 & 4 was conducted on 4 and 11 September 2015, contractor mitigation measures including the provision of tarpaulin sheet was generally in place. Silt screen at monitoring station was generally in order. In view of the above and no exceedances were recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

- 6.4.4 There were DO exceedances recorded at Ex-WPCWA SE on 29 August 2015 in the reporting month.
- 6.4.5 After checking with the contractor, despite excavated mud transhipment was conducted at Ex-WPCWA on 29 August 2015, the construction works conducted was generally in order with provision of tarpaulin sheet and while upstream discharge from nearby culvert was observed.



In view of no dredging or reclamation works activity was conducted, the exceedances were considered not related to the Project works.

- 6.4.6 There were occasionally DO exceedance was recorded at Ex-WPCWA SW on 29 and 31 August, 4, 7, 9, 16, 18, 24 and 26 September 2015 in the reporting month.
- 6.4.7 After checking with contractor, despite excavated mud transhipment was conducted at Ex-WPCWA on 29 August 2015, the construction works conducted was generally in order while upstream discharge from nearby culvert were consistently observed. In view of no dredging or reclamation works activity was conducted and no exceedance was recorded on the subsequent monitoring, the exceedances were considered not related to the Project works.
- 6.4.8 Despite rock filling works for the function of vertical seawall at East side of TPCWAE was conducted on 31 August 2015, the construction works conducted was generally in order while upstream discharge from nearby culvert was observed. In view of no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
- 6.4.9 Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on 4, 7, 9, 16 and 18 September 2015, contractor mitigation measures including the use of silt curtain was general in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and the construction works was conducted according, the exceedance was considered not related to Project works. Nevertheless, Contractor was reminded to ensure sufficient water circulation to eliminate any potential effect to the water quality within the area.
- 6.4.10 No marine activity was conducted at Ex-WPCWA on 24 and 26 September 2015. Upstream discharge from nearby culvert was observed. In view of no marine activity was conducted, the exceedance was considered not related to Project works.
- 6.4.11 There was DO exceedance recorded at monitoring station C6 on 31 August 2015 in the reporting month.
- 6.4.12 After checking with contractor, despite rock filling works for the function of vertical seawall at East side of TPCWAE was conducted under Contract HY/2009/15 on 31 August 2015, the construction works conducted was generally in order. In view of no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
- 6.4.13 There was occasionally turbidity exceedances recorded at monitoring station C7 on 14 and 18 September 2015 in the reporting month.
- 6.4.14 After checking with contractor, no marine works was conducted in the vicinity of water quality monitoring station on 14 and 18 September 2015. In view of no marine activity was conducted on the monitoring date and no exceedances were recorded in the subsequent monitoring, the exceedance was considered not related to Project.



Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.4.15 No exceedance was recorded in this reporting month.

Contract no. HK/2012/08- Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

- 6.4.16 There was turbidity exceedance recorded at WSD19 on 2, 4, 7, 14 and 16 September 2015 in the reporting month.
- 6.4.17 After checking with contractor, despite loading of sorted public fill from barge to land and placing of levelling stones were conducted on 2 September 2015, contractor mitigation measures including the use of silt curtain was generally in place. In view of the above and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.
- 6.4.18 After checking with contractor, despite placing of seawall blocks was conducted on 4 and 16 September 2015, contractor mitigation measures including the use of silt curtain was generally in place. In view of the above, it was considered that the exceedance was not project related.
- 6.4.19 After checking with contractor, despite placing of levelling stones was conducted on 7 September 2015, contractor mitigation measures including the use of silt curtain was generally in place. In view of the above, it was considered that the exceedance was not project related.
- 6.4.20 After checking with contractor, no marine activity was conducted on 14 September 2015. In view of no marine activity conducted, it was considered that the exceedances were not project related.

Contract no. HY/2010/08 – Central - Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

- 6.4.21 There was DO exceedance recorded at monitoring station C6 on 31 August 2015 in the reporting month.
- 6.4.22 After checking with contractor, no marine works was conducted on 31 August 2015. In view of no marine activity and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
- 6.4.23 There was occasionally turbidity exceedances recorded at monitoring station C7 on 14 and 18 September 2015 in the reporting month.
- 6.4.24 After checking with contractor, no marine works was conducted in the vicinity of water quality monitoring station on 14 and 18 September 2015. In view of no marine activity was conducted on the monitoring date and no exceedances were recorded in the subsequent monitoring, the exceedance was considered not related to Project.



6.5 Review of the Reasons for and the Implications of Non-compliance

- 6.5.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.5.2 No non-compliances from monitoring was recorded in the reporting month.

6.6 Summary of action taken in the event of and follow-up on non-compliance

6.6.1 There was no particular action taken since no non-compliance was recorded from the site audits in the reporting period.



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7. Cumulative Construction Impact due to the Concurrent Projects

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, construction of ELS and pipe pile wall, road works, drainage works and Road P1 works were performed in September 2015 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works, ELS works and culvert construction at Wan Chai East and caisson installation, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, ELS works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, D- wall construction and ELS works at TS3, IEC demolition and tunnel works at North Point area in the reporting month.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HK/2009/01 were conducted on 2, 9, 17, and 23 September 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.1.*

Item	Date	Observations	Action taken by Contractor	Outcome
150902_01	2-Sep-15	Gaps and holes shall be covered to prevent soft material being washed into the sea from heavy rain in Area 8.	Gaps and holes were covered in Area 8.	Completion as observed on 9 September 2015
150902_02	2-Sep-15	Oil containers shall be properly handled and removed on site.	Oil containers were removed and properly stored in storage area.	Completion as observed on 9 September 2015
150917_01	17-Sep-15	Floating refuse shall be collected at water channel near Expo Drive East	Floating refuse was collected.	Completion as observed on 23 September 2015

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2009/01

8.0.3. Four site inspections for Contract no. HK/2009/02 were carried out on 2, 10, 16 and 24 September 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.2*.

ltem	Date	Observations	Action taken by Contractor	Outcome
150902_01	2-Sep-15	Floating refuse shall be collected at RW21-P789 station.	Floating refuse was collected at RW21-P789 intake area.	Completion as observed on 10 September 2015
150910_01	10-Sep-15	Drip tray at Portion 3&4 shall properly maintained.	Drip tray was properly maintained at Portion 3&4.	Completion as observed on 16 September 2015
150924_01		Frequent maintenance of water treatment facility at Portion 3 & 4 shall be maintained to ensure good functionality on silt removal and shall block any potential seepage point.	Water treatment facility at Portion 3&4 was properly maintained and has blocked any potential seepage point.	September 2015

Table 8.2	Summar	y of Environmenta	l Inspections fo	or Contract no	HK/2009/02
Table 0.2	Summar		i mapecuona ic		111/2003/02

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 1, 8, 15 and 22 September 2015 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.



Table 8.3	Summarv	of Environmental	Inspections for	r Contract no.	HY/2009/15
1 4010 010	Gammary			001111 401 1101	111/2000/10

ltem	Date	Observations	Action taken by Contractor	Outcome
150915_1	15-Sep-2015	Provide watering to dusty haul road (EX-PCWAW North)	Watering was provided with haul road after cleaning	Completion as observed on 22 September 2015

- 8.0.5. Four site inspections for Contract no. HY/2009/19 were carried out on 2, 9, 16 and 23 September 2015 in reporting month. No particular findings were observed in this reporting month.
- 8.0.6. Four site inspections for Contract no. HK/2012/08 were carried out on 1, 8, 15 and 23 September 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.5*

ltem	Date	Observations	Action taken by Contractor	Outcome
150901_01	1-Sep-15	Drip tray shall be provided for oil containers at Portion 1A	Drip tray was provided for oil container at Portion 1A.	Completion as observed on 8 September 2015
150908_01	8-Sep-15	Oil stain in Zone B shall be cleaned.	Oil stain was removed in Zone B.	Completion as observed on 15 September 2015
150915_01	15-Sep-15	Cleaning at gate exit shall be properly implemented to avoid any muddy water on public road and nearby storm drainage manhole.	The cleaning procedure was implemented orderly on site and gate exit.	Completion as observed on 23 September 2015
150915_02	15-Sep-15	Floating refuse shall be collected at Zone D.	Floating refuse was cleared.	Completion as observed on 23 September 2015
150923_01	23-Sep-15	General waste next to MVB area shall be cleaned and collected regularly.	General waste has cleaned up at the area next to MVB.	Completion as observed on 29 September 2015.

 Table 8.5
 Summary of Environmental Inspections for Contract no. HK/2012/08

8.0.7. Four site inspections for Contract no. HY/2010/08 were carried out on 2, 11, 17 and 24 September 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.6*



Lam Geotechnics Limited

ltem	Date	Observations	Action taken by Contractor	Outcome
150702_1	2-Jul-15	Hoarding provided along the covered pedestrian walkway shall be of at least 2.4m tall according to the APCO requirement (TS3)		Pending for Contractor follow up action
150902_1	2-Sep-15	Embankment shall be provided to avoid seepage of muddy water to public walkway. Muddy water on public walkway shall be cleaned (TS3)	Additional embankment have been provided	Completion as observed on 11 September 2015
150902_2	2-Sep-15	Surface overflow of contaminated effluent was observed. The embankment shall be reinforced and the mud deposit at the boundary shall be cleaned (TS3)	Mud residue was cleared and the embankment was reinforced	Completion as observed on 11 September 2015
150902_3	2-Sep-15	Grouting effluent discharge shall be connected to waste water treatment plant before discharge (Victoria Park)	No further grouting discharge was observed	Completion as observed on 11 September 2015
150911_1	11-Sep-15	Drip tray shall be provided to the chemical container stored on-site (TS3)	Chemical container have been removed	Completion as observed on 24 September 2015
150911_2	11-Sep-15	Proper surface drainage shall be maintained to avoid seepage of surface effluent through seawall by proper collection (TS3)	Effluent was connected to water treatment system	Completion as observed on 17 September 2015
150924_1	24-Sep-15	Muddy water seepage was observed. Contractor shall provide preventive and mitigation measure to ensure no muddy water seepage and cause contamination to nearby water (TS3)	Effluent was connected to water treatment system before discharge	Completion as observed on 2 October 2015
150924_2	24-Sep-15	Clean the mud sitting on the edge of seawall (TS3)	Mud sitting on the edge of seawall was cleaned	Completion as observed on 2 October 2015
150924_3	24-Sep-15	Provide cleaning to public road (TS3 cover walkway and TS3)	Cleaning of public road was provided	Completion as observed on 2 October 2015

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2010/08



9. Complaints, Notification of Summons and Prosecution

- 9.0.1. Three environmental complaints were received in this reporting month.
- 9.0.2. A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)

ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.

According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

9.0.3. Second public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08)



ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation.

From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.

Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.

From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.

In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of



HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.

The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

9.0.4. The third public complaint regarding water quality referred by EPD was received by ET on 17 September 2015. The complainant reported that Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan Chai, Hong Kong).

Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.

In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.

- 9.0.5. The details of cumulative complaint log and updated summary of complaints are presented in <u>Appendix 9.1</u>
- 9.0.6. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.



Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	37
September 2015	3
Total	40

Table 9.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0



10. Conclusion

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

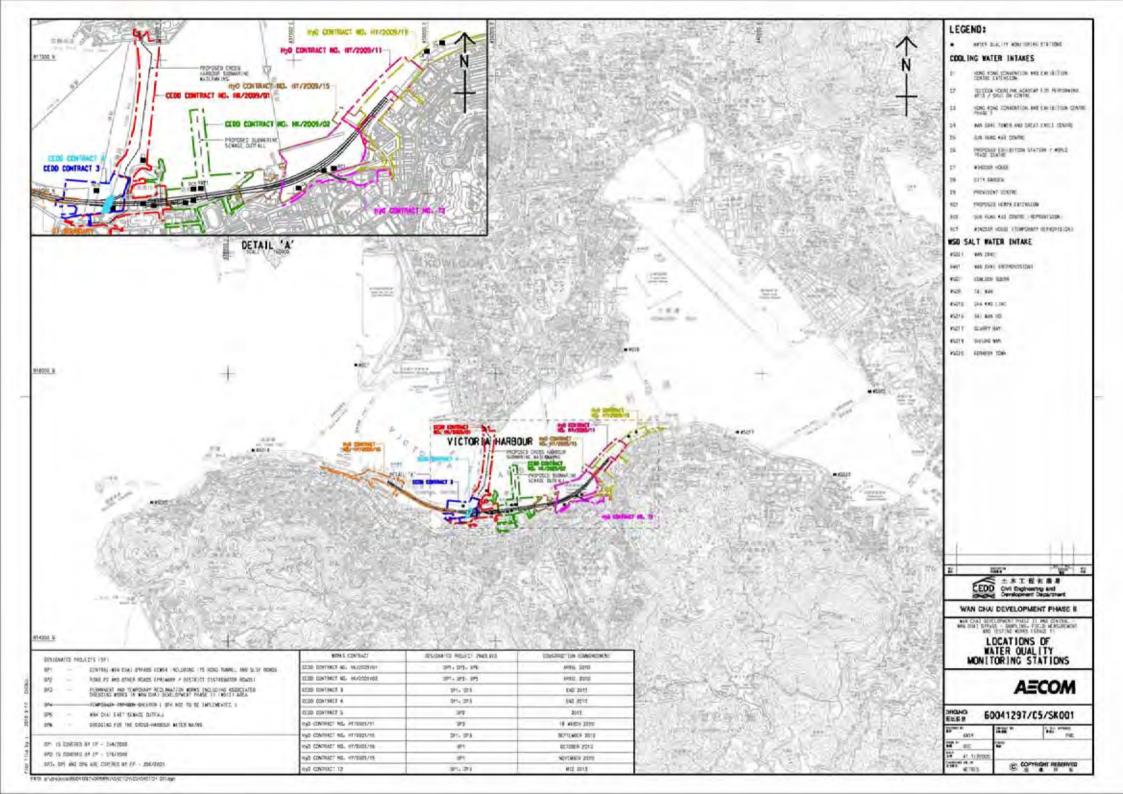
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Nil	• Nil
HK/2009/02	 Backfill behind Seawall Reclamation Demolition of remaining part of existing Wan Chai Ferry Pier 	 Daily visual inspection of silt screen and silt curtain to ensure its operation properly. Implement silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/15	Reinstatement of vertical seawall at TPCWAE	Daily visual inspection of silt screen and silt curtain to ensure its operation properly
		 Implement silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/19	• Nil	• Nil
	Dry dock constructionInstallation of pipe pile wallConstruction of culvert	 To conform the installation and setting as in the silt screen and silt curtain deployment plan To space out noisy equipment and
HK/2012/08		position as far as possible from sensitive receiver.
		 Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2010/08	Diversion pipe maintenance	 To conform the installation and setting as in the silt screen and silt curtain deployment plan
111/2010/00		 Daily visual inspection of silt screen and silt curtain to ensure its operation properly

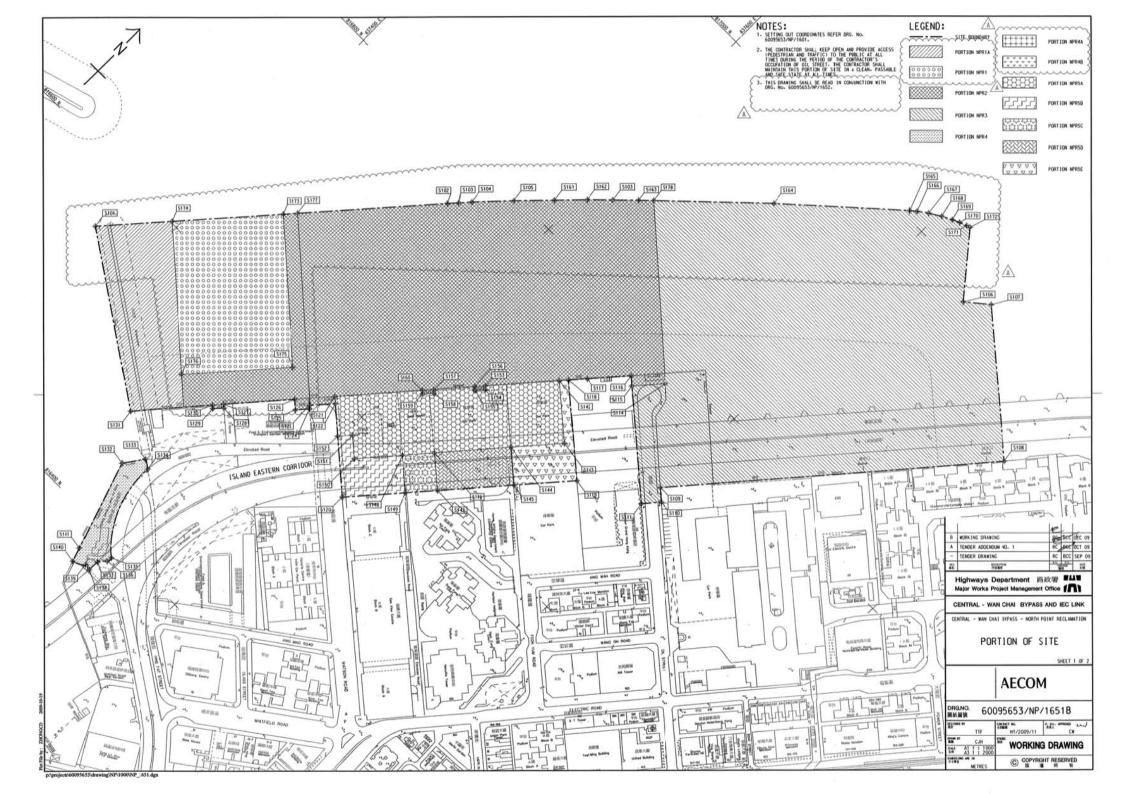
Table 10.1Construction Activities and Recommended Mitigation Measures in Coming
Reporting Month

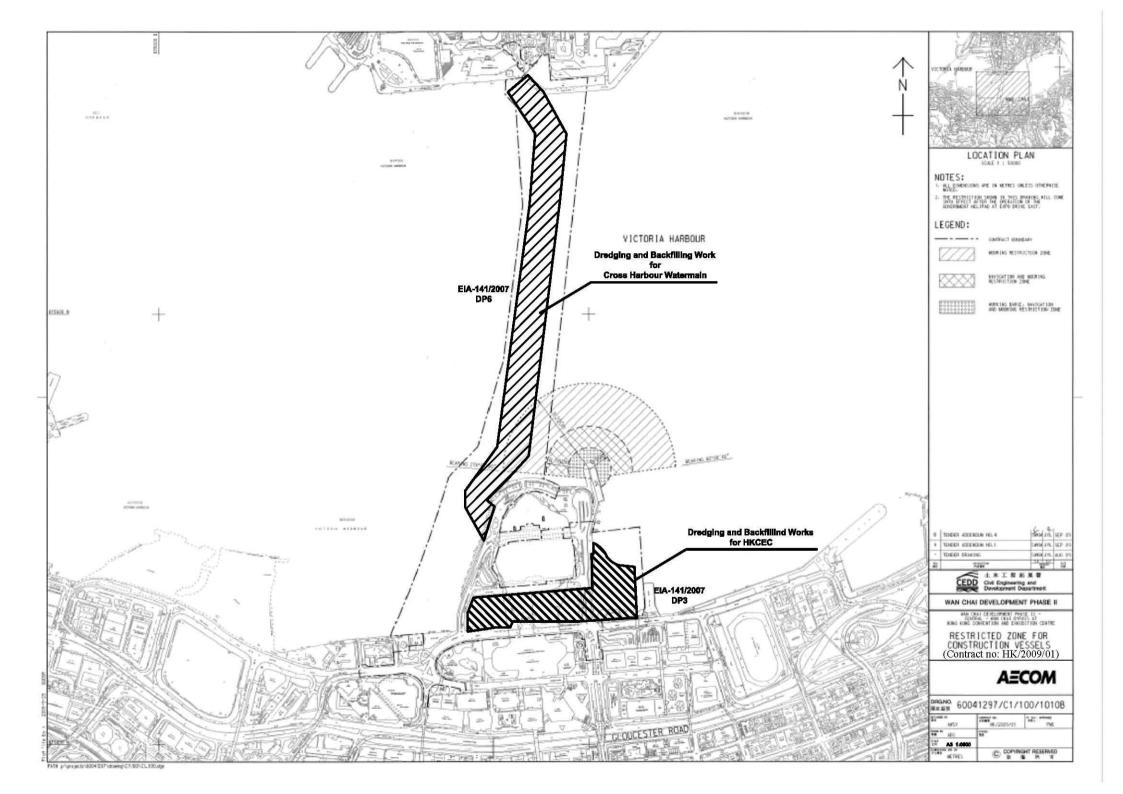


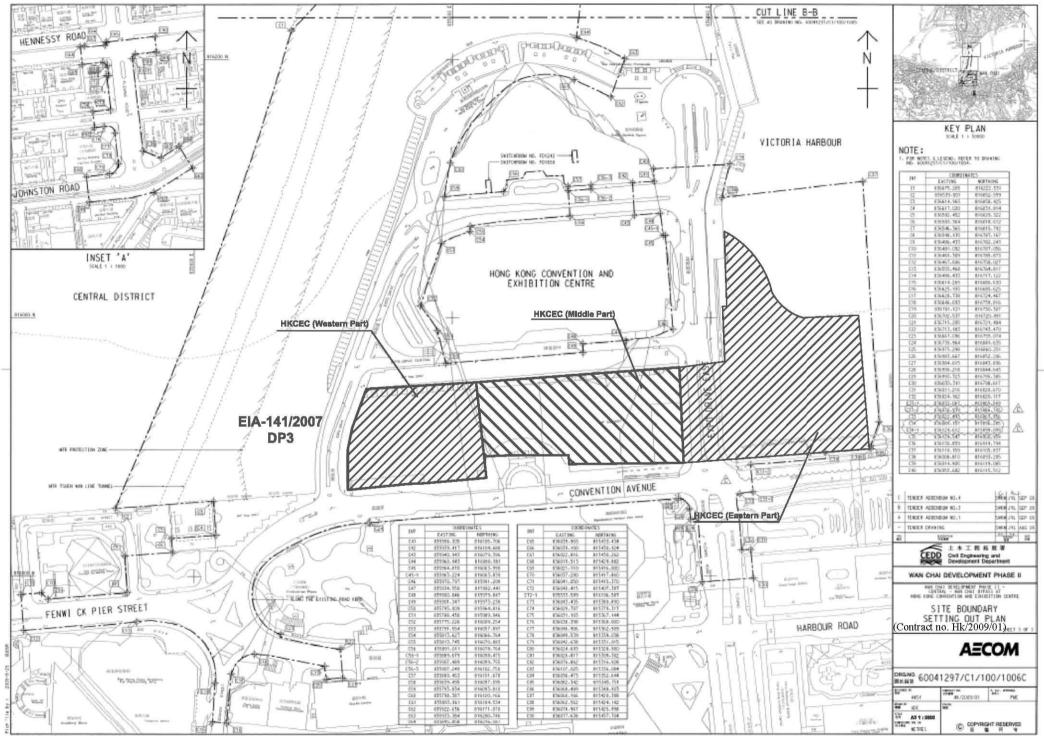
Figure 2.1

Project Layout

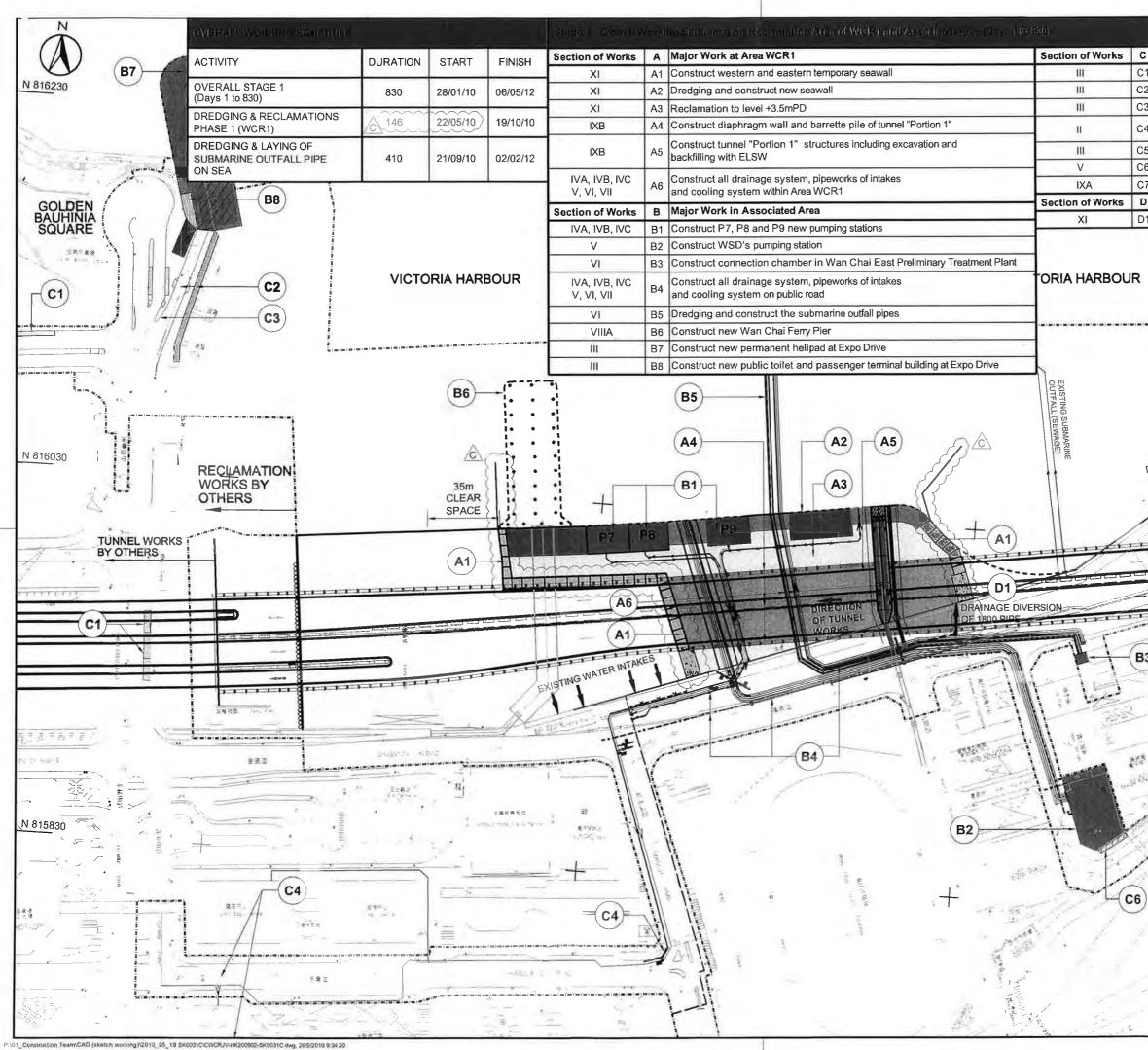




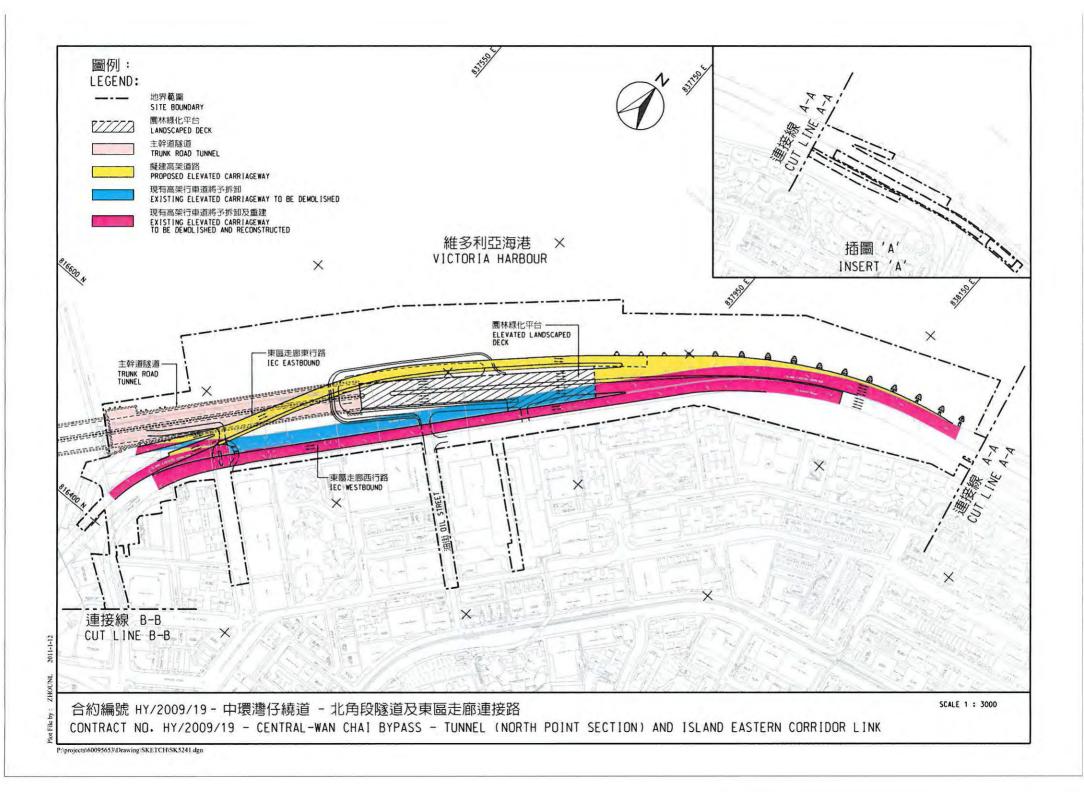


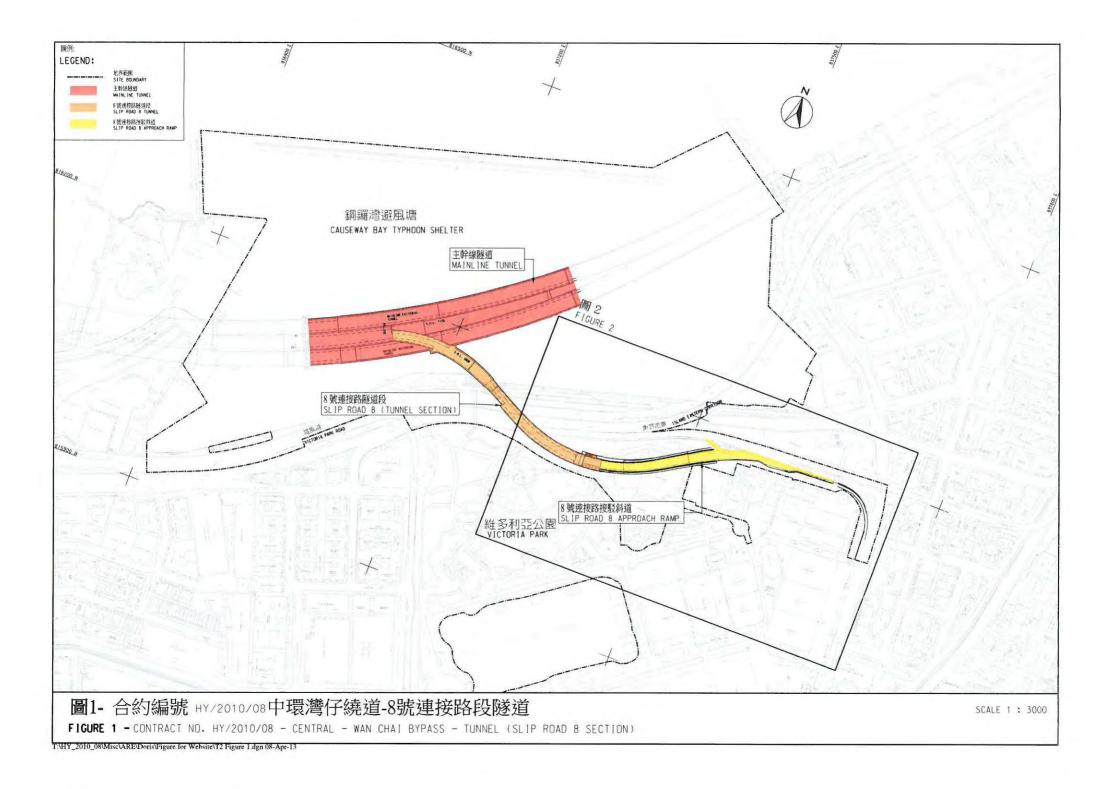


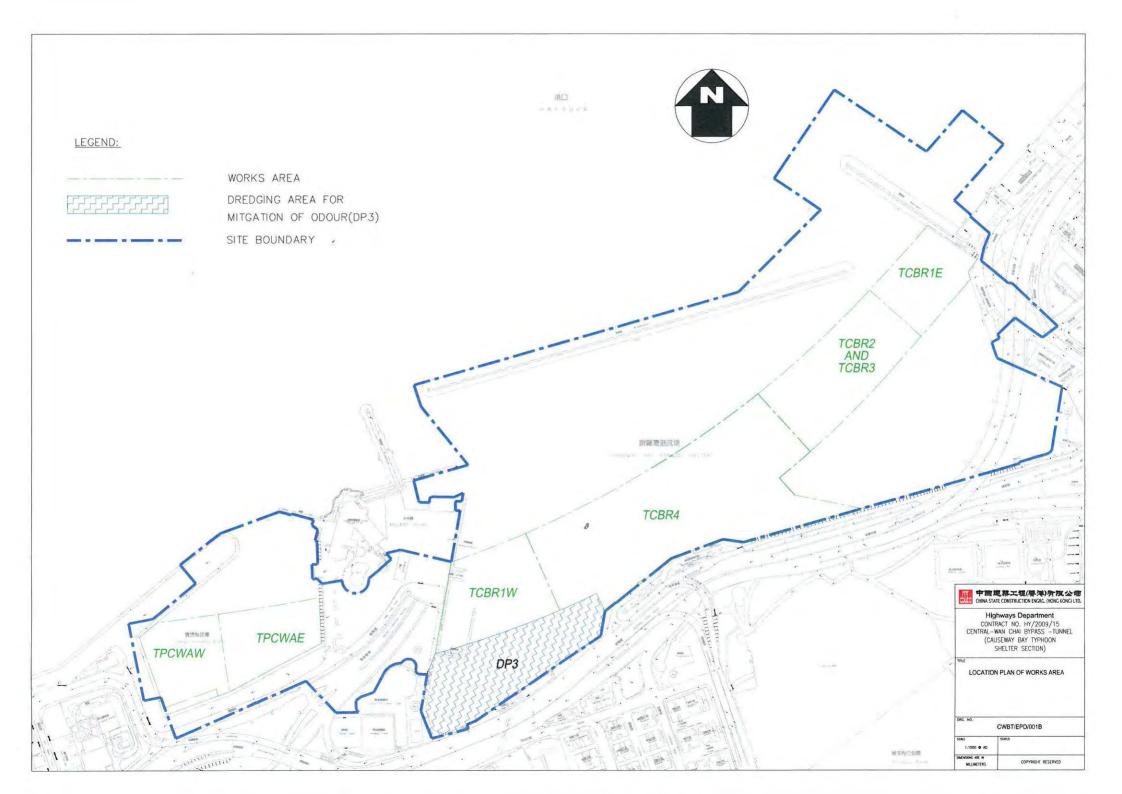
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С	Other Miscellaneous Works	
C1	Construct new taxi and coach bus I	parking space at Expos Drive East
C2		all and provide new EVA at Expo Drive
C3	Road re-alignment work on existing	
C4	Road improvement work at junction	of Harbour Road /
-	Tonnochy Road and Fleming Road	
C5	Demolition of existing above groun	
C6	Demolition of existing staircase of f	
C7	Demolition of existing temporary he	sipad at ex-PCWA
D1	Other Temporary Works Divert existing 1800 mm diameter of	Irain nine
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ED	XISTING SCHARGE	
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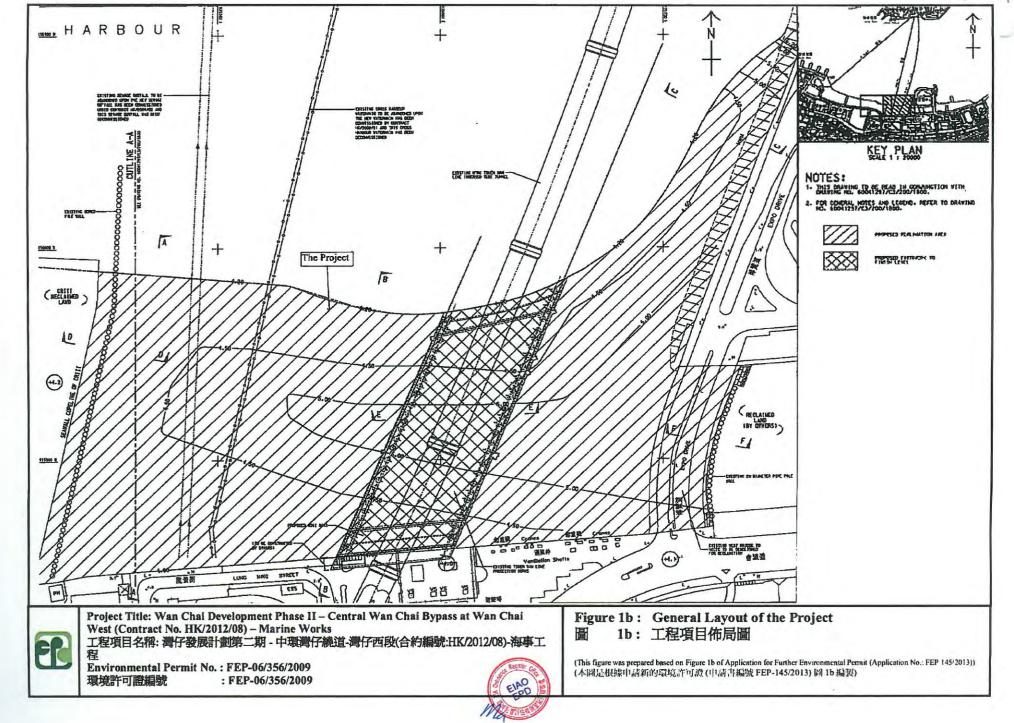




Figure 2.2

Project Organization Chart



Project Organization Chart

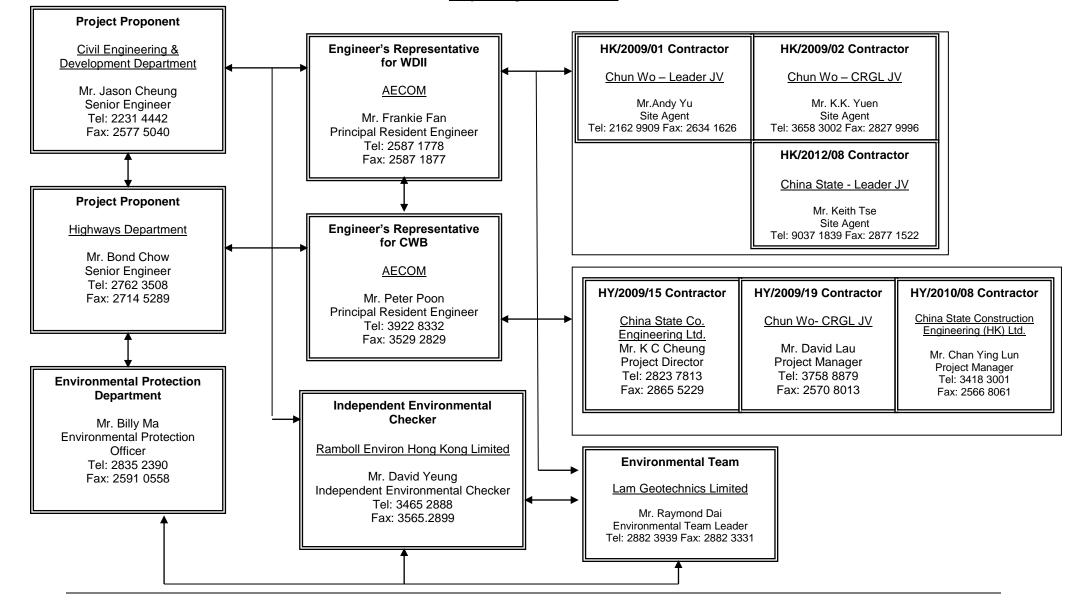
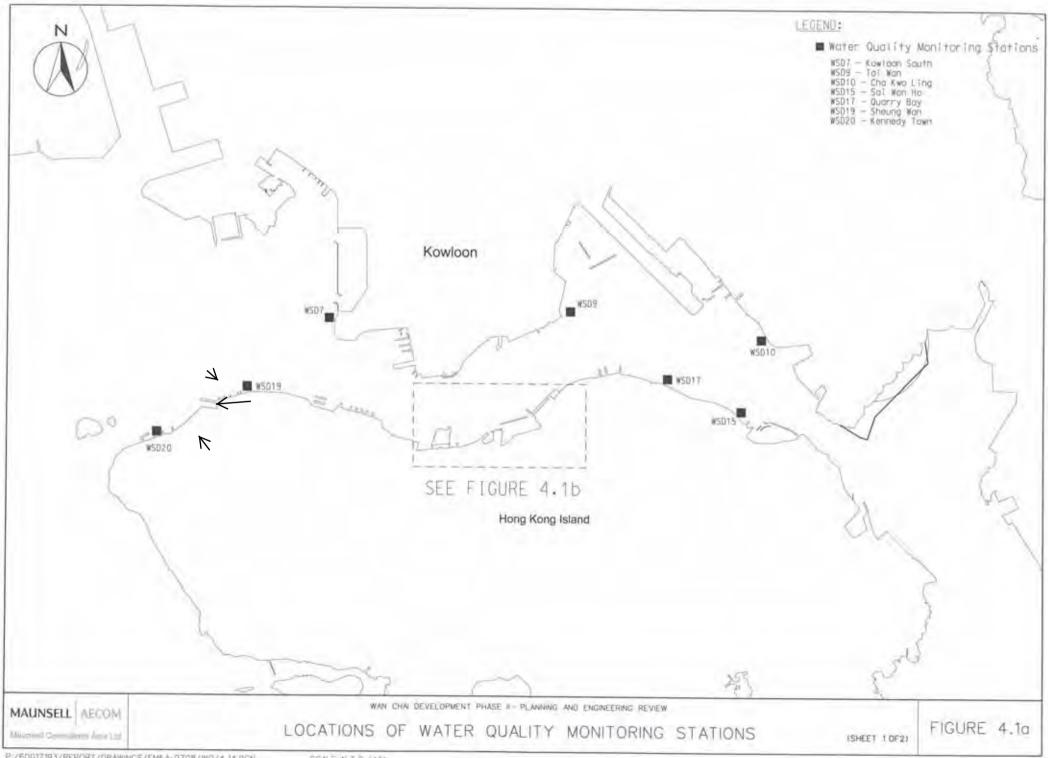




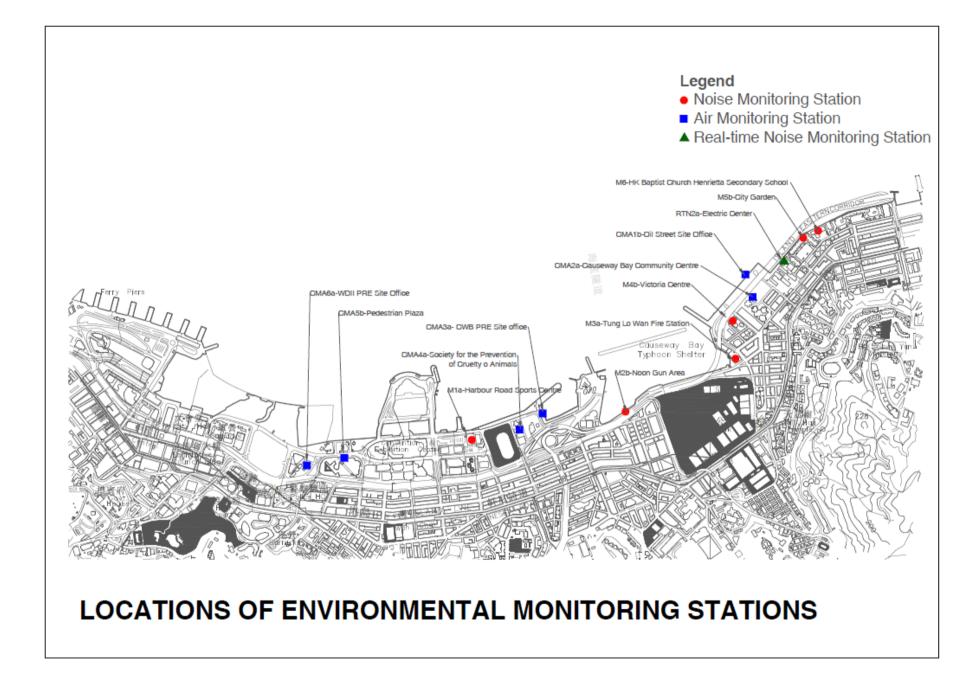
Figure 4.1

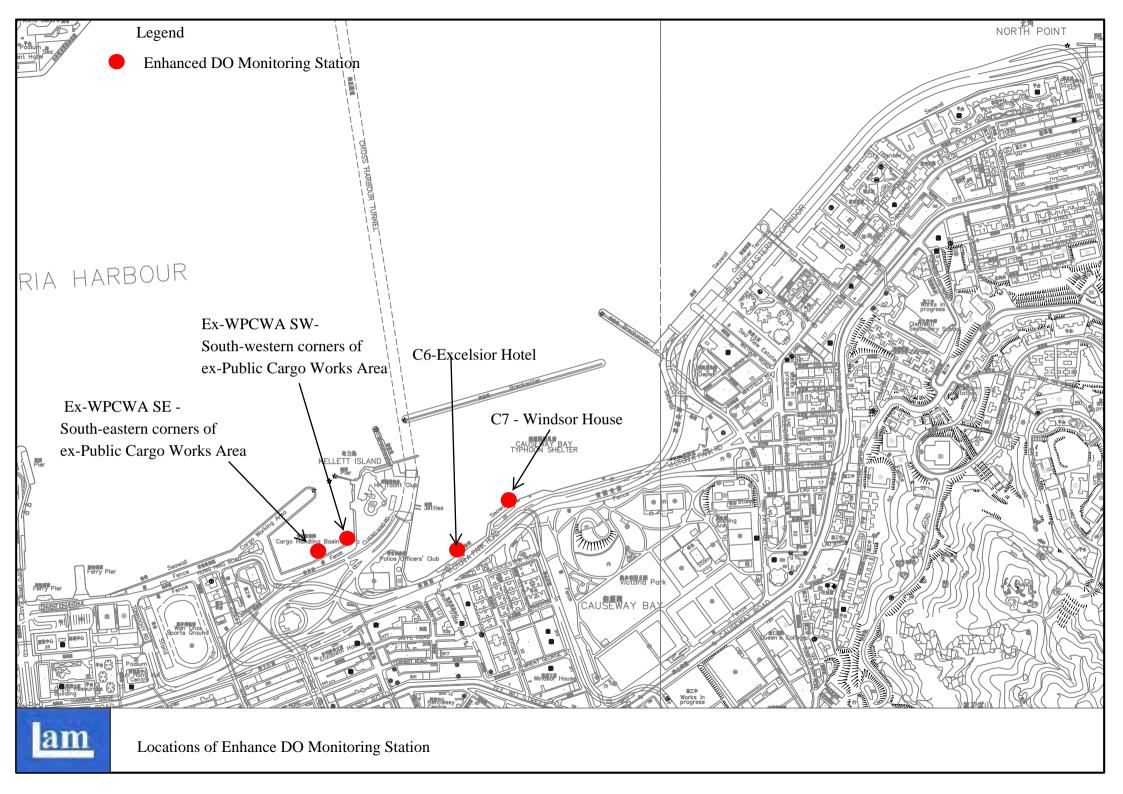
Locations of Monitoring Stations

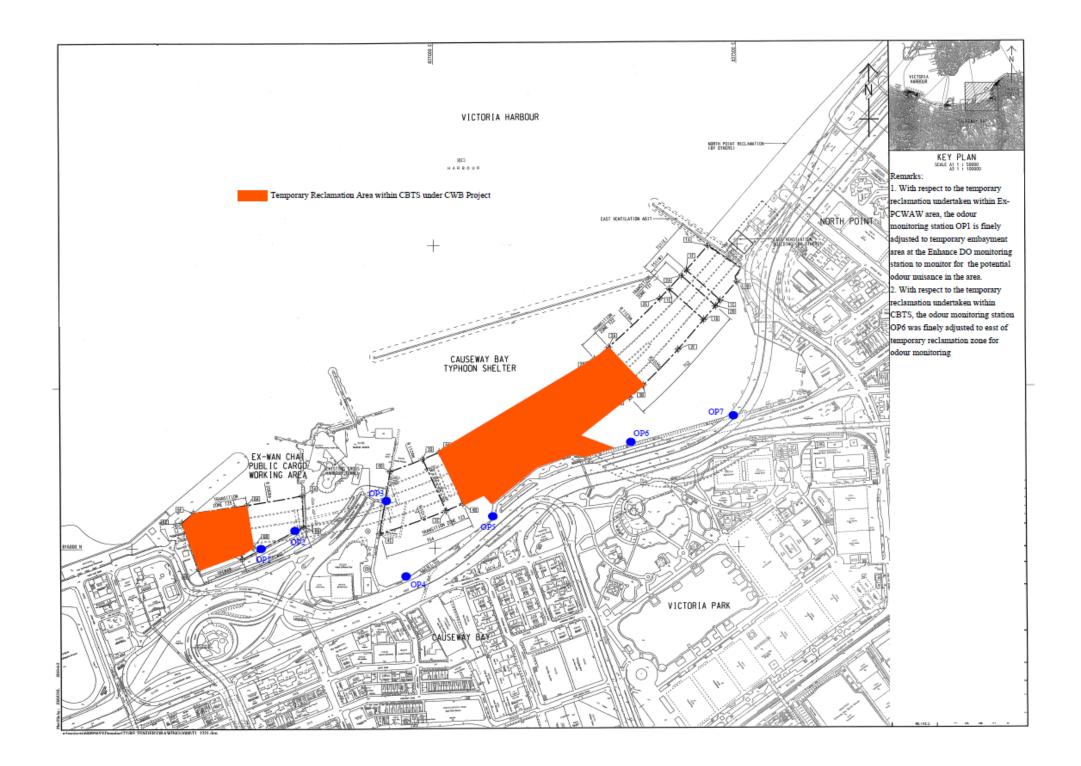


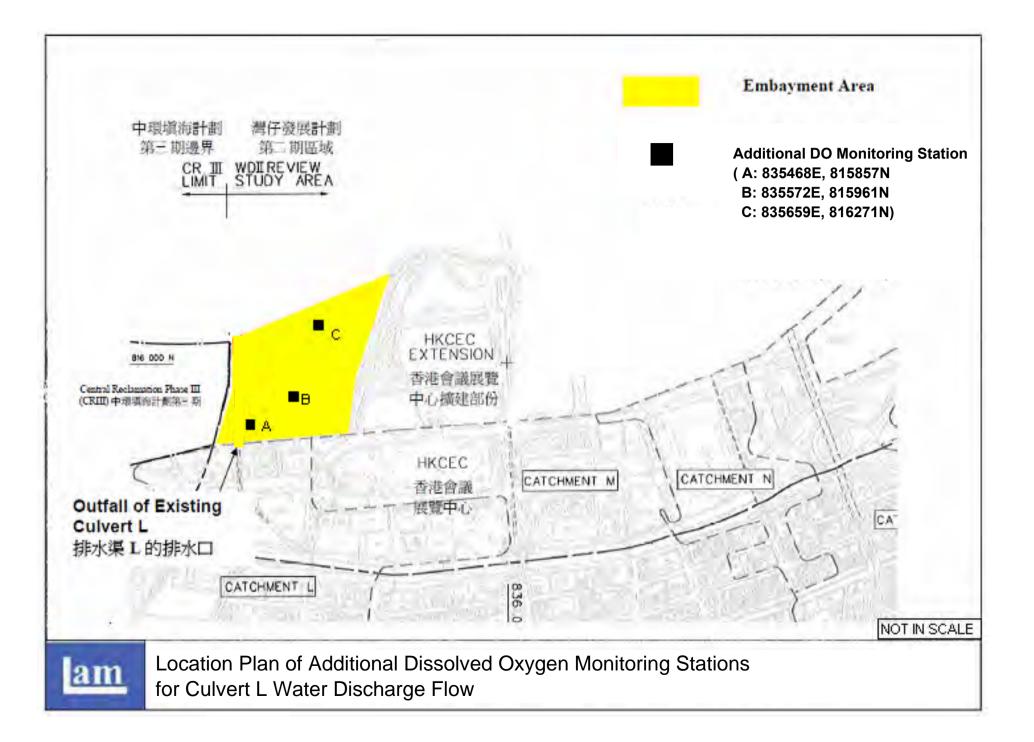
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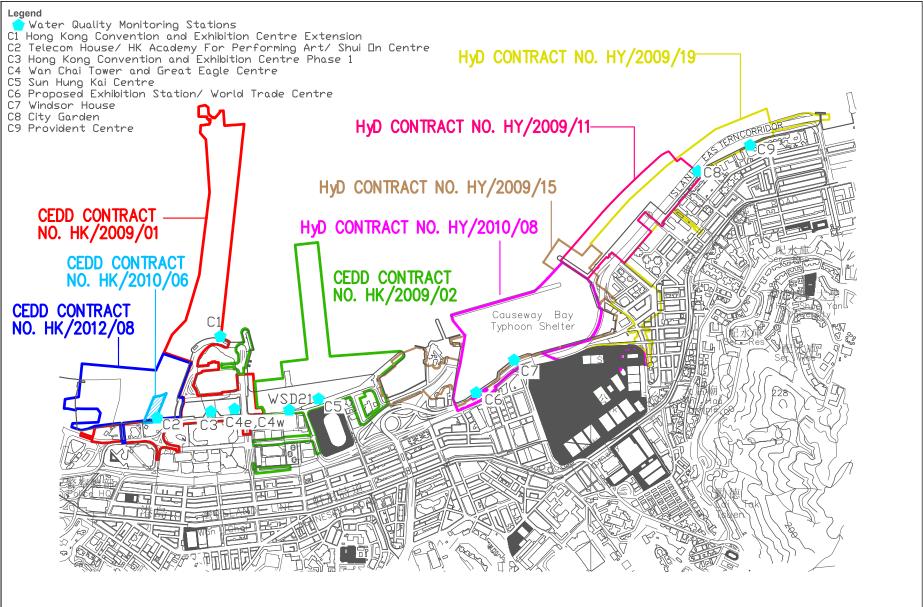
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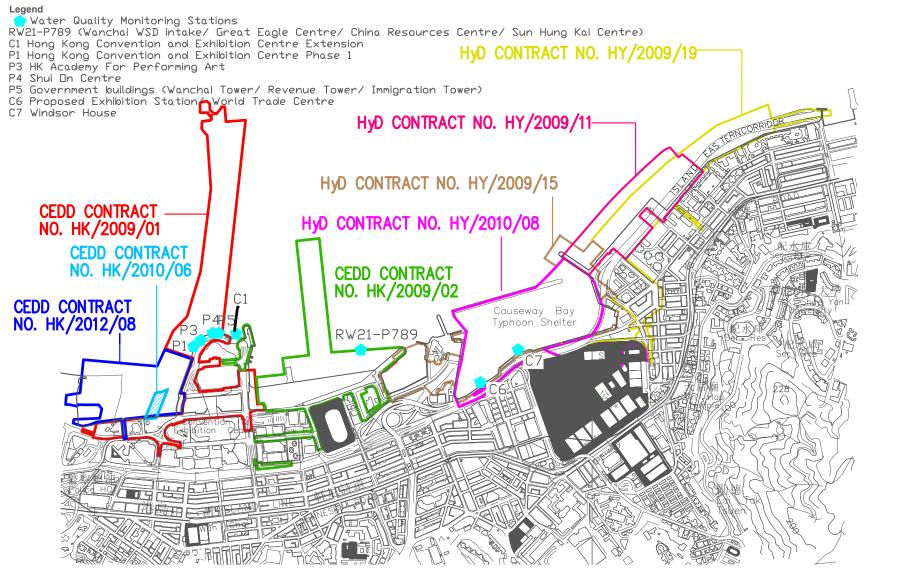




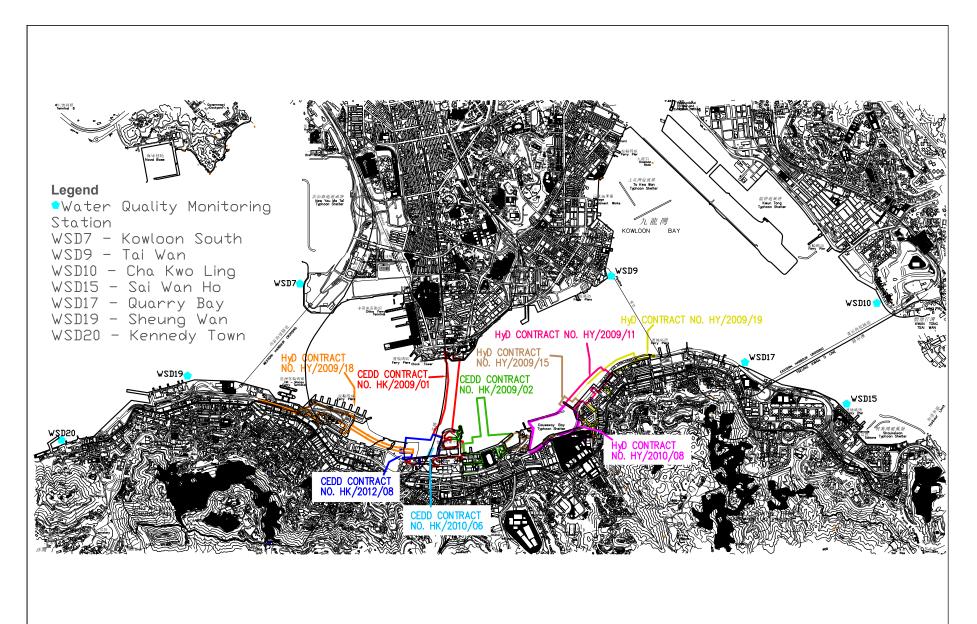




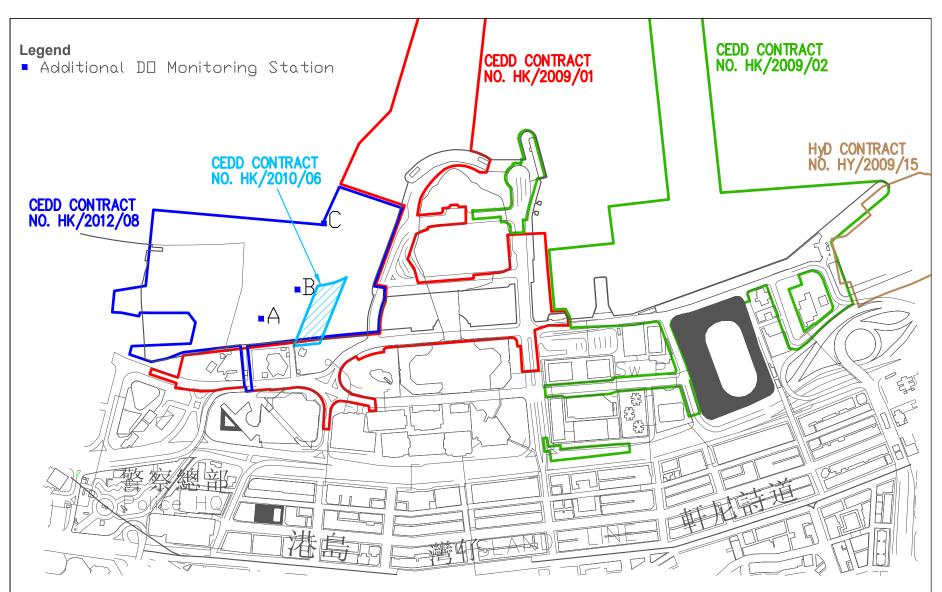
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF ADDITIONAL DISSOLVED OXYGEN MONITORING STATIONS FOR CULVERT L WATER DISCHARGE FLOW



Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Implementation	Schedule for	Air Quality	Control
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EIA Ref	Environmental Protection Measures / Mitigation Measures Location / Timing	C Agent						Implementation Stages*	
			Agent	Des	С	0	Dec	and Guidelines	
Constructio									
For the Wh								1	
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM	
S3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		V				

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*		on	Relevant Legislation
201100	Zivi omenni i orecuon viensu es / vienganon vienou es	Location, Timing	Agent	Des	С	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD ¹		√			EIAO-TM
\$3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation I For the Who		·						·

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*		on	Relevant Legislation
LETRE	Environmental Protection Preusares / Pringation Preusares	Docution / Thining	Agent	Des	С	0	Dec	and Guidelines
\$3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 -	CWB (Within the Project Boundary)		·					
\$3.6.53 – \$3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

• Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	T	entati ges*	on	Relevant Legislation
LIA KEI			Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
For the Who	ole Project							

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation			
		Docution, Thing	Agent	Des	С	0	Dec	and Guidelines			
S4.9.4	Good Site Practice:	Work Sites / During	Contractor		\checkmark			EIAO-TM, NCO			
	 Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. 	Construction									
	 Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. 										
	• Mobile plant, if any, shall be sited as far away from NSRs as possible.										
	 Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 	intermittent use shall be shut down between works periods									
					1						
	• Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on- site construction activities.										
For DP1 _ (CWB (Within the Project Boundary)										

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*		on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
\$4.8.3 – \$4.8.5	 Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction Substructure for IECL connection 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP2 –	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP3 –	Reclamation Works							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task: Filling behind seawall Seawall construction	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

Wan Chai Development Phase II and Central-Wanchai Bypass

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
	Environmental Protection Measures / Margaron Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
For DP5 -	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		N			EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 - 0	CWB (Within the Project Boundary)							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
S4.8.14 – S4.8.18	 For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 3.5m high vertical noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD HyD	1	√ #	V		EIAO-TM

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				Des	С	0	Dec	
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	Tin Hau Temple					

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

* Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

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- Sampling, Field Measurement and Testing Works (Stage 2)

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation
	Linn omnenna i roscenon fransaros / franganon fransaros	Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to 1	Tsim Sh	a Tsu	i), DP.	1 - CW	B (within the Project
Boundary) S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
\$5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures /	Location /	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation		
		Timing	Agent	Des	С	0	Dec	and Guidelines		
S5.8	The water body behind the temporary re typhoon shelter shall not be fully enclose	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
95.0		XX 1								
S5.8	As a mitigation measure, to avoid the ac within the temporary embayment b impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The ban discharge flows from Culvert L to th contractor will maintain this barrier HKCEC2W are carried out and the new	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
S5.8, Figure 5.3	The total dredging rates in each of the n than the maximum production rates stat production rates without considering the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
	Reclamation Area	Maximum Dredgir Rate m ³ per day (for 16 h	Maximum Dredging Rate (m ³ per							
	Dredging along seawall or breakwater	1								
	North Point Shoreline Zone (NPR)	6,000 375	42,000	1						
	Causeway Bay TBW Shoreline Zone TCBR	1,500 94	10,500	1						
	Shoreline Zone TCBR PCWA Zone	6,000 375 5,000 313	42,000							
l	L MA LONG	5,000 313	55,000							

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EIA Ref	Environmental Protection Measures / Mitigation Measures			Location /	Implementation	Implementation Stages*				Relevant Legislation	
EIA Ku	Livit officerul 1 forection (reusares) (viritgation reasures				Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Stage 1 & 3	6,000 1,500	375 94	42,000 10,500							
	(HKCEC) HKCEC Stage 2	6,000	375	42,000							
	Cross Harbour Water Mains	1,500	94	10,500							
	Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500							
	Note: $1,500 \text{ m}^3$ per day shall be appl seawall of WCR1.										
S5.8, Figure 5.3	Dredging along the seawall at WCR 1,500m ³ per day for construction of the proximity of the WSD intake), followed western seawall (above high water mari much as possible from further dredging a	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
S5.8, Figure 5.3	For dredging within the Causeway Ba partially constructed to protect the ne dredging activities. For example, at 7 seawalls shall be constructed first (ab seawater intakes at the inner water would the remaining dredging activities along t	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
S5.8, Figure 5.3	Silt curtains shall be deployed around seawall dredging and seawall trench fill TCBR and NP.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
S5.8, Figure 5.3	Silt screens shall be applied to seawater i as stated below: Interim Construction Location of A Stage Scenario 2A in early WSD saltwa 2009 with concurrent Bay, Sheung V	pplication	ns es at Sai Wa	an Ho, Quarry	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	dredging activities at Cooling wate HKCEC, WCR, TPCWA, and Exhibiti										

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Implementation Location / Implementation Relevant Legislation Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Timing Agent and Guidelines Des С 0 Dec TBW, NP and Water Convention and Exhibition Centre Phase I, Telecom Mains Zone House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre Scenario 2B in late WSD saltwater intakes at Sheung Wan, Wan Chai 2009/2010 with Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and concurrent dredging activities Sewage Windsor House. at Zone Pipelines and TCBR. Scenario 2C in 2011 with WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. concurrent dredging activities at HKCEC and Cooling water intakes for MTR South, Excelsion Hotel & World Trade Centre and reprovisioned TCBR. Windsor House. ProPECC PN 1/94: S5.8 Work site / Contractor $\sqrt{}$ Other mitigation measures include: WPCO (TM-DSS) During the mechanical grabs, if used, shall be designed and maintained to avoid ٠ construction spillage and sealed tightly while being lifted. For dredging of any period contaminated mud, closed watertight grabs must be used; all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
	• before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.							
\$5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	ıplem Staş		on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>					WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation and Guidelines ProPECC PN 1/94; WPCO (TM-DSS)
EIA MI	Environmental Frocenon Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	ole Project							
S5.8	Construction Runoff and Drainage	Work site	Contractor		\checkmark			· · · · · · · · · · · · · · · · · · ·
	 use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; 	/ During the constructi on period						WPCO (TM-DSS)
	 Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; 							
	 a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; 							
	 oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; 							
	 precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; 							
	 on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; 							
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer 							

³ CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
	required.							
	• All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.							
	• Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
S5.8	Sewage from Construction Work Force Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		~			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	Floating Debris and Refuse Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		V			WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	g	Timing	Agent	Des	С	0	Dec	and Guidelines
\$5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO
Operation	Phase		<u> </u>					
	B (within the Project Boundary)						1	
S5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	• Petrol interceptors shall be regularly cleaned and maintained in good working condition.							
	Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.							
	• Sewage arising from ancillary facilities of CWB (for examples, car park,							

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		Timing	Agent	Des	С	0	Dec	and Guidelines
	 control room, ventilation and administration buildings and portals) shall be connected to public sewerage system. St capacity in public sewerage shall be made available to the p facilities. Road drainage shall also be provided with adequately designed to minimize discharge of silty runoff. The design of the operational stage mitigation measures for CW take into account the guidelines published in ProPECC P "Drainage Plans subject to Comment by the EPD." All ope discharges from the CWB into drainage or sewerage syster required to be licensed by EPD under the WPCO. 	fficient roposed silt trap B shall N 5/93 rational						

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

³ if employ Management, Operation and Maintenance (MOM) Contract

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Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
		Docution / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
S6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
86.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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Implementation Implementation Relevant Legislation Stages* Environmental Protection Measures / Mitigation Measures EIA Ref Location / Timing and Guidelines Agent С Des 0 Dec S6.7.5 It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water S6.7.6 quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Location, Thing	Agent	Des	С	0	Dec	and Guidelines
	 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 							
\$6.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		V			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		Liocation / Linning	Agent	Des	С	0	Dec	and Guidelines
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		1			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Agent Des C O Dec	Relevant Legislation			
LITRO	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
S6.7.8	 Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force; 							
	• any unused chemicals or those with remaining functional capacity shall be recycled;							
	 use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. 							
	 prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill; 							
	• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and							
	• plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
LITRO	Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
\$6.7.11	Chemical Wastes After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$6.7.12	Construction and Demolition Material C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		1			ETWB TCW No. 33/2002, 31/2004, 19/2005

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		Liocanon, Timing	Agent	Des	С	0	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
\$6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	• If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.							
	• If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.							

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Lint Ker	Environmental Protection Measures / Mitigation Measures	Location / Thinnig	Agent	Des	С	0	Dec	and Guidelines
Constructio								
For the Wh	ole Project							
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
\$7.10	 During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: Excavation profiles must be properly designed and executed; In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Quantities of soil to be excavated must be estimated; It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. Temporary storage of soil at intermediate depot or on-site 	A King Marine / During soil remediation works	Contractor	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	 Supply of suitable clean backfill materials is needed after excavation. Care must be taken of existing buildings and utilities. Precautions must be taken to control of ground settlement Speed controls for vehicles shall be imposed on dusty site areas. Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities: 							Water Pollution Control Ordinance

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
LITRO	Environmental Protection Measures / Mangation Measures	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
	 <u>Air Quality Mitigation Measures</u> The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations. 							
	 Noise Mitigation Measures The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. Simultaneous operation of mixing facilities and other equipment shall be avoided. Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any). 							

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Liocation, Thining	Agent	Des	С	0	Dec	and Guidelines
	 <u>Water Quality Mitigation Measures</u> Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from 							
	leaching out. The leachate shall be discharged following the requirements of WPCO.							
	Waste Mitigation Measures							
	 Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment. 							
	• Stabilized soils shall be broken into suitable size for backfilling or reuse on site.							
	• A high standard of housekeeping shall be maintained within the mixing plant area.							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation	
	g		Agent	Des	С	0	Dec	and Guidelines	
Construction Phase									
For the Wh	ole Project - Schedule 3 DP								
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.	
For DP3 –	Reclamation Works								
8.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.	

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		Location, Thing	Agent	Des	С	0	Dec	and Guidelines
S.9.7.4	 During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: Installation of silt curtains during dredging activities Use of tightly-closed grab dredger Reduction of dredging rate Control of grab descending speed Construction of leading edges of seawall in the early stages of the reclamation works 	Work site / during construction phase	Contractor		~			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	Adoption of multiple-phase construction schedule							

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Implementation Implementation Relevant Legislation Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing and Guidelines Agent Des С 0 Dec S.9.7.6 To minimize potential disturbance impacts on the foraging Work site during Contractor EIAO TM Annex 16 ardeid population in the CBTS, particularly in the area near the construction phase (Section 8.4) & EIAO A King Shipyard, appropriate mitigation measures shall be Guidance Note No. adopted particularly during the construction phase. The 3/2002 following measures are recommended: • Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. Adoption of multiple-phase construction schedule. • General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented. S.9.7.7 Seawalls shall be constructed in advance around the Work during Contractor EIAO TM Annex 16 site $\sqrt{}$ reclamation areas within the area of the CBTS to screen (Section 8.4) & EIAO construction phase adjacent feeding ground from construction phase activities, Guidance Note No. reduce noise disturbance to the associated seabirds and also to 3/2002. restrict access to this habitat adjacent to works areas by ship traffic. S.9.7.8 Loss of artificial seawall habitats shall be reinstated by the Work site / during EIAO TM Annex 16 Contractor $\sqrt{}$ construction of about 1 km vertical wave absorbing seawall (Section 8.4) & EIAO construction phase along the coastlines of the new reclamation around the HKCEC Guidance Note No. and at North Point. The new seawalls are expected to provide 3/2002. large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.

*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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- Sampling, Field Measurement and Testing Works (Stage 2)

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	S Location / Timing	Implementation Agent	In		entati ges*	ion	Relevant Legislation and Guidelines
			0	Des	С	0	Dec	
Construction	Phase							·
For the Whole	Project							
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored re-use in the construction of the soft landscape we where practical.	0	Contractor	V	V			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be care protected during construction.	fully Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall transplanted where practical.	be Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided compensate for felled trees.	to Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible the surrounding setting.	with Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	B (Within the Project Boundary)							1
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored re-use in the construction of the soft landscape works, where practical.	for Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be care protected during construction.	fully Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall transplanted where practical.	be Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided compensate for felled trees.	to Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	ıplem Staş	entati ges*	on	Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 - WD	II Major	· Roads (Road P2)	I				1		
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	\checkmark				EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	\checkmark			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor					EIAO TM
Table 10.5		Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor					EIAO TM
For DP3 – Recl			1						
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5		Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
For DP5 - Wan	ı Chai E	ast Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13		Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	Sta	entati ges*		Relevant Legislation and Guidelines
				Des	С	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP6 - Cros	s-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha		·	·			·		·
	Project - Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	\checkmark	V	\checkmark		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004

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EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Table 10.6, Figure 10.5.1-	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and	CEDD/HyD/	V	V	V		ETWB TCW 2/2004
10.5.5			Operation Phases						
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁴	\checkmark	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004
For DP1 - CW	B (Withi	n the Project Boundary)							
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	\checkmark	\checkmark	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During Design Stage and Operation Phases	HyD	\checkmark	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	\checkmark	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	V	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	V	V	V		ETWB TCW 2/2004

⁴ CEDD will identify an implementation agent

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EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
For DP3 – Reci	lamation	ı Works	i.	1					i
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁵	V	V	V		ETWB TCW 2/2004

*Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

⁵ CEDD will identify an implementation agent

Appendix 3.1



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) ^{Note 1}

Note 1:

70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Level in μ g/m ³		24-hour TSP Le	24-hour TSP Level in μ g/m ³	
	Action Level	Limit Level	Action Level	Limit Level	
CMA1b Note 2	320.1	500	176.7	260	
CMA2a	323.4	500	169.5	260	
CMA3a Note 2	311.3	500	171.0	260	
CMA4a	312.5	500	171.2	260	
CMA5b Note 2	332.0	500	181.0	260	
CMA6a Note 2	300.1	500	187.3	260	

Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.

- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.

Action and Limit Level for Water Monitoring

Parameters	Dry Season		Wet Season		
Falameter S	Action	Limit	Action	Limit	
WSD Salt Water Intake					
SS in mg L ⁻¹	13.00	14.43	16.26	19.74	
Turbidity in NTU	8.04	9.49	10.01	11.54	
DO in mg/L	3.66	3.28	3.17	2.63	
Cooling Water Intake					
SS in mg L ⁻¹	15.00	22.13	18.42	27.54	
Turbidity in NTU	9.10	10.25	11.35	12.71	
DO in mg/L	3.36	2.73	3.02	2.44	

Remarks:

- Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	 When two documented complaint are received; or Odour Intensity of 2 is measured from odour intensity analysis. 	 Five or more consecutive genuine documented complaints within a week; or Odour Intensity of 3 or above is measured from odour intensity analysis.

Action and Limit Levels for Odour Patrol



Appendix 4.2

Copies of Calibration Certificates



Information supplies	d by customer:	
CONTACT:	SAM LAM	WORK ORDER: HK1510319
CLIENT:	LAM GEOTECHNICS LIMITE	D
DATE RECEIVED:	21/8/2015	
DATE OF ISSUE:	26/8/2015	
ADDRESS:	11/F, CENTRE POINT, 181-185,	GLOUCESTER ROAD,
	WANCHAI, HONG KONG	
PROJECT:		

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	21-Aug-15	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

aman B Mr. Peter Lee Director

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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:	HK1510319
DATE OF ISSUE:	26/8/2015
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	21-Aug-15	
Date of next Calibation:	21-Nov-15	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.16	4.0	
10	9.63	-3.7	
40	41.5	3.8	
100	96	-4.0	
400	406	1.5	
1000	998	-0.2	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied	by customer:		
CONTACT:	SAM LAM	WORK ORDER:	HK1510256
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	08/07/2015		
DATE OF ISSUE:	15/07/2015		
ADDRESS:	11/F, CENTRE POINT, 181-185, C	GLOUCESTER RO.	AD,
	WANCHAI, HONG KONG		
PROJECT			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/07/2015	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

awan

Mr. Peter Lee Director





WORK ORDER:	HK1510256
DATE OF ISSUE:	15/07/2015
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/07/2015	
Date of next Calibation:	08/10/2015	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00	1	
4	3.92	-2.0	
10	10.3	3.0	
40	38.5	-3.8	
100	95.4	-4.6	
400	387	-3.3	
1000	996	-0.4	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied	1 by customer:		
CONTACT:	SAM LAM	WORK ORDER:	HK1510257
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	08/07/2015		
DATE OF ISSUE:	15/07/2015		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROA	AD,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	08/07/2015	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

aman

Mr. Peter Lee Director



WORK ORDER:	HK1510257
DATE OF ISSUE:	15/07/2015
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	08/07/2015	
Date of next Calibation:	08/10/2015	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.11	2.8	
10	9.79	-2.1	
40	42.4	6.0	
100	103	3.0	
400	387	-3.3	
1000	982	-1.8	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1510258
Project Name	: EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 20/07/2015
Customer	: LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1510258
Test Item No.	: HK1510258-01
Test Item Details	
Test Item Description	: Multifunctional Meter
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 14E100105
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	Dissolved oxygen (APHA 19e 4500-O.C))
Test Item Receipt Date	: 14-Jul-15
Test Item Calibration Date	: 15-Jul-15
Test Period	14/07/2015 - 20/07/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Canah Mr. Peter Lee (Director)

Issue Date:

20/07/2015

Pilot Testing Limited Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com



WORK ORDER:	HK1510258	
DATE OF ISSUE:	20/07/2015	
CLIENT:	LAM GEOTECHNICS LIMITED	

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14E100105	
Date of Calibration	15-Jul-15	
Date of next Calibation	15-Oct-15	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
9.6	10.5	+0.9
19.9	20.3	+0.4
32.0	31.5	-0.5
	Folerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.92	4.07	+0.15
7.0	6.94	6.97	+0.03
10.0	9.91	10.03	+0.12
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.70	-1.45
0.2000	24.80	24.53	-1.08
0.5000	58.67	58.09	-0.99
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.41	8.46	+0.05
3.18	3.36	+0.18
1.06	1.09	+0.03
	Tolerance Limit	±0.20

Remarks:

- Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
 Disclored acceptance in the follower state and the state of the state of
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No. Project Name Date of Issue	HK1510261 EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT 24/07/2015
Customer	LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1510261
Test Item No.	: HK1510261-01
Test Item Details	
Test Item Description	: Multifunctional Meter
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 14M100277
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	Dissolved oxygen (APHA 19e 4500-O.C))
Test Item Receipt Date	: 17-Jul-15
Test Item Calibration Date	: 17-Jul-15
Test Period	17/07/2015 - 24/07/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

aman Mr. Peter Lee

(Director)

Issue Date:

24/07/2015

Pilot Testing Limited Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com

WORK ORDER:	HK1510261
DATE OF ISSUE:	24/07/2015
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	17-Jul-15	
Date of next Calibation	17-Oct-15	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.3	10.4	+0.1
19.9	20.0	+0.1
29.5	29.4	-0.1
	Tolerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.02	4.04	+0.02
7.0	6.98	7.07	+0.09
10.0	9.94	10.06	+0.12
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.66	-1.79
0.2000	24.80	25.12	+1.29
0.5000	58.67	58.77	+0.17
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
6.34	6.42	+0.08
3.10	3.17	+0.07
1.51	1.43	-0.08
	Tolerance Limit	±0.20

Remarks:

(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No. Project Name Date of Issue	: HK1510259 : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT : 20/07/2015
Customer Address	: LAM GEOTECHNICS LIMITED : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1510259
Test Item No.	: HK1510259-01
Test Item Details	
Test Item Description	: Multifunctional Meter
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 11F100420
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value (APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B) , Dissolved oxygen (APHA 19e 4500-O,C))
Test Item Receipt Date	: 14-Jul-15
Test Item Calibration Date	: 15-Jul-15
Test Period	14/7/2015 - 20/7/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

awan 6 Mr. Peter Lee

(Director)

Issue Date:

20/07/2015

Pilot Testing Limited Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com

WORK ORDER:	HK1510259
DATE OF ISSUE:	20/07/2015
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	11F100420	
Date of Calibration	15-Jul-15	
Date of next Calibation	15-Oct-15	

Parameters:

Temperature (Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
9.8	10.1	+0.3
20.2	20.3	+0.1
30.1	29.5	-0.6
T	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.02	4.08	+0.06
7.0	6.92	6.87	-0.05
10.0	10.10	9.98	-0.12
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.92	+0.23
0.2000	24.80	24.52	-1.13
0.5000	58.67	59.10	+0.73
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.83	8.90	+0.07
5.23	5.26	+0.03
1.17	1.24	+0.07
	Tolerance Limit	±0.20

Remarks:

(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

	11 14, 2014 Tisch	Rootsmeter Orifice I.I		438320 0005	Ta (K) - Pa (mm) -	298 - 749.3
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	========= DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00 1.00	1.3870 0.9830 0.8760 0.8340 0.6860	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9692	0.7078 0.9944 1.1135 1.1683 1.4128	1.4042 1.9859 2.2203 2.3286 2.8084	0.9957 0.9915 0.9894 0.9882 0.9830	0.7179 1.0086 1.1294 1.1849 1.4330	0.8919 1.2613 1.4101 1.4790 1.7837
Qstd slo intercep coeffici y axis =	ot (b) = ent (r) =	1.99175 -0.00041 0.99991 Pa/760) (298/Ta)]	Qa slop intercep coeffici y axis =	t (b) =	1.24720 -0.00026 0.99991 Fa/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calbration Date	:	10-Aug-15
Equipment no.	:	EL452	Calbration Due Date	:	10-Oct-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T _a		301		Kelvin	Pressure, P	a	1	005 mmHg
			Orifice Tr	ansfer Sta	andard Inform	mation		
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc	-0.01209
Last Calibration Date		30-Jun-1	5		(Hx	P _a / 10	13.3 x 298 /	$(T_a)^{1/2}$
Next Calibration Date		30-Jun-1	6		=	m _c x	$x Q_{std} + b_c$	
	Calibration of TSP							
Calibration	Mar	nometer Re	ading	c	۵ _{std}	Contir	nuous Flow	IC
Point	Н (і	inches of v	water)	(m ³	/ min.)	Rec	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	-axis	(CFM)	Y-axis
1	5.9	5.9	11.8	1.	7074		60	59.4552
2	4.8	4.8	9.6	1.	5406		52	51.5279
3	3.8	3.8	7.6	1.1	3714		45	44.5914
4	2.5	2.5	5.0	1.	1135		36	35.6731
5	1.6	1.6	3.2	0.	8920		28	27.7458
By Linear Regression of	Y on X							
	Slope, m	=	38.3	067	Inte	ercept, b =	=6	.9577
Correlation Co	pefficient*	=	= 0.9980					
Calibration	Accepted	=	Yes/	\ 0**	<u>.</u>			

**	Delete	as	approp	riate.
----	--------	----	--------	--------

Remarks :					
Calibrated by	:	LuLu Mar	Checked by	:	Derek Lo
Date	:	10-Aug-15	Date	:	10-Aug-15



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date	:	10-Aug-15
Equipment no.	:	EL449	Calbration Due Date	:	10-Oct-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T _a		301		Kelvin	Pressure, P	a	10	005 mmHg
			Orifice T	ransfer Sta	andard Infor	mation		
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc	-0.01209
Last Calibration Date		30-Jun-1	5		(H)	x P _a / 10)13.3 x 298 /	T_{a}) ^{1/2}
Next Calibration Date		30-Jun-1	6		=	m _c	$x Q_{std} + b_c$	
Calibration of TSP								
Calibration	Mar	nometer R	eading	c	l _{std}	Conti	nuous Flow	IC
Point	Н (inches of	water)	(m ³	/ min.)	Red	corder, W	$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$
	(up)	(down)	(difference)	X-	axis		(CFM)	Y-axis
1	5.8	5.8	11.6	1.0	6929		59	58.4643
2	4.6	4.6	9.2	1.	5083		50	49.5460
3	3.7	3.7	7.4	1.3	3534		43	42.6096
4	2.5	2.5	5.0	1.	1135		34	33.6913
5	1.5	1.5	3.0	0.3	8639		22	21.8003
By Linear Regression of Y	on X							
	Slope, m	=	43.3	899	Inte	ercept, b =	-15.	4622
Correlation Co	pefficient*	=	0.99	990				
Calibration Accepted = Yes/No**								

** C	Delete	as	appr	opriate.
------	--------	----	------	----------

Remarks :					
Calibrated by	:	LuLu Mar	Checked by	:	Derek Lo
Date	:	10-Aug-15	Date	:	10-Aug-15



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАЗа	Calbration Date	:	10-Aug-15
Equipment no.	:	EL333	Calbration Due Date	:	10-Oct-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T _a		301		Kelvin	Pressure, P	a		1005 mmHg
Orifice Transfer Standard Information								
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc	-0.01209
Last Calibration Date		30-Jun-1	5		(Hx	P _a / 10	13.3 x 298 /	/T _a) ^{1/2}
Next Calibration Date		30-Jun-1	6		=	m _c x	$Q_{std} + b_c$	
Calibration of TSP								
Calibration	Manometer Reading			c) _{std}	Contin	uous Flow	IC
Point	Н (і	inches of	water)	(m ³ / min.) Recor		order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.3	
	(up)	(down)	(difference)	X-	axis	(CFM)	Y-axis
1	5.6	5.6	11.2	1.	1.6636 5		54	53.5097
2	4.6	4.6	9.2	1.	5083		48	47.5642
3	3.6	3.6	7.2	1.3	3350		42	41.6187
4	2.4	2.4	4.8	1.	0912		34	33.6913
5	2.0	2.0	4.0	0.	9966		29	28.7367
By Linear Regression of	Y on X							
	Slope, m	=	35.9	922	Inte	ercept, b =	= -6	.4472
Correlation Co	pefficient*	=	0.99	984				
Calibration	Accepted	=	Yes/	\ 0**				

**	Delete	as	approp	riate.
----	--------	----	--------	--------

Remarks :					
Calibrated by	:	LuLu Mar	Checked by	:	Derek Lo
Date	:	10-Aug-15	Date	:	10-Aug-15



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	:	10-Aug-15
Equipment no.	:	EL390	Calbration Due Date	:	10-Oct-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		301		Kelvin Pressure, P a				1005	mmHg
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc		-0.01209
Last Calibration Date		30-Jun-1	5		(Hx	: P _a / 10)13.3 x 298 /	′Τ _a) ^{1/2}	2
Next Calibration Date		30-Jun-1	6		=	m _c	$x Q_{std} + b_c$		
Calibration of TSP									
Calibration	Manometer Reading		G	Q _{std}	Conti	nuous Flow		IC	
Point	Н (inches of	water)	(m ³	m ³ /min.) Reco		order, W	(W(P _a /101	3.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	x-	X-axis (0		(CFM)	FM) Y-axis	
1	5.7	5.7	11.4	1.0	6783	5783 58		57.4734	
2	4.6	4.6	9.2	1.	5083		51		50.5370
3	3.6	3.6	7.2	1.:	3350		45		44.5914
4	2.4	2.4	4.8	1.0	0912		34		33.6913
5	1.5	1.5	3.0	0.8	8639		25		24.7730
By Linear Regression of	Y on X								
	Slope, m	=	40.2	813	Inte	ercept, b	= -9	.9646	
Correlation Co	efficient*	=	0.99	994					
Calibration	Accepted	=	Yes/	No**					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

:

Remarks :

Calibrated by

Date

LuLu Mar

Checked by Date

10-Aug-15

10-Aug-15

Derek Lo

am

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМА5Ь	Calbration Date	:	01-Aug-15
Equipment no.	:	EL222	Calbration Due Date	:	01-Oct-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		302		Kelvin	Pressure, P	a	1	011	mmHg
			Orifice T	ransfer Sta	andard Infor	mation			
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc	-0	.01209
Last Calibration Date		30-Jun-1	5		(H)	(P _a / 10)13.3 x 298 /	(T _a) ^{1/2}	
Next Calibration Date		30-Jun-1	6		=	m _c	$x Q_{std} + b_c$		
Calibration of TSP									
Calibration	Manometer Reading			c	l _{std}	Conti	nuous Flow	1	C
Point	Н (і	inches of	water)	(m ³ / min.)		Ree	corder, W	(W(P _a /1013.3x	298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis			(CFM)	Y-;	axis
1	5.5	5.5	11.0	1.0	6509		60	59.	5336
2	4.3	4.3	8.6	1.4	4604		55	54.	5725
3	3.4	3.4	6.8	1.:	2993		49	48.	6191
4	2.3	2.3	4.6	1.0	0697		40	39.	6891
5	1.5	1.5	3.0	0.8	3650		32	31.	7513
By Linear Regression of	Y on X								
	Slope, m	=	35.9	878	Int	ercept, b	= 1.	1624	
Correlation Co	pefficient*	=	0.99	974					
Calibration Accepted = Yes/			No**						

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks :

Calibrated by	:	LuLu Mar	Checked by	:	Derek Lo
Date	:	01-Aug-15	Date	:	01-Aug-15



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	Calbration Date	:	10-Aug-15
Equipment no.	:	EL448	Calbration Due Date	:	10-Oct-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		301		Kelvin Pressure , P _a			1	005 mmHg	
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc	-0.01209	
Last Calibration Date		30-Jun-1	5		(Hx	(P _a / 10)13.3 x 298 /	'T _a) ^{1/2}	
Next Calibration Date		30-Jun-1	6		=	m _c	$x Q_{std} + b_c$		
Calibration of TSP									
Calibration	Manometer Reading		C	Q _{std}	Conti	nuous Flow	IC		
Point	H (i	inches of v	water)	(m ³	/ min.)	min.) Reco		$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$	
	(up)	(down)	(difference)) X -	-axis		(CFM)	Y-axis	
1	6.2	6.2	12.4	1.	7501		58	57.4734	
2	4.9	4.9	9.8	1./	5565		52	51.5279	
3	3.8	3.8	7.6	1.:	3714		45	44.5914	
4	2.5	2.5	5.0	1.1	1135		36	35.6731	
5	1.5	1.5	3.0	0./	8639		30	29.7276	
By Linear Regression of	Y on X								
	Slope, m	=	32.1	012 Intercept, b = 1.0688					
Correlation Co	pefficient*	=	0.99	974	_				
Calibration	Accepted	=	Yes/	No**					

**	Delete	as	appropriate.
----	--------	----	--------------

Remarks :					
Calibrated by	:	LuLu Mar	Checked by	:	Derek Lo
Date	:	10-Aug-15	Date	:	10-Aug-15



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Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.: 14CA1213 01 Page 1 of Item tested	2
Description:Sound Level Meter (Type 1)MicrophoneManufacturer:B & KB & KType/Model No.:22364188Serial/Equipment No.:21007362288941	
Manufacturer: B & K B & K Type/Model No.: 2236 4188 Serial/Equipment No.: 2100736 2288941	
Item submitted by	
Customer Name:Lam Geotechnics LimitedAddress of Customer:-Request No.:-Date of receipt:13-Dec-2014	
Date of test: 13-Dec-2014	
Reference equipment used in the calibration	
Description: Model: Serial No. Expiry Date: Trace	able to:
Multi function sound calibrator B&K 4226 2288444 20-Jun-2015 CIGIS	MEC
Signal generator DS 360 33873 09-Apr-2015 CEPF	El
Signal generator DS 360 61227 09-Apr-2015 CEPF	El
Ambient conditions	
Temperature: 21 ± 1 °C	
Relative humidity: 60 ± 5 %	
Air pressure: 1010 ± 5 hPa	
Test specifications	

- 1. The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi

15-Dec-2014 Company Chop:



Comments: The results reported h-/his certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

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Form No CARP152-1/Issue 1/Rev C/01/02/2007

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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

14CA1213 01

Page 2 of 2

1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Culture	C 1.1.	Expanded	Coverage
Test.	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

Response to associated sound calibrator

N/A

3,

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007

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CERTIFICATE OF CALIBRATION

Certificate No.:	15CA0528 04-03		Page:	1 of 2
Item tested				
Description:	Acoustical Calibra	tor (Class 1)		
Manufacturer:	Rion Co., Ltd.			
Type/Model No.:	NC-73			
Serial/Equipment No .:	10465798			
Adaptors used:				
tem submitted by				
Curstomer:	Lam Geotechnics	Ltd.		
Address of Customer:	-	Sec. 1		
Request No.:	-			
Date of receipt:	28-May-2015			
Date of test:	30-May-2015			
Reference equipment	used in the calib	ration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI
Ambient conditions				
Formation	21 ± 1 °C			
Temperature:	00 . 10 01			
Relative humidity:	60 ± 10 %			

1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

 The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Approved Signatory:
Huang Jian Min/Feng Jun Qi

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and

Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA0528 04-03

Page: 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded	
Shown	Level Setting	Sound Pressure Level	Uncertainty	
Hz	dB	dB	dB	
1000	94.00	94.06	0.10	

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.002 dB
Estimated expanded uncertainty	0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 966.3 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.5 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

	٨	- End -	1
Calibrated by:	1.	Checked by:	h
Date:	Fung Chi Yip 30-May-2015	Date:	Lam Tze Wai 01-Jun-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

Osoils & Materials Engineering Co. Ltd
 Form No. CARP156-2/Issue 1/Rev.C/01/05/2005
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determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the
International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



Certificate for a Qualified Odour Panellist for Field Odour Patrol

This is to certify that

Wong Siu Keung

Participated in a set of n-Butanol Screening Tests in ALS Technichem (HK) Pty Ltd between

21 Nov 2013 to 02 Jul 2015

and

fulfil the Requirement of the

Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v with Standard Deviation less than 2.3

of the European Standard Method of Air Quality - Determination of Odour Concentration by Dynamic Olfactometry (EN13725) and

Trained with Reference to ASTM Standard Practices for Referencing Suprathreshold Odor Intensity (ASTM E544) for Hong Kong Four Point Scale between

14 Jan 2014 to 03 Jul 2015

and

Qualified to Participate the Field Odour Patrol to Determine Odour Intensity with a refreshment check in ALS Technichem (HK) Pty Ltd by Every Two Weeks until 02 Oct 2015

3 July 2015

Issue Date

Fung Lim Chee, Richard

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, NT, Hong Kong

Tel: 852-2610 1044

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Certificate for a Qualified Odour Panellist for Field Odour Patrol

This is to certify that

Lai Wai Yan

Participated in a set of n-Butanol Screening Tests in ALS Technichem (HK) Pty Ltd between

25 Nov 2013 to 30 Jun 2015

and

fulfil the Requirement of the

Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v with Standard Deviation less than 2.3

of the European Standard Method of Air Quality - Determination of Odour Concentration by Dynamic Olfactometry (EN13725) and

Trained with Reference to ASTM Standard Practices for Referencing Suprathreshold Odor Intensity (ASTM E544) for Hong Kong Four Point Scale between

28 Jan 2014 to 30 Jun 2015

and

Qualified to Participate the Field Odour Patrol to Determine Odour Intensity with a refreshment check in ALS Technichem (HK) Pty Ltd by Every Two Weeks until 30 Sep 2015

3 July 2015

Issue Date

Fung Lim Chee. Richard

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, NT, Hong Kong-

RIGHT SOLUTIONS

RIGHT PARTNER

Tel: 852-2610 1044



Certificate for a Qualified Odour Panellist for Field Odour Patrol

This is to certify that

Chung Wing Fai

Participated in a set of n-Butanol Screening Tests in ALS Technichem (HK) Pty Ltd between

23 Jan 2014 to 24 Jun 2015

and

fulfil the Requirement of the

Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v with Standard Deviation less than 2.3

of the European Standard Method of Air Quality - Determination of Odour Concentration by Dynamic Olfactometry (EN13725) and

Trained with Reference to ASTM Standard Practices for Referencing Suprathreshold Odor Intensity (ASTM E544) for Hong Kong Four Point Scale between

23 Jan 2014 to 30 Jun 2015

and

Qualified to Participate the Field Odour Patrol to Determine Odour Intensity with a refreshment check in ALS Technichem (HK) Pty Ltd by Every Two Weeks until 30 Sep 2015

3 July 2015

Issue Date

Fung Lim Chee, Richard

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, NT, Hong Kong

Tel: 852-2610 1044

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Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2011/07 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2) Environmental Monitoring Schedule September 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					28-Aug	29-Aug
						Impact WQM
						Mid-ebb 11:50
						Mid-flood 18:37
30-Aug	31-Aug	1-Sep	2-Se	p 3-Sep	4-Sep	5-Sep
		Odour Patrol				
		24hr TSP	1hr TSP			
		24111 1512	IIII ISP			
	Noise (daytime)	Noise (daytime)				
	(M5b, M6)	(M1a, M2b, M3a, M4b)				
	Impact WQM	,,,	Impact WQM		Impact WQM	
	Mid-ebb 13:20		Mid-flood 14:	18	Mid-flood 10:38	
	Mid-flood 19:49		Mid-ebb 21:		Mid-ebb 16:29	
6-Sep	7-Sep	8-Sep	9-S	ap 10-Sep) 11-Sep	12-Sep
	24hr TSP	1hr TSP				0.4%- TOD
	240r 15P	Inr 13P				24hr TSP
	Noise (daytime)	Noise (daytime)				
	(M2b)	(M1a, M3a, M4b, M5b, M6)				
	Impact WQM	(Impact WQM		Impact WQM	
	Mid-ebb 8:08		Mid-ebb 10:	03	Mid-ebb 11:24	
	Mid-flood 15:34		Mid-flood 17:	07	Mid-flood 18:03	
13-Sep	14-Sep	15-Sep	16-S	ap 17-Sep	18-Sep	19-Sep
		Odour Patrol				
	1hr TSP				24hr TSP	1hr TSP
	IIII I JF				2411 135	iii i ər
			Noise (daytime)	Noise (daytime)		
			(M4b)	(M1a, M2b, M3a, M5b, M6)		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood 13:04		Mid-flood 14:)7	Mid-flood 15:15	
	Mid-ebb 19:12		Mid-ebb 20:		Mid-ebb 21:01	
20-Sep	21-Sep	22-Sep	23-S	ep 24-Sep	25-Sep	26-Sep
				24hr TSP	1hr TSP	
	Noise (daytime)	Noise (daytime)				
	(M1a, M3a, M4b, M5b, M6)	(M2b, M3a)				
		Impact WQM		Impact WQM		
		Mid-ebb 6:34		Mid-ebb 8:54	ł	Mid-ebb 10:39
		Mid-flood 14:37		Mid-flood 16:20		Mid-flood 17:25
Demention Drug to the	bojeting of amber rainetorm warning		the water quality monitoring on	26 September 2015 during flood tid		

- 83

Contract No. HK/2011/07 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2) Tentative Environmental Monitoring Schedule October 2015

Sunday	Monday		Tuesda	/	Wednes	day	Thursd	ay	Frida	v	Saturd	ay
27-Sep		28-Sep		29-Sep		30-Sep		1-Oct		2-Oct		3-Oct
			Odour Patrol									
			24hr TSP		1hr TSP							
			Noise (daytime)		Noise (daytime)							
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb	12:15			Mid-ebb	13:45			Mid-flood	9:28		
4-Oct	Mid-flood	18:35 5-Oct		6-Oct	Mid-flood	19:48 7-Oct		8-Oct	Mid-ebb	15:17 9-Oct		10-Oct
1001		0.000		0.000				0.001		0.000		10 000
	24hr TSP		1hr TSP								24hr TSP	
	Noise (daytime)				Noise (daytime)							
			Impact WQM				Impact WQM				Impact WQM	
			Mid-ebb	7:28			Mid-ebb	9:30 16:27			Mid-ebb Mid-flood	10:56
11-Oct		12-Oct	Mid-flood	15:13 13-Oct		14-Oct	Mid-flood	16:27 15-Oct		16-Oct	MIG-TIOOD	17:19 17-Oct
TPOL		12=000		13-001		14-001		15-001		10-001		17-001
	1hr TSP								24hr TSP		1hr TSP	
	Noise (daytime)		Noise (daytime)									
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb Mid-flood	12:05 18:04			Mid-ebb Mid-flood	13:09 18:53			Mid-ebb Mid-flood	8:25 14:15		
18-Oct	Iviid-11000	19-Oct		20-Oct	Mid-100d	21-Oct		22-Oct	Iviid-1100d	23-Oct		24-Oct
10-001		13-000		20-001		21-000		22-001		20-000		24-001
							24hr TSP		1hr TSP			
	Noise (daytime)		Noise (daytime)									
			Impact WQM				Impact WQM	7.00			Impact WQM	
			Mid-ebb Mid-flood	4:23 12:20			Mid-ebb Mid-flood	7:03 14:50			Mid-ebb Mid-flood	9:20 16:10
25-Oct		26-Oct	Iviid-1100d	27-Oct			Iviid-1100d	14:50			Iviid-1100d	16:10
23-001		20-001		27=001								
	Noise (daytime)		Noise (daytime)									
	Impact WQM											
	Mid-ebb Mid-flood	11:07 17:23										
	wiid*11000	17:23										



Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

						Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq			
			Unit: dB(A), (30-min)								
01/09/15	8:15	Cloudy	72.7	75.7	70.5	72	63	75			
08/09/15	11:15	Cloudy	73.5	74.6	70.7	72	68	75			
17/09/15	9:45	Fine	76.3	78.5	71.5	72	74	75			
21/09/15	13:15	Cloudy	73.3	76.0	67.5	72	67	75			

Location: M2b - Noon-day gun area

		Measure	ement Noi:	nent Noise Level Baseline Level Construction Noise Level Limit L					
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	
				Unit: dB(A), (30-min)					
01/09/15	9:50	Cloudy	69.1	70.0	67.0	68	64	75	
07/09/15	15:50	Cloudy	69.2	70.5	67.0	68	64	75	
17/09/15	10:25	Fine	68.3	70.0	66.0	68	60	75	
22/09/15	10:45	Fine	68.7	70.0	66.5	68	62	75	

Location: M3a - Tung Lo Wan Fire Station

			Measure	ement Noi:	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: di	B(A), (30-min)	
01/09/15	10:35	Cloudy	65.5	66.5	63.5	69	66	75
08/09/15	13:33	Cloudy	65.3	66.5	63.0	69	65	75
17/09/15	11:08	Fine	66.6	67.5	65.0	69	67	75
22/09/15	11:25	Fine	67.0 68.0 65.5		69	67	75	

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
	11/09/15 11:10					Unit: d	B(A), (30min)	
01/09/15	11:10	Cloudy			65.5	67	67	75
08/09/15	14:15	Cloudy	68.8	71.5	65.0	67	63	75
16/09/15	15:53	Fine	68.2	69.5	65.5	67	61	75
21/09/15	14:15	Cloudy	73.0	75.5	66.5	67	72	75

Location: M5b - City Garden

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
	21/09/15 0.29 0					Unit: d	B(A), (30min)	
31/08/15	9:38	Cloudy	73.9	76.0	70.5	68	73	75
08/09/15	14:56	Cloudy	72.3	73.5	70.5	68	70	75
17/09/15	13:00	Fine	70.8	72.0	68.5	68	68	75
21/09/15	15:01	Fine	73.7	76.0	70.0	68	72	75

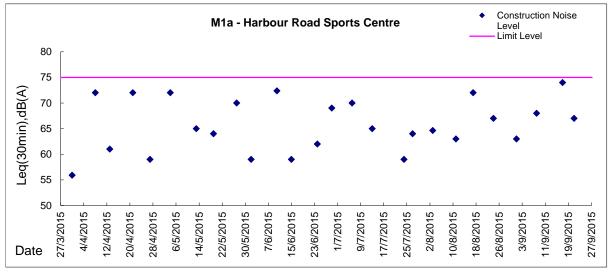
Location: M6 - HK Baptist Church Henrietta Secondary School

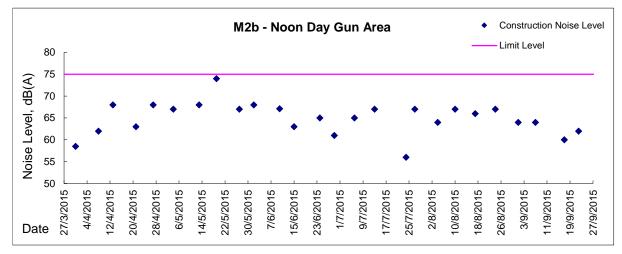
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
	(08/15 10:15 Clou					Unit: dl	B(A), (30-min)	
31/08/15	10:15	Cloudy	71.1 72.5 69.0		71	61	70	
08/09/15	15:30	Cloudy	70.4	71.5	68.5	71	70	70
17/09/15	13:39	Fine	71.0	72.0	69.0	71	59	70
21/09/15	15:48	Fine	70.0 71.5 68.0		68.0	71	70	70

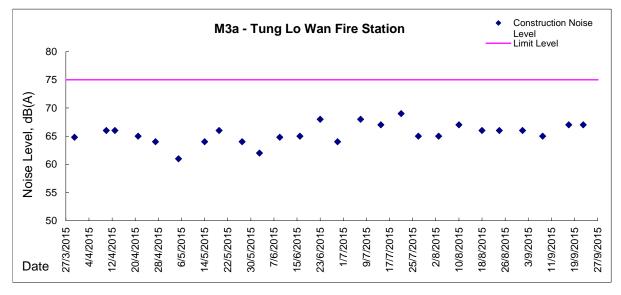
am



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

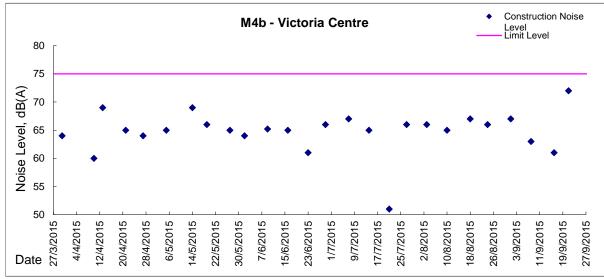


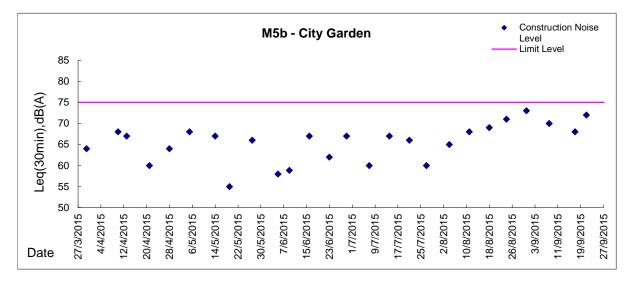


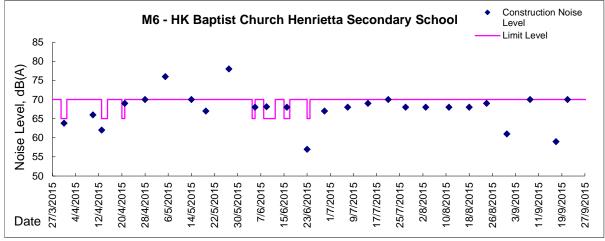




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)









Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations, and odour Patrol Results

Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 176.7 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter paper				e, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
1-Sep-15	8:00	Cloudy	013104	2.8057	2.9062	6897.62	6921.62	24.00	1.23	1.23	1.23	1772	56.7
7-Sep-15	8:00	Cloudy	013146	2.8214	2.9681	6924.87	6948.87	24.00	1.23	1.23	1.23	1767	83.0
12-Sep-15	8:00	Cloudy	013098	2.8117	3.1178	6951.86	6975.86	24.00	1.31	1.31	1.31	1891	161.8
18-Sep-15	8:00	Fine	013285	2.8619	3.1190	6978.86	7002.86	24.00	1.31	1.31	1.31	1891	136.0
24-Sep-15	8:00	Fine	013332	2.8244	3.3640	7005.86	7029.86	24.00	1.31	1.31	1.31	1882	222.5

Report on 1-hour TSP monitoring Action Level (μ g/m3) - 320.1 Limit Level (μ g/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-15	9:40	Cloudy	013111	2.7951	2.8033	6921.63	6922.63	1.00	1.23	1.23	1.23	74	110.9
2-Sep-15	10:55	Cloudy	013109	2.8007	2.8118	6922.63	6923.63	1.00	1.23	1.23	1.23	74	150.2
2-Sep-15	16:30	Cloudy	013120	2.8151	2.8226	6923.67	6924.67	1.00	1.23	1.23	1.23	74	101.5
8-Sep-15	8:07	Cloudy	013228	2.8137	2.8255	6948.87	6949.87	1.00	1.23	1.23	1.23	74	160.2
8-Sep-15	9:15	Cloudy	013115	2.8215	2.8355	6949.87	6950.87	1.00	1.23	1.23	1.23	74	190.1
8-Sep-15	10:19	Cloudy	013101	2.7991	2.8130	6950.87	6951.87	1.00	1.23	1.23	1.23	74	188.7
14-Sep-15	9:22	Fine	013261	2.8470	2.8620	6975.86	6976.86	1.00	1.31	1.31	1.31	79	190.4
14-Sep-15	10:33	Fine	013256	2.8272	2.8420	6976.86	6977.86	1.00	1.31	1.31	1.31	79	187.8
14-Sep-15	13:00	Fine	013287	2.8859	2.8986	6977.86	6978.86	1.00	1.31	1.31	1.31	79	161.2
19-Sep-15	9:09	Fine	013282	2.8894	2.9013	7002.86	7003.86	1.00	1.31	1.31	1.31	79	151.0
19-Sep-15	10:36	Fine	013327	2.7951	2.8080	7003.86	7004.86	1.00	1.31	1.31	1.31	79	163.7
19-Sep-15	13:00	Fine	013302	2.8618	2.8742	7004.86	7005.86	1.00	1.31	1.31	1.31	79	157.4
25-Sep-15	11:00	Fine	013322	2.8045	2.8145	7029.86	7030.86	1.00	1.31	1.31	1.31	78	127.6
25-Sep-15	13:00	Fine	013086	2.8041	2.8129	7030.86	7031.86	1.00	1.31	1.31	1.31	78	112.3
25-Sep-15	14:10	Fine	013320	2.8113	2.8291	7031.86	7032.86	1.00	1.31	1.31	1.31	78	227.2

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 169.5 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	Filter Weight, g		e, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
1-Sep-15	8:00	Cloudy	013103	2.7987	2.8441	16547.95	16571.95	24.00	1.19	1.20	1.19	1719	26.4
7-Sep-15	8:00	Cloudy	013256	2.8047	2.8753	16574.95	16598.95	24.00	1.19	1.19	1.19	1716	41.1
12-Sep-15	8:00	Cloudy	013099	2.8022	3.1100	16601.95	16625.95	24.00	1.28	1.28	1.28	1845	166.8
18-Sep-15	8:00	Fine	013248	2.8225	3.0045	16628.95	16652.95	24.00	1.19	1.19	1.19	1718	105.9
24-Sep-15	8:00	Fine	013303	2.8456	2.9268	16655.95	16679.95	24.00	1.19	1.19	1.19	1712	47.4

Report on 1-hour TSP monitoring Action Level (µg/m3) - 323.4 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-15	9:50	Cloudy	013159	2.8218	2.8287	16571.95	16572.95	1.00	1.20	1.20	1.20	72	96.2
2-Sep-15	10:55	Cloudy	013152	2.8110	2.8182	16572.95	16573.95	1.00	1.20	1.20	1.20	72	100.4
2-Sep-15	13:00	Cloudy	013148	2.8163	2.8253	16573.95	16574.95	1.00	1.20	1.20	1.20	72	125.5
8-Sep-15	8:02	Cloudy	013119	2.8137	2.8180	16598.95	16599.95	1.00	1.19	1.19	1.19	72	60.1
8-Sep-15	9:05	Cloudy	013116	2.8238	2.8291	16599.95	16600.95	1.00	1.19	1.19	1.19	72	74.1
8-Sep-15	10:09	Cloudy	013102	2.8028	2.8123	16600.95	16601.95	1.00	1.19	1.19	1.19	72	132.8
14-Sep-15	9:12	Fine	013262	2.8410	2.8528	16625.95	16626.95	1.00	1.24	1.24	1.24	74	159.0
14-Sep-15	10:22	Fine	013257	2.8115	2.8201	16626.95	16627.95	1.00	1.24	1.24	1.24	74	115.9
14-Sep-15	13:00	Fine	013250	2.8376	2.8450	16627.95	16628.95	1.00	1.24	1.24	1.24	74	99.7
19-Sep-15	9:00	Fine	013292	2.8520	2.8596	16652.95	16653.95	1.00	1.19	1.19	1.19	72	106.2
19-Sep-15	10:33	Fine	013297	2.8512	2.8615	16653.95	16654.95	1.00	1.19	1.19	1.19	72	143.9
19-Sep-15	13:00	Fine	013301	2.8432	2.8497	16654.95	16655.95	1.00	1.19	1.19	1.19	72	90.8
25-Sep-15	10:37	Fine	013089	2.8220	2.8247	16679.95	16680.95	1.00	1.19	1.19	1.19	71	37.9
25-Sep-15	13:00	Fine	013087	2.8028	2.8041	16680.95	16681.95	1.00	1.19	1.19	1.19	71	18.2
25-Sep-15	14:03	Fine	013085	2.7930	2.7967	16681.95	16682.95	1.00	1.19	1.19	1.19	71	51.9

Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	Filter Weight, g		e, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
1-Sep-15	8:00	Cloudy	013107	2.7913	2.8593	4007.26	4031.26	24.00	1.20	1.20	1.20	1724	39.4
7-Sep-15	8:00	Cloudy	013147	2.8095	2.9455	4034.26	4058.26	24.00	1.19	1.19	1.19	1720	79.1
12-Sep-15	8:00	Cloudy	013267	2.8639	2.9265	4061.26	4085.26	24.00	1.20	1.20	1.20	1723	36.3
18-Sep-15	8:00	Fine	013286	2.8828	2.9520	4088.27	4112.27	24.00	1.20	1.20	1.20	1722	40.2
24-Sep-15	8:00	Fine	013333	2.8219	2.9865	4115.27	4139.27	24.00	1.19	1.19	1.19	1715	96.0

Report on 1-hour TSP monitoring Action Level (µg/m3) - 311.3 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-15	9:30	Cloudy	013112	2.7989	2.8059	4031.26	4032.26	1.00	1.24	1.24	1.24	75	93.8
2-Sep-15	10:40	Cloudy	013110	2.7902	2.7979	4032.26	4033.26	1.00	1.24	1.24	1.24	75	103.2
2-Sep-15	15:45	Cloudy	013145	2.8313	2.8392	4033.26	4034.26	1.00	1.24	1.24	1.24	75	105.9
8-Sep-15	8:36	Cloudy	013273	2.8653	2.8733	4058.26	4059.26	1.00	1.24	1.24	1.24	74	107.6
8-Sep-15	9:51	Cloudy	013271	2.8734	2.8821	4059.26	4060.26	1.00	1.24	1.24	1.24	74	117.0
8-Sep-15	10:55	Cloudy	013269	2.8788	2.8868	4060.27	4061.27	1.00	1.24	1.24	1.24	74	107.6
14-Sep-15	8:55	Fine	013125	2.8097	2.8132	4085.26	4086.26	1.00	1.24	1.24	1.24	74	47.0
14-Sep-15	10:08	Fine	013123	2.8118	2.8178	4086.26	4087.26	1.00	1.24	1.24	1.24	74	80.6
14-Sep-15	13:00	Fine	013121	2.8046	2.8093	4087.26	4088.26	1.00	1.24	1.24	1.24	74	63.1
19-Sep-15	8:44	Fine	013283	2.8681	2.8764	4112.27	4113.27	1.00	1.24	1.24	1.24	74	111.5
19-Sep-15	10:19	Fine	013309	2.8762	2.8867	4113.27	4114.27	1.00	1.24	1.24	1.24	74	141.0
19-Sep-15	13:00	Fine	013325	2.8042	2.8149	4114.27	4115.27	1.00	1.24	1.24	1.24	74	143.7
25-Sep-15	10:53	Fine	013323	2.8063	2.8128	4139.27	4140.27	1.00	1.23	1.23	1.23	74	87.8
25-Sep-15	13:00	Fine	013321	2.8116	2.8150	4140.27	4141.27	1.00	1.23	1.23	1.23	74	45.9
25-Sep-15	14:05	Fine	013318	2.8252	2.8335	4141.27	4142.27	1.00	1.23	1.23	1.23	74	112.1

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level (μg/m3) -Limit Level (μg/m3) -171.2

260

Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
1-Sep-15	8:00	Cloudy	013106	2.7876	2.9402	20821.87	20845.87	24.00	1.24	1.25	1.24	1792	85.1
7-Sep-15	8:00	Cloudy	013144	2.8265	2.9452	20848.88	20872.88	24.00	1.24	1.24	1.24	1788	66.4
12-Sep-15	8:00	Cloudy	013266	2.8749	3.0407	20878.92	20902.92	24.00	1.24	1.24	1.24	1791	92.6
18-Sep-15	8:00	Fine	013249	2.8336	2.9975	20905.92	20929.92	24.00	1.24	1.24	1.24	1791	91.5
24-Sep-15	8:00	Fine	013304	2.8353	2.9225	20932.92	20956.92	24.00	1.24	1.24	1.24	1783	48.9

Report on 1-hour TSP monitoring Action Level (μg/m3) - 31 Limit Level (μg/m3) - 50 312.5 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-15	9:26	Cloudy	013160	2.8023	2.8109	20945.87	20946.87	1.00	1.25	1.25	1.25	75	115.0
2-Sep-15	10:35	Cloudy	013153	2.8004	2.8097	20846.87	20847.87	1.00	1.25	1.25	1.25	75	124.4
2-Sep-15	15:36	Cloudy	013149	2.8140	2.8209	20847.87	20848.87	1.00	1.25	1.25	1.25	75	92.3
8-Sep-15	8:23	Cloudy	013274	2.8588	2.8682	20872.88	20873.88	1.00	1.24	1.24	1.24	75	126.1
8-Sep-15	9:42	Cloudy	013272	2.8617	2.8716	20873.88	20874.88	1.00	1.24	1.24	1.24	75	132.8
8-Sep-15	14:00	Cloudy	013268	2.8618	2.8722	20877.92	20878.92	1.00	1.24	1.24	1.24	75	139.5
14-Sep-15	8:56	Fine	013263	2.8118	2.8213	20902.92	20903.92	1.00	1.24	1.24	1.24	75	127.3
14-Sep-15	10:06	Fine	013258	2.8281	2.8376	20903.92	20904.92	1.00	1.24	1.24	1.24	75	127.3
14-Sep-15	13:00	Fine	013251	2.8568	2.8660	20904.92	20905.92	1.00	1.24	1.24	1.24	75	123.3
19-Sep-15	8:43	Fine	013291	2.8571	2.8701	20929.92	20930.92	1.00	1.24	1.24	1.24	75	174.2
19-Sep-15	10:19	Fine	013296	2.8627	2.8739	20930.92	20931.92	1.00	1.24	1.24	1.24	75	150.1
19-Sep-15	13:00	Fine	013300	2.8616	2.8741	20931.92	20932.92	1.00	1.24	1.24	1.24	75	167.5
25-Sep-15	10:49	Fine	013329	2.8123	2.8185	20956.92	20957.92	1.00	1.24	1.24	1.24	74	83.5
25-Sep-15	13:00	Fine	013088	2.7938	2.7982	20957.92	20958.92	1.00	1.24	1.24	1.24	74	59.3
25-Sep-15	14:12	Fine	013319	2.8023	2.8060	20958.92	20959.92	1.00	1.24	1.24	1.24	74	49.8

Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring Action Level (µg/m3) - 181 Limit Level (µg/m3) - 260

260

Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial			Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
1-Sep-15	8:00	Cloudy	013105	2.8033	2.9160	5332.87	5356.87	24.00	1.06	1.06	1.06	1523	74.0
7-Sep-15	8:00	Cloudy	013143	2.8447	2.9484	5359.87	5383.87	24.00	1.03	1.03	1.03	1480	70.1
12-Sep-15	8:00	Cloudy	013127	2.8267	3.0071	5386.87	5410.87	24.00	1.03	1.03	1.03	1483	121.6
18-Sep-15	8:00	Fine	013247	2.8286	3.0121	5413.87	5437.87	24.00	1.03	1.03	1.03	1483	123.8
24-Sep-15	8:00	Fine	013253	2.8129	2.9290	5440.87	5464.87	24.00	1.08	1.02	1.05	1513	76.7

Report on 1-hour TSP monitoring

Action Level (µg/m3) -Limit Level (µg/m3) -332

500

Date	Sampling	Weather	Filter paper	Filter Weight, g E		Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-15	9:14	Cloudy	013161	2.8035	2.8131	5356.87	5357.87	1.00	0.98	0.98	0.98	59	163.4
2-Sep-15	10:16	Cloudy	013154	2.8038	2.8088	5357.87	5358.87	1.00	0.98	0.98	0.98	59	85.1
2-Sep-15	13:00	Cloudy	013150	2.8250	2.8342	5358.87	5359.87	1.00	1.03	1.03	1.03	62	148.5
8-Sep-15	13:00	Cloudy	013096	2.8073	2.8161	5383.87	5384.87	1.00	0.98	0.98	0.98	59	150.4
8-Sep-15	14:03	Cloudy	013093	2.8123	2.8223	5384.87	5385.87	1.00	0.98	0.98	0.98	59	170.9
8-Sep-15	15:06	Cloudy	013090	2.8152	2.8253	5385.87	5386.87	1.00	0.98	0.98	0.98	59	172.6
14-Sep-15	8:42	Fine	013264	2.8078	2.8152	5410.87	5411.87	1.00	1.03	1.03	1.03	62	119.8
14-Sep-15	9:56	Fine	013259	2.8345	2.8440	5411.87	5412.87	1.00	0.98	0.98	0.98	59	162.1
14-Sep-15	11:00	Fine	013252	2.8383	2.8474	5412.87	5413.87	1.00	0.98	0.98	0.98	59	155.3
19-Sep-15	8:31	Fine	013313	2.8507	2.8678	5437.87	5438.87	1.00	0.98	0.98	0.98	59	291.8
19-Sep-15	9:35	Fine	013295	2.8563	2.8735	5438.87	5439.87	1.00	0.98	0.98	0.98	59	293.5
19-Sep-15	11:00	Fine	013252	2.8586	2.8665	5439.87	5440.87	1.00	1.08	1.08	1.08	65	121.6
25-Sep-15	10:42	Fine	013330	2.8080	2.8196	5464.87	5465.87	1.00	1.02	1.02	1.02	61	189.0
25-Sep-15	14:20	Fine	013425	2.8667	2.8767	5465.87	5466.87	1.00	1.02	1.02	1.02	61	163.0
25-Sep-15	15:24	Fine	013428	2.8545	2.8610	5466.87	5467.87	1.00	0.97	0.97	0.97	58	111.7

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

 Action Level 187.3
 μg/m3

 Limit Level 260
 μg/m3

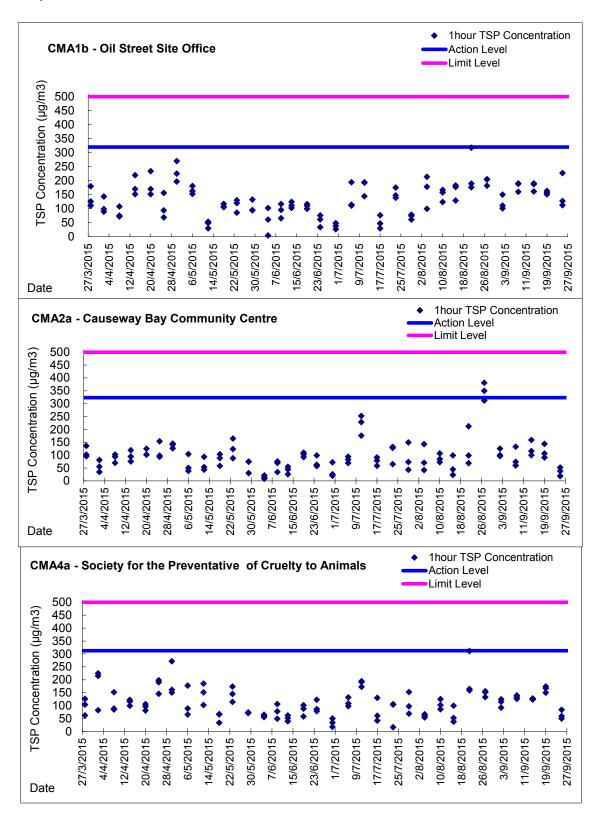
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	no.	Initial			Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
1-Sep-15	8:00	Cloudy	012993	2.8021	2.9600	20404.66	20428.66	24.00	1.22	1.22	1.22	1754	90.0
7-Sep-15	8:00	Cloudy	013275	2.8571	2.9894	20431.65	20455.65	24.00	1.21	1.21	1.21	1749	75.7
12-Sep-15	8:00	Cloudy	013254	2.8254	3.0087	20458.65	20482.65	24.00	1.22	1.22	1.22	1753	104.6
18-Sep-15	8:00	Fine	013241	2.8493	3.0288	20485.65	20509.65	24.00	1.22	1.22	1.22	1752	102.4
24-Sep-15	8:00	Fine	013335	2.8141	2.9303	20512.65	20536.65	24.00	1.21	1.21	1.21	1743	66.7

Report on 1-hour TSP monitoring Action Level - $300.1 \,\mu \,\text{g/m}^3$ Limit Level - $500 \,\mu \,\text{g/m}3$

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Sep-15	9:00	Cloudy	013163	2.8029	2.8124	20428.68	20429.68	1.00	1.22	1.22	1.22	73	129.8
2-Sep-15	10:04	Cloudy	013158	2.8151	2.8244	20429.68	20430.68	1.00	1.22	1.22	1.22	73	127.0
2-Sep-15	13:00	Cloudy	013108	2.8073	2.8170	20430.68	20431.68	1.00	1.22	1.22	1.22	73	132.5
8-Sep-15	13:00	Cloudy	013095	2.8047	2.8163	20455.66	20456.66	1.00	1.21	1.21	1.21	73	159.1
8-Sep-15	14:10	Cloudy	013091	2.7986	2.8105	20456.66	20457.66	1.00	1.21	1.21	1.21	73	163.2
8-Sep-15	15:25	Cloudy	013166	2.8279	2.8381	20457.66	20458.66	1.00	1.21	1.21	1.21	73	139.9
14-Sep-15	8:33	Fine	013126	2.8137	2.8235	20482.65	20483.65	1.00	1.22	1.22	1.22	73	134.2
14-Sep-15	9:39	Fine	013124	2.8135	2.8242	20483.65	20484.65	1.00	1.22	1.22	1.22	73	146.6
14-Sep-15	11:00	Fine	013122	2.8020	2.8137	20484.65	20485.65	1.00	1.22	1.22	1.22	73	160.3
19-Sep-15	8:20	Fine	013284	2.8779	2.8901	20509.65	20510.65	1.00	1.22	1.22	1.22	73	167.1
19-Sep-15	9:53	Fine	013293	2.8495	2.8618	20510.65	20511.65	1.00	1.22	1.22	1.22	73	168.5
19-Sep-15	10:57	Fine	013326	2.8028	2.8164	20511.65	20512.65	1.00	1.22	1.22	1.22	73	186.3
25-Sep-15	8:33	Fine	013324	2.8005	2.8109	20536.65	20537.65	1.00	1.21	1.21	1.21	73	143.4
25-Sep-15	14:00	Fine	013423	2.8447	2.8524	20537.65	20538.65	1.00	1.21	1.21	1.21	73	106.2
25-Sep-15	15:10	Fine	013416	2.8701	2.8766	20538.65	20539.65	1.00	1.21	1.21	1.21	73	89.6

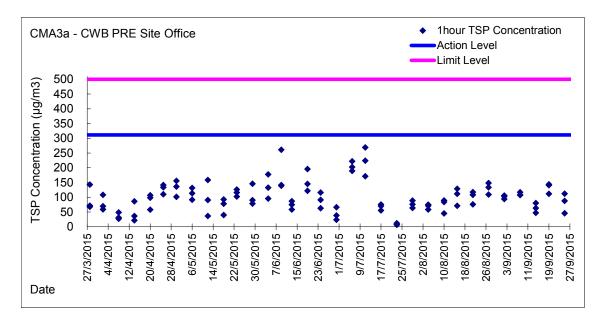


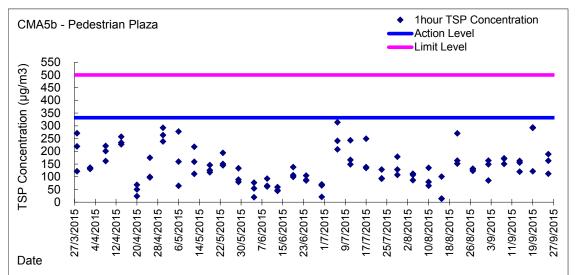
Graphic Presentation of 1 hour TSP Result

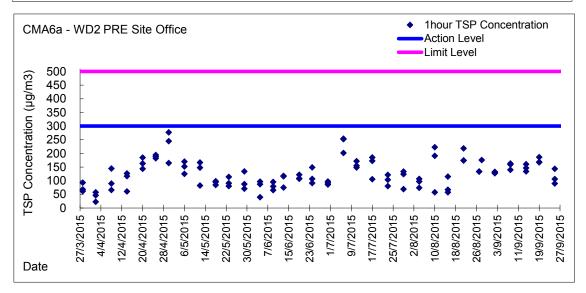




Graphic Presentation of 1 hour TSP Result

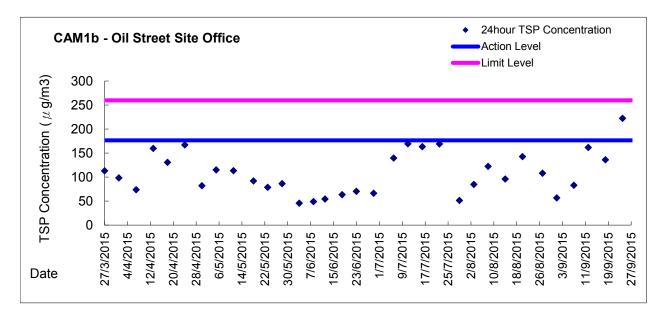


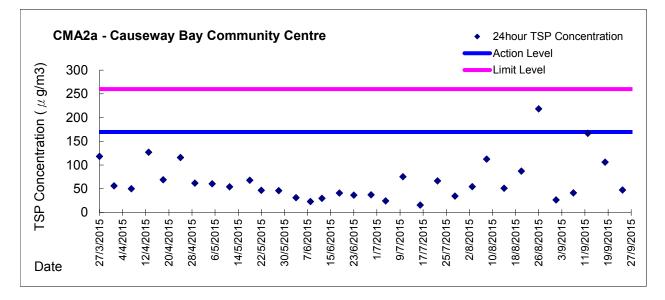


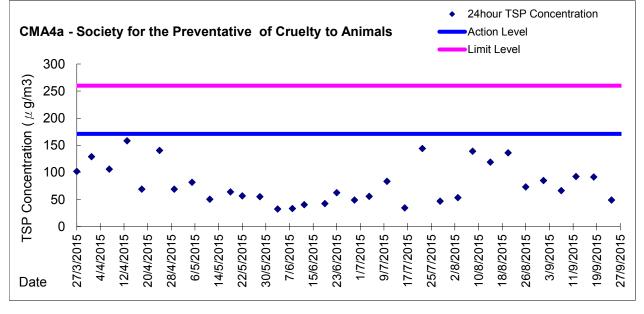




Graphic Presentation of 24 hour TSP Result

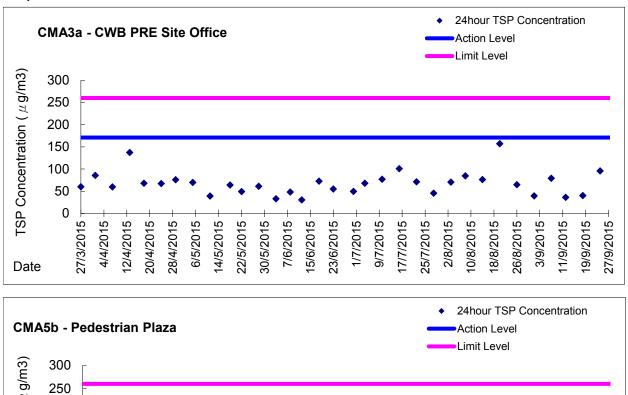


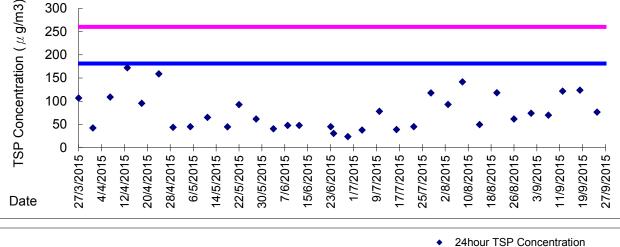


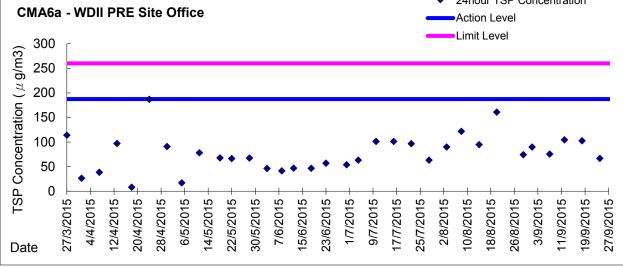




Graphic Presentation of 24 hour TSP Result









		Field Data Recor	d Sheet			
Monitoring	15 September 2015	Weather Condition:	Fine	Tidal	Ebb	
Date:				Condition:		
Temperature:	<u>31.5°C – 34.5°C</u>	Relative Humidity:	<u>54.4% - 62.3%</u>			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:15	31.7	59.4	0	/	/	/	0.5	NNE	
OP6	13:20	31.5	62.3	0	/	/	/	2.1	N	
OP5	13:25	34.0	54.8	0	/	/	/	2.0	WSW	
OP4	13:30	31.6	57.9	0-1	Culvert Discharge	Culvert	Intermittent	1.3	NNW	
OP3	13:35	32.0	59.0	0-1	Culvert Discharge	Sea	Intermittent	2.4	NEE	
OP2	13:40	33.4	55.5	1	Seawater	Sea	Persistent	0.6	NE	
OP1	13:45	34.5	54.4	0-1	Seawater	Sea	Persistent	1.7	NE	

Remarks for Odour Intensity:

The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:

0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterised or described;

1 – Slight Identifiable odour, and slight chance to have odour nuisance;

2 – Moderate Identifiable odour, and moderate chance to have odour nuisance

3 - Strong Identifiable, likely to have odour nuisance;

4 – Extreme Severe odour, and unacceptable level

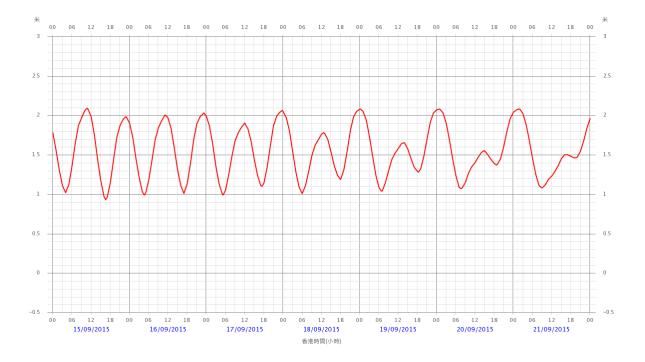


Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

Meteorological Conditions on 15 September 2015

- Hong Kong Observatory Weather Station at Hong Kong Observatory
 Air Temperature: 26.5 31.9 ℃
 Relative humidity: 58 81%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 26.5 – 31.1 ℃
- The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
03:59	1.0
10:39	2.1
16:31	0.9
22:45	2.0





		Field Data Recor	d Sheet			
Monitoring	1 September 2015	Weather Condition:	Cloudy	Tidal	Ebb	
Date:				Condition:		
Temperature:	29.4°C – 32.5°C	Relative Humidity:	73.2% - 78.8%			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:26	30.6	77.2	0	/	/	/	0.4	NW	
OP6	13:31	31.0	76.1	0-1	Sea Water	Sea	Intermittent	0.8	SSW	
OP5	13:37	30.2	78.8	0-1	Culvert discharge	Sea	Intermittent	3.6	ESE	
OP4	13:42	29.6	78.8	1	Culvert discharge	Sea	Intermittent	32	ENE	
OP3	13:49	29.4	78.7	0-1	Culvert discharge	Sea	Intermittent	1.5	ESE	
OP2	13:57	32.5	73.2	0-1	Culvert discharge	Sea	Persistent	1.0	NNE	
OP1	14:00	30.9	73.9	1	Culvert discharge	Sea	Persistent	1.2	ENE	

Remarks for Odour Intensity:

The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:

0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterised or described;

1 - Slight Identifiable odour, and slight chance to have odour nuisance;

2 - Moderate Identifiable odour, and moderate chance to have odour nuisance

3 - Strong Identifiable, likely to have odour nuisance;

4 – Extreme Severe odour, and unacceptable level



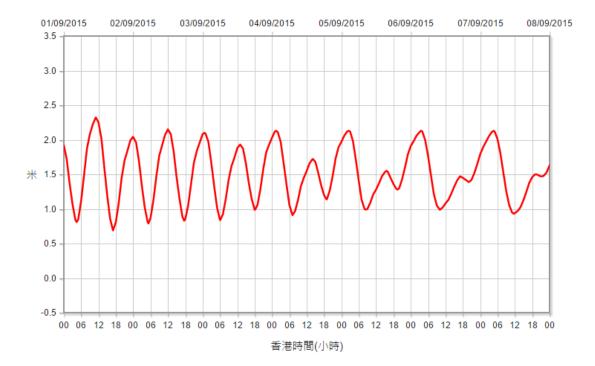
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Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

Meteorological Conditions on 1 September 2015

- Hong Kong Observatory Weather Station at Hong Kong Observatory
 Air Temperature: 28.9 25.7 ℃
 Relative humidity: 83 96%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 24.7 – 28.9 ℃
- The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
04:27	0.8
11:07	2.3
17:02	0.7
23:52	2.0





Appendix 5.4

Water Quality and Additional Dissolved Oxygen Monitoring Results and Graphical Presentations

Water Monitoring Result at C7 - Windsor House Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	perature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU			led Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
29/8/2015	18:45	Fine	Middle	-	26.70	26.70	26.70	8.14	8.14	8.14	31.99	31.99	31.99	60.5	59.3	59.9	4.05	3.97	4.01	4.60	4.59	4.68	3	3.00
29/8/2015	18:47	Fine	Middle	-	26.70	26.70	26.70	8.13	8.13	0.14	31.98	31.98	31.99	59.3	60.5	59.9	3.97	4.05	4.01	4.62	4.91	4.00	3	3.00
31/8/2015	18:40	Cloudy	Middle	-	26.90	26.90	26.90	8.25	8.25	8.25	31.95	31.95	31.95	69.6	70.2	70.2	4.64	4.68	4.68	2.15	2.28	2.15	2	2.50
51/6/2013	18:41	Cloudy	Middle	-	26.90	26.90	20.90	8.25	8.25	0.25	31.95	31.95	31.85	70.3	70.7	70.2	4.68	4.71	4.00	2.10	2.08	2.15	3	2.50
2/9/2015	18:15	Cloudv	Middle	-	25.60	25.60	25.60	8.07	8.07	8.07	31.52	31.52	31.53	72.5	72.4	72.4	4.95	4.95	4.94	2.59	2.45	2.48	4	4.00
2,0,2010	18:16	cloudy	Middle	-	25.60	25.60	20100	8.06	8.06	0.01	31.54	31.54	01100	72.1	72.4		4.92	4.95		2.50	2.38	2.1.0	4	
4/9/2015	11:25	Fine	Middle	-	27.10	27.10	27.25	8.04	8.04	8.06	31.22	31.22	31.22	79.7	80.1	79.4	5.31	5.33	5.29	3.50	3.38	3.40	3	3.50
	11:27	1 110	Middle	-	27.40	27.40	2.1.20	8.08	8.08	0.00	31.21	31.23	01122	78.6	79.0		5.23	5.27	0.20	3.36	3.34	0.10	4	0.00
7/9/2015	15:40	Fine	Middle	-	27.30	27.30	27.35	8.07	8.07	8.07	29.21	29.21	29.21	70.9	71.8	71.6	4.77	4.83	4.81	4.00	4.00	3.97	4	4.00
	15:42	-	Middle	-	27.40	27.40		8.07	8.07		29.21	29.21		72.0	71.6		4.84	4.81		3.93	3.96		4	
9/9/2015	17:35	Fine	Middle	-	27.50	27.50	27.55	8.13	8.13	8.13	30.99	30.99	30.99	79.9	80.0	80.6	5.30	5.31	5.35	5.40	5.35	5.35	3	2.50
	17:37		Middle	-	27.60	27.60		8.10	8.16		30.99	30.99		81.4	81.2		5.40	5.38		5.32	5.32		2	
11/9/2015	11:50	Fine	Middle	-	27.50	27.50	27.55	8.19	8.19	8.19	31.72	31.72	31.72	73.4	74.7	74.2	4.85	4.94	4.88	3.63	3.65	3.66	4	4.00
	11:52		Middle	-	27.60	27.60		8.19	8.19		31.72	31.72		73.3	75.5		4.85	4.86		3.68	3.69		4	
14/9/2015	18:45	Fine	Middle	-	27.80	27.80	27.80	8.09	8.09	8.09	32.31	32.31	32.31	71.9	72.6	71.8	4.71	4.76	4.71	15.56	15.22	15.31	6	6.00
	18:46		Middle	-	27.80	27.80		8.09	8.09		32.31	32.31		72.0	70.8		4.72	4.64		15.41	15.03		6	
16/9/2015	18:27	Cloudy	Middle	-	28.00	28.00	28.00	8.09	8.09	8.10	32.15	32.15	32.16	73.4	73.5	73.0	4.81	4.81	4.78	3.27	3.29	3.25	2	2.50
	18:28		Middle	-	28.00	28.00		8.11	8.10		32.17	32.17		72.9	72.0		4.78	4.71		3.23	3.19		3	
18/9/2015	18:15	Fine	Middle	-	28.20	28.20	28.20	8.17	8.17	8.17	32.05	32.05	32.05	76.4	76.7	76.6	4.98	5.00	5.00	23.40	22.46	<u>22.52</u>	15	15.00
	18:16		Middle	-	28.20	28.20		8.16	8.16		32.05	32.05		76.8	76.5		5.01	5.00		21.89	22.31		15	
22/9/2015	11:43	Fine	Middle	-	29.60	29.60	29.60	8.22	8.22	8.21	30.24	30.24	30.24	72.4	75.3	74.2	4.66	4.85	4.78	5.89	5.89	5.88	2	2.00
	11:45		Middle	-	29.60	29.60		8.19	8.19		30.24	30.24		74.4	74.5		4.79	4.80		5.86	5.89		2	<u> </u>
24/9/2015	17:12	Fine	Middle	-	29.80	29.80	29.85	8.11	8.11	8.12	29.94	29.94	29.95	63.1	61.3	62.7	4.06	3.94	3.87	6.82	6.82	6.76	3	3.00
	17:14		Middle	-	29.90	29.90		8.13	8.13		29.95	29.95		68.7	57.7		3.77	3.71		6.71	6.70		3	
26/9/2015	-	Amber Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
	-	Ramotorini	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

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Water Monitoring Result at C1 - HKCEC Extension Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTU			led Solids a/L
		Condition	n	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
29/8/2015	17:21	Fine	Middle	2.5	26.30	26.30	26.23	8.16	8.16	8.17	32.06	32.06	32.06	62.4	60.4	60.3	4.20	4.07	4.06	6.43	6.36	6.38	5	4.50
	17:23		Middle	2.5	26.00	26.30		8.18	8.18		32.06	32.06		58.7	59.5		3.95	4.01		6.32	6.41		4	
31/8/2015	17:36	Cloudy	Middle	2.5	26.30	26.30	26.30	8.22	8.22	8.22	31.53	31.53	31.53	62.4	61.4	61.5	4.21	4.14	4.15	5.67	5.68	5.66	6	5.50
	17:38		Middle	2.5	26.30	26.30		8.22	8.22		31.53	31.53		61.1	61.0		4.13	4.12		5.65	5.63		5	
2/9/2015	19:53	Cloudy	Middle	2.0	25.40	25.40	25.40	8.17	8.17	8.17	31.83	31.83	31.83	73.8	73.7	72.9	5.06	5.04	4.99	9.76	9.57	9.59	12	12.00
	19:54		Middle	2.0	25.40	25.40		8.17	8.17		31.83	31.83		72.7	71.5		4.97	4.89		9.53	9.49		12	<u> </u>
4/9/2015	10:46	Fine	Middle	2.5	26.20	26.20	26.20	8.19	8.19	8.19	31.45	31.45	31.45	65.4	64.6	64.2	4.43	4.31	4.33	9.07	9.06	9.06	12	11.00
	10:48		Middle	2.5	26.20	26.20		8.19	8.19		31.45	31.45		63.5	63.1		4.30	4.27		9.06	9.06		10	<u> </u>
7/9/2015	15:06	Fine	Middle	2.5	27.30	27.30	27.30	8.15	8.15	8.15	29.62	29.62	29.62	69.0	70.9	69.5	4.64	4.76	4.67	4.15	4.17	4.16	2	2.50
	15:08		Middle	2.5	27.30	27.30		8.15	8.15		29.62	29.62		70.0	68.1		4.69	4.58		4.16	4.14		3	
9/9/2015	16:26	Fine	Middle	2.5	26.30	26.30	26.30	8.23	8.23	8.23	31.20	31.20	31.20	64.2	63.2	62.9	4.35	4.28	4.26	7.23	7.22	7.20	5	6.00
	16:28		Middle	2.5	26.30	26.30		8.22	8.22		31.19	31.19		62.4	61.8		4.22	4.18		7.20	7.15		7	<u> </u>
11/9/2015	10:40	Fine	Middle	2.5	26.90	26.90	26.95	8.30	8.30	8.30	32.22	32.22	32.22	64.1	63.0	62.4	4.17	4.19	4.13	8.26	8.22	8.18	6	5.50
	10:42		Middle	2.5	27.00	27.00		8.30	8.30		32.22	32.22		61.6	60.8		4.09	4.05		8.17	8.08		5	<u> </u>
14/9/2015	17:14	Fine	Middle	2.5	27.30	27.30	27.30	8.33	8.33	8.33	32.10	32.10	32.09	67.5	69.0	70.5	4.47	4.57	4.67	8.07	8.07	8.03	5	5.50
	17:16		Middle	2.5	27.30	27.30		8.33	8.33		32.08	32.09		73.3	72.1		4.85	4.77		8.00	7.98		6	
16/9/2015	20:06	Cloudy	Middle	2.0	27.60	27.60	27.65	8.24	8.24	8.24	32.24	32.24	32.25	77.2	78.9	78.6	5.08	5.21	5.17	8.18	8.09	8.05	9	9.50
	20:07		Middle	2.0	27.70	27.70		8.24	8.24		32.25	32.25		79.2	79.0		5.21	5.19		7.99	7.95		10	<u> </u>
18/9/2015	20:10	Fine	Middle	2.0	28.00	28.00	21.00	8.19	8.19	8.20	32.19	32.19	32.19	66.4	66.8	66.7	4.35	4.37	4.36	8.98	8.96	8.96	7	7.00
	20:11		Middle	2.0	0.00	28.00		8.20	8.20		32.19	32.19		66.7	66.9		4.36	4.37		8.93	8.96		7	
22/9/2015	16:00 16:02	Fine	Middle Middle	3.0 3.0	28.30 28.30	28.30 28.30	28.30	8.24 8.24	8.24 8.24	8.24	30.91 30.91	30.91 30.91	30.91	70.1 71.8	72.5 72.2	71.7	4.60 4.62	4.75 4.74	4.68	5.33 5.37	5.37 5.35	5.36	5	4.00
	15:46		Middle	2.5	28.30	28.30		8.24	8.24		30.91	30.91		68.5	66.1		4.62	4.74		8.14	8.04		6	<u> </u>
24/9/2015	15:46	Fine	Middle	2.5	29.30	29.30	29.30	8.27	8.27	8.27	30.67	30.67	30.67	64.7	62.8	65.5	4.43	4.27	4.24	7.99	7.98	8.04	6	6.00
	13.40		Middle	2.5	29.50	23.30		0.21	0.27		30.07	50.07		04.7	02.0		+.10	+.00		-	1.50		-	
26/9/2015		Amber Rainstorm	Middle	-	-			-	-		-			-			-	-		-			-	-
	-		Midule	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Water Monitoring Result at P1 - HKCEC Phase I Mid-Flood Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	perature	рН			Salinity			DO Saturation				DO			Turbid NTL			led Solids
		Condition	n	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	llue %	Average	Va	mg/L lue	Average	Va	alue	Average	mg Value	g/∟ Average
29/8/2015	17:05	Fine	Middle	2.5	26.70	26.70	26.75	8.22	8.22	8.23	32.12	32.12	32.13	60.3	58.5	60.0	4.04	3.92	4.02	6.15	6.02	6.12	4	4.50
29/8/2015	17:07	FILLE	Middle	2.5	26.80	26.80	20.75	8.25	8.24	0.23	32.13	32.13	32.13	59.9	61.3	00.0	4.01	4.10	4.02	6.00	6.29	0.12	5	4.50
31/8/2015	17:20	Cloudy	Middle	2.5	26.40	26.40	26.50	8.19	8.19	8.20	31.38	31.38	23.86	59.0	58.8	58.9	3.98	3.96	3.97	5.89	5.89	5.89	3	3.50
51/0/2015	17:22	Cloudy	Middle	2.5	26.60	26.60	20.50	8.21	8.21	0.20	31.33	1.33	23.00	58.9	58.9	56.5	3.97	3.97	5.97	5.88	5.90	5.69	4	3.50
2/9/2015	19:25	Cloudy	Middle	2.0	25.60	25.60	25.60	8.17	8.17	8.17	31.47	31.47	31.47	70.5	70.7	71.7	4.82	4.83	4.90	9.38	9.21	9.30	6	5.00
2,0,2010	19:26	cloudy	Middle	2.0	25.60	25.60	20.00	8.17	8.17	0.11	31.47	31.47	0	72.3	73.1		4.94	5.01		9.36	9.25	0.00	4	0.00
4/9/2015	10:30	Fine	Middle	2.5	27.10	27.10	27.25	8.15	8.15	8.16	31.48	31.48	31.41	68.2	67.6	67.5	4.54	4.50	4.49	7.74	7.69	7.74	9	9.00
4/0/2010	10:32		Middle	2.5	27.40	27.40	21.20	8.16	8.16	0.10	31.36	31.30	01.41	67.7	66.3	01.0	4.51	4.41	4.40	7.75	7.76	7.14	9	0.00
7/9/2015	14:50	Fine	Middle	2.5	28.30	28.30	28.35	8.10	8.10	8.11	29.50	29.50	29.51	67.1	66.6	66.7	4.42	4.40	4.40	5.12	5.13	5.20	3	3.00
1,0,2010	14:52	1 110	Middle	2.5	28.40	28.40	20.00	8.12	8.12	0.111	29.51	29.51	20101	66.7	66.3		4.40	4.37		5.33	5.23	0120	3	0.00
9/9/2015	16:10	Fine	Middle	2.5	27.30	27.30	27.45	8.12	8.12	8.15	31.26	31.26	31.22	71.9	69.4	69.4	4.77	4.61	4.61	6.02	5.83	5.84	3	3.50
0,0,2010	16:12	1 110	Middle	2.5	27.60	27.60	21110		8.17	0.10	31.17	31.17	01122	67.4	68.9		4.47	4.57		5.76	5.75	0.01	4	0.00
11/9/2015	10:24	Fine	Middle	2.5	27.10	27.10	27.10	8.27	8.27	8.28	32.17	32.17	32.17	79.7	77.6	77.3	5.31	5.16	5.14	6.89	6.76	6.76	5	4.50
	10:26	1 110	Middle	2.5	27.10	27.10	21110	8.29	8.29	0.20	32.16	32.16	02.111	76.5	75.3	11.0	5.09	5.01	0.11	6.72	6.68	0.10	4	
14/9/2015	17:00	Fine	Middle	2.5	28.60	28.60	28.60	8.33	8.33	8.33	32.16	32.16	32.16	69.9	68.4	67.8	4.52	4.42	4.39	8.17	8.15	8.15	5	5.00
	17:02		Middle	2.5	28.60	28.60		8.32	8.32		32.16	32.16		67.0	65.9		4.34	4.26		8.14	8.14		5	
16/9/2015	19:31	Cloudy	Middle	2.0	27.90	27.90	27.90	8.26	8.26	8.26	32.29	32.29	32.29	79.1	79.0	78.6	5.18	5.18	5.15	5.88	5.90	5.85	8	7.50
	19:32		Middle	2.0	27.90	27.90		8.25	8.25		32.29	32.29		78.5	77.9		5.14	5.10		5.78	5.82		7	
18/9/2015	19:32	Fine	Middle	2.0	28.30	28.30	28.30	8.19	8.19	8.20	31.98	31.98	31.98	75.6	76.2	75.6	4.92	4.97	4.93	8.89	8.69	8.75	7	6.50
	19:33		Middle	2.0	28.30	28.30		8.20	8.20		31.98	31.98		75.4	75.2		4.91	4.90		8.71	8.72		6	
22/9/2015	15:35	Fine	Middle	3.0	28.90	28.90	28.90	8.26	8.26	8.26	30.76	30.76	30.77	74.1	77.0	75.9	4.82	5.00	4.94	5.48	5.44	5.44	3	2.50
	15:37		Middle	3.0	28.90	28.90		8.26	8.26		30.77	30.77		76.3	76.3		4.96	4.96	-	5.42	5.42	-	2	
24/9/2015	15:30	Fine	Middle	2.5	30.20	30.20	30.35	8.23	8.23	8.24	30.55	30.55	30.56	76.6	76.7	75.0	4.87	4.87	4.77	6.82	6.92	6.89	4	3.50
	15:32		Middle	2.5	30.50	30.50		8.25	8.25		30.56	30.56		71.9	74.8		4.57	4.75		6.95	6.88		3	
26/9/2015	-	Amber	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
	-	Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

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Water Monitoring Result at P3 - APA Mid-Flood Tide

Date	Time	Weater Condition	Samplin	Sampling Depth m		Water Temperate		pH			Salinity ppt		DO Saturation				DO mg/L		Turbidity NTU			Suspended Solids mg/L		
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/8/2015	17:09	Fine	Middle	2.5	26.40	26.40	26.45	8.20	8.20	8.20	32.08	32.08	32.08	60.0	58.7	59.1	4.04	3.94	3.97	4.68	4.79	4.77	3	- 3.00
	17:11		Middle	2.5	26.50	26.50		8.19	8.19		32.08	32.08		59.1	58.7		3.97	3.94		4.80	4.82		3	<u> </u>
31/8/2015	17:24	Cloudy	Middle	2.5	26.20	26.20	26.20	8.22	8.22	8.23	31.32	31.32	31.30	69.2	68.1	68.0	4.70	4.62	4.62	5.33	5.45	5.34	3	4.00
	17:26		Middle	2.5	26.20	26.20		8.23	8.23		31.28	31.28		67.7	67.1		4.60	4.56		5.33	5.23		5	
2/9/2015	19:31	Cloudy	Middle	2.0	25.40	25.40	25.45	8.16	8.16	8.16	31.49	31.49	31.49	71.2	71.9	71.4	4.88	4.93	4.89	5.82	5.49	5.54	5	5.00
	19:32		Middle	2.0	25.50	25.50		8.16	8.16		31.49	31.49		70.9	71.5		4.86	4.90		5.47	5.39		5	<u> </u>
4/9/2015	10:34	Fine	Middle	2.5	26.60	26.60	26.70	8.17	8.17	8.17	31.38	31.38	31.36	64.5	63.9	64.7	4.33	4.29	4.35	7.02	6.98	7.04	6	6.50
	10:36		Middle	2.5	26.80	26.80		8.16	8.16		31.34	31.34		65.2	65.2		4.38	4.38		7.07	7.07		7	<u> </u>
7/9/2015	14:54	Fine	Middle	2.5	27.60	27.60	27.65	8.12	8.12	8.12	29.70	29.70	29.73	62.4	62.9	62.9	4.17	4.20	4.20	3.99	3.94	3.91	5	4.00
	14:56		Middle	2.5	27.70	27.70		8.12	8.12		29.76	29.76		63.3	63.1		4.23	4.21		3.88	3.83		3	<u> </u>
9/9/2015	16:14	Fine	Middle	2.5	26.70	26.70	26.80	8.18	8.18	8.18	31.35	31.35	31.33	68.5	68.8	67.6	4.60	4.61	4.53	6.88	6.74	6.76	5	4.50
	16:16		Middle	2.5	26.90	26.90		8.18	8.18		31.31	31.31		67.6	65.5		4.53	4.39		6.71	6.70		4	<u> </u>
11/9/2015	10:28	Fine	Middle	2.5	26.60	26.60	26.65	8.30	8.30	8.31	32.11	32.11	32.10	75.4	75.4	74.6	5.05	5.05	5.00	6.84	6.88	6.74	6	5.50
	10:30		Middle	2.5	26.70	26.70		8.31	8.31		32.09	32.09		74.5	73.1		4.99	4.89		6.69	6.55		5	<u> </u>
14/9/2015	17:02	Fine	Middle	2.5	27.60	27.60	27.70	8.33	8.33	8.33	32.10	32.10	32.08	70.1	68.3	68.5	4.63	4.51	4.52	7.46	7.46	7.46	5	5.00
	17:04		Middle	2.5	27.80	27.80		8.32	8.32		32.06	32.06		67.7	67.7		4.46	4.46		7.45	7.46		5	<u> </u>
16/9/2015	19:37	Cloudy	Middle	2.0	27.70	27.70	27.70	8.26	8.26	8.26	32.32	32.32	32.32	73.5	73.0	73.0	4.82	4.79	4.79	7.59	7.53	7.68	6	5.50
	19:38		Middle	2.0	27.70	27.70		8.26	8.26		32.32	32.32		72.7	72.9		4.77	4.79		7.81	7.77		5	<u> </u>
18/9/2015	19:39	Fine	Middle	2.0	28.20	28.20	28.20	8.22	8.22	8.22	32.02	32.02	32.03	71.2	73.2	72.1	4.64	4.77	4.71	6.45	6.29	6.28	6	6.00
	19:40 15:40		Middle Middle	2.0 3.0	28.20 28.70	28.20 28.70		8.22 8.25	8.22 8.25		32.03 30.81	32.03 30.81		72.4 76.5	71.7 78.2		4.73 4.99	4.68 5.10		6.25 4.57	6.13 4.56		6 3	<u> </u>
22/9/2015	15:40	Fine	Middle	3.0	28.70	28.70	28.70	8.23	8.23	8.24	30.81	30.85	30.83	76.5	76.9	77.3	5.05	5.01	5.04	4.57	4.50	4.59	2	2.50
	15:34		Middle	2.5	29.50	29.50		8.26	8.26		30.67	30.67		67.1	67.4		4.33	4.34		7.08	7.05		5	<u> </u>
24/9/2015	15:34	Fine	Middle	2.5	29.60	29.60	29.55	8.26	8.26	8.26	30.60	30.60	30.64	66.0	65.3	66.5	4.33	4.34	4.28	6.82	6.82	6.94	5	5.00
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
26/9/2015	-	Amber Rainstorm	Middle	-	-	-		-	-		-	_		-	-		-	-		-	-		-	1

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Water Monitoring Result at P4 - SOC Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Water Tem °C		perature	рН			Salinity ppt		ty	DO Satur		ation		DO ma/L		Turbidity NTU			Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
29/8/2015	17:13	Fine	Middle	2.5	26.40	26.40	26.40	8.18	8.18	8.18	32.05	32.05	32.06	56.0	54.2	54.0	3.76	3.65	3.63	4.83	4.59	4.64	3	- 3.50
	17:15	1 1110	Middle	2.5	26.40	26.40	20110	8.17	8.17	0.10	32.06	32.06	02.00	53.1	52.5	0 110	3.57	3.53	0.00	4.58	4.56		4	0.00
31/8/2015	17:28	Cloudy	Middle	2.5	26.10	26.10	26.10	8.23	8.23	8.23	31.28	31.28	31.33	69.6	68.5	68.6	4.72	4.65	4.65	5.89	5.91	5.90	4	4.50
	17:30		Middle	2.5	26.10	26.10		8.23	8.23		31.38	31.38		68.5	67.8		4.65	4.59		5.90	5.90		5	
2/9/2015	19:39	Cloudy	Middle	2.0	25.50	25.50	25.50	8.16	8.16	8.16	31.54	31.54	31.54	79.2	79.7	79.9	5.42	5.46	5.47	5.63	5.61	5.59	6	6.00
	19:40		Middle	2.0	25.50	25.50		8.16	8.16		31.54	31.54		80.6	80.0		5.52	5.48		5.58	5.55		6	
4/9/2015	10:38	Fine	Middle	2.5	26.20	26.20	26.25	8.16	8.16	8.17	31.46	31.46	31.43	67.0	67.3	68.2	4.54	4.56	4.60	9.34	9.40	9.44	12	11.00
	10:40		Middle	2.5	26.30	26.30		8.17	8.17		31.40	31.40		69.2	69.2		4.68	4.61		9.50	9.52		10	<u> </u>
7/9/2015	14:58 15:00	Fine	Middle Middle	2.5	27.40	27.40 27.50	27.45	8.14	8.14	8.15	29.56	29.56	29.56	69.7 67.3	68.8	68.0	4.67	4.61	4.56	5.46 5.74	5.29 5.75	5.56	4	3.50
	16:18		Middle	2.5 2.5	27.50 26.50	26.50		8.15 8.20	8.15 8.20		29.55 31.24	29.55 31.24		72.3	66.2 74.0		4.51 5.21	4.44 4.98		5.74 8.41	8.42		6	<u> </u>
9/9/2015	16:20	Fine	Middle	2.5	26.60	26.60	26.55	8.23	8.23	8.22	31.24	31.24	31.23	73.2	74.0	73.1	4.93	4.90	5.01	8.42	8.32	8.39	7	6.50
	10:20		Middle	2.5	26.60	26.60		8.31	8.31		31.98	31.98		71.4	70.0		4.79	4.69		6.91	6.93		5	$\left \right $
11/9/2015	10:34	Fine	Middle	2.5	26.60	26.60	26.60	8.31	8.31	8.31	32.08	32.08	32.03	67.5	66.8	68.9	4.53	4.48	4.62	6.83	6.83	6.88	7	6.00
	17:06		Middle	2.5	27.40	27.40		8.32	8.32		32.09	32.09		76.3	75.3		5.05	4.96		8.17	8.04		6	
14/9/2015	17:08	Fine	Middle	2.5	27.50	27.50	27.45	8.33	8.33	8.33	32.06	32.06	32.08	75.1	72.0	74.7	4.95	4.75	4.93	8.11	8.07	8.10	5	5.50
10/0/00/15	19:43	0	Middle	2.0	27.40	27.40	07.45	8.27	8.27	0.07	32.26	32.26		71.1	72.3	70.0	4.69	4.77	4.70	9.87	9.72		10	40.50
16/9/2015	19:44	Cloudy	Middle	2.0	27.50	27.50	27.45	8.27	8.27	8.27	32.26	32.26	32.26	72.9	72.7	72.3	4.80	4.79	4.76	9.95	9.91	9.86	11	10.50
18/9/2015	19:48	Fine	Middle	2.0	28.10	28.10	28.10	8.22	8.22	8.22	32.15	32.15	32.15	80.2	80.4	80.1	5.24	5.25	5.23	9.41	9.39	9.36	8	7.50
10/9/2015	19:49	Fille	Middle	2.0	28.10	28.10	26.10	8.22	8.22	0.22	32.15	32.15	32.15	80.1	79.6	80.1	5.23	5.19	5.25	9.35	9.30	9.50	7	7.50
22/9/2015	15:50	Fine	Middle	3.0	28.70	28.70	28.70	8.24	8.24	8.24	30.87	30.87	30.87	80.1	80.7	79.5	5.22	5.27	5.19	6.84	6.83	6.84	3	3.50
22,0/2010	15:52	1 1/10	Middle	3.0	28.70	28.70	20.70	8.24	8.24	0.27	30.87	30.87	00.07	78.4	78.9	, 5.5	5.11	5.15	0.10	6.83	6.84	0.04	4	0.00
24/9/2015	15:38	Fine	Middle	2.5	29.30	29.30	29.35	8.27	8.27	8.27	30.62	30.62	30.61	74.3	70.1	70.4	4.80	4.53	4.55	8.43	8.49	8.49	5	5.50
	15:40	-	Middle	2.5	29.40	29.40		8.27	8.27	-	30.59	30.59		68.7	68.4	-	4.44	4.42		8.51	8.52		6	
26/9/2015	-	Amber	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
	-	Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Water Monitoring Result at P5 - WCT / RT / IT Mid-Flood Tide

Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	perature	рН			Salinity			DO Saturation				DO			Turbid NTI			led Solids
		Condition	r	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	lue %	Average	Va	mg/L lue	Average	Va		Average	mg Value	g/∟ Average
29/8/2015	17:17	Fine	Middle	2.5	26.30	26.30	26.35	8.16	8.16	8.15	32.05	32.05	32.05	55.3	54.5	54.0	3.72	3.66	3.63	4.00	3.81	3.83	3	3.50
23/0/2013	17:19	TING	Middle	2.5	26.40	26.40	20.00	8.14	8.14	0.10	32.05	32.06	32.03	53.8	52.5	34.0	3.62	3.53	5.05	3.76	3.75	5.00	4	3.50
31/8/2015	17:32	Cloudy	Middle	2.5	26.20	26.20	26.20	8.22	8.22	8.22	31.52	31.52	31.52	61.2	60.0	59.5	4.15	4.06	4.03	5.88	6.08	6.01	5	5.00
01/0/2010	17:34	cloudy	Middle	2.5	26.20	26.20	20.20	8.22	8.22	0.22	31.52	31.52	01102	58.7	58.0	00.0	3.97	3.93		6.06	6.03	0.01	5	0.00
2/9/2015	19:43	Cloudy	Middle	2.0	25.40	25.40	25.40	8.12	8.12	8.12	31.81	31.81	31.81	70.4	71.0	70.7	4.82	4.86	4.84	9.50	9.39	9.46	11	10.50
	19:44		Middle	2.0	25.40	25.40		8.12	8.12	-	31.81	31.81		71.2	70.1		4.87	4.79		9.25	9.68		10	
4/9/2015	10:42	Fine	Middle	2.5	26.30	26.30	26.35	8.18	8.18	8.19	31.41	31.41	31.41	68.9	68.5	68.3	4.66	4.63	4.61	9.58	9.46	9.49	10	10.00
	10:44		Middle	2.5	26.40	26.40		8.19	8.19		31.40	31.41		68.2	67.4		4.60	4.55	-	9.44	9.47		10	
7/9/2015	15:02	Fine	Middle	2.5	27.20	27.20	27.25	8.15	8.15	8.15	29.69	29.69	29.69	68.4	66.3	66.8	4.60	4.46	4.49	4.56	4.52	4.54	5	5.00
	15:04		Middle	2.5	27.30	27.30		8.15	8.15		29.68	29.68		65.6	66.7		4.41	4.49		4.53	4.54		5	
9/9/2015	16:22	Fine	Middle	2.5	26.30	26.30	26.35	8.24	8.24	8.24	31.26	31.26	31.26	62.0	61.3	61.4	4.19	4.15	4.15	8.23	8.18	8.19	4	3.50
	16:24		Middle	2.5	26.40	26.40		8.23	8.23		31.25	31.25		61.1	61.1		4.13	4.13		8.15	8.18		3	
11/9/2015	10:36	Fine	Middle	2.5	26.60	26.60	26.80	8.31	8.31	8.31	30.19	30.19	31.20	72.9	71.0	71.6	4.86	4.73	4.77	7.69	7.74	7.65	8	9.00
	10:38		Middle	2.5	27.00	27.00		8.31	8.31		32.21	32.21		70.6	72.0		4.70	4.79		7.63	7.55		10	
14/9/2015	17:10	Fine	Middle	2.5	27.40	27.40	27.45	8.33	8.33	8.33	32.07	32.07	32.07	69.0	65.9	66.6	4.56	4.42	4.42	7.88	7.88	7.86	5	5.00
	17:12		Middle	2.5	27.50	27.50		8.33	8.33		32.07	32.07		67.3	64.0		4.45	4.23		7.89	7.80		5	
16/9/2015	19:50	Cloudy	Middle	2.0	27.50	27.50	27.50	8.28	8.28	8.28	32.19	32.19	32.21	73.6	74.2	73.3	4.85	4.89	4.83	8.93	8.87	8.78	8	9.00
	19:51		Middle	2.0	27.50	27.50		8.27	8.27		32.23	32.23		72.5	73.0		4.78	4.81		8.72	8.58		10	
18/9/2015	19:56	Fine	Middle	2.0	28.00	28.00	28.05	8.21	8.21	8.21	32.17	32.17	32.17	66.8	67.1	67.0	4.36	4.39	4.37	6.44	6.48	6.45	6	5.50
	19:57		Middle	2.0	28.10	28.10		8.21	8.21		32.16	32.16		66.9	67.0		4.36	4.38		6.50	6.37		5	<u> </u>
22/9/2015	15:55	Fine	Middle	3.0	28.40	28.40	28.40	8.25	8.25	8.25	30.88	30.88	30.88	73.0	73.1	73.1	4.78	4.78	4.78	6.67	6.60	6.66	2	2.50
	15:57		Middle	3.0	28.40	28.40		8.25	8.25		30.87	30.87		72.5	73.6		4.74	4.82		6.69	6.69		3	<u> </u>
24/9/2015	15:42	Fine	Middle	2.5	29.30	29.30	29.30	8.28	8.28	8.28	30.68	30.69	30.67	64.8	61.9	61.4	4.18	3.99	3.96	8.55	8.42	8.42	7	7.00
	15:44		Middle	2.5	29.30	29.30		8.28	8.28		30.66	30.66		60.2	58.6		3.89	3.78		8.35	8.35		7	<u> </u>
26/9/2015	-	Amber Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	



Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	perature	pH -			Salinity ppt			D	O Satur %	ration		DO ma/L			Turbid NTU		Suspended Solids mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/8/2015	17:35	Fine	Middle	3.5	26.20	26.20	26.20	8.21	8.21	8.22	31.94	31.94	31.94	59.3	58.1	57.5	4.01	3.92	3.88	7.95	7.97	7.98	8	7.50
29/0/2013	17:37	1 IIIe	Middle	3.5	26.20	26.20	20.20	8.22	8.22	0.22	31.93	31.93	51.84	56.6	56.1	57.5	3.82	3.78	5.00	7.99	8.00	7.90	7	7.50
31/8/2015	19:45	Cloudy	Middle	3.0	26.10	26.10	26.15	8.14	8.14	8.14	32.09	32.09	32.09	77.1	76.1	77.2	5.21	5.14	5.22	8.07	8.01	8.02	7	6.50
01/0/2010	19:46	cloudy	Middle	3.0	26.20	26.20	20.10	8.14	8.14	0.14	32.09	32.09	02.00	77.7	78.0	11.2	5.25	5.27	0.22	8.03	7.96	0.02	6	0.00
2/9/2015	18:45	Cloudy	Middle	3.0	25.30	25.30	25.30	8.08	8.08	8.09	31.47	31.47	31.47	68.1	67.6	67.4	4.68	4.65	4.63	7.40	7.51	7.38	7	6.50
	18:46	,	Middle	3.0	25.30	25.30		8.10	8.09		31.47	31.47		67.6	66.2		4.64	4.55		7.33	7.29		6	
4/9/2015	11:00	Fine	Middle	3.5	26.10	26.10	26.10	8.15	8.15	8.16	31.43	31.43	31.42	61.8	61.1	60.6	4.19	4.15	4.11	13.11	12.56	<u>12.83</u>	11	11.00
	11:02		Middle	3.5	26.10	26.10		8.16	8.16		31.40	31.40		60.3	59.1		4.08	4.01		12.83	12.82		11	
7/9/2015	15:18	Fine	Middle	3.5	27.30	27.30	27.20	8.10	8.10	8.11	29.45	29.45	29.51	69.0	67.3	66.4	4.65	4.54	4.48	5.15	5.12	5.11	4	3.50
	15:20		Middle	3.5	27.10	27.10		8.12	8.12		29.57	29.57		65.6	63.6		4.43	4.29		5.08	5.08		3	
9/9/2015	16:36	Fine	Middle	3.5	26.50	26.50	26.55	8.19	8.19	8.20	31.22	31.22	31.21	70.8	69.3	68.7	4.77	4.68	4.63	7.45	7.36	7.44	4	4.00
	16:38		Middle	3.5	26.60	26.60		8.21	8.21		31.19	31.19		67.7	66.8		4.56	4.50		7.44	7.49		4	
11/9/2015	10:50	Fine	Middle	3.5	26.70	26.70	26.75	8.30	8.30	8.30	32.28	32.28	32.25	71.0	70.3	70.5	4.75	4.70	4.71	6.01	5.93	5.93	6	7.00
	10:52		Middle	3.5	26.80	26.80		8.30	8.30		32.22	32.22		70.4	70.2		4.71	4.69		5.90	5.89		8	
14/9/2015	21:19	Fine	Middle	3.5	26.90	26.90	26.93	8.29	8.29	8.30	32.54	32.54	32.54	76.7	78.0	77.6	5.09	5.18	5.15	9.96	9.79	9.71	9	9.00
	21:20		Middle	3.5	27.00	26.90		8.30	8.30		32.53	32.53		78.2	77.3		5.19	5.12		9.56	9.53		9	
16/9/2015	18:53	Cloudy	Middle	3.0	27.80	27.80	27.80	8.20	8.20	8.21	32.33	32.33	32.33	71.8	74.0	73.0	4.71	4.83	4.78	6.94	6.44	6.65	6	6.00
	18:54		Middle	3.0	27.80	27.80		8.21	8.21		32.32	32.32		72.8	73.4		4.78	4.81		6.66	6.56		6	
18/9/2015	18:47	Fine	Middle	3.0	27.90	27.90	27.93	8.16	8.16	8.17	32.33	32.33	32.33	73.7	74.1	73.4	4.81	4.84	4.79	9.96	9.93	9.92	12	12.00
	18:48		Middle	3.0	28.00	27.90		8.17	8.17		32.33	32.33		73.0	72.6		4.76	4.74		9.92	9.88		12	
22/9/2015	11:10	Fine	Middle	3.5	29.30	29.30	29.45	8.57	8.57	8.51	30.53	30.53	30.56	79.2	79.5	79.0	5.11	5.12	5.09	8.00	8.00	8.01	4	4.00
	11:12		Middle	3.5	29.60	29.60		8.45	8.45		30.58	30.58		78.8	78.6		5.08	5.06		8.02	8.01		4	
24/9/2015	16:03	Fine	Middle	3.5	29.30	29.30	29.35	8.26	8.26	8.27	30.31	30.31	30.29	65.2	65.1	64.5	4.22	4.21	4.17	8.77	8.81	8.83	7	6.50
	16:05		Middle	3.5	29.40	29.40		8.27	8.27		30.27	30.27		64.2	63.3		4.15	4.09		8.90	8.83		6	
26/9/2015	-	Amber Rainstorm	Middle	-	-	-		-	-		-	-	-	-	-		-	-		-	-	-	-	
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Water Monitoring Result at WSD19 - Sheung Wan Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ration		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
29/8/2015	16:00	Fine	Middle	3.5	26.70	26.70	26.75	8.27	8.27	8.26	31.95	31.95	31.88	51.3	50.1	50.4	3.43	3.34	3.37	8.83	8.62	8.67	6	6.50
	16:02		Middle	3.5	26.80	26.80		8.24	8.24		31.80	31.80		50.0	50.3		3.33	3.36		8.62	8.60		7	
31/8/2015	20:33	Cloudy	Middle	2.5	25.80	25.80	25.85	7.96	7.96	7.91	31.85	31.85	31.86	73.9	73.2	72.6	5.01	4.96	4.95	9.36	9.21	9.34	7	6.00
	20:34		Middle	2.5	25.90	25.90		7.86	7.86		31.86	31.86		72.3	71.0		4.99	4.82		9.46	9.32		5	
2/9/2015	20:18	Cloudy	Middle	2.5	25.40	25.40	25.40	7.85	7.85	7.89	31.49	31.49	31.50	72.5	72.4	72.4	4.97	4.96	4.96	13.47	13.52	<u>13.46</u>	9	9.00
	20:19		Middle	2.5	25.40	25.40		7.93	7.93		31.50	31.50		72.3	72.3		4.96	4.96		13.37	13.49		9	
4/9/2015	9:52	Fine	Middle	3.5	26.70	26.70	26.75	8.30	8.30	8.29	31.61	31.61	31.61	57.4	56.0	55.8	3.85	3.74	3.74	9.16	9.14	9.14	13	12.00
	9:54 14:16		Middle Middle	3.5 3.5	26.80 27.40	26.80 27.40		8.27 8.12	8.27 8.12		31.60 29.20	31.60 29.20		55.1 69.0	54.7 67.8		3.69 4.63	3.67 4.55		9.13 15.54	9.12 15.18		11 18	
7/9/2015	14:18	Fine	Middle	3.5	27.40	27.40	27.45	8.13	8.13	8.13	29.20	29.20	29.21	68.0	67.6	68.1	4.03	4.55	4.57	15.06	15.01	<u>15.20</u>	19	<u>18.50</u>
	15:25		Middle	3.5	26.90	26.90		8.23	8.23		30.90	30.90		68.2	68.2		4.57	4.57		6.87	7.36		6	+
9/9/2015	15:27	Fine	Middle	3.5	27.00	27.00	26.95	8.22	8.22	8.23	30.86	30.86	30.88	68.2	67.3	68.0	4.57	4.51	4.56	7.21	7.15	7.15	4	5.00
	9:37		Middle	3.5	26.80	26.80		8.27	8.27		31.75	31.75		77.2	76.5		5.16	5.11		5.97	5.99		2	
11/9/2015	9:39	Fine	Middle	3.5	26.90	26.90	26.85	8.27	8.27	8.27	31.71	31.71	31.73	75.0	73.9	75.7	5.01	4.94	5.06	6.11	6.12	6.05	3	2.50
	20:00		Middle	3.5	27.00	27.00		8.17	8.17		32.14	32.14		82.7	83.1		5.49	5.52		10.76	10.55		9	<u> </u>
14/9/2015	20:01	Fine	Middle	3.5	27.00	27.00	27.00	8.18	8.18	8.18	32.16	32.16	32.15	81.0	82.0	82.2	5.38	5.44	5.46	10.62	10.67	<u>10.65</u>	10	9.50
16/9/2015	21:05	Cloudy	Middle	2.5	27.50	27.50	27.55	8.26	8.26	8.26	32.20	32.20	32.20	75.1	76.4	75.6	4.96	5.03	4.98	12.31	12.21	12.25	10	- 11.00
10/9/2013	21:06	Cloudy	Middle	2.5	27.60	27.60	21.55	8.26	8.27	0.20	32.19	32.19	32.20	75.6	75.4	73.0	4.98	4.96	4.90	12.22	12.24	12.25	12	11.00
18/9/2015	20:53	Fine	Middle	3.0	27.90	27.90	27.90	8.23	8.23	8.23	31.96	31.96	31.96	75.2	76.7	75.9	4.93	5.03	4.97	9.98	9.43	9.43	8	7.50
	20:54		Middle	3.0	27.90	27.90		8.23	8.23		31.96	31.96		76.3	75.2		5.00	4.93		9.22	9.08		7	
22/9/2015	14:52	Fine	Middle	3.5	28.60	28.60	28.60	8.31	8.31	8.30	30.85	30.85	30.85	66.5	66.0	65.3	4.34	4.30	4.26	8.35	8.35	8.35	3	3.50
	14:54		Middle	3.5	28.60	28.60		8.29	8.29		30.85	30.85		64.8	63.7		4.23	4.16		8.35	8.35		4	<u> </u>
24/9/2015	14:42	Fine	Middle	3.5	30.90	30.80	30.88	8.35	8.35	8.35	30.32	30.32	30.29	81.1	80.0	78.9	5.12	5.04	4.99	6.66	6.54	6.55	3	3.00
	14:44		Middle	3.5	30.90	30.90		8.34	8.34		30.25	30.25		78.0	76.4		4.93	4.85		6.50	6.49		3	<u> </u>
26/9/2015	-	Amber Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Water Monitoring Result at C1 - HKCEC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	oerature		pН			Salini ppt	ty	C	O Satu	ration		DO ma/L			Turbic NTL			led Solids a/L
		Condition	r	n	Va	ilue	Average	Va	lue -	Average	Va	ilue	Average	Va	alue	Average	Va		Average	Va	alue	Average	Value	g/∟ Average
29/8/2015	11:02	Fine	Middle	2.5	26.60	26.60	26.65	8.22	8.22	8.22	32.51	32.51	32.51	57.4	56.9	57.7	3.84	3.80	3.86	5.90	5.89	5.36	5	5.00
29/6/2015	11:04	FILIE	Middle	2.5	26.70	26.70	20.05	8.22	8.22	0.22	32.50	32.50	32.51	58.0	58.6	57.7	3.88	3.91	3.00	5.89	3.75	5.50	5	5.00
31/8/2015	14:47	Fine	Middle	2.5	26.40	26.40	26.40	8.22	8.22	8.22	31.76	31.76	31.76	70.2	68.6	68.3	4.73	4.62	4.60	7.54	7.01	7.08	6	6.00
31/0/2013	14:49	Tine	Middle	2.5	26.40	26.40	20.40	8.21	8.21	0.22	31.75	31.75	51.70	66.3	68.2	00.0	4.47	4.58	4.00	6.80	6.97	7.00	6	0.00
2/9/2015	15:16	Cloudy	Middle	2.5	25.50	25.50	25.50	8.18	8.18	8.19	31.55	31.55	31.57	68.0	69.7	68.9	4.65	4.77	4.71	6.97	6.96	7.00	5	5.00
	15:18		Middle	2.5	25.50	25.50		8.19	8.19		31.58	31.58		69.4	68.3		4.75	4.68		7.02	7.05		5	
4/9/2015	16:20	Fine	Middle	2.5	27.90	27.90	28.10	8.06	8.06	8.08	31.59	31.59	31.56	61.5	61.7	60.5	4.03	4.04	3.96	5.60	5.61	5.72	5	4.50
	16:22		Middle	2.5	28.30	28.30	20.10	8.09	8.09	0.00	31.53	31.53	01100	60.0	58.6	0010	3.92	3.83	0.00	5.80	5.88	0.12	4	
7/9/2015	9:26	Fine	Middle	2.5	27.00	27.00	27.00	8.23	8.23	8.23	28.84	28.84	28.84	70.6	69.8	70.3	4.79	4.73	4.75	4.28	4.16	4.17	<2	<2
	9:28	-	Middle	2.5	27.00	27.00		8.22	8.22		28.84	28.84		70.1	70.7		4.75	4.74	-	4.15	4.09		<2	
9/9/2015	11:04	Fine	Middle	2.5	26.60	26.60	26.65	8.20	8.20	8.20	30.73	30.73	30.74	71.9	71.2	70.4	4.86	4.80	4.75	3.63	3.64	3.64	<2	<2
	11:06	-	Middle	2.5	26.70	26.70		8.20	8.20		30.74	30.74		69.0	69.5		4.65	4.68	-	3.63	3.64		<2	
11/9/2015	16:27	Fine	Middle	2.5	26.90	26.90	26.90	8.27	8.27	8.27	31.50	31.50	31.50	61.5	61.1	61.0	4.12	4.08	4.08	9.08	9.11	9.05	8	9.00
	16:29		Middle	2.5	26.90	26.90		8.27	8.27		31.50	31.50		60.8	60.4		4.06	4.04		8.98	9.04		10	
14/9/2015	14:54	Fine	Middle	2.5	27.40	27.40	27.45	8.30	8.30	8.30	32.06	32.06	32.06	67.5	65.7	66.9	4.45	4.34	4.42	8.76	8.77	8.75	8	7.50
	14:56		Middle	2.5	27.50	27.50		8.30	8.30		32.05	32.05		67.7	66.7		4.48	4.41		8.70	8.75		7	
16/9/2015	14:51	Fine	Middle	2.5	28.30	28.30	28.30	8.30	8.30	8.30	32.21	32.21	32.20	71.0	70.0	71.5	4.62	4.54	4.65	8.49	8.44	8.40	5	5.50
	14:53		Middle	2.5	28.30	28.30		8.30	8.30		32.19	32.19		72.1	72.8		4.69	4.74		8.30	8.37		6	
18/9/2015	15:20	Fine	Middle	2.5	29.20	29.20	29.20	8.24	8.24	8.24	32.11	32.11	32.11	69.7	67.0	66.9	4.47	4.69	4.39	8.30	8.31	8.35	5	5.00
	15:22		Middle	2.5	29.20	29.20		8.24	8.24		32.10	32.10		66.4	64.6		4.26	4.15		8.38	8.40		5	
22/9/2015	5:21	Cloudy	Middle	2.5	27.60	27.60	27.60	8.23	8.23	8.23	30.03	30.03	30.04	73.5	74.8	74.1	4.90	4.99	4.94	3.07	3.04	2.98	3	2.50
	5:22		Middle	2.5	27.60	27.60		8.23	8.23		30.05	30.05		74.7	73.4		4.98	4.89		2.94	2.86		2	
24/9/2015	9:42	Fine	Middle	2.5	28.70	28.70	28.70	8.34	8.34	8.34	29.84	29.84	29.84	64.4	62.9	62.3	4.22	4.12	4.08	6.35	6.36	6.30	3	2.50
	9:44		Middle	2.5	28.70	28.70		8.33	8.33		29.84	29.84		61.8	60.0		4.05	3.93		6.29	6.20		2	
26/9/2015	10:52	Fine	Middle	3.5	29.10	29.10	29.15	8.35	8.35	8.35	29.28	29.28	29.55	78.4	76.5	75.4	5.10	4.98	4.90	8.14	8.14	8.14	4	4.50
	10:54		Middle	3.5	29.20	29.20		8.35	8.35		29.82	29.82		73.6	72.9		4.78	4.74		8.14	8.14		5	

Water Monitoring Result at P1 - HKCEC Phase I Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature	-	pН		-	Salini ppt	ty		OO Satur %	ation		DO mg/L		-	Turbid NTU		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	llue	Average	Va	alue	Average	Va		Average	Va	alue	Average	Value	Average
29/8/2015	10:47	Fine	Middle	2.5	27.10	27.10	27.25	8.19	8.19	8.20	32.50	32.50	32.52	76.8	74.7	74.6	5.06	4.94	4.92	5.34	5.42	5.38	4	3.50
	10:49		Middle	2.5	27.40	27.40		8.21	8.21		32.53	32.53		73.5	73.3		4.85	4.84		5.38	5.37		3	
31/8/2015	14:31	Fine	Middle	2.5	27.00	27.00	27.10	8.24	8.24	8.24	31.66	31.66	31.65	64.8	67.5	65.8	4.32	4.50	4.38	7.40	7.45	7.42	5	5.50
	14:33		Middle	2.5	27.20	27.20		8.23	8.23		31.63	31.63		66.7	64.3		4.44	4.27		7.46	7.36		6	
2/9/2015	15:00	Cloudy	Middle	2.5	25.30	25.30	25.35	8.15	8.15	8.17	31.60	31.60	31.60	72.3	71.8	71.1	4.96	4.93	4.88	7.45	7.46	7.46	6	5.00
	15:02		Middle	2.5	25.40	25.40		8.18	8.18		31.60	31.60		70.7	69.5		4.85	4.77		7.47	7.47		4	
4/9/2015	16:24	Fine	Middle	2.5	27.50	27.50	27.60	8.12	8.12	8.13	31.48	31.48	31.46	64.4	63.0	62.9	4.26	4.17	4.16	7.36	7.24	7.19	6	5.50
	16:26		Middle	2.5	27.70	27.70		8.13	8.13		31.45	31.43		61.9	62.1		4.10	4.11		7.16	7.01		5	
7/9/2015	9:10	Fine	Middle	2.5	27.10	27.10	27.15	8.25	8.25	8.25	28.99	28.99	28.99	80.2	79.9	79.5	5.42	5.40	5.37	3.63	3.54	3.53	<2	<2
	9:12		Middle	2.5	27.20	27.20		8.25	8.25		28.98	28.98		79.5	78.3		5.37	5.29		3.49	3.47		<2	<u> </u>
9/9/2015	10:49	Fine	Middle	2.5	27.10	27.10	27.15	8.22	8.22	8.23	30.80	30.80	30.79	74.8	75.3	74.2	5.00	5.04	4.96	3.65	3.67	3.69	<2	<2
	10:51		Middle	2.5	27.20	27.20		8.24	8.24		30.78	30.78		74.2	72.3		4.96	4.83		3.71	3.72		<2	
11/9/2015	16:11	Fine	Middle	2.5	27.50	27.50	27.60	8.21	8.21	8.22	31.47	31.47	31.46	72.3	73.1	72.7	4.78	4.83	4.81	7.97	7.99	7.93	6	5.00
	16:13		Middle	2.5	27.70	27.70		8.23	8.23		31.45	31.45		73.0	72.5		4.83	4.79		7.98	7.78		4	<u> </u>
14/9/2015	14:38	Fine	Middle	2.5	28.40	28.40	28.50	8.19	8.19	8.22	32.21	32.21	32.19	75.5	75.6	74.8	4.91	4.91	4.86	8.96	8.94	8.90	8	8.00
	14:40 14:35		Middle Middle	2.5	28.60 28.50	28.60		8.24	8.24		32.16 32.44	32.16		74.2	73.9		4.82	4.80		8.86	8.83		8	
16/9/2015	14:35	Fine	Middle	2.5 2.5	28.70	28.50 28.70	28.60	8.27 8.28	8.27 8.28	8.28	32.33	32.44 32.33	32.39	75.2 73.1	73.5 71.7	73.4	4.87 4.73	4.75 4.64	4.75	8.99 8.90	8.90 8.90	8.92	6	6.50
	14:37		Middle	2.5	29.00	29.00		8.16	8.16		31.84	31.84		75.9	74.4		4.73	4.04		9.17	9.17		6	<u> </u>
18/9/2015	15:07	Fine	Middle	2.5	29.30	29.30	29.15	8.21	8.21	8.19	31.96	31.96	31.90	77.2	71.5	74.8	4.57	4.58	4.70	9.17	9.22	9.18	7	6.50
	4:55		Middle	2.5	27.70	27.70		8.24	8.24		30.26	30.26		70.7	69.4		4.69	4.65		2.45	2.31		3	<u> </u>
22/9/2015	4:56	Cloudy	Middle	2.5	27.70	27.70	27.70	8.24	8.24	8.24	30.26	30.26	30.26	70.6	71.0	70.4	4.68	4.71	4.68	2.28	2.24	2.32	2	2.50
	9:26		Middle	2.5	28.80	28.80		8.31	8.31		29.88	29.88		71.4	70.0		4.67	4.58		5.97	5.92		4	
24/9/2015	9:28	Fine	Middle	2.5	28.90	28.90	28.85	8.32	8.32	8.32	29.83	29.83	29.86	69.2	69.1	69.9	4.52	4.51	4.57	5.90	5.89	5.92	2	3.00
00/0/0045	10:36		Middle	2.5	29.40	29.40	20.50	8.29	8.29		29.90	29.90	00.07	75.1	74.7	70.5	4.85	4.83	1.75	7.95	7.97	7.00	3	
26/9/2015	10:38	Fine	Middle	2.5	29.60	29.60	29.50	8.33	8.33	8.31	29.84	29.84	29.87	73.6	70.4	73.5	4.75	4.55	4.75	7.98	7.95	7.96	5	4.00

Water Monitoring Result at P3 - APA Mid-Ebb Tide

Date	Time	Weater	Samplin	ig Depth	Wat	0 -	perature		pН			Salini	ty	C	DO Satu	ration		DO			Turbic NTL			led Solids
		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	alue	Average	mg Value	g/L Average
00/0/0045	10:51	F ire e	Middle	2.5	26.60	26.60	00.70	8.23	8.23	0.00	32.58	32.57	00.54	63.0	62.6	00.0	4.21	4.18	1.00	4.93	5.35	5.00	4	4.00
29/8/2015	10:53	Fine	Middle	2.5	26.80	26.80	26.70	8.23	8.23	8.23	32.51	32.51	32.54	62.9	63.2	62.9	4.19	4.22	4.20	4.96	5.01	5.06	4	4.00
31/8/2015	14:35	Fine	Middle	2.5	26.40	26.40	26.45	8.23	8.23	8.23	31.78	31.78	31.76	68.7	67.4	67.4	4.62	4.54	4.54	7.50	7.58	7.60	6	7.00
0170/2010	14:37	T IIIO	Middle	2.5	26.50	26.50	20.40	8.23	8.23	0.20	31.73	31.73	01.70	66.1	67.5	01.4	4.45	4.54	4.04	7.72	7.61	1.00	8	1.00
2/9/2015	15:04	Cloudy	Middle	2.5	25.30	25.30	25.30	8.18	8.18	8.19	31.68	31.68	31.68	69.6	68.4	68.3	4.77	4.70	4.68	6.70	6.69	6.76	6	5.00
	15:06		Middle	2.5	25.30	25.30		8.19	8.19		31.68	31.68		67.6	67.7		4.61	4.65		6.81	6.82		4	
4/9/2015	16:28	Fine	Middle	2.5	27.30	27.30	27.40	8.14	8.14	8.15	31.46	31.46	31.45	67.9	70.0	68.0	4.56	4.62	4.52	6.29	6.32	6.31	4	4.50
	16:30		Middle	2.5	27.50	27.50		8.15	8.15		31.44	31.44		67.2	66.8		4.46	4.43		6.32	6.30		5	
7/9/2015	9:14	Fine	Middle	2.5	27.10	27.10	27.10	8.25	8.25	8.25	28.90	25.90	28.15	75.8	73.5	73.4	5.13	4.97	4.97	3.75	3.78	3.76	<2	<2
	9:16		Middle	2.5	27.10	27.10		8.24	8.24		28.90	28.90		71.7	72.6		4.85	4.91		3.76	3.75		<2	
9/9/2015	10:53	Fine	Middle	2.5	26.90	26.90	26.40	8.25	8.25	8.26	30.52	30.52	30.48	71.2	70.9	70.6	4.78	4.77	4.75	3.76	3.75	3.77	<2	<2
	10:54		Middle	2.5	25.90	25.90		8.26	8.26		30.44	30.44		70.6	69.6		4.75	4.68		3.78	3.79		<2	
11/9/2015	16:15	Fine	Middle	2.5	27.30	27.30	27.25	8.24	8.24	8.24	31.47	31.47	31.47	63.3	62.8	62.8	4.22	4.19	4.18	7.75	7.76	7.75	5	4.50
	16:17		Middle	2.5	27.20	27.20		8.24	8.24		31.46	31.46		62.8	62.2		4.17	4.14		7.76	7.74		4	<u> </u>
14/9/2015	14:42	Fine	Middle	2.5	27.70	27.70	27.75	8.27	8.27	8.28	32.10	32.10	32.06	72.2	69.4	69.5	4.74	4.56	4.57	8.66	8.73	8.70	7	6.50
	14:44		Middle	2.5	27.70	27.90		8.28	8.28		32.01	32.01		68.3	68.1		4.49	4.47		8.72	8.70		6	
16/9/2015	14:39	Fine	Middle	2.5	28.00	28.00	28.10	8.29	8.29	8.29	32.23	32.23	32.23	66.3	66.2	66.6	4.33	4.33	4.35	9.00	9.17	9.13	6	5.50
	14:41		Middle	2.5	28.20	28.20		8.29	8.29		32.22	32.22		67.0	66.7		4.37	4.35		9.22	9.13		5	<u> </u>
18/9/2015	15:08	Fine	Middle	2.5	28.40	28.40	28.50	8.23	8.23	8.23	31.96	31.96	31.96	72.0	71.2	70.1	4.68	4.63	4.56	9.12	9.09	9.09	4	4.00
	15:10		Middle	2.5	28.60	28.60		8.23	8.23		31.96	31.94		68.9	68.3		4.48	4.43		9.07	9.06		4	<u> </u>
22/9/2015	5:03 5:04	Cloudy	Middle	2.5	27.60	27.60	27.60	8.12	8.12	8.13	29.99	29.99	29.99	76.1	77.1	76.6	5.07	5.14 5.07	5.10	2.88	2.94	2.83	<2	<2
	9:30		Middle Middle	2.5 2.5	27.60 28.70	27.60		8.14 8.33	8.14		29.99 29.83	29.99 29.83		77.0 79.3	76.2 76.4		5.13 5.20	5.07		2.76 7.05	2.73 6.58		<2 2	<u> </u>
24/9/2015	9:30	Fine	Middle	2.5	28.70	28.70 28.70	28.70	8.33	8.33 8.33	8.33	29.83	29.83	29.84	79.3	76.4	75.6	5.20 4.87	5.01 4.74	4.96	6.30	6.46	6.60	4	3.00
	9.32 10:40		Middle	2.5	29.50	29.50		8.34	8.34		29.84	29.84		74.4	76.2		5.18	4.74		7.53	7.61		3	<u> </u>
26/9/2015	10:40	Fine	Middle	2.5	29.30	29.30	29.35	8.35	8.35	8.35	29.30	29.30	29.53	73.3	70.2	75.2	4.77	4.90	4.89	7.48	7.46	7.52	4	3.50
. <u> </u>	10.42		windule	2.0	29.20	23.20		0.30	0.50		29.10	29.10		13.3	11.0		4.77	4.00		1.40	1.40		4	<u> </u>

Water Monitoring Result at P4 - SOC Mid-Ebb Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	perature		pН			Salini	y.	0	O Satu	ration		DO			Turbic			led Solids
2010		Condition	r	n	Va	°C Ilue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTL alue	Average	m Value	g/L Average
00/0/0015	10:55	i	Middle	2.5	26.90	26.90		8.22	8.22	0.00	32.52	32.52	00.50	65.7	66.3		4.37	4.41		5.99	6.00	0.05	5	5.00
29/8/2015	10:57	Fine	Middle	2.5	26.90	26.90	26.90	8.22	8.22	8.22	32.53	32.53	32.53	66.6	66.7	66.3	4.43	4.44	4.41	6.08	6.13	6.05	5	5.00
31/8/2015	14:39	Fine	Middle	2.5	26.20	26.20	26.25	8.23	8.23	8.23	31.78	31.78	31.77	64.6	63.0	63.9	4.36	4.25	4.31	6.80	6.81	6.84	6	5.00
0170/2010	14:41	T IIIO	Middle	2.5	26.30	26.30	20.20	8.22	8.22	0.20	31.75	31.75	01.77	64.8	63.0	00.0	4.37	4.25	4.01	6.88	6.87	0.04	4	0.00
2/9/2015	15:08	Cloudy	Middle	2.5	25.40	25.40	25.40	8.19	8.19	8.19	31.59	31.59	31.61	70.1	68.3	66.6	4.81	4.69	4.57	7.01	7.01	7.09	5	4.50
	15:10	,	Middle	2.5	25.40	25.40		8.19	8.19		31.62	31.62		65.0	63.1		4.45	4.33	-	7.16	7.16		4	
4/9/2015	16:32	Fine	Middle	2.5	27.40	27.40	27.40	8.15	8.15	8.15	31.57	31.57	31.57	60.7	61.5	61.6	4.02	4.08	4.08	6.01	6.07	6.08	4	4.50
	16:34		Middle	2.5	27.40	27.40		8.15	8.15		31.56	31.56		62.0	62.1		4.11	4.12		6.11	6.12		5	
7/9/2015	9:18	Fine	Middle	2.5	27.10	27.10	27.10	8.24	8.24	8.24	28.92	28.92	28.89	78.3	77.2	76.3	5.30	5.23	5.17	6.29	6.47	6.24	<2	<2
	9:20		Middle	2.5	27.10	27.10		8.23	8.23		28.85	28.85		75.3	74.4		5.10	5.03		6.29	5.91		<2	
9/9/2015	10:56	Fine	Middle	2.5	26.60	26.60	26.65	8.26	8.26	8.26	30.76	30.76	30.73	65.9	64.3	64.2	4.43	4.34	4.33	4.29	4.29	4.29	<2	<2
	10:58		Middle	2.5	26.70	26.70		8.25	8.25		30.70	30.70		63.8	62.8		4.30	4.24		4.29	4.29		<2	
11/9/2015	16:19	Fine	Middle	2.5	27.20	27.20	27.20	8.24	8.24	8.25	31.20	31.20	31.33	73.3	71.8	71.3	4.88	4.78	4.75	8.49	8.49	8.50	9	9.00
	16:21		Middle	2.5	27.20	27.20		8.25	8.25		31.45	31.45		71.0	69.0		4.73	4.59		8.49	8.53		9	
14/9/2015	14:46	Fine	Middle	2.5	27.60	27.60	27.65	8.29	8.29	8.29	32.06	32.06	32.05	70.2	68.5	69.0	4.62	4.51	4.54	8.17	8.14	8.19	8	7.00
	14:48		Middle	2.5	27.70	27.70		8.29	8.29		32.04	32.04		68.5	68.7		4.51	4.52		8.22	8.23		6	
16/9/2015	14:43	Fine	Middle	2.5	28.10	28.10	28.15	8.29	8.29	8.30	32.34	32.34	32.32	73.1	72.8	72.9	4.77	4.75	4.76	9.04	9.04	9.06	3	3.50
	14:45		Middle	2.5	28.20	28.20		8.30	8.30		32.30	32.30		72.8	72.9		4.75	4.75		9.04	9.10		4	
18/9/2015	15:12	Fine	Middle	2.5	29.00	29.00	29.05	8.23	8.23	8.23	32.07	32.07	32.09	75.7	75.7	75.4	4.87	4.87	4.85	9.33	9.17	9.18	4	4.50
	15:14		Middle	2.5	29.10	29.10		8.23	8.23		32.11	32.11		75.4	74.6		4.85	4.80		9.13	9.07		5	
22/9/2015	5:08	Cloudy	Middle	2.5	27.60	27.60	27.60	8.20	8.20	8.21	30.05	30.05	30.06	74.3	74.5	73.2	4.95	4.96	4.87	3.09	3.05	3.07	<2	<2
	5:09		Middle	2.5	27.60	27.60		8.21	8.21		30.06	30.06		72.4	71.4		4.83	4.74		3.10	3.03		<2	
24/9/2015	9:34	Fine	Middle	2.5	28.60	28.60	28.60	8.33	8.33	8.33	29.75	29.75	29.75	78.8	76.8	75.9	5.18	5.04	4.99	5.66	5.64	5.63	4	4.50
	9:36		Middle	2.5	28.60	28.60		8.33	8.33		29.75	29.75		74.5	73.6		4.89	4.83		5.63	5.59		5	
26/9/2015	10:44	Fine	Middle	2.5	29.10	29.10	29.10	8.35	8.35	8.36	29.71	29.71	29.74	74.2	72.2	71.5	4.84	4.71	4.66	7.23	7.40	7.33	3	3.00
	10:46		Middle	2.5	29.10	29.10		8.36	8.36		29.77	29.77		70.1	69.3		4.57	4.52		7.45	7.23		3	

Water Monitoring Result at P5 - WCT / RT / IT Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	perature		pН			Salini	iy.	C	DO Satu	ration		DO mg/L			Turbic NTU			led Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt ilue	Average	Va	alue	Average	Va		Average	Va	alue	Average	Value	g/∟ Average
29/8/2015	10:59	Fine	Middle	2.5	26.60	26.60	26.65	8.22	8.22	8.22	32.51	32.51	32.51	64.0	63.4	62.7	4.26	4.24	4.19	6.86	7.00	6.83	4	4.00
20/0/2010	11:01		Middle	2.5	26.70	26.70	20.00	8.22	8.22	0.22	32.50	32.50	02.01	62.7	60.6	02.1	4.19	4.05	4.10	6.98	6.47	0.00	4	4.00
31/8/2015	14:43	Fine	Middle	2.5	26.40	26.40	26.45	8.22	8.22	8.22	31.75	31.75	31.74	58.4	59.0	58.4	3.93	3.97	3.94	8.04	8.05	8.03	7	7.00
	14:45		Middle	2.5	26.50	26.50		8.22	8.22		31.73	31.73		58.3	58.0		3.93	3.91		8.00	8.04		7	
2/9/2015	15:12	Cloudy	Middle	2.5	25.60	25.60	25.60	8.19	8.19	8.19	31.42	31.42	31.44	62.7	63.4	63.3	4.29	4.34	4.33	6.94	6.94	6.88	5	5.50
	15:14		Middle	2.5	25.60	25.60		8.19	8.19		31.45	31.45		63.4	63.5		4.34	4.35		6.82	6.82		6	
4/9/2015	16:36	Fine	Middle	2.5	27.30	27.30	27.35	8.15	8.15	8.15	31.60	31.60	31.60	64.7	63.1	63.0	4.30	4.19	4.19	6.70	6.70	6.78	6	6.00
	16:38		Middle	2.5	27.40	27.40		8.15	8.15		31.60	31.60		62.3	62.0		4.13	4.12		6.82	6.91		6	<u> </u>
7/9/2015	9:22	Fine	Middle	2.5	27.10	27.10	27.05	8.23	8.23	8.23	28.10	28.10	28.49	74.5	73.4	72.8	5.05	4.97	4.89	3.78	3.76	3.76	<2	<2
	9:24		Middle	2.5	27.00	27.00		8.23	8.23		28.88	28.88		73.4	70.0		4.93	4.61		3.75	3.75		<2	<u> </u>
9/9/2015	11:00	Fine	Middle	2.5	26.50	26.50	26.50	8.26	8.26	8.26	30.69	30.69	30.70	68.9	67.3	66.9	4.67	4.55	4.53	3.64	3.63	3.64	<2	<2
	11:02		Middle Middle	2.5 2.5	26.50	26.50		8.26	8.26		30.70 31.43	30.70 31.43		66.2	65.0 72.0		4.48	4.40		3.63	3.64		<2	
11/9/2015	16:23 16:25	Fine	Middle	2.5	27.00 27.00	27.00 27.00	27.00	8.26 8.27	8.26 8.27	8.27	31.43	31.43	31.46	73.1 71.3	72.0	71.9	4.89 4.76	4.81 4.76	4.81	8.16 8.22	8.22 8.22	8.21	8	8.50
	14:50		Middle	2.5	27.40	27.40		8.30	8.30		32.07	32.07		71.9	71.3		4.75	4.71		9.53	9.53		7	\vdash
14/9/2015	14:52	Fine	Middle	2.5	27.50	27.50	27.45	8.30	8.30	8.30	32.06	32.06	32.07	70.7	73.1	71.8	4.67	4.83	4.74	9.53	9.52	9.53	7	7.00
	14:47		Middle	2.5	28.30	28.30		8.30	8.30		32.31	32.31		73.6	72.6		4.78	4.72		8.90	8.90		6	<u> </u>
16/9/2015	14:49	Fine	Middle	2.5	28.30	28.30	28.30	8.30	8.30	8.30	32.31	32.31	32.31	71.4	70.0	71.9	4.65	4.53	4.67	8.92	8.95	8.92	8	7.00
	15:16		Middle	2.5	29.10	29.10		8.26	8.24		32.11	32.11		65.3	63.2		4.20	4.07		8.77	8.71		6	<u>+</u>
18/9/2015	15:18	Fine	Middle	2.5	29.10	29.10	29.10	8.24	8.24	8.25	32.11	32.11	32.11	63.2	63.1	63.7	4.07	4.06	4.10	8.71	8.77	8.74	5	5.50
22/0/2045	5:14	Cloudy	Middle	2.5	27.60	27.60	27.05	8.23	8.23	0.04	30.10	30.10	20.40	71.9	72.8	70.0	4.78	4.85	4.94	3.00	2.96	2.00	<2	
22/9/2015	5:15	Cloudy	Middle	2.5	27.70	27.70	27.65	8.24	8.24	8.24	30.09	30.09	30.10	72.4	71.9	72.3	4.82	4.77	4.81	3.02	2.86	2.96	<2	<2
24/9/2015	9:38	Fine	Middle	2.5	28.60	28.60	28.60	8.33	8.33	8.33	29.79	29.79	29.81	72.2	73.7	72.1	4.74	4.83	4.73	5.75	5.75	5.75	2	2.50
27/3/2013	9:40	1.110	Middle	2.5	28.60	28.60	20.00	8.33	8.33	0.00	29.82	29.82	20.01	72.4	70.1	12.1	4.75	4.60	т. г З	5.75	5.75	5.15	3	2.50
26/9/2015	10:48	Fine	Middle	2.5	29.10	29.10	29.10	8.36	8.36	8.36	29.76	29.76	29.77	71.8	71.5	72.2	4.68	4.65	4.70	8.05	7.92	7.97	4	4.00
20,0,20.0	10:50		Middle	2.5	29.10	29.10	20110	8.35	8.35	0.00	29.78	29.78	2011	72.3	73.3		4.71	4.77		7.95	7.94		4	

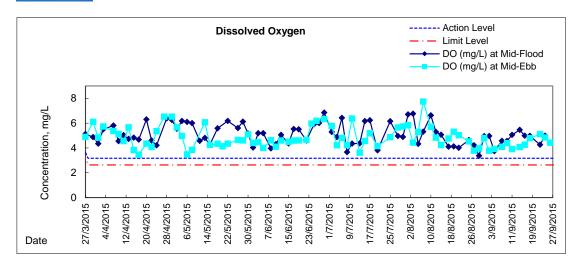
Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Ebb Tide

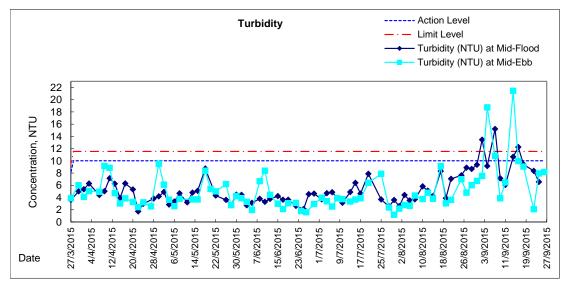
Date	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	C	O Satur	ation		DO			Turbid NTL			led Solids
		Condition	r	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	ilue	Average	mg Value	g/∟ Average
29/8/2015	11:12	Fine	Middle	3.5	26.40	26.40	26.50	8.21	8.21	8.21	32.80	32.80	32.79	70.8	68.0	68.1	4.73	4.55	4.55	6.02	5.92	5.92	4	4.00
	11:14		Middle	3.5	26.60	26.60		8.21	8.21		32.77	32.77		67.4	66.3		4.50	4.43		5.90	5.84		4	
31/8/2015	15:01	Fine	Middle	3.5	26.20	26.20	26.30	8.20	8.20	8.20	31.13	31.13	31.61	72.2	70.1	69.1	4.86	4.72	4.68	7.56	7.28	7.25	9	8.00
	15:03		Middle	3.5	26.40	26.40		8.20	8.20		32.08	32.08		67.6	66.5		4.65	4.47		7.08	7.07		7	
2/9/2015	15:27	Cloudy	Middle	3.5	25.30	25.30	25.35	8.20	8.20	8.20	31.11	31.11	31.11	67.2	65.2	63.4	4.62	4.49	4.36	6.67	6.66	6.70	4	4.50
	15:29		Middle	3.5	25.40	25.40		8.19	8.19		31.10	31.10		61.7	59.3		4.25	4.08		6.68	6.80		5	
4/9/2015	16:54	Fine	Middle	3.5	27.30	27.30	27.40	8.08	8.08	8.10	31.69	31.69	31.70	60.5	59.7	58.9	4.01	3.96	3.91	6.42	6.30	6.34	6	5.50
4/3/2013	16:56	T IIIe	Middle	3.5	27.50	27.50	27.40	8.11	8.11	0.10	31.70	31.70	51.70	58.2	57.2	50.5	3.86	3.79	5.51	6.30	6.32	0.04	5	3.50
7/9/2015	9:34	Fine	Middle	3.5	27.10	27.10	27.05	8.21	8.21	8.20	29.19	29.19	29.22	72.6	71.5	71.9	4.91	4.83	4.86	6.29	6.20	6.08	5	4.00
	9:36		Middle	3.5	27.00	27.00		8.19	8.19		29.24	29.24		72.0	71.3		4.86	4.82		5.92	5.90		3	
9/9/2015	11:18	Fine	Middle	3.5	26.80	26.80	26.80	8.23	8.23	8.23	30.95	30.95	30.95	78.6	78.1	77.4	5.28	5.25	5.25	4.89	4.85	4.85	3	3.00
	11:20		Middle	3.5	26.80	26.80		8.23	8.23		30.94	30.94		77.7	75.1		5.22	5.25		4.83	4.82		3	
11/9/2015	16:44	Fine	Middle	3.5	26.70	26.70	26.75	8.25	8.25	8.26	31.49	31.51	31.50	69.0	68.6	68.3	4.63	4.60	4.58	12.82	12.81	12.91	12	12.00
11/0/2010	16:46	T IIIO	Middle	3.5	26.80	26.80	20.70	8.26	8.26	0.20	31.49	31.49	01.00	67.7	67.8	00.0	4.54	4.55	4.00	13.08	12.93	12.01	12	12.00
14/9/2015	15:07	Fine	Middle	3.5	28.10	28.10	28.20	8.26	8.26	8.27	32.38	32.38	32.36	71.3	68.5	68.0	4.65	4.46	4.43	8.36	8.34	8.35	7	6.50
1.00/2010	15:09	1 mo	Middle	3.5	28.30	28.30	10:10	8.28	8.28	0.21	32.34	32.34	02.00	66.8	65.4	0010	4.35	4.26		8.34	8.36	0.00	6	0.00
16/9/2015	15:03	Fine	Middle	3.5	28.50	28.50	28.55	8.27	8.27	8.27	32.41	32.41	32.41	74.6	73.3	73.0	4.83	4.75	4.73	8.35	8.33	8.32	7	7.50
	15:07		Middle	3.5	28.60	28.60		8.26	8.26		32.40	32.40		72.2	71.8		4.67	4.65		8.30	8.29		8	
18/9/2015	15:34	Fine	Middle	3.5	28.70	28.70	28.80	8.24	8.24	8.24	32.19	32.19	32.16	69.8	68.3	68.3	4.51	4.41	4.37	8.56	8.56	8.55	7	6.50
10,0/2010	15:36	1 110	Middle	3.5	28.90	28.90	1000	8.24	8.24	0.2 1	32.13	32.13	62.10	66.4	68.7	00.0	4.29	4.25		8.53	8.53	0.00	6	0.00
22/9/2015	4:45	Cloudy	Middle	3.5	27.80	27.80	27.80	8.09	8.09	8.09	30.86	30.86	30.86	70.8	71.0	71.0	4.68	4.69	4.69	2.40	2.33	2.35	<2	<2
22/3/2013	4:46	Cloudy	Middle	3.5	27.80	27.80	27.00	8.09	8.09	0.05	30.85	30.85	30.00	70.4	71.6	71.0	4.66	4.73	4.03	2.38	2.30	2.00	<2	≦
24/9/2015	9:48	Fine	Middle	3.5	28.80	28.80	28.85	8.29	8.29	8.29	30.08	30.08	30.08	63.0	62.6	62.7	4.11	4.09	4.09	5.98	5.98	6.05	4	3.50
	9:50		Middle	3.5	28.90	28.90		8.28	8.28		30.07	30.07		62.7	62.4		4.09	4.08		6.11	6.12		3	
26/9/2015	11:06	Fine	Middle	3.5	29.10	29.10	29.10	8.31	8.31	8.32	30.30	30.30	30.30	61.6	61.3	61.2	4.00	3.98	4.22	9.40	9.40	9.38	8	7.50
20,0/2010	11:08		Middle	3.5	29.10	29.10	20.10	8.32	8.32	0.02	30.29	30.29	00.00	60.8	61.0	02	3.95	4.96	2	9.40	9.32	0.00	7	

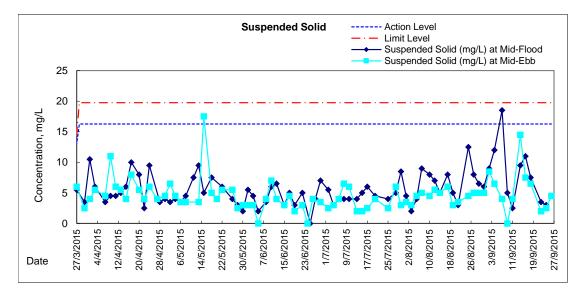
Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

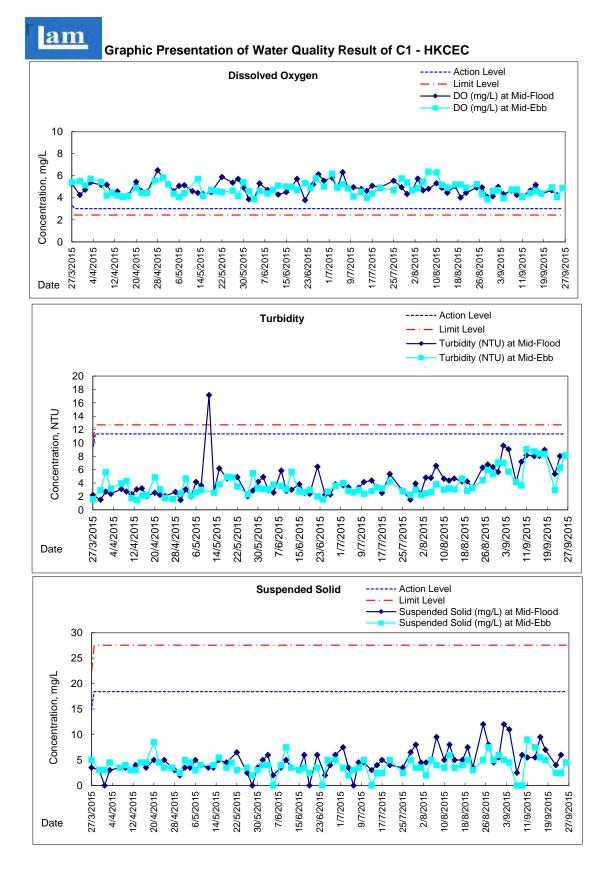
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	y.	0	O Satur	ration		DO			Turbic			led Solids
		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTL alue	Average	m Value	g/∟ Average
	10:06		Middle	3.5	26.80	26.80		8.29	8.29		32.40	32.40		59.4	59.4		3.96	3.96		6.00	6.00		5	
29/8/2015	10:08	Fine	Middle	3.5	26.90	26.90	26.85	8.27	8.27	8.28	32.33	32.33	32.37	59.7	59.8	59.6	3.98	3.98	3.97	6.00	6.00	6.00	5	5.00
31/8/2015	10:54	Fine	Middle	4.0	26.60	26.60	26.70	8.29	8.29	8.28	31.84	31.84	31.85	71.5	72.3	71.7	4.79	4.84	4.80	6.69	6.71	6.71	5	5.00
51/0/2013	10:57	i ille	Middle	4.0	26.80	26.80	20.70	8.26	8.26	0.20	31.85	31.85	51.05	71.8	71.1	71.7	4.81	4.76	4.00	6.71	6.71	0.71	5	5.00
2/9/2015	14:10	Cloudy	Middle	3.5	25.40	25.40	25.53	8.21	8.21	8.20	31.70	31.70	31.70	57.1	58.1	55.8	3.91	3.77	3.77	7.47	7.50	7.53	8	8.50
	14:12	,	Middle	3.5	25.80	25.50		8.19	8.19		31.69	31.69		54.3	53.7		3.72	3.68		7.55	7.59		9	
4/9/2015	15:29	Fine	Middle	3.5	28.70	28.70	28.75	8.21	8.21	8.20	31.33	31.33	31.35	59.5	61.5	60.4	3.86	3.99	3.92	18.09	19.47	18.74	6	6.50
4/0/2010	15:31	T IIIO	Middle	3.5	28.80	28.80	20.70	8.18	8.18	0.20	31.36	31.36	01.00	61.7	59.0	00.4	4.01	3.83	0.52	18.84	18.54	10.74	7	0.00
7/9/2015	7:55	Fine	Middle	3.5	27.60	27.60	27.60	8.50	8.50	8.47	29.18	29.18	29.17	58.9	61.2	61.0	3.95	4.10	4.09	11.00	10.93	10.80	4	4.00
	7:57	-	Middle	3.5	27.60	27.60		8.44	8.44	-	29.16	29.16	-	61.6	62.1		4.13	4.16		10.67	10.59		4	
9/9/2015	9:30	Fine	Middle	3.5	26.90	26.90	27.00	8.27	8.27	8.27	30.71	30.71	30.70	67.9	66.0	65.5	4.56	4.39	4.38	3.87	3.87	3.87	<2	<2
	9:32	-	Middle	3.5	27.10	27.10		8.26	8.26	-	30.69	30.69		64.0	63.9		4.29	4.29		3.87	3.87		<2	
11/9/2015	15:25	Fine	Middle	3.5	27.70	27.70	27.75	8.25	8.25	8.25	30.95	30.95	30.95	59.0	59.2	59.2	3.90	3.91	3.91	6.47	6.45	6.45	4	4.00
	15:27		Middle	3.5	27.80	27.80		8.24	8.24		30.95	30.95		59.4	59.0		3.93	3.90		6.43	6.43		4	
14/9/2015	13:51	Fine	Middle	3.5	27.90	27.90	28.00	8.33	8.33	8.34	32.11	32.11	32.10	62.4	62.7	62.1	4.08	4.11	4.07	21.52	21.29	21.45	15	14.50
	13:53		Middle	3.5	28.10	28.10		8.34	8.34		32.08	32.08		62.2	61.2		4.07	4.01		21.29	21.68		14	
16/9/2015	13:37	Fine	Middle	3.5	28.70	28.70	28.80	8.36	8.36	8.35	32.01	32.01	32.05	67.1	66.7	66.0	4.33	4.31	4.26	9.95	9.95	9.95	8	7.50
	13:39	-	Middle	3.5	28.90	28.90		8.33	8.33		32.09	32.09		66.3	63.9		4.29	4.12		9.95	9.95		7	
18/9/2015	14:11	Fine	Middle	3.5	29.70	29.70	29.75	8.40	8.40	8.38	32.01	32.02	32.01	78.9	76.9	75.2	5.02	4.90	4.79	9.06	9.06	9.06	6	6.50
10/0/2010	14:13	1 110	Middle	3.5	29.80	29.80	20.10	8.35	8.35	0.00	32.00	32.00	02.01	72.3	72.5	. 0.12	4.60	4.62		9.06	9.06	0.00	7	0.00
22/9/2015	5:40	Cloudy	Middle	2.5	27.80	27.80	27.75	8.16	8.16	8.16	29.63	29.63	29.63	75.8	77.5	76.6	5.06	5.17	5.12	2.09	2.18	2.09	2	2.00
22/0/2010	5:41	Cloudy	Middle	2.5	27.70	27.70	21.10	8.16	8.16	0.10	29.63	29.64	20.00	76.8	76.4	10.0	5.13	5.10	0.12	2.05	2.03	2.00	2	2.00
24/9/2015	8:31	Fine	Middle	3.5	28.70	28.70	28.70	8.32	8.32	8.33	29.61	29.61	29.61	74.4	74.2	73.7	4.88	4.87	4.84	7.95	7.98	7.93	2	2.50
	8:34		Middle	3.5	28.70	28.70		8.33	8.33		29.60	29.60		73.6	72.7		4.83	4.77		7.93	7.87		3	
26/9/2015	10:01	Fine	Middle	3.5	29.30	29.30	29.35	8.56	8.56	8.55	30.19	30.19	30.16	68.6	68.0	68.4	4.44	4.40	4.43	8.22	8.18	8.18	4	4.50
	10:03		Middle	3.5	29.40	29.40		8.56	8.50		30.12	30.12		68.2	68.9		4.42	4.46		8.15	8.15		5	

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

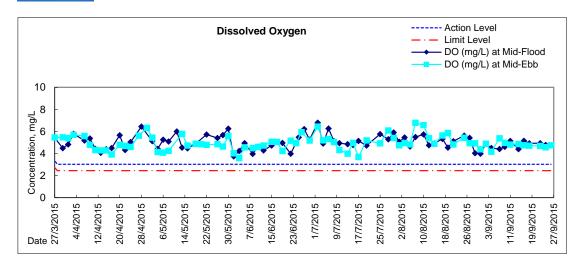


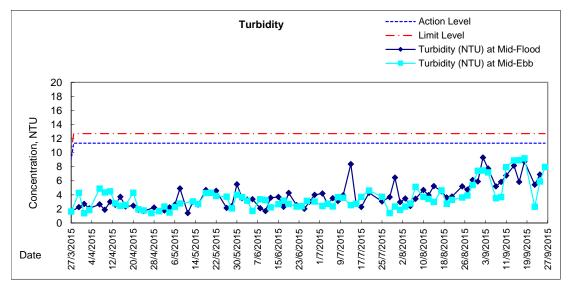


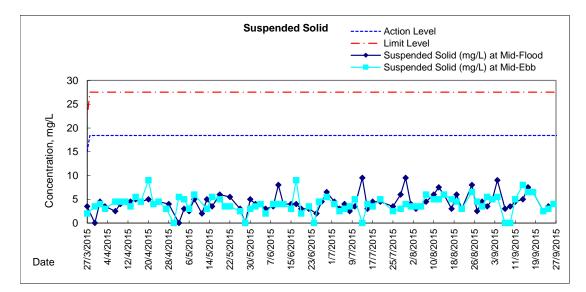




Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

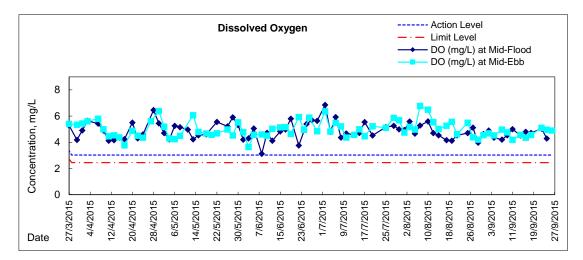


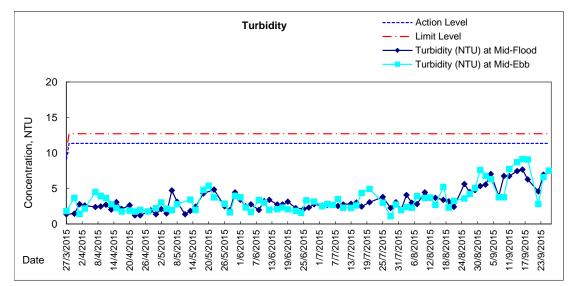


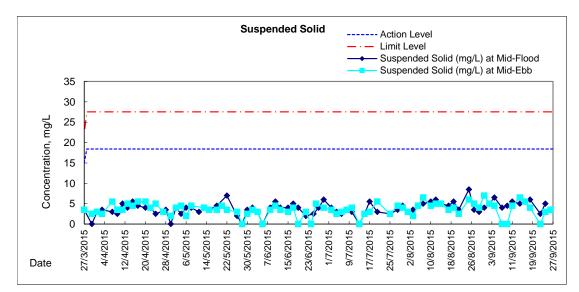




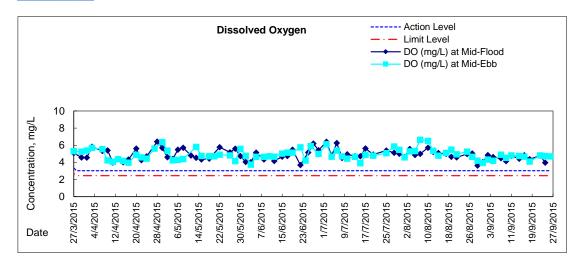
Graphic Presentation of Water Quality Result of P3 - APA

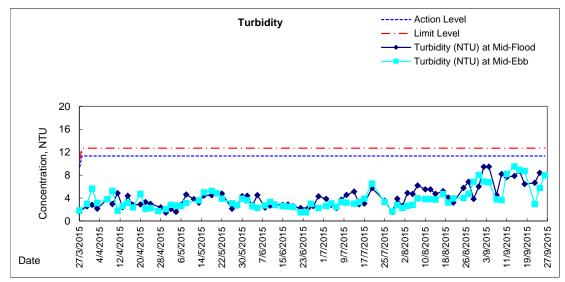


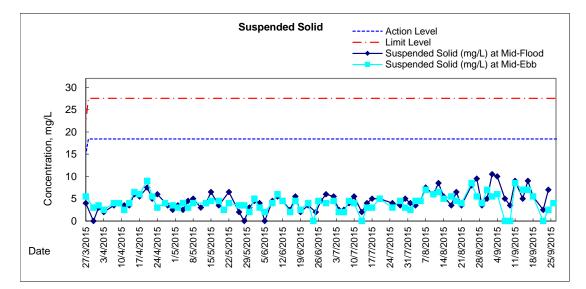




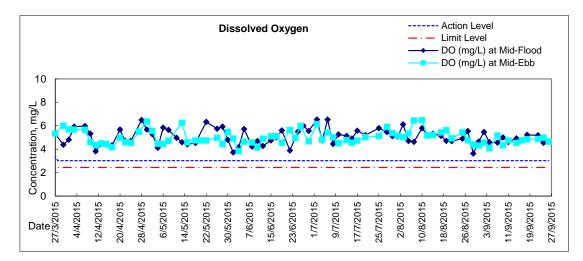
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

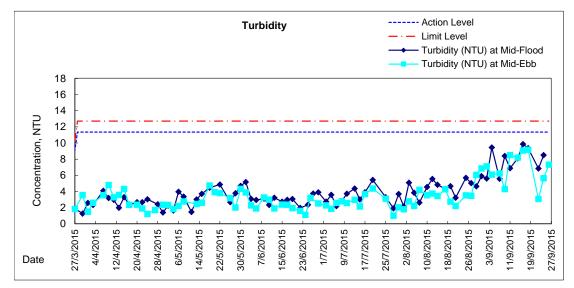


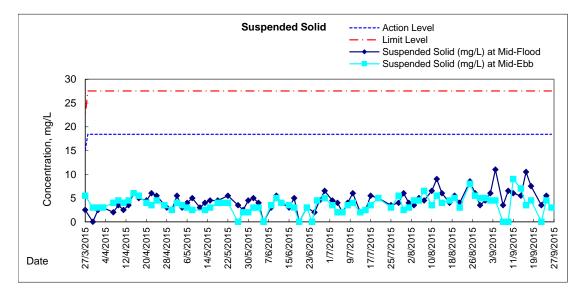




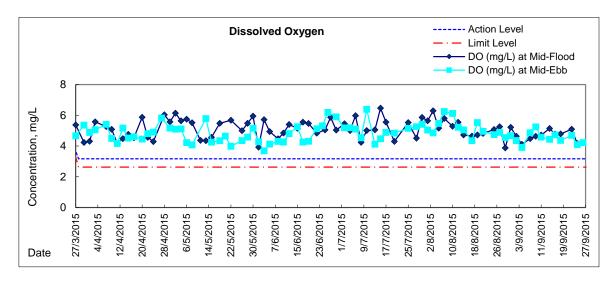
Graphic Presentation of Water Quality Result of P4 - SOC

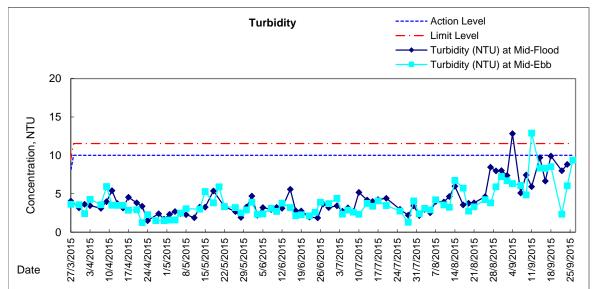


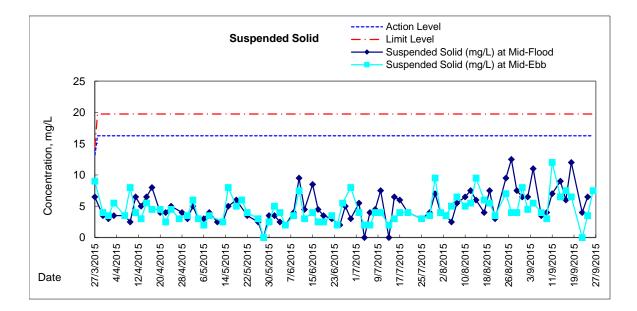




Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

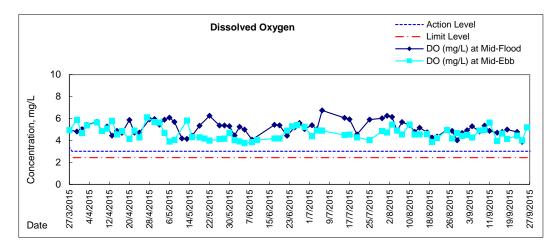


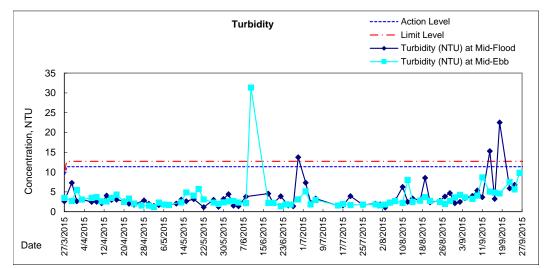


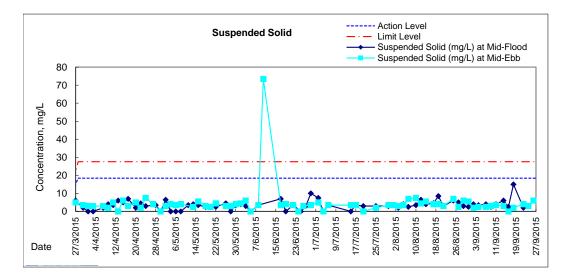


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Graphic Presentation of Water Quality Result of C7 - Windsor House







_	Time	Weater	Samplin	g Depth	Wat	er Temr	oerature		pН			Salinit	v	D	O Satur	ation		DO	
Date		Condition	n			°C ilue	Average	Va	alue	Average	Va	ppt alue	Average		%	Average	Va	mg/L lue	
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8/2015	18:30	Fine	Middle	1.5	26.30	26.30	26.3	8.13	8.13	8.1	29.63	29.63	29.6	47.3	46.9	47.1	3.23	3.20	3.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2015	18:55	Cloudy	Middle	1.0	26.60	26.60	26.6	8.09	8.09	8.1	30.64	30.64	30.6	61.6	62.5	62.1	4.16	4.22	4.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2015	18:25	Cloudy	Middle	1.0	25.40	25.40	25.4	8.17	8.17	8.2	27.93	27.94	27.9	63.7	64.0	63.9	4.46	4.48	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/9/2015	11:30	Fine	Middle	1.5	26.80	26.80	26.8	8.06	8.06	8.1	30.28	30.28	30.3	67.2	66.5	66.9	4.54	4.49	4.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2015	15:45	Fine	Middle	1.5	27.30	27.30	27.3	8.09	8.09	8.1	27.70	27.70	27.7	49.5	49.4	49.5	3.36	3.35	3.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2015	17:20	Fine	Middle	1.5	27.10	27.10	27.1	8.00	8.00	8.0	29.71	29.71	29.7	71.7	71.6	71.7	4.79	4.78	4.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:30		Surface	1.0	26.80	26.80	26.8	8.22	8.22	8.2	31.02	31.02	31.0	75.0	75.2	75.1	5.04	5.05	5.05
11/9/2015	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:32		Bottom	3.0	26.90	26.90	26.9	8.23	8.23	8.2	31.19	31.19	31.2	82.4	82.5	82.5	5.55	5.56	5.56
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2015	19:01	Fine	Middle	1.0	27.40	27.40	27.4	8.10	8.10	8.1	30.19	30.19	30.2	57.1	57.5	57.3	3.82	3.84	3.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2015	18:35	Cloudy	Middle	1.0	27.80	27.80	27.8	8.05	8.05	8.1	30.46	30.46	30.5	59.0	59.8	59.4	3.91	3.96	3.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/9/2015	18:23	Fine	Middle	1.0	27.90	27.90	27.9	8.15	8.15	8.2	30.34	30.34	30.3	59.0	59.3	59.2	3.90	3.92	3.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2015	11:35	Fine	Middle	1.5	29.20	29.20	29.2	8.27	8.27	8.3	29.39	29.39	29.4	51.1	50.7	50.9	3.33	3.30	3.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2015	17:00	Fine	Middle	1.5	29.70	29.70	29.7	8.11	8.11	8.1	28.38	28.38	28.4	43.2	44.6	43.9	2.80	2.89	2.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2015	-	Amber Rainstorm	Middle	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom		-	-	-		-	-	-		-	-	-	-	-	-	-

Remarks:

Date	Time	Weater	Samplir	ng Depth	Wat	er Temp ℃	perature		pН			Salinit	У	D	O Satur	ation		DO	
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% Ilue	Average	Va	mg/L llue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8/2015	18:15	Fine	Middle	1.0	26.30	26.30	26.3	8.19	8.19	8.2	28.44	28.44	28.4	34.8	35.8	35.3	2.39	2.46	<u>2.43</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2015	20:03	Cloudy	Middle	1.0	26.20	26.20	26.2	8.07	8.07	8.1	25.50	25.50	25.5	38.1	38.6	38.4	2.67	2.71	<u>2.69</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2015	18:58	Cloudy	Middle	1.0	25.90	25.90	25.9	8.23	8.23	8.2	15.48	15.48	15.5	55.5	56.4	56.0	4.07	4.13	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/9/2015	11:10	Fine	Middle	1.5	26.50	26.50	26.5	8.12	8.12	8.1	26.67	26.67	26.7	36.2	35.7	36.0	2.51	2.47	<u>2.49</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2015	15:27	Fine	Middle	1.5	27.00	27.00	27.0	8.11	8.11	8.1	26.18	26.18	26.2	40.0	39.9	40.0	2.75	2.74	<u>2.75</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2015	17:00	Fine	Middle	1.0	27.00	27.00	27.0	8.19	8.19	8.2	20.75	20.75	20.8	40.3	40.7	40.5	2.85	2.88	<u>2.87</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/9/2015	10:57	Fine	Middle	1.5	26.60	26.60	26.6	8.28	8.28	8.3	27.57	27.57	27.6	54.6	54.7	54.7	3.75	3.76	3.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2015	21:33	Fine	Middle	1.5	26.90	26.90	26.9	8.28	8.28	8.3	29.45	29.45	29.5	70.3	69.7	70.0	4.87	4.85	4.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2015	19:08	Cloudy	Middle	1.0	27.50	27.50	27.5	8.21	8.21	8.2	24.03	24.03	24.0	66.4	65.3	65.9	4.54	4.46	4.50
	-	ŀ	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/9/2015	18:57	Fine	Middle	1.0	27.70	27.70	27.7	8.23	8.23	8.2	25.93	25.93	25.9	64.5	63.9	64.2	4.44	4.40	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2015	11:20	Fine	Middle	1.0	28.50	28.50	28.5	8.39	8.39	8.4	28.29	28.29	28.3	62.0	61.4	61.7	4.10	4.06	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2015	16:11	Fine	Middle	1.0	29.00	29.00	29.0	8.26	8.26	8.3	26.32	26.32	26.3	46.9	46.5	46.7	3.11	3.09	<u>3.10</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2015	-	Amber	Middle	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Rainstorm	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	I		_ 00111																

Date	Time	Weater	Samplin	ig Depth	Wat	ter Temp	perature		pН			Salinit	у	D	O Satur	ation		DO	
Dale		Condition	r	n	Va	°C alue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L Ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8/2015	18:20	Fine	Middle	0.5	26.30	26.30	26.3	8.18	8.18	8.2	27.67	27.67	27.7	38.7	38.5	38.6	2.67	2.66	<u>2.67</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2015	-	Cloudy	Middle	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2015	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at C6 - Excelsior Hotel Mid-Ebb Tide

Date	Time	Weater Condition		g Depth	Wat	<u>er Tem</u> p ℃	perature		pH -			Salinit ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	ilue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8/2015	12:20	Fine	Middle	2	26.70	26.70	26.7	8.11	8.11	8.1	30.93	30.93	30.9	56.5	57.0	56.8	3.81	3.83	3.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2015	15:33	Fine	Middle	2	26.20	26.20	26.2	8.06	8.06	8.1	30.84	30.84	30.8	37.6	38.8	38.2	2.55	2.62	<u>2.59</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2015	16:04	Cloudy	Middle	2	25.30	25.30	25.3	8.18	8.18	8.2	29.04	29.04	29.0	57.7	56.7	57.2	4.02	3.95	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/9/2015	17:22	Fine	Middle	2	26.70	26.70	26.7	8.12	8.12	8.1	29.83	29.83	29.8	42.7	43.3	43.0	2.90	2.93	2.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2015	10:05	Cloudy	Middle	2	27.20	27.20	27.2	8.05	8.05	8.1	27.33	27.33	27.3	49.2	52.6	50.9	3.35	3.59	3.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2015	11:50	Fine	Middle	2	26.40	26.40	26.4	8.11	8.11	8.1	30.42	30.42	30.4	57.0	57.3	57.2	3.87	3.89	3.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/9/2015	18:25	Fine	Middle	2	27.20	27.20	27.2	8.33	8.33	8.3	30.85	30.85	30.9	70.8	71.3	71.1	4.75	4.78	4.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2015	11:36	Fine	Middle	2	27.40	27.40	27.4	8.25	8.25	8.3	31.53	31.53	31.5	58.2	55.6	56.9	3.86	3.69	3.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:34		Surface	1	28.20	28.20	28.2	8.05	8.05	8.1	30.25	30.25	30.3	48.0	48.1	48.1	2.22	3.17	2.70
16/9/2015	-	Fine	Middle	2	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-
	15:36		Bottom	3	27.90	27.90	27.9	8.08	8.08	8.1	17.48	17.48	17.5	77.2	76.6	76.9	5.49	5.42	5.46
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/9/2015	16:06	Fine	Middle	1	28.50	28.50	28.5	8.14	8.14	8.1	31.04	31.02	31.0	62.2	63.0	62.6	4.05	3.98	4.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2015	4:20	Cloudy	Middle	2	27.70	27.70	27.7	8.13	8.13	8.1	27.95	27.95	28.0	51.4	52.4	51.9	3.46	3.54	3.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2015	10:11	Fine	Middle	1	29.10	29.10	29.1	8.15	8.15	8.2	28.53	28.53	28.5	47.0	45.8	46.4	3.08	3.00	3.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2015	11:25	Fine	Middle	2	29.20	29.20	29.2	8.04	8.04	8.0	28.94	28.94	28.9	67.9	68.8	68.4	4.43	4.49	4.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

· · · · · · · · · · · · · · · · · · ·																			
Date	Time	Weater Condition		ng Depth		°C	perature		<u>рН</u> -			Salinit ppt			O Satur %			DO mg/L	
				n	Va	lue	Average	Va	lue	Average	Va	lue	Average		lue	Average	Va	lue	Average
29/8/2015	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/0/2015	11:23	Fille	Middle	1.0	26.10	26.10	26.1	8.17	8.17	8.2	31.85	31.85	31.9	57.8	57.8	57.8	3.91	3.91	3.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/0/0045	-	F 1.1	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2015	15:17	Fine	Middle	1.0	26.20	26.20	26.2	8.16	8.16	8.2	27.31	27.31	27.3	39.0	39.2	39.1	3.70	3.71	3.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0/0/2045	-	Claudu	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2015	15:46	Cloudy	Middle	1.0	25.30	28.30	26.8	8.22	8.22	8.2	27.29	27.29	27.3	51.2	50.7	51.0	3.60	3.57	3.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/9/2015	17:02	Fine	Middle	1.0	26.40	26.40	26.4	8.23	8.23	8.2	30.72	30.72	30.7	53.3	52.4	52.9	3.60	3.54	3.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2015	9:43	Cloudy	Middle	1.0	27.00	27.00	27.0	8.15	8.15	8.2	23.93	23.93	23.9	46.1	45.0	45.6	3.21	3.14	<u>3.18</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2015	11:28	Fine	Middle	1.0	26.60	26.60	26.6	8.26	8.26	8.3	19.83	19.83	19.8	44.2	44.1	44.2	3.17	3.11	<u>3.14</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/9/2015	16:57	Fine	Middle	1.0	26.80	26.80	26.8	8.27	8.27	8.3	28.63	28.63	28.6	63.0	61.3	62.2	4.29	4.16	4.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2015	11:18	Fine	Middle	1.0	27.20	27.20	27.2	8.36	8.36	8.4	30.39	30.39	30.4	63.6	63.7	63.7	4.25	4.26	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2015	15:15	Fine	Middle	1.5	28.00	28.00	28.0	8.34	8.34	8.3	21.40	21.40	21.4	41.4	42.8	42.1	2.81	2.96	<u>2.89</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/9/2015	15:44	Fine	Middle	1.0	28.90	28.90	28.9	8.07	8.07	8.1	21.49	21.49	21.5	38.1	38.5	38.3	2.60	2.62	<u>2.61</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2015	7:01	Cloudy	Middle	1.0	27.80	27.80	27.8	8.15	8.15	8.2	19.70	19.70	19.7	60.8	59.7	60.3	4.39	4.35	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2015	9:57	Fine	Middle	1.0	28.50	28.50	28.5	8.28	8.28	8.3	26.49	26.49	26.5	52.8	51.9	52.4	3.53	3.47	3.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2015	11:14	Fine	Middle	1.5	28.60	28.60	28.6	8.24	8.24	8.2	17.58	17.54	17.6	25.2	24.8	25.0	1.77	1.74	<u>1.76</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

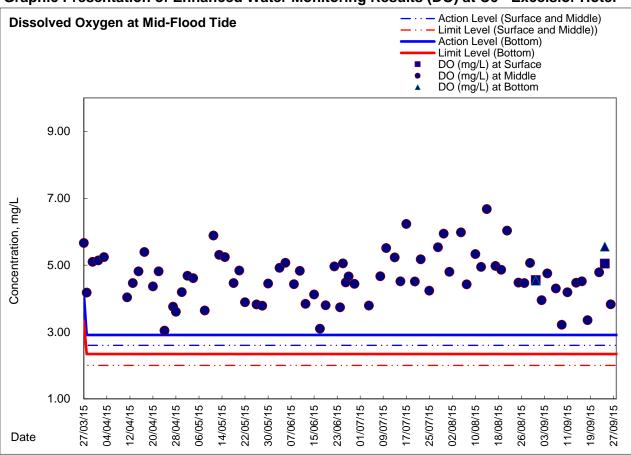
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Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

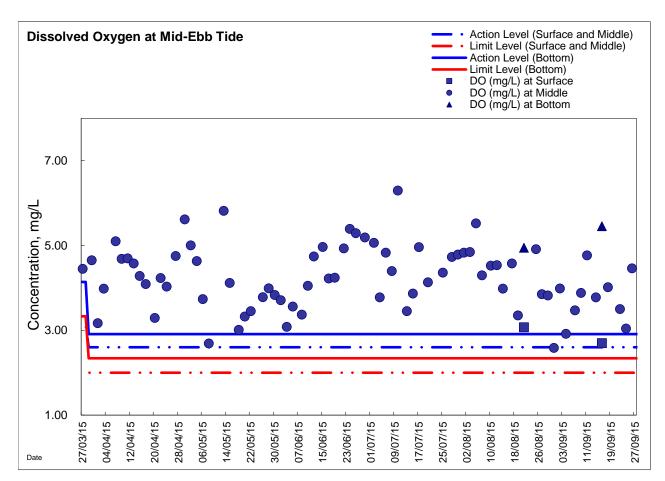
		1			1			1			1			1					
Date	Time	Weater Condition		ig Depth	Wat	er Temp ℃	perature		pH -			Salinit ppt	У	C	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	ilue	Average	Va	- ilue	Average	Va	lue	Average	Va	ilue	Average	Va	ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8/2015	11:21	Fine	Middle	0.5	26.40	26.40	26.4	8.20	8.20	8.2	32.00	32.00	32.0	45.5	44.6	45.1	3.06	2.99	<u>3.03</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	ŀ	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	ŀ	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	ŀ	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	I					1		1	1		1			1				1	

Remarks:



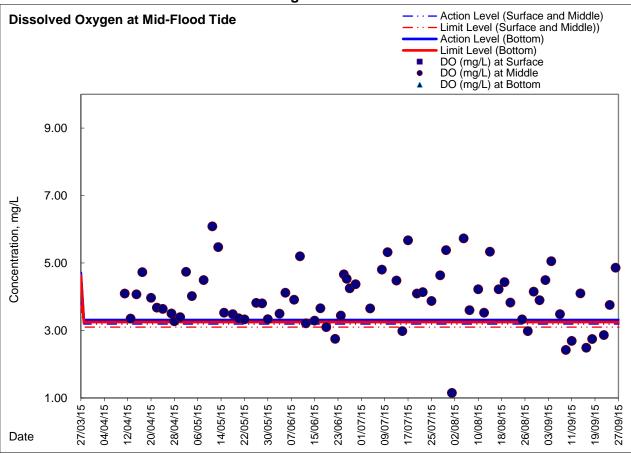


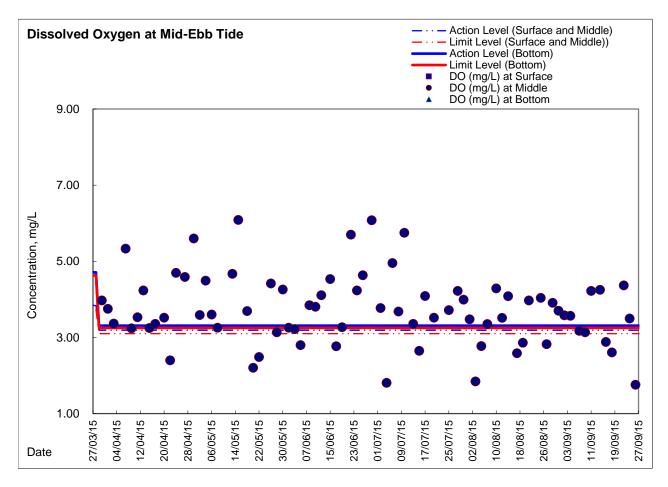
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





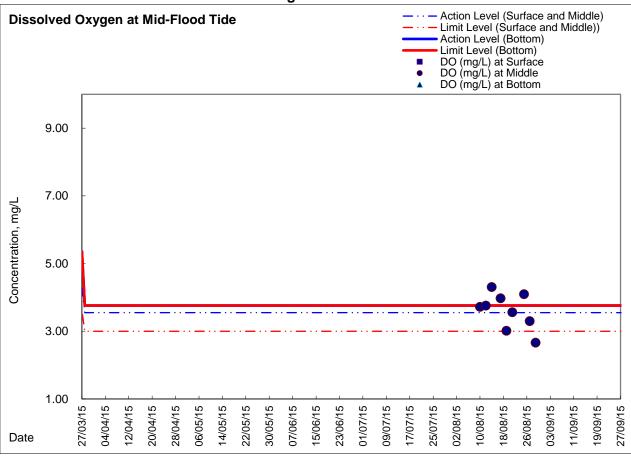
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

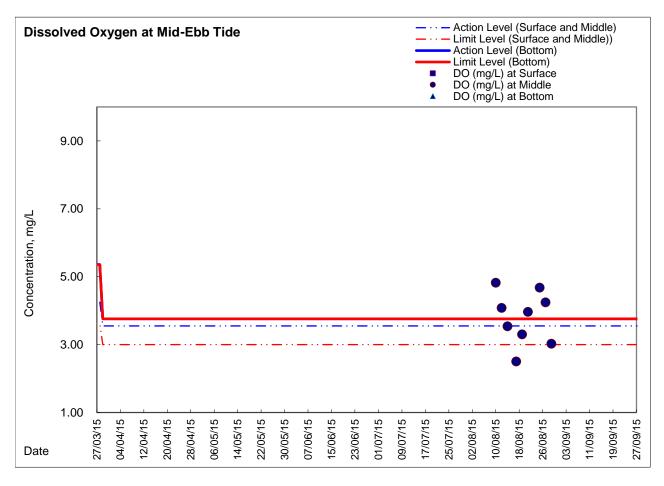






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data	RTN2a (Hong Kong Electric Centr	0)			
	2/9/2015 12:01 64	8/9/2015 18:31 63	14/9/2015 13:01 66	19/9/2015 7:31 63	24/9/2015 14:01 55
Normal Day 07:00-19:00	2/9/2015 12:31 64	9/9/2015 7:01 61	14/9/2015 13:31 67	19/9/2015 8:01 64	24/9/2015 14:31 56
	2/9/2015 13:01 54	9/9/2015 7:31 61	14/9/2015 14:01 67	19/9/2015 8:31 66	24/9/2015 15:01 67
28/8/2015 7:01 62	2/9/2015 13:31 68	9/9/2015 8:01 64	14/9/2015 14:31 67	19/9/2015 9:01 66	24/9/2015 15:31 65
28/8/2015 7:31 63	2/9/2015 14:01 52	9/9/2015 8:31 65	14/9/2015 15:01 66	19/9/2015 9:31 67	24/9/2015 16:01 65
28/8/2015 8:01 64	2/9/2015 14:31 64	9/9/2015 9:01 67	14/9/2015 15:31 66	19/9/2015 10:01 67	24/9/2015 16:31 64
28/8/2015 8:31 64	2/9/2015 15:01 65	9/9/2015 9:31 65	14/9/2015 16:01 66	19/9/2015 10:31 57	24/9/2015 17:01 64
28/8/2015 9:01 55	2/9/2015 15:31 63	9/9/2015 10:01 65	14/9/2015 16:31 66	19/9/2015 11:01 39	24/9/2015 17:31 63
28/8/2015 9:31 66	2/9/2015 16:01 64	9/9/2015 10:31 65	14/9/2015 17:01 65	19/9/2015 11:31 65	24/9/2015 18:01 62
28/8/2015 10:01 66	2/9/2015 16:31 56	9/9/2015 11:01 65	14/9/2015 17:31 63	19/9/2015 12:01 64	24/9/2015 18:31 61
28/8/2015 10:31 66	2/9/2015 17:01 68	9/9/2015 11:31 65	14/9/2015 18:01 63	19/9/2015 12:31 64	25/9/2015 7:01 61
28/8/2015 11:01 65	2/9/2015 17:31 65	9/9/2015 12:01 63	14/9/2015 18:31 62	19/9/2015 13:01 66	25/9/2015 7:31 61
28/8/2015 11:31 64	2/9/2015 18:01 63	9/9/2015 12:31 63	15/9/2015 7:01 61	19/9/2015 13:31 57	25/9/2015 8:01 62
28/8/2015 12:01 62	2/9/2015 18:31 61	9/9/2015 13:01 64	15/9/2015 7:31 61	19/9/2015 14:01 51	25/9/2015 8:31 65
28/8/2015 12:31 63	4/9/2015 7:01 61	9/9/2015 13:31 66	15/9/2015 8:01 63	19/9/2015 14:31 58	25/9/2015 9:01 66
28/8/2015 13:01 65	4/9/2015 7:31 62	9/9/2015 14:01 66	15/9/2015 8:31 65	19/9/2015 15:01 67	25/9/2015 9:31 64
28/8/2015 13:31 66	4/9/2015 8:01 63	9/9/2015 14:31 65	15/9/2015 9:01 65	19/9/2015 15:31 67	25/9/2015 10:01 58
28/8/2015 14:01 66	4/9/2015 8:31 67	9/9/2015 15:01 66	15/9/2015 9:31 66	19/9/2015 16:01 66	25/9/2015 10:31 66
28/8/2015 14:31 65	4/9/2015 9:01 70	9/9/2015 15:31 64	15/9/2015 10:01 67	19/9/2015 16:31 66	25/9/2015 11:01 58
28/8/2015 15:01 64	4/9/2015 9:31 60	9/9/2015 16:01 66	15/9/2015 10:31 66	19/9/2015 17:01 65	25/9/2015 11:31 65
28/8/2015 15:31 63	4/9/2015 10:01 67	9/9/2015 16:31 66	15/9/2015 11:01 66	19/9/2015 17:31 64	25/9/2015 12:01 62
28/8/2015 16:01 63	4/9/2015 10:31 66	9/9/2015 17:01 65	15/9/2015 11:31 64	19/9/2015 18:01 63	25/9/2015 12:31 62
28/8/2015 16:31 65	4/9/2015 11:01 65	9/9/2015 17:31 63	15/9/2015 12:01 63	19/9/2015 18:31 62	25/9/2015 13:01 65
28/8/2015 17:01 64	4/9/2015 11:31 64	9/9/2015 18:01 63	15/9/2015 12:31 63	21/9/2015 7:01 63	25/9/2015 13:31 66
28/8/2015 17:31 63	4/9/2015 12:01 62	9/9/2015 18:31 62	15/9/2015 13:01 64	21/9/2015 7:31 64	25/9/2015 14:01 66
28/8/2015 18:01 61	4/9/2015 12:31 63	10/9/2015 7:01 61	15/9/2015 13:31 67	21/9/2015 8:01 63	25/9/2015 14:31 66
28/8/2015 18:31 60	4/9/2015 13:01 64	10/9/2015 7:31 61	15/9/2015 14:01 67	21/9/2015 8:31 66	25/9/2015 15:01 66
29/8/2015 7:01 62	4/9/2015 13:31 66	10/9/2015 8:01 65	15/9/2015 14:31 67	21/9/2015 9:01 65	25/9/2015 15:31 66
29/8/2015 7:31 63	4/9/2015 14:01 65	10/9/2015 8:31 65	15/9/2015 15:01 67	21/9/2015 9:31 64	25/9/2015 16:01 67
29/8/2015 8:01 65	4/9/2015 14:31 66	10/9/2015 9:01 66	15/9/2015 15:31 65	21/9/2015 10:01 66	25/9/2015 16:31 67
29/8/2015 8:31 66	4/9/2015 15:01 52	10/9/2015 9:31 66	15/9/2015 16:01 54	21/9/2015 10:31 66	25/9/2015 17:01 65
29/8/2015 9:01 66	4/9/2015 15:31 65	10/9/2015 10:01 65	15/9/2015 16:31 59	21/9/2015 11:01 66	25/9/2015 17:31 64
29/8/2015 9:31 65	4/9/2015 16:01 66	10/9/2015 10:31 65	15/9/2015 17:01 66	21/9/2015 11:31 65	25/9/2015 18:01 64
29/8/2015 10:01 65	4/9/2015 16:31 59	10/9/2015 11:01 66	15/9/2015 17:31 65	21/9/2015 12:01 62	25/9/2015 18:31 63
29/8/2015 10:31 66	4/9/2015 17:01 66	10/9/2015 11:31 65	15/9/2015 18:01 63	21/9/2015 12:31 63	26/9/2015 7:01 61
29/8/2015 11:01 65	4/9/2015 17:31 64	10/9/2015 12:01 63	15/9/2015 18:31 63	21/9/2015 13:01 66	26/9/2015 7:31 62
29/8/2015 11:31 64	4/9/2015 18:01 63	10/9/2015 12:31 61	16/9/2015 7:01 61	21/9/2015 13:31 67	26/9/2015 8:01 64
29/8/2015 12:01 63	4/9/2015 18:31 62	10/9/2015 13:01 64	16/9/2015 7:31 61	21/9/2015 14:01 67	26/9/2015 8:31 66
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29/8/2015 14:01 65	5/9/2015 8:31 64	10/9/2015 15:01 64	16/9/2015 9:31 56	21/9/2015 16:01 66	26/9/2015 10:31 67
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29/8/2015 17:01 64	5/9/2015 11:31 65	10/9/2015 18:01 64	16/9/2015 12:31 63	22/9/2015 7:01 62	26/9/2015 13:31 66
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31/8/2015 8:01 64	5/9/2015 14:31 67	11/9/2015 9:01 65	16/9/2015 15:31 50	22/9/2015 10:01 67	26/9/2015 16:31 63
31/8/2015 8:31 64	5/9/2015 15:01 65	11/9/2015 9:31 65	16/9/2015 16:01 66	22/9/2015 10:31 67	26/9/2015 17:01 63
31/8/2015 9:01 64	5/9/2015 15:31 64	11/9/2015 10:01 66	16/9/2015 16:31 66	22/9/2015 11:01 67	26/9/2015 17:31 62
31/8/2015 9:31 66	5/9/2015 16:01 67	11/9/2015 10:31 65	16/9/2015 17:01 65	22/9/2015 11:31 64	26/9/2015 18:01 62
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31/8/2015 10:31 66	5/9/2015 17:01 66	11/9/2015 11:31 64	16/9/2015 18:01 62	22/9/2015 12:31 64	
31/8/2015 11:01 65	5/9/2015 17:31 63	11/9/2015 12:01 63	16/9/2015 18:31 61	22/9/2015 13:01 65	Normal Day 19:00-23:00,
31/8/2015 11:31 64	5/9/2015 18:01 63	11/9/2015 12:31 64	17/9/2015 7:01 61	22/9/2015 13:31 55	Sunday & Holiday
31/8/2015 12:01 64	5/9/2015 18:31 62	11/9/2015 13:01 66	17/9/2015 7:31 61	22/9/2015 14:01 67	<u>07:00-23:00</u>
31/8/2015 12:31 64	7/9/2015 7:01 61	11/9/2015 13:31 66	17/9/2015 8:01 63	22/9/2015 14:31 66	
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1/9/2015 7:01 61	7/9/2015 13:31 67	12/9/2015 8:01 64	17/9/2015 14:31 66	23/9/2015 9:01 67	28/8/2015 20:01 62
1/9/2015 7:31 62	7/9/2015 14:01 37	12/9/2015 8:31 65	17/9/2015 15:01 66	23/9/2015 9:31 67	28/8/2015 20:06 48
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1/9/2015 9:31 66	7/9/2015 16:01 66	12/9/2015 10:31 66	17/9/2015 17:01 66	23/9/2015 11:31 65	28/8/2015 20:26 51
1/9/2015 10:01 65	7/9/2015 16:31 65	12/9/2015 11:01 66	17/9/2015 17:31 64	23/9/2015 12:01 63	28/8/2015 20:31 56
1/9/2015 10:31 65	7/9/2015 17:01 64	12/9/2015 11:31 65	17/9/2015 18:01 63	23/9/2015 12:31 62	28/8/2015 20:36 62
1/9/2015 11:01 64	7/9/2015 17:31 63	12/9/2015 12:01 63	17/9/2015 18:31 62	23/9/2015 13:01 66	28/8/2015 20:41 51
1/9/2015 11:31 63	7/9/2015 18:01 64	12/9/2015 12:31 62	18/9/2015 7:01 61	23/9/2015 13:31 67	28/8/2015 20:46 62
1/9/2015 12:01 63	7/9/2015 18:31 63	12/9/2015 13:01 67	18/9/2015 7:31 62	23/9/2015 14:01 66	28/8/2015 20:51 43
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1/9/2015 15:31 64	8/9/2015 10:01 64	12/9/2015 16:31 66	18/9/2015 11:01 56	23/9/2015 17:31 63	28/8/2015 21:26 62
1/9/2015 16:01 67	8/9/2015 10:31 64	12/9/2015 17:01 65	18/9/2015 11:31 63	23/9/2015 18:01 64	28/8/2015 21:31 61
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1/9/2015 17:01 65	8/9/2015 11:31 64	12/9/2015 18:01 62	18/9/2015 12:31 63	24/9/2015 7:01 61	28/8/2015 21:41 61
1/9/2015 17:31 65	8/9/2015 12:01 63	12/9/2015 18:31 61	18/9/2015 13:01 65	24/9/2015 7:31 61	28/8/2015 21:46 61
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2/9/2015 7:01 63	8/9/2015 13:31 65	14/9/2015 8:01 64	18/9/2015 14:31 66	24/9/2015 9:01 67	28/8/2015 22:01 62
2/9/2015 7:31 62	8/9/2015 14:01 65	14/9/2015 8:31 66	18/9/2015 15:01 67	24/9/2015 9:31 49	28/8/2015 22:06 61
2/9/2015 8:01 63	8/9/2015 14:31 65	14/9/2015 9:01 65	18/9/2015 15:31 64	24/9/2015 10:01 48	28/8/2015 22:11 62
2/9/2015 8:31 67	8/9/2015 15:01 65	14/9/2015 9:31 66	18/9/2015 16:01 65	24/9/2015 10:31 51	28/8/2015 22:11 62
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2/9/2015 9:31 65	8/9/2015 16:01 65	14/9/2015 10:31 66	18/9/2015 17:01 65	24/9/2015 11:31 66	28/8/2015 22:26 62
2/9/2015 10:01 64	8/9/2015 16:31 66	14/9/2015 11:01 67	18/9/2015 17:31 63	24/9/2015 12:01 62	28/8/2015 22:31 61
2/9/2015 10:31 66	8/9/2015 17:01 65	14/9/2015 11:31 65	18/9/2015 18:01 62	24/9/2015 12:31 62	28/8/2015 22:36 61
2/9/2015 11:01 61	8/9/2015 17:31 64	14/9/2015 12:01 66	18/9/2015 18:31 61	24/9/2015 13:01 66	28/8/2015 22:41 61
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Real-time Noise Data 28/8/2015 22:51 61	RTN2a (Hong Kong Electric Cent 30/8/2015 11:56 52	re) 30/8/2015 21:01 56	1/9/2015 22:06 62	3/9/2015 11:11 55	3/9/2015 20:16 61
28/8/2015 22:56 61	30/8/2015 12:01 55	30/8/2015 21:06 48	1/9/2015 22:11 56	3/9/2015 11:16 52	3/9/2015 20:21 62
29/8/2015 19:01 62 29/8/2015 19:06 51	30/8/2015 12:06 54 30/8/2015 12:11 51	30/8/2015 21:11 62 30/8/2015 21:16 62	1/9/2015 22:16 56 1/9/2015 22:21 61	3/9/2015 11:21 54 3/9/2015 11:26 55	3/9/2015 20:26 61 3/9/2015 20:31 62
29/8/2015 19:11 62	30/8/2015 12:16 55	30/8/2015 21:21 47	1/9/2015 22:26 62	3/9/2015 11:31 56	3/9/2015 20:36 62
29/8/2015 19:16 55 29/8/2015 19:21 47	30/8/2015 12:21 49 30/8/2015 12:26 55	30/8/2015 21:26 45 30/8/2015 21:31 49	1/9/2015 22:31 61 1/9/2015 22:36 61	3/9/2015 11:36 52 3/9/2015 11:41 58	3/9/2015 20:41 61 3/9/2015 20:46 61
29/8/2015 19:26 46	30/8/2015 12:31 55	30/8/2015 21:36 62	1/9/2015 22:41 62	3/9/2015 11:46 55	3/9/2015 20:51 49
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29/8/2015 19:41 42	30/8/2015 12:46 53	30/8/2015 21:51 46	1/9/2015 22:56 61	3/9/2015 12:01 40	3/9/2015 21:06 47
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29/8/2015 20:01 54 29/8/2015 20:06 52	30/8/2015 13:06 62 30/8/2015 13:11 55	30/8/2015 22:11 62 30/8/2015 22:16 45	2/9/2015 19:16 60	3/9/2015 12:21 55 3/9/2015 12:26 62	3/9/2015 21:26 61 3/9/2015 21:31 48
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29/8/2015 20:31 62	30/8/2015 13:36 52	30/8/2015 22:41 62	2/9/2015 19:46 62	3/9/2015 12:51 56 3/9/2015 12:56 53	3/9/2015 21:56 62
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29/8/2015 21:11 61	30/8/2015 14:16 51	31/8/2015 19:21 55	2/9/2015 20:21 57	3/9/2015 13:20 55	3/9/2015 22:36 62
29/8/2015 21:16 57 29/8/2015 21:21 62	30/8/2015 14:21 54 30/8/2015 14:26 55	31/8/2015 19:26 57 31/8/2015 19:31 52	2/9/2015 20:31 55 2/9/2015 20:36 49	3/9/2015 13:36 54 3/9/2015 13:41 54	3/9/2015 22:41 62 3/9/2015 22:46 62
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29/8/2015 21:31 60 29/8/2015 21:36 62	30/8/2015 14:36 52 30/8/2015 14:41 60	31/8/2015 19:41 53	2/9/2015 20:46 51 2/9/2015 20:51 56	3/9/2015 13:51 54 3/9/2015 13:56 56	3/9/2015 22:56 60 4/9/2015 19:01 61
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29/8/2015 21:46 62	30/8/2015 14:51 56 30/8/2015 14:56 55	31/8/2015 19:56 60	2/9/2015 21:01 56 2/9/2015 21:06 57	3/9/2015 14:06 54	4/9/2015 19:11 60 4/9/2015 19:16 61
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15/9/2015 20:31 62 15/9/2015 20:36 55	17/9/2015 21:36 62 17/9/2015 21:41 58	19/9/2015 22:41 53 19/9/2015 22:46 62	20/9/2015 15:46 62 20/9/2015 15:51 47	21/9/2015 20:51 55 21/9/2015 20:56 61	23/9/2015 21:56 53 23/9/2015 22:01 62
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Deal time Naise Date)			
Real-time Noise Data 23/9/2015 22:21 62	RTN2a (Hong Kong Electric Cent 26/9/2015 19:26 55	re) 27/9/2015 12:31 46	27/9/2015 21:36 61	28/8/2015 23:26 57	30/8/2015 0:31 54
23/9/2015 22:26 50	26/9/2015 19:31 56	27/9/2015 12:36 54	27/9/2015 21:41 62	28/8/2015 23:31 56	30/8/2015 0:36 57
23/9/2015 22:31 61	26/9/2015 19:36 54	27/9/2015 12:41 52	27/9/2015 21:46 54	28/8/2015 23:36 58	30/8/2015 0:41 55
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23/9/2015 22:41 61	26/9/2015 19:46 52	27/9/2015 12:51 55	27/9/2015 21:56 62	28/8/2015 23:46 58	30/8/2015 0:51 56
23/9/2015 22:46 61	26/9/2015 19:51 48	27/9/2015 12:56 56	27/9/2015 22:01 54	28/8/2015 23:51 58	30/8/2015 0:56 53
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24/9/2015 22:56 61	27/9/2015 8:01 62	27/9/2015 17:06 65	28/8/2015 2:56 57	29/8/2015 4:01 58	30/8/2015 5:06 57
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25/9/2015 22:11 61	27/9/2015 11:16 61	27/9/2015 20:21 40	28/8/2015 6:11 52	29/8/2015 23:16 63	31/8/2015 0:21 54
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31/8/2015 2:01 57	1/9/2015 3:06 57	2/9/2015 4:11 57	3/9/2015 5:16 58	4/9/2015 6:21 55	5/9/2015 23:26 58
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Deal fire Naise Date					
Real-time Noise Data 7/9/2015 0:06 51	RTN2a (Hong Kong Electric Cent 8/9/2015 1:11 58	<u>re)</u> 9/9/2015 2:16 57	10/9/2015 3:21 56	11/9/2015 4:26 56	12/9/2015 5:31 58
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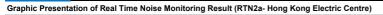
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21/9/2015 3:06 55	22/9/2015 4:11 56	23/9/2015 5:16 57	24/9/2015 6:21 57	25/9/2015 23:26 60	27/9/2015 0:31 56
21/9/2015 3:11 55 21/9/2015 3:16 56	22/9/2015 4:16 57 22/9/2015 4:21 56	23/9/2015 5:21 57 23/9/2015 5:26 58	24/9/2015 6:26 57 24/9/2015 6:31 57	25/9/2015 23:31 58 25/9/2015 23:36 58	27/9/2015 0:36 57 27/9/2015 0:41 68
21/9/2015 3:21 55	22/9/2015 4:26 57	23/9/2015 5:31 57	24/9/2015 6:36 58	25/9/2015 23:41 58	27/9/2015 0:46 65
21/9/2015 3:26 55 21/9/2015 3:31 55	22/9/2015 4:31 56 22/9/2015 4:36 57	23/9/2015 5:36 58 23/9/2015 5:41 58	24/9/2015 6:41 60 24/9/2015 6:46 59	25/9/2015 23:46 57 25/9/2015 23:51 57	27/9/2015 0:51 60 27/9/2015 0:56 58
21/9/2015 3:36 56	22/9/2015 4:41 57	23/9/2015 5:46 58	24/9/2015 6:51 60	25/9/2015 23:56 57	27/9/2015 1:01 63
21/9/2015 3:41 56 21/9/2015 3:46 56	22/9/2015 4:46 57 22/9/2015 4:51 57	23/9/2015 5:51 58 23/9/2015 5:56 58	24/9/2015 6:56 60 24/9/2015 23:01 57	26/9/2015 0:01 57 26/9/2015 0:06 56	27/9/2015 1:06 58 27/9/2015 1:11 56
21/9/2015 3:51 56	22/9/2015 4:56 57	23/9/2015 6:01 58	24/9/2015 23:06 58	26/9/2015 0:11 57	27/9/2015 1:16 54
21/9/2015 3:56 56	22/9/2015 5:01 56	23/9/2015 6:06 58	24/9/2015 23:11 58	26/9/2015 0:16 56	27/9/2015 1:21 56
21/9/2015 4:01 56 21/9/2015 4:06 56	22/9/2015 5:06 57 22/9/2015 5:11 57	23/9/2015 6:11 51 23/9/2015 6:16 53	24/9/2015 23:16 58 24/9/2015 23:21 61	26/9/2015 0:21 56 26/9/2015 0:26 55	27/9/2015 1:26 55 27/9/2015 1:31 52
21/9/2015 4:11 57	22/9/2015 5:16 57	23/9/2015 6:21 55	24/9/2015 23:26 57	26/9/2015 0:31 55	27/9/2015 1:36 53
21/9/2015 4:16 55 21/9/2015 4:21 56	22/9/2015 5:21 57 22/9/2015 5:26 57	23/9/2015 6:26 56 23/9/2015 6:31 57	24/9/2015 23:31 57 24/9/2015 23:36 57	26/9/2015 0:36 56 26/9/2015 0:41 55	27/9/2015 1:41 54 27/9/2015 1:46 51
21/9/2015 4:26 56	22/9/2015 5:31 58	23/9/2015 6:36 58	24/9/2015 23:41 54	26/9/2015 0:46 57	27/9/2015 1:51 54
21/9/2015 4:31 57 21/9/2015 4:36 57	22/9/2015 5:36 42 22/9/2015 5:41 57	23/9/2015 6:41 57 23/9/2015 6:46 58	24/9/2015 23:46 56 24/9/2015 23:51 56	26/9/2015 0:51 55 26/9/2015 0:56 54	27/9/2015 1:56 55 27/9/2015 2:01 52
21/9/2015 4:41 57	22/9/2015 5:46 52	23/9/2015 6:51 60	24/9/2015 23:56 55	26/9/2015 1:01 55	27/9/2015 2:06 49
21/9/2015 4:46 56 21/9/2015 4:51 55	22/9/2015 5:51 41 22/9/2015 5:56 46	23/9/2015 6:56 60 23/9/2015 23:01 58	25/9/2015 0:01 55 25/9/2015 0:06 53	26/9/2015 1:06 62 26/9/2015 1:11 53	27/9/2015 2:11 52 27/9/2015 2:16 56
21/9/2015 4:56 57	22/9/2015 6:01 58	23/9/2015 23:06 58	25/9/2015 0:11 54	26/9/2015 1:16 52	27/9/2015 2:21 52
21/9/2015 5:01 56 21/9/2015 5:06 56	22/9/2015 6:06 58 22/9/2015 6:11 55	23/9/2015 23:11 57 23/9/2015 23:16 58	25/9/2015 0:16 59 25/9/2015 0:21 56	26/9/2015 1:21 51 26/9/2015 1:26 51	27/9/2015 2:26 52 27/9/2015 2:31 51
21/9/2015 5:11 57	22/9/2015 6:16 55	23/9/2015 23:21 58	25/9/2015 0:26 57	26/9/2015 1:31 51	27/9/2015 2:36 52
21/9/2015 5:16 56	22/9/2015 6:21 56 22/0/2015 6:26 55	23/9/2015 23:26 57	25/9/2015 0:31 52	26/9/2015 1:36 52	27/9/2015 2:41 49
21/9/2015 5:21 57 21/9/2015 5:26 57	22/9/2015 6:26 55 22/9/2015 6:31 56	23/9/2015 23:31 57 23/9/2015 23:36 57	25/9/2015 0:36 56 25/9/2015 0:41 51	26/9/2015 1:41 56 26/9/2015 1:46 52	27/9/2015 2:46 48 27/9/2015 2:51 58
21/9/2015 5:31 57	22/9/2015 6:36 57	23/9/2015 23:41 56	25/9/2015 0:46 48	26/9/2015 1:51 52	27/9/2015 2:56 51
21/9/2015 5:36 57 21/9/2015 5:41 58	22/9/2015 6:41 60 22/9/2015 6:46 58	23/9/2015 23:46 56 23/9/2015 23:51 55	25/9/2015 0:51 51 25/9/2015 0:56 53	26/9/2015 1:56 51 26/9/2015 2:01 49	27/9/2015 3:01 50 27/9/2015 3:06 51
21/9/2015 5:46 57	22/9/2015 6:51 59	23/9/2015 23:56 54	25/9/2015 1:01 58	26/9/2015 2:06 49	27/9/2015 3:11 58
21/9/2015 5:51 58 21/9/2015 5:56 58	22/9/2015 6:56 60 22/9/2015 23:01 57	24/9/2015 0:01 55 24/9/2015 0:06 55	25/9/2015 1:06 44 25/9/2015 1:11 52	26/9/2015 2:11 50 26/9/2015 2:16 49	27/9/2015 3:16 50 27/9/2015 3:21 51
21/9/2015 6:01 57	22/9/2015 23:06 59	24/9/2015 0:11 52	25/9/2015 1:16 51	26/9/2015 2:21 51	27/9/2015 3:26 46
21/9/2015 6:06 58	22/9/2015 23:11 57	24/9/2015 0:16 56	25/9/2015 1:21 51	26/9/2015 2:26 45	27/9/2015 3:31 58

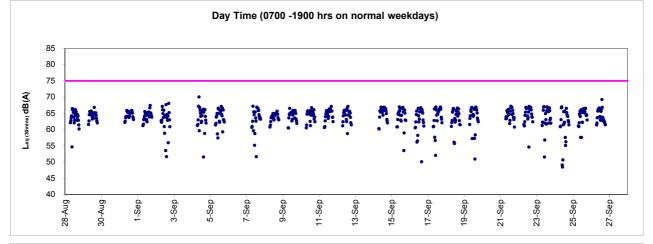
Real-time Noise	Data
27/9/2015 3:36	50
27/9/2015 3:41	51
27/9/2015 3:46 27/9/2015 3:51	58 35
27/9/2015 3:56	55 57
27/9/2015 4:01	57
27/9/2015 4:06	58
27/9/2015 4:11	58
27/9/2015 4:16	46
27/9/2015 4:21	58
27/9/2015 4:26 27/9/2015 4:31	50 57
27/9/2015 4:36	58
27/9/2015 4:41	58
27/9/2015 4:46	40
27/9/2015 4:51	50
27/9/2015 4:56	41
27/9/2015 5:01	40
27/9/2015 5:06 27/9/2015 5:11	58 58
27/9/2015 5:16	48
27/9/2015 5:21	58
27/9/2015 5:26	53
27/9/2015 5:31	58
27/9/2015 5:36	57
27/9/2015 5:41 27/9/2015 5:46	43
27/9/2015 5:46	49 51
27/9/2015 5:56	54
27/9/2015 6:01	49
27/9/2015 6:06	45
27/9/2015 6:11	53
27/9/2015 6:16	52
27/9/2015 6:21 27/9/2015 6:26	53 57
27/9/2015 6:20	57 58
27/9/2015 6:36	56
27/9/2015 6:41	55
27/9/2015 6:46	56
27/9/2015 6:51	56
27/9/2015 6:56	57
27/9/2015 23:01 27/9/2015 23:06	59 58
27/9/2015 23:11	58
27/9/2015 23:16	57
27/9/2015 23:21	58
27/9/2015 23:26	58
27/9/2015 23:31	59
27/9/2015 23:36	57 57
27/9/2015 23:41 27/9/2015 23:46	57 59
27/9/2015 23:51	59
27/9/2015 23:56	56

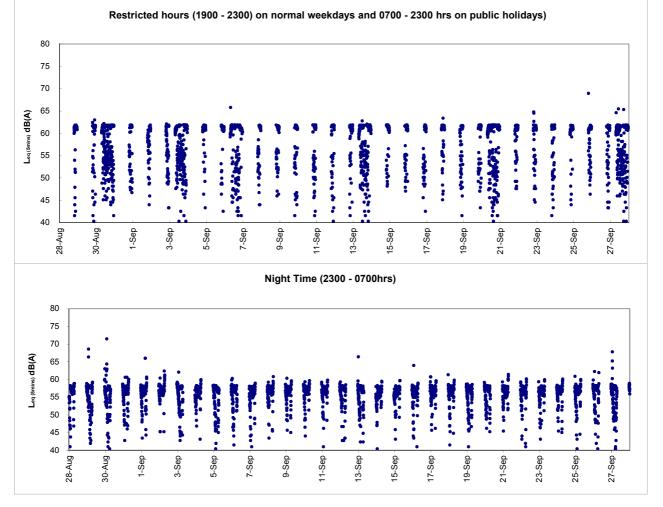
RTN2a (Hong Kong Electric Centre)



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)









Appendix 6.1

**Event Action Plans** 



# **Event/Action Plan for Construction Noise**

EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Review the investigation results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC and ER;</li> <li>Implement noise mitigation proposals.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>



EVENT		AC	CTION	
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	<ol> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> <li>5. Carry out analysis of Contractor's working procedures;</li> <li>6. Discuss with the IEC, Contractor and ER on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the ER until the exceedance is abated.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>



## Event / Action Plan for Construction Air Quality

EVENT		ACTION								
	ET	IEC	ER	CONTRACTOR						
ACTION LEVEL										
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	Notify Contractor.     (The above actions should be taken within 2     working days after the exceedance is identified)	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>						
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>						
LIMIT LEVEL										
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>						
2. Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>						



# **Event and Action Plan for Marine Water Quality**

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)



EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)



# Event and Action Plan for Odour Patrol

Event		ACTION
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD
Action Level		
Exceedance of Action Level	<ol> <li>Identify source/reason of exceedance;</li> <li>Repeat odour patrol to confirm finding.</li> </ol>	<ol> <li>Carry out investigation to identify the source/reason of exceedance;</li> <li>Rectify any unacceptable practice</li> <li>Implement more mitigation measures if necessary;</li> <li>Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li> </ol>
Limit Level		
Exceedance of Limit Level	<ol> <li>Identify source / reason of exceedance;</li> <li>Repeat odour patrol to confirm findings;</li> <li>Increase odour patrol frequency;</li> <li>If exceedance stops, cease additional odour patrol.</li> </ol>	<ol> <li>Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks;</li> <li>Rectify any unacceptable practice;</li> <li>Formulate remedial actions;</li> <li>Ensure remedial actions properly implemented;</li> <li>If exceedance continues, consider what more/enhanced mitigation measures shall be implemented;</li> <li>Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li> </ol>



Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action	
X_15A022	24-Sep-15	8:00	CMA1b - Oil Street Site Office	222.5	24hr TSP (ug/m ³ )	176.7	260	Possible reason:	Elevated TSP level in relate to local ambient condition around monitoring station
								Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of Contractor's working procedures.
								Remarks / Other Obs:	No construction activity was undertaken on the monitoring date at around Oil Street under Contractor of HY/2009/19, regular dust suppression measure including watering for haul road was implemented condition and the condition of haul road was observed be generally satisfactory during sample collection. In view of the above, the exceedance was considered to be non-project related and contributed by local ambient condition. Nevertheless, the Contractor was reminded to maintainregularly dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5198	2-Sep-15	Mid-flood	WSD19	DO(mg/l)	4.96	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	13.46	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	9.00	16.26	19.74	Remarks/ Other Obs:	Despite loading of sorted public fill from barge to land and placing of levelling stones were conducted under contract HK/2012/08 on the monitoring date. Contractor mitigation measures including the use of silt curtain was generally in place. Silt screen maintenance has implemented properly under Contract HK/2009/01. In view of the above and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5198	4-Sep-15	Mid-flood	RW21-P789	DO(mg/l)	4.11	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	12.83	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	11.00	16.26	19.74	Remarks/ Other Obs:	Despite loading of C&D materials at Portion 3 & 4 was conducted under contract HK/2009/02 on the monitoring date. Contractor mitigation measures including the provision of tarpaulin sheet was generally in place. Silt screen at monitoring station was generally in order. In view of the above and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5198	4-Sep-15	Mid-ebb	WSD19	DO(mg/l)	3.92	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	18.74	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	6.50	16.26	19.74	Remarks/ Other Obs:	Despite placing of seawall blocks was conducted under contract HK/2012/08 on the monitoring date. Contractor mitigation measures including the use of silt curtain was generally in place. Silt screen maintenance has implemented properly under Contract HK/2009/01. In view of the construction area was located at the downstream of WSD19 monitoring station and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5198	7-Sep-15	Mid-ebb	WSD19	DO(mg/l)	4.09	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.8	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	4.00	16.26	19.74	Remarks/ Other Obs:	Despite placing of levelling stones was conducted under contract HK/2012/08 on the monitoring date. Contractor mitigation measures including the use of silt curtain was generally in place. Silt screen maintenance has implemented properly under Contract HK/2009/01. In view of the construction area was located at the downstream of WSD19 monitoring station, it was considered that the exceedance was not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5198	7-Sep-15	Mid-flood	WSD19	DO(mg/l)	4.57	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	15.2	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	18.50	16.26	19.74	Remarks/ Other Obs:	Despite placing of levelling stones was conducted under contract HK/2012/08 on the monitoring date. Contractor mitigation measures including the use of silt curtain was generally in place. Silt screen maintenance has implemented properly under Contract HK/2009/01. In view of the above and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5198	11-Sep-15	Mid-ebb	RW21-P789	DO(mg/l)	4.58	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	12.91	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	12.00	16.26	19.74	Remarks/ Other Obs:	Despite loading of C&D materials at Portion 3 & 4 was conducted under contract HK/2009/02 on the monitoring date. Contractor mitigation measures including the provision of tarpaulin sheet was generally in place. Silt screen at monitoring station was generally in order. In view of the above and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5198	14-Sep-15	Mid-ebb	WSD19	DO(mg/l)	4.07	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	21.45	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	14.50	16.26	19.74	Remarks/ Other Obs:	No marine activity was conducted under contract HK/2012/08 on the monitoring date. Silt screen maintenance has implemented properly under Contract HK/2009/01. In view of no marine activity conducted, it was considered that the exceedance was not project related.
X_W5198	14-Sep-15	Mid-flood	WSD19	DO(mg/l)	5.46	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.65	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	9.50	16.26	19.74	Remarks/ Other Obs:	No marine activity was conducted under contract HK/2012/08 on the monitoring date. Silt screen maintenance has implemented properly under Contract HK/2009/01. In view of no marine activity conducted and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5198	16-Sep-15	Mid-flood	WSD19	DO(mg/l)	4.98	3.17	2.63		Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	12.25	10.01		Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	11.00	16.26	19.74	Remarks/ Other Obs:	Despite placing of seawall blocks was conducted under contract HK/2012/08 on the monitoring date. Contractor mitigation measures including the use of silt curtain was generally in place. In view of the above and no exceedance on the subsequent monitoring, it was considered that the exceedance was not project related.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X 10D533	29-Aug-15				DO(mg/l)	3.03	3.55		Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Despite excavated mud transhipment was conducted at Ex-WPCWA on the monitoring date, the construction works conducted was generally in order with provision of tarpaulin sheet and while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted, the exceedance was considered not related to the Project works.
X_10D534	29-Aug-15	Mid-flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.67	3.55	3.00	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Despite excavated mud transhipment was conducted at Ex-WPCWA on the monitoring date, the construction works conducted was generally in order with provision of tarpaulin sheet and while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.
X_10D535	29-Aug-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.43	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Despite excavated mud transhipment was conducted at Ex-WPCWA on the monitoring date, the construction works conducted was generally in order with provision of tarpaulin sheet and while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.
X_10D536	31-Aug-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.69	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken: Remarks/ Other Obs:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data. Despite rock filling works for the function of vertical seawall at East side of TPCWAE was conducted on the monitoring date, the construction works conducted was generally in order while upstream discharge from nearby culvert was observed. In view of no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.



#### Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage2) Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D537	31-Aug-15	Mid-ebb	C6	Middle	DO(mg/l)	2.59	2.60	2.00	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine works was conducted under Contract HY/2010/08 on the monitoring date, and despite rock filling works for the function of vertical seawall at East side of TPCWAE was conducted under Contract HY/2009/15 on the monitoring date, the construction works conducted was generally in order. In view of no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.
X_10D538	4-Sep-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.49	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date, contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
X_10D539	7-Sep-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.18	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date, Contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and the construction works was conducted according, the exceedance was considered not related to Project works. Nevertheless, Contractor was reminded to ensure sufficient water circulation to eliminate any potential effect to the water quality within the area.
X_10D540	7-Sep-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.75	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken: Remarks/ Other Obs:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data. Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date.
										Contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and the construction works was conducted according, the exceedance was considered not related to Project works. Nevertheless, Contractor was reminded to ensure sufficient water circulation to eliminate any potential effect to the water quality within the area.



Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
9-Sep-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.14	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
								Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
								Remarks/ Other Obs:	Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date, Contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and the construction works was conducted according, the exceedance was considered not related to Project works. Nevertheless, Contractor was reminded to ensure sufficient water circulation to
9-Sep-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.87	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
								Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
								Remarks/ Other Obs:	Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date, Contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and the construction works was conducted according and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works. Nevertheless, Contractor was reminded to ensure sufficient water circulation to eliminate any potential effect to the
16-Sep-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.89	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
								Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
								Remarks/ Other Obs:	Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date, Contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted and the construction works was conducted according and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
18-Sep-15	Mid-ebb	Ex-WPCAWA SW	Middle	DO(mg/l)	2.61	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
								Action taken/ to be taken: Remarks/ Other Obs:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data. Despite seawall reinstatement work was conducted at eastern of Ex-WPCWA on the monitoring date, Contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was observed. In view of no dredging or reclamation works activity was conducted according and no exceedance was recorded on
	9-Sep-15 9-Sep-15 16-Sep-15	9-Sep-15 Mid-ebb	9-Sep-15 Mid-ebb Ex-WPCWA SW 9-Sep-15 Mid-flood Ex-WPCWA SW 16-Sep-15 Mid-ebb Ex-WPCWA SW	9-Sep-15 Mid-ebb Ex-WPCWA SW Middle 9-Sep-15 Mid-flood Ex-WPCWA SW Middle 16-Sep-15 Mid-ebb Ex-WPCWA SW Middle	9-Sep-15 Mid-ebb Ex-WPCWA SW Middle DO(mg/l)	9-Sep-15       Mid-ebb       Ex-WPCWA SW       Middle       DO(mg/l)       3.14         9-Sep-15       Mid-flood       Ex-WPCWA SW       Middle       DO(mg/l)       2.87         16-Sep-15       Mid-ebb       Ex-WPCWA SW       Middle       DO(mg/l)       2.87         16-Sep-15       Mid-ebb       Ex-WPCWA SW       Middle       DO(mg/l)       2.89	9-Sep-15         Mid-ebb         Ex-WPCWA SW         Middle         DO(mg/l)         3.14         3.19           9-Sep-15         Mid-flood         Ex-WPCWA SW         Middle         DO(mg/l)         2.87         3.19           9-Sep-15         Mid-flood         Ex-WPCWA SW         Middle         DO(mg/l)         2.87         3.19           16-Sep-15         Mid-ebb         Ex-WPCWA SW         Middle         DO(mg/l)         2.89         3.19	9-Sep-15         Mid-ebb         Ex-WPCWA SW         Middle         DO(mg/l)         3.14         3.19         3.10           9-Sep-15         Mid-flood         Ex-WPCWA SW         Middle         DO(mg/l)         2.87         3.19         3.10           9-Sep-15         Mid-flood         Ex-WPCWA SW         Middle         DO(mg/l)         2.87         3.19         3.10           16-Sep-15         Mid-ebb         Ex-WPCWA SW         Middle         DO(mg/l)         2.89         3.19         3.10	9-Sep-15       Mid-ebb       Ex-WPCWA SW       Middle       DO(mg/l)       3.14       3.19       3.10       Possible reason:         9-Sep-15       Mid-flood       Ex-WPCWA SW       Middle       DO(mg/l)       2.87       3.19       3.10       Possible reason:         9-Sep-15       Mid-flood       Ex-WPCWA SW       Middle       DO(mg/l)       2.87       3.19       3.10       Possible reason:         16-Sep-15       Mid-ebb       Ex-WPCWA SW       Middle       DO(mg/l)       2.89       3.19       3.10       Possible reason:         16-Sep-15       Mid-ebb       Ex-WPCWA SW       Middle       DO(mg/l)       2.89       3.19       3.10       Possible reason:         18-Sep-15       Mid-ebb       Ex-WPCAWA SW       Middle       DO(mg/l)       2.61       3.19       3.10       Possible reason:         18-Sep-15       Mid-ebb       Ex-WPCAWA SW       Middle       DO(mg/l)       2.61       3.19       3.10       Possible reason:         18-Sep-15       Mid-ebb       Ex-WPCAWA SW       Middle       DO(mg/l)       2.61       3.19       3.10       Possible reason:

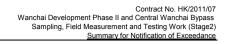


Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D545	24-Sep-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.10	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine activity was conducted at Ex-WPCWA on the monitoring date. Upstream discharge from nearby culvert was observed. In view of no marine activity was conducted, the exceedance was considered not related to the Project works.
X_10D546	26-Sep-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.76	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine activity was conducted at Ex-WPCWA on the monitoring date. Upstream discharge from nearby culvert was observed. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works. The DO level at concerned location was subsequently resumed on 28 September 2015 during ebb tide.



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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C632	14-Sep-15	Mid-flood	C7	DO(mg/l)	4.71	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	15.31	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	6.00	18.42	27.54	Remarks/ Other Obs:	No marine work was conducted in the vicinity of the water quality monitoring station under Contract HY/2009/15 and Contract HY/2010/08 on the monitoring date. In view of no marine activity was conducted on the monitoring date and no exceedance was recorded in subsequence monitoring, the exceedance was considered not related to Project.
X_10C633	18-Sep-15	Mid-flood	C7	DO(mg/l)	5.00	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	22.52	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	15.00	18.42	27.54	Remarks/ Other Obs:	No marine work was conducted in the vicinity of the water quality monitoring station under Contract HY/2009/15 and Contract HY/2010/08 on the monitoring date. In view of no marine activity was conducted on the monitoring date and no exceedance was recorded in subsequence monitoring, the exceedance was considered not related to Project.





Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action	
X_15A023	24-Sep-15	8:00	CMA1b - Oil Street Site Office	222.5	24hr TSP (ug/m ³ )	176.7	260	Possible reason:	Elevated TSP level in relate to local ambient condition around monitoring station
								Action taken / to be taken: Remarks / Other Obs:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures. Thermal barrier preparation works within a section tunnel area with no considerable dust impact to the area outside of the tunnel section was conducted under the Contract of HY/2011/08 on the monitoring date while no exceedance was recoreded at other monitoring station on the same date at location nearer to the tunnel opening. In view of the above, the exceedance was considered not related to the Project and contributed by local ambient condition. Nevertheless, the Contractor was reminded to maintain the regularly dust suppression measures for any dust generating operation above ground around the concerned location to avoid any potential cumulative air quality impact.



Appendix 9.1

Complaint Log



# Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	.,	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	breakwater of the	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100504 4/5	4/5/2010	Public complainant received by ICC (ICC case: 1- 233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	1) 2)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge	Closed
						from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. No further complaints were received in the reporting month. The complaint is considered closed.	
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)		Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) 2)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	Closed
					3)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.	
					4)	It is considered as invalid from the EP and CNP point of view.	
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
				works area adjacent to the Harbour Height during the period from 0700 to 2200.	2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.	
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.	Closed
					2)	Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
					2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.	
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.	
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	<ul> <li>Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;</li> <li>Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall;</li> <li>Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;</li> <li>No starting work on 7 Dec 2010 at 0630hours.</li> <li>PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour;</li> <li>It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill;</li> <li>The absence of the lighting shields at flood light results in visual glare to the compliant at night-time.</li> <li>Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose;</li> <li>No further complaint was received after implementation of proposed measures</li> </ul>	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	<ol> <li>The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</li> <li>Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement.</li> <li>It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</li> <li>It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile</li> <li>The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</li> </ol>	Closed



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110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) 2) 3)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre. It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was	1)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.	Closed
		Office		related to CWB under Contract no. HY/2009/11	2)	According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.	
		3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.				
					4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.	
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	



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110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation.	Closed
					4)	Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	
110710	09/07/2011	Complainant by ICC (ICC no. 1- 301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.		ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



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						so as to prevent recurrent by barge defect	
110723a	Victoria Centre by ICC no. 1- 303887687 Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.			
				Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
				5	5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
				to the vicinity of the residents in early morning	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



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				Central-Wanchai Bypass at noon rather than in morning at 7am.		monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be	
	08/08/2011	-			4)	started at 8am. However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed
					5)	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Re	marks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) 2)	It was referred by AECOM to ET on 17 August 2011. Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	Closed
				3)	Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. Contractors were advised to relocate the loose materials		



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						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) 2)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.	
					3)	The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
					4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the • construction works were referred to the Contractors HY/2009/11 and HY/2009/19. • The pump is located on the site area of HY/2009/19 • A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall.	Closed
			ty	water pump on 9, 22 and 25		<ul> <li>The pump is located on the site area of HY/2</li> <li>A temporary garbage defender was installed July 2011 by HY/2009/11 and the shape of t defender was adjusted on 8 August 2011 in</li> </ul>	d on 23 the order to garbage



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						team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	
						<ul> <li>Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li> </ul>	
						<ul> <li>In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed</li> </ul>	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) 2)	RSS notified ET to carry out investigation on 17 October 2011. ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed



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0	•				<ul> <li>at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site.</li> <li>3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</li> <li>4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.</li> <li>5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.</li> </ul>	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	<ol> <li>ET confirmed with the Resident Site Staff that</li> <li>A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled.</li> <li>Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate.</li> <li>Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.</li> </ol>	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	<ol> <li>According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no</li> </ol>	Keep in view for three months from the date of complaint recevied



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					CNP was checked by the police ET confirmed with the Residen was also raised out by RSS same day. Besides, it was cont Construction Noise Permit for works in the period between 23	t Site Staff that same issue at about 7:00a.m on the firmed that there is no valid the conducted construction	
					Due to insufficient communicati HK/2009/01 and their Korean S Sub-contractor had not notified carrying out the inspection of th bentonite pipes at about 6:00a. and all the pipe joints should be position.	ub-contractor, Korean to Contractor before e BC cutter, hoists and m to ensure no damages	
					) Contractor was advised to enha between Contractor and sub-co sufficient environmental training operators on restricted hour op Construction Noise Permit shou place for the construction works	ontractor and provide g to all foreman and eration. Futhermore, uld be checked and in	
					This complaint was considered conducted construction works of without valid Construction Nois construction works were condu period. The construction works accordance with the time period complaint will be kept in view of the relevant government activiti	during restricted hours e Permit. No more cted during night time will be conducted in d stated in valid CNP. This f any follow-up action from	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	<ul> <li>RSS notified ET on 5 April 2012</li> <li>ET confirmed with the Reside works were performed during the After reviewing the results of M3a), no exceedance was reco and the noise level was below HY/2009/15 was conducted condition of noise mitigation m found satisfactory. RSS confil performed during the concerne included drilling, diaphragm excavations.</li> <li>HyD made a reply to the comp 1823. HyD replied that the cu drilling, diaphragm wall</li> </ul>	2. Int Site Staff that no piling the concerned period. noise monitoring (M2b and brded during daytime period 75dB(A). Site inspection for on 10 April 2012. The leasures around CBTS was rmed that no pilings were ad period. The major works wall construction and lainant on 16 April 2012 via urrent works at CBTS were	Closed



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					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	<ol> <li>RSS notified ET on 8 March 2013</li> <li>ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013.</li> <li>Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality.</li> <li>Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found.</li> <li>The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use.</li> </ol>	Closed
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014.	Interim Report was submitted to EPD on 20 June 2014.



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	· · ·				3)	the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report on the complaint	
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	2)	case was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received by ET on 25 July 2014 ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.



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					<ul> <li>Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need.</li> <li>5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.</li> </ul>	
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 October 2014	Work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground. ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	Interim investigation report submitted to EPD on 23 October 2014. Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014



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				From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.	
				Total one scissor platform and two hand held drills (battery) were in operation.	
				From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road.Total one crane lorry was in operation.	
				According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
				From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
				From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.	
				From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.	
				In view of the above findings, no direct information associated with the noise concern was considered available.	
					Complaint         and Received By         Complainant           Image: Complain and Pacesived By         Conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.           Image: Complain and By         Image: Complain and By         From 23:00 hrs to 06:00 hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane form was in operation.           Image: Complain and By         Image: Complain and By         From 23:00 hrs to 06:00 hrs, trial pit works was conducted under Contract HK/2009/02 at Hung Hing Road. Total one crane form was in operation.           Image: Complain and By         Image: Complain and By         According to the relevant site records under Contract HK/2009/02 at WCR3 Area. Total one grab dredger was in operation.           Image: Complain and By         Image: Complain and By         Image: Complain and By         From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was inplemented by the Contractor or HK/2009/02 at Hung Hing Road. Total one grab dredger was implemented by the Contractor or HK/2009/02 at Hung Hing Road. Total one grab dredger was implemented by the Contractor or HK/2009/02 at Hung Hing Road. Total one grab dredger was implemented by the Contractor or HK/2009/02 at Hung Hing Road. Total one from the grab dredger was implemented by the Contractor or HK/2009/02 at Hung Hing Road. Total one from the grab dredger was implemented by the Contractor or HK/2009/02 at Hung Hing Road.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014).	Interim investigation report
		EPD complaint received by ET on 10 November		was scented that affecting the swimmers at Wan Chai Swimming Pool.	The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	submitted to EPD on 17 November 2014.
		2014			ET confirmed with the Resident Site Staff that	
					ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool).	EPD advised no comment on the interim
					Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated.	report and case closed on 1 Dec 2014.
					Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.	
					Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)	
					Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.	
					According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14 EPD complaint received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 19 November 2014. EPD advised no comment on the interim report and case closed on 8 Dec 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141121	Not Specified	EPD Ref: H08/RS/28263-14 EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	<ul> <li>EPD received a construction noise complaint from dredging works at Causeway Bay Typhoon Shelter and a resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.</li> <li>EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14.</li> <li>EPD reminded the Contractor of HY/2011/08 to ensure the work strictly follow the permit conditions and endeavor to minimize the noise as so not to disturb the nearby residents.</li> </ul>	Complaint case handled by EPD and relevant investigation findings was sent to ET on 21 November 2014
150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public. ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW;reclamation/ backfilling works at TPCWAW Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were	Interim report submitted to EPD on 9 February 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.	
					Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.	
					In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.	
					As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
150622	18 June 2015	EPD Ref.:H05/RS/ 00015054-15 dated 8 June	A mooring location near shore and at location outside Wan Chai Sports	Dark smoke and malodour emission was observed from a hopper barge moored near shore and	A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge	Interim report submitted to EPD on 29 June 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2015	Ground	other construction plants under operation from the reclamation construction site	moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.	
					ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation.Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site. According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.	
					Follow-up inspection was conducted during weekly	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No.	Complaint 20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Complainant Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	<ul> <li>environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 &amp; 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed.</li> <li>Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public.</li> <li>A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015).</li> <li>The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near</li> </ul>	Interim report submitted to EPD on 30 July 2015.
					route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during laoding of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor. According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge. The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site.	A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	Interim report submitted to EPD on 14 September 2015.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No.	Complaint	and Received By	Complainant		<ul> <li>From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>Total one derrick barge was in operation.</li> <li>From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.</li> <li>Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.</li> </ul>	
					From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	
					From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.	
					In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
					The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.	
					The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
150917	17 Sep 2015	A public complaint regarding water quality referred by EPD was	Central and Wan Chai Reclamation coastline (between LUNG WUI ROAD to LUNG WO ROAD,	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan	Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the	Interim investigation report submitted to EPD on 25

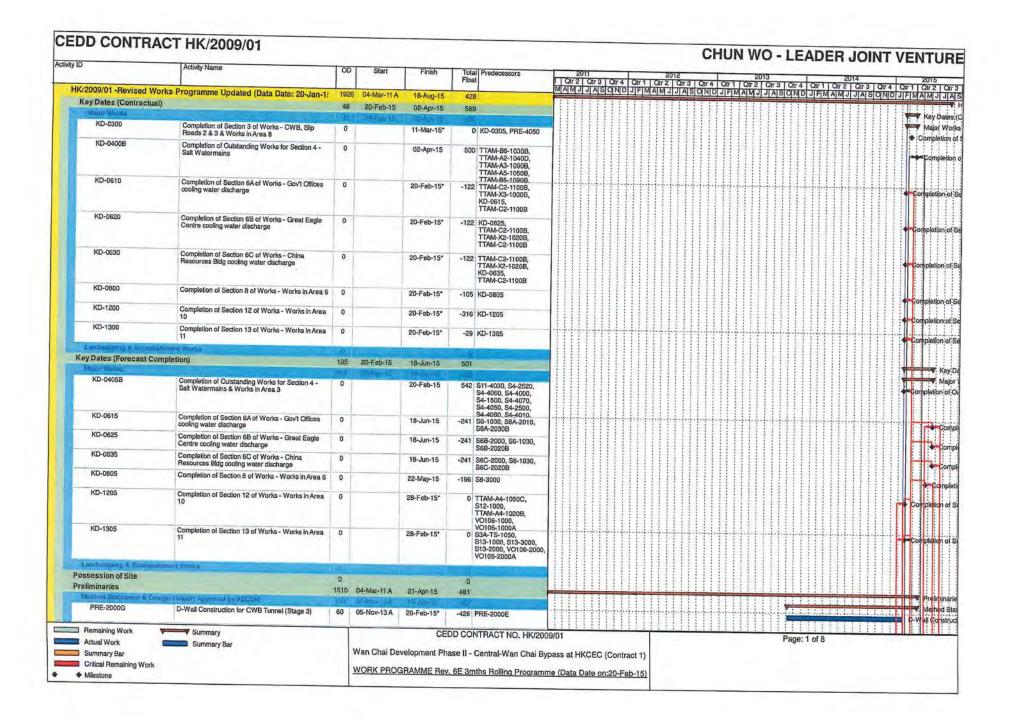


Complaint Log No.	Date of Complaint	Received From and Received By		Status		
		received by ET on 17 September 2015		Chai, Hong Kong)	muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed	September 2015
					to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby	



Appendix 10.1

Construction Programme of Individual Contracts



D		Activity Name	OD	Start	Finish	Float	Predecessors	MAM	2011 2 QI	r3 Q	tr 4		Qtr 2	Otr 3	OINIC	Gtr 1		2 0	AS	OIN D	JF	1 QI	MJ.	Dir 3	QIF 4	DJF	IMA	MI.	J
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	PRE-2030C	ELS for CWB Stage 3	30	19-Apr-14 A	19-Apr-15	483	PRE-3050C, PRE-2030B													11		-	11	TE				•a.	
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	PRE-3050B	ELS for CWB Tunneling Works Stage 2 (GEO)	28	21-Feb-15*	20-Mar-15	-601	PRE-3050D,			111	11	111	111	111	11		11	11		11	11		11	11			F	6.61	1
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	PRE-3050C	ELS for CWB Tunneling Works Stage 3 (GEO)	28	23-Mar-15	19-Apr-15	400	PRE-3050B			111		111	111		11		11	11		11									
	PRE-3050D	ELS for CWB Tunneling Works Stage 1B (GEO) for Bottom Up	28	20-Apr-11 A	20-Feb-15	-601	PRE-3050A		111	111	11	111	111	111	11	111	11	11		11	11		11	11	110			Sor	
-	PRE-3310	Stage 2 Tunnel Structure Design	60	20-Feb-15	20-Apr-15	482	S3B-TS-1000		111	111	11	111	111	411		111	11	11	11	11	11		11	11	1 10			I Sta	
-	PRE-3320	Stage 3 Tunnel Structure Design	60	20-Feb-15	20-Apr-15		S3C-TS-1100		111	111	11	111	111	111	11	111	11	11			11		11	11			P	I Sta	ą
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<u> </u>	PRE-3200D	Salt Water Mains (S8)	28	20-Feb-15*	19-Mar-15	-207	KD-0010	144	111	111		111	111	111		111	11	11			11		. 11	11				Si t V	1
	PRE-3200E	Salt Water Mains (S9)	28	20-Feb-15*	19-Mar-15	-629	KD-0010	111	113	111		111	111	11			11	11	11		11	114		11	111	111		si i v	
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-	PRE-4030	AECOM's and GEO's approval on Detailed Design	60	21-Feb-15	21-Apr-15	481	PRE-4010, PRE-4020			11			11								11			11			-	A	E
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-	ection 24 to 20 - TISM ID	Conling Way Rumping Stutions	100				1		11		111	111			111	11	111	11	11	111	11	11	111	11	1.11				
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		in Convention avenue and Equip Drive)	1	-	1			11			11	111			11					11			11		11		1	orie	A
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_	TTAM-A2-1040D	TTA Completion - Zone A2-48	0	1			ONTRACT NO. HK/	2009/01	1		-		1			15	-			Pa	ge: 2	2 of 8							
	Remaining Work	V Summary																											
-	Actual Work	Summary Bar		Wan Chail	Development I	Phase I	I - Central-Wan Chai	Bypass	s at H	KCEC	(Cor	ntract "	)																
	Summary Bar																												
	Critical Remaining Work			WORK PR	OGRAMME F	Rev. 6E	<b>3mths Rolling Progra</b>	mme (I	Data	Date o	n:20-	Feb-1	5)																

Extend of bit metal (bit metal)         Image: metal (bit metal)         Image: metal (bit metal)           TMAM-9100         TTA00000000000000000000000000000000000	y ID	Activity Name	OD	Start	Finish	Tola Float	Predecessors	10	2011		-	20	12			_	9 - L	1.1						
Turks-1-0         Al-20 Total         P         PE-46-15         Tele SP-100           TURKs-1-000         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-1-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-1-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-0000         TURKs-16-0000         TURKs-16-0000         TURKs-16-0000         TURKs-16-0000           TURKs-16-0000	Zana AZ (At Ferrwick P	or Street)	-	THE REAL PROPERTY AND				MAN	มีมี	ASON	DJIFI	MAMJ	JASI	OND	Otr 1	Qtr 2	Ctr 3 (	tr 4 (	Atr 1 C	ar 2 (	Qtr 3 C	tr 4 Qt	110	IT 2
T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         148         T1AAA-0-000           T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         28-Apr-19         138         0-140           T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         28-Apr-19         138         0-140           T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         82-Apr-19         138         0-140           T1AAA-0-1000         T1A dopmonutan - Zare A3-02 (Bawer)         0         82-Apr-19         138         0-160           T1AAAA-1000         T1A dopmonutan - Zare A3-02 (Bawer)         0         82-Apr-19         0         62-Apr-19           T1AAAA-1000         T1A Completion - Zare A3-02         0         0         0         62-Apr-19         6			0	100000-15	10 Mar 15	100	D0 4600			1111	111	111		111	111	1.101	INOIO	111010	1 IMA	IMUUU	ASU	NUJI	MAI	M J
TRMA-01-000         TAC-000-0000-2006-2006         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	TTANA AN ANA				13-Widt-10	-190	58-1030			1111	111	1111		111	111	111	111			111	1111		T	Adi
11 7043-7103         11 A.Omyldian - Zank A-20 (Bawr)         0         28-4p-15         140         140           11 7044-7103         11 A.Omyldian - Zank A-20 (Bawr)         0         28-4p-15         140         140-40-4000           11 7044-7103         11 A.Omyldian - Zank A-20 (Bawr)         0         28-4p-15         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475         475 <td>TTAM-A3-1040</td> <td>TTA Implementation - Zone A3-2C (Sewer)</td> <td>0</td> <td>19-Mar-15</td> <td></td> <td>-195</td> <td>TTA-A3-6050,</td> <td>111</td> <td></td> <td>1111</td> <td></td> <td>111</td> <td></td> <td>111</td> <td>111</td> <td>111</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	TTAM-A3-1040	TTA Implementation - Zone A3-2C (Sewer)	0	19-Mar-15		-195	TTA-A3-6050,	111		1111		111		111	111	111								
TANA-5-1000         TARA-5000         TARA-5000           TANA-4-900         TARA-5000           TANA-4-900         TARA-5000           TANA-4-9008         TARA-5000           TARA-4-9008         TARA-5000           TARA-4-9008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-500000           TARA-50008         TARA-500000           TARA-50008         TARA-500000           TARA-50008         TARA-500000           TARA-50008         TARA-5000000           TARA-50008         TARA-50000000	TTAM-A3-1050	TTA Completion - Zone A3-2C (Sewer)	0		00.4			111		1111	111			111	111	111							17	Alm
TXAA-5100         TXAA-5100         TXAA-5100         TXAA-5100           TXAA-5100         TXAA-5100         TXAA-51000         TXAA-51000	TTAM-A3-1060	TTA Implementation - Zone A3-2D (Sewer)		26-Apr-15	26-Apr-15			- 11		1111	111			111	111	111	111						1	TTA
TTAC A-1088         TTAC - 200 A/S-02 - 200 A/S-02 - 200 A/S-02         User         <	TTANA 42 1070			and the set		-100	TTAM-A3-1050	11		1111	111		111	111	111	111	1111						E	
Control         Control         Control         Control           TTMAA-11200         TTACComptition - Zone A4-20         0         00-44-15         001           TTMAA-11200         TTACComptition - Zone A4-20         0         00-44-15         001         00-44-15         001           TTMAA-112000         TTACComptition - Zone A4-20         0         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         000         00-44-15         000         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15         00-44-15 <td></td> <td>TTA Completion - Zone A3-2D (Sewer)</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>111</td> <td>111</td> <td>*1**</td> <td>+++</td> <td></td> <td>+++</td> <td>·</td> <td>+++-</td> <td>+++-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.</td>		TTA Completion - Zone A3-2D (Sewer)	-					111	111	*1**	+++		+++	·	+++-	+++-								4.
22/2014 Althoung Ray 2017         De Warden 2017         A07 Section 0.94 1520           TTAM-AG-1050B         TTA Completion - Zone AS-8         0         60-April 1         300         84-100.00.94 1520           Zone B1 (A NECCE VIP Day 2017 Assault 2 Sault 2 No. 2017         0         60-April 1         0         84-100.00.94 1520           Zone B1 (A NECCE VIP Day 2017 Assault 2 Sault 2 No. 2017         0         0         0         94-100.00.94 1520           Zone B1 (A NECCE VIP Day 2017 Assault 2 No. 2018 Assault 2 N		Avenues	0	- AN EVERY	26-Mar-15	507	S4-2520, S4-2120			1111	111		111	111	111	111	1111						LF	ACO
THAN-510080         TA Completion - Zone AS-5         0         0 Appr15         500         54-100, 54-500           Term B1 (Am C2C viel Comp-Off Amus and Sum Amu Casual         0         0 Appr15         00         54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 54-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56-100, 56	TTAM-A4-1120B	TTA Completion - Zone A4-2C	0	NATIONAL COL	02-Apr-15	207	S4 1000 D4 4500		11	1111	111		111	111	111	111		111						one A
Strate BI (A MICEC VM Doe-Off Aware Are Aware Are Are Are Are Are Are Are Are Are A	Zone AS (Al Harbour Ro		DL.	102-Apr-15	Demon To	-207	54-1000, 54-1520			1111	111	1111	111	111	111			111					F) T	TAC
364-1520         364-1520           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana Ana X1-1         0         0           TAW-X2-100B         TTAC-Complion - Zone X1-2         0         0           TAW-X2-100B         TTAC-Complian - Zone X1-3         0         22 May 15         450           TAW-X2-100B         TTAC-Complian - Zone C3-1         0         22 May 15         450           TAW-X2-100B         TTAC-Complian - Zone C3-1         0         0 <t< td=""><td>TTAM-A5-1050B</td><td>TTA Completion - Zone A5-6</td><td>0</td><td></td><td>02-Apr-15</td><td>500</td><td>S4-1100, S4-1510,</td><td></td><td></td><td>****</td><td>+++++</td><td>· · · · ·</td><td></td><td>1.4.1.</td><td>÷</td><td></td><td></td><td>1.1.1</td><td></td><td></td><td></td><td></td><td></td><td>one A</td></t<>	TTAM-A5-1050B	TTA Completion - Zone A5-6	0		02-Apr-15	500	S4-1100, S4-1510,			****	+++++	· · · · ·		1.4.1.	÷			1.1.1						one A
Cone USA Vicit Channel Case One Kannell     0       Dame Bit Monder Channell Case One Kannell     0       Tame Sint One Kannell Case One Kannell     0       Tame Sint One Kannell Case One Kannell     0       Tame Sint One Kannell Case One Case     0       Section 1 of the Kannell Case One Case     0       Tame Sint One Kannell Case One Case     0       Section 2 of the Kannell Case One Case     0       Tame Sint One Kannell Case One Case     0       Section 2 of the Kannell Case One Case     0       Section 2 of the Kannell Case One Case	Zons B1 (ALHKCEC VIP	Group-Off June and Garmanie Barro Strategies	1		194 194 19 19	-	S4-1520		11		111		111		111			111					198	TAC
Drive B3 (Al Vales (Dimonal)     0       Drive B3 (Al	Zone B2 DATHICEC VIP	Biog-Off Area and Face Drive Controll				0			11	1111	111	1111	111	111				111						
2min B0 / A Tapa Auto central store)         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	20mm #3 (At Water Ether	(had):				0			11	1611	111		111	111						111				
Science BC (North & Yence of PNCID: Security Results)         Col           Anne XC (North & Yence of PNCID: Security Results)         Col         0           TTAM-33-1008         TTA Completion - Zone X1-1         0         0           TTAM-33-1008         TTA Completion - Zone X1-2         0         0           TTAM-33-1008         TTA Completion - Zone X1-3         0         0         24/wy-15         463         Socool, SeA-1200           TTAM-33-1008         TTA Completion - Zone X1-3         0         0         24/wy-15         463         Socool, SeA-1200           TTAM-33-1008         TTA Completion - Zone G3-1         0         24/wy-15         450         S68-1220           Trian PR Construction Schedule         0         0         0         0         0         0           Section 1 of the Works - Cross B1arbour Watermains, Works in Area 1 & 2         0         0         0         0           Particity A1 Socie Bolt 1 (Fild E Solton 1 (Fild E Solto	Zone E4 (Ar Golarn Ba	minia aquerer	0						11		111		111	111				111		111				
And Ulfmahit         End Date Heridau Zula & Currenties Average         Clip Control         End Date Heridau Zula & Currenties Average         Clip Control         End Date Heridau Zula & Currenties Average         Clip Control         End Date Heridau Zula & Currenties Average         Clip Control         Clip Control<	Zone 65 (Al Espo Brive	Germal Norm	D								1.1.1.		4.4.4.							111				
TTAX-X3-1008         TTACompleton - Zone X1-1         0         0P-Map-15         -201         SdA-1200, SdA-5200           TTAX-X3-1008         TTACompleton - Zone X1-3         0         0         0-440-15         463         SdA-5200         SdA-1200, SdA-5200           Arex 22 (Unites between Failure Triate and triate and sense values Area         0         0-224 Map-15         460         SdA-5200           TTAX-S3-1008         TTACompleton - Zone X1-3         0         0         24 Map-15         450           Triate Pit Construction Schedule         0         0         24 Map-15         450         SdB-1220           Triate Pit Construction Schedule         0         0         0         0         0         0           Section 1 of the Works - Crose Harbour Watermains, Works in Area 1 & 2         0         0         0         0         0         0           Socian 1 of the Works - Crose Harbour Watermains, Works in Area 1 & 2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Zone 55 (North 5 West</td> <td>or PIKCER - Servinge Syntam)</td> <td>0</td> <td></td> <td></td> <td>UA</td> <td></td> <td></td> <td>11</td> <td>1111</td> <td>111</td> <td></td> <td>111</td> <td></td> <td></td> <td></td> <td></td> <td>111</td> <td></td> <td>111</td> <td></td> <td></td> <td>116</td> <td></td>	Zone 55 (North 5 West	or PIKCER - Servinge Syntam)	0			UA			11	1111	111		111					111		111			116	
TrAN-V3-10108         TrA completion - Zone X1-2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	TTAN Va doop		13	Circle Mitty-Th	and an entry	110					111		111	111						111				
TTAM-V3-1020B         TTA Completion - Zono X1-3         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0									11		111		111		1111			111	111	111	111			
American Statement Henting Realt and Constitution Arrows       0       0       0         Trial PR Construction Schedule       0       0       0         Trial PR Construction Schedule       0       0       0         Section 1 of the Works - Cooling Hander Intake & Discharge System (Chi 0       0       0         Privation Schedule       0       0       0         Privation Schedule Privater Intel (Schedule Privater Intel (Sche		TTA Completion - Zone X1-2							11.				111.					111	111	111			44.42	ATTA
Trake-C3-1000B       Trake-C3-1000B       Trake-C3-1000B       Trake-C3-1000A         Trake-C3-1000B       Trake-C3-1000A       450         Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2       0       0         Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2       0       0         PMA & Citifs 200 To 100 Mm Chai Side)       0       0         ChA & Citifs 200 To 100 Mm Chai Side)       0       0         ChA & Citifs 200 To 100 Mm Chai Side)       0       0         Maintaying at Zongestion (MCD2 Ngaam)       0       0         Maintaying at Zongestion (ChCD2 Ngaam)       0       0         Maintaying at Zongestion (ChCD2 Ngaam)       0       0         The Minit Sourg Citifs Citifs Contron (ChCD2 Ngaam)       0       0         Maintaying at Zongestion (ChCD2 Ngaam)       0       0         Section 2Acit the Works - Cooling Water Intake & Discharge System (Con       0       0         The Works - Cooling Water Intake & Discharge System (Con       0       0         Section 2Acit the Works - Cooling Water Intake & Discharge System (Con       0       0         Maintaying Sourg Citifs Zongestion (ChCC2 Ngaam)       0       0         The Works - Cooling Water Intake & Discharge System (Con       0       0	Arms X2 (Juncilian butwa	onFlaming Road and Convention Avenue)	0	-	22-Way-15	450	S9-5500C, S6A-1220		11									111	111	111	111	111		х <del>н</del>
View Construction Schedule     0     22-May-15     450     S88-1220       Trial Pit Construction Schedule     0     0     0       Sociation 1 of the Works - Cross Hanbour Watermains, Works in Area 1 & 2     0     0       Dubmaker Schön (CHLB & Criss)     0     0       Preliminains     2     0       CHLA & Citis Sociation 1 of the Works - Cross Hanbour Watermains, Works in Area 1 & 2     0       Preliminains     2     0       CHLA & Citis Sociation 1 (CHLB & Criss)     0       Preliminains     2     0       CHLA & Citis Sociation 1 (CHLB & Criss)     0       Impressional Current Oxide Devices (ICCPP) Singlarm     0       Testing & Conneckationing     0       Wein Christ & Criss     0       Testing & Conneckationing     0       Testing & Conneckationing     0       Section 2Aof the Works - Cooling Water Intake & Discharge System (Con     0       Planewing & Conneckationing     0       Testing & Conneckationing     0       Testing & Conneckationing     0       Section 2Aof the Works - Cooling Water Intake & Discharge System (KK)     0	20ng C (Expo Drive Eng	Participation and the second second		25 million th	27 Mar-15	1.0		111	11				111					111	111	111				11
Trial PIt Construction Schedule     0     0       Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2     0     0       Bultmannies Schaft (2Hz)     0     0       Proliminalies     0     0       CH4 & CH5 Subt to 1160 (Wan Cnal State)     0     0       CH4 & CH5 Subt to 1160 (Wan Cnal State)     0     0       Field RHB     0     0     0       Man Cnal State)     0     0     0       Testing & Commissioning     0     0     0       Man Cnal State)     0     0     0       Testing & Commissioning     0     0     0	TIAM-C3-1000B	TTA Completion - Zone C3-1	0		22-May-15	450	S6B-1220,	111	11				111					111	111	111				7 20
Trial Pit Construction Schedule     0     0       Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2     0       Bullmanna Section (Cirit & Critis)     0       Pullminatus     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       Charles Toto (Cirit & Colling Uman Charl Sida)     0       Testing & Counchicationing     0       Wan Charl Sidation (Cirit & Colling)     0       Testing & Counchicational (Cirit Colling)     0       Tes				_			TTAM-C3-1000A, S6C-1600, S6A-1240		11									111	111	111	111			
Dubmanie Social (CHA & CHB)       0         Polinianies       0         Polinianies       0         CHA & CHB 50/12 160 (Win Chal Side)       0         Dimensionalies       0         Polinianies	Trial Pit Construction Sch	nedule	0										1111					111	111	111				11
Preliminates       0       0         CHA & CHIS 001 To 1160 (Man Chai Side)       0       0         CHA & CHIS 001 To 1160 (FIST Bide)       0       0         Imprissed Current Cathodic Protection (ICCP) System       0       0         Testing & Convolutional To the Cathodic Protection (ICCP) System       0       0         Wein Oring Section (CHC & CHO)       0       0       0         Wein Oring Section (CHC & CHO)       0       0       0         Testing & Convolutional Thereth Excavation)       0       0       0         Testing & Convolutional Thereth Excavation)       0       0       0         Testing & Convolutional Chief (CHC & CHO)       0       0       0         Testing & Convolutional Chief (CHC & CHO)       0       0       0         Testing & Convolutional Chief (CHC & CHO)       0       0       0         Testing & Convolutional Chief (CHO)       0       0       0       0         Testing & Convolutional Chief (CHO)       0       0       0       0       0         Testing & Convolutional Chief (CHO)       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Section 1 of the Works - (	Cross Harbour Watermains, Works in Area 1 & 2	0			Ó		111	÷+-		++		+++					4-4-4				1.1.1		1. j.
CHA & SHB -0.1 to SOI (TST Bide)       0       5         Improceeded Gurrant Collender Proceeding (ICCOP) System       0       0         Testing & Commissioning       0       0         With Otel S - this (ICCOP) System       0       0         Maintrying at Zone Bt-1 ( Converting AT Teench Excavation)       0       0         Testing & Commissioning       0	Emiliminante Section (CH)	(CCHB)	1.0		Constant of the local division of the local	0			11				111			111	111	111	111	111				
CHA & SHB -0.1 to SOI (TST Bide)       0       5         Improceeded Gurrant Collender Proceeding (ICCOP) System       0       0         Testing & Commissioning       0       0         With Otel S - this (ICCOP) System       0       0         Maintrying at Zone Bt-1 ( Converting AT Teench Excavation)       0       0         Testing & Commissioning       0	THAS CHE SOUTH 11	O I Web Charl States							11								111	111	111	111	111			
Impressed Gurranti Cathodie Periodection (ICCV) Agriamin     0       Territing & Commissioning     0       Win Otel Scripting (CCCV) Agriamin     0       Maintegring at Zone 8th 4 Concertional Trench Exception     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Previous     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK/     0									11							111	111	111	111	111	111			
Testing & Composition (CMC 2 CH0)     Description (CMC 2 CH0)       Meintepring at Zone Bt*4 (Convectional Trench Excession)     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Testing & Commissioning     0								144	1.1.			.1.1.1.				111	111	111	111	111	111			
Maintaging at Zone BX-1/ (Concettional Trench Exception)     0       Testing & Controllisking     0						-			11			111				111	111	111	111	TTT	111			
Testing & Commissioning     0     0       Testing & Commissioning     0     0       Testing & Commissioning     0     0       Section 2Aof the Works - Cooling Water Intake & Discharge System (Con     0     0       Discretioning     0     0       Testing & Commissioning     0     0       Discretioning     0     0       Testing & Commissioning     0     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK/     0     0			E E I			-		111	11	111		111	1111			111	111	111	111	111	111			
Data bits Roul Section (Citt & Cit+)     0       Tenting & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Prevenue     0       BAM Works     0       Intradiction at Indet Section     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK)     0	Maintaying at Zonin Br	6 (Convertional Trench Execution)	a a			11			11	111		111	1111			111	111	111	111	111	111			
Descring & Commentationing     U       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Operating & Commissioning     0       Testing & Commissioning     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK/     0			0						11	111		111	1111			111	111	111	111	111	111			
Opproving         Discourse           Introductioning         m           EAM Works         0           Introduction of Indef Servery         0           Section 2B of the Works - Cooling Water Intake & Discharge System (HK/         0	Designer & Commission (C	HU LUNPI	0			0			11	TTT		111	1111					-+-+-	+++	++++	++++			
Opproving         Discourse           Introductioning         m           EAM Works         0           Introduction of Indef Servery         0           Section 2B of the Works - Cooling Water Intake & Discharge System (HK/         0	Section 2A of the Works -	Cooling Water Inteks & Discharge Sustern (De							11			111				111	111		111	111	111			
Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0 0	Pipeworks	obering water make a Discharge System (Con	U			0			11	111		111	1111	111	111	111	111	111	111	111	110			
Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0 0	Testing & Commission	ling	1						111	111		111				111	111		111		111			
Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0 0			1 - 1		1	10			·			+++-		-4.4-4		444	4.4.4.	1.1.1	111	14.	1.1.11			
Section 28 of the Works - Cooling Water Intake & Discharge System (HK) 0 0	Invalidation of indust lice on	n						111	111	111		111		111	111	111	111	111	111	111	111			
	Section 2B of the Works -	Cooling Water Intake & Discharge System (HK)	0		-	0		111		111		111		111		111	111	111	111	111	111			
Testing & Commercianing	and the second se	Lora Contra C	1			1		111	11	111				111	111	111	111	111	111					
	maning & commission	11114				0		111		111		111		111	111	111	111		111	111				
Remaining Work V Summary CEDD CONTRACT NO. HK/2009/01 Page: 3 of 8	Remaining Work	Summary	T		CE	DD CON	TRACT NO HK/200	0/01	_	_		1		2.1.4	1.1.6					er i	111	· H	EII:	FI
Actual Work Summary Bar Summary Bar Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	Actual Work			and the													Pa	ige: 3	8 10					

		Activity Name	OD	Start	Finish	Total Float	Predecessors	MAIN	MJ.	AT3 C	Atr 4	Otr 1	AM.	Qtr 3	3 Qtr SON	4 Qtr	MAN	2 C	AS	OND	JF	MAIN	111	ASO	ND J	Ar 1	AIM	15
	Works		ΰ.			0						11			11	111				11								
	linition of Injer Screan		1					11	11			313	111	111	11			111		11		11		11				
		Cooling Water Intake & Discharge System (Shu	0			0			11	111		11	111	111	11		111	111		11	111			11				
	works								11			11		111	11			111	11	11	111		111	11				
	Sing & Commission Worker		81			0		11	17		$\uparrow \uparrow \uparrow$	11	ttt	111	11	i i t	$f^{\dagger}f$	111		1	111	TT	111	11	TT T			H
	itation of intel Second		a			1			11		111	11	111	111	11			111		11			111	11				
		Cooling Water Intake System (3 nos. Govt Towe	0			0	-		11			11			11		111	11			111		111	11				
	works		0			0			11		111	11	111	111		111	111	11		11	111		111	11				
Te	sting & Commissioni	118						11	11				111			111	1.1.1	11.		11.	1.1.1		11.		11.1.			
ELM	Works		9.	60 S.S.M		(7			11			11	111	111		111	111	11		11	111		111	11				
Insta	Inition of Inlet Screen	the second s	Q.		-		1	11	11			11	111	111				11		11	111		111	11				
Comm	on E&M Works for S	ections 2A, 2B, 2C & 2D (LV Switch Board at H	0			0		111	11	111	111		111	111		111	111	11		11	111		-	11	111			
		VB Tunnel, Slip Roads 2 & 3, Works in Area 8		27-Jun-14 A	25-Jul-15	458			11	111	111	11	111	111		111	111	11		11	11		-	11	111	Ш	W B	П
		lago 1 : CH2947 - CH3045)	32	19-100-12-A	10+R/ap-15	233		1.1.1		1.4.1.	4.4.4	· · · ·	· · · · · ·					÷		4.1-	+		1.4.4		He-I-	FIF		1
	po Prie Wall P1						-		11	111	111	11	111	11			111	11	111	11	11	111	111	11				
		Vorks (Matine Chillinge - CH0 - CH120)						11	11	111		11		11			111	11		11	11		111	11				
		arks (CH29)7 - CH3065 / CH0 - CH120)	0	-	-	0		- 13	11	111	111	11	111	11			111	11					11	11				
		t Stage 1A (Top Down Method : CH2947 - CH2988) ( Stage 1B (Bottom Up Method : CH2988 - CH3045)	0			0			11	111	111	11	111	11		111	111	11		11	11		111					
		nks (Ch/947 - Ch/9045)	0			0					111	· tri	+++		· · · ·	<b>†††</b>	111	TT	111	11	TT	ttt	111		int		19	11
		Stage 1A (For Top Slab Construction - CH2947 - C	0	-	Contraction of the	1 0			11	111	111	11	111	11		111	111	11			11	111	111					
115		Stage 1A & 1B (For Bottom Siab Construction - C)	0			0	1		11	111	111		111			111		11	111		11	111	11					
		ure Works ( Bay 1 to Bay 7 Ch2847 - Ch 3045)		16-June 15 A	10-0-0-06	216			11	111	111	11	111	11		111	111	11	111		11	111	11		1	1	tage	e 1 -
-		Rege 1A (Top Slab Construction : CH2947 - CH2968)	0	Contract of the local division of the local		0			11	111	111		111	11		111	111	11	111		11	111	11					
		Bloge 1A & 1B (CH2947 - CH3045)	30	19-Jan-15 A	10 Mar-15	183		-	11	111	111		111	11	111	111	TTT	11	111	T	TT	TTT	TT		1	HH	ul n ar ki	e S
	S3A-TS-2080	Backfilling to formation level for Stage 1B (CH 80 to CH 120)	30	19-Jan-15 A	10-Mar-15	183	S3A-TS-1060, S3A-TS-2000			111				11							11		11			P	3acki	illin
CWS	a Tunnelling Works (Si	lage 2 - Ch3045 - Ch3126)	452	A+Druc 75		-4.95				111	111		111				111				11	111	-	111	+++++	th		T
		Volke (Marine Chalouge : CH120 - CH225)	11	Contract of the						111	111		111	11	111	111	111	11	11		11		11		111.1			
	Ingo 2 - Foundation W	lotks (Ballom Up Mithial - CH2045 - CH3129   CH1	1470	221010104	1252101115	466	and the second second	.1.1		1.1.1	11.		1.1.1		1.1.1.	1.1.1	14.	4.4.	1.1.			į.j.į			Alleri.	ПП		₩ 2 ]- #
	S3B-FW-1040C	ELS for Exhaust Duct CH2988 to CH3045 (~5.0mPD)	170	A DAY SHOT	10-Jun-15	386	S3B-FW-1040B, S3B-TS-2000A																				II,	2
BI	the second se	onis (For Bottom Sibb Construction / CH3045 - CH	18	26-No=14-8	STIMINY IE		Loop FILL LOLOF			111	111		111	11	111	111	111	11	11		11	111	11					-
	S3B-EW-1000E	Stage 2 ELS - excavate to approx, -10.0mPD at Bay 10		19-Dec-14 A	27-May-15	1-1-	S3C-EW-1010E									111	11	11									Щ	-
	S3B-EW-1030	Stage 2 - Breaking of Bulk Head Wall at Bay 10 Ch3129	35	06-Nov-14A	27-May-15	339	538-EW-1000E			111											11	111	11				Щ	-
5		une Works (Bey 716 Bey 10 - 046645 - 043128)	-	A discussion of the	2540410	201	000 70 4000			++++	++			++-	++	+++				+++	+++			111	tttt			918
	S3B-TS-1030	Bay 9 Base Slab	14	27-Jan-15 A	05-Mar-15	-14	S3B-TS-1020	11		111	11		11	11	111	111	11		11	111	11	111	11					
	S3B-TS-1040	Bay 10 Base Slab	14	03-Jun-15	16-Jun-15	38	S3B-EW-1000E	-		111	11	111	11		111	11	11	11	11	111	11	111	11	111	111			
-	S3B-TS-1040 S3B-TS-1050	Removal of 2nd and 3rd layer of Strut/Waling at Bay		09-Feb-15A	15-Mar-15		S3B-TS-1010,			111	11		11		111	111	11		11	111	11	111	11	111	111		Ter	no a
		7,8&9	1.3	and second		1	S3B-TS-1020, S3B-TS-1030			111	11	111	11				11		11	111	11	111	11	111	111			
				1010-107	00 11-1 12			- 1		111	11	111	11	111	111	111			11	111	11	111	11	111		14	i B	8
-	S3B-TS-1060	Bay 7 & 8 Wall	14	16-Mar-15 21-Mar-15	29-Mar-15 03-Apr-15		1 S3B-TS-1050 1 S3B-TS-1050,	-		111	11	111	11		111	111	11		11	111	111			111		18		iy I
	S3B-TS-1070	Bay 9 Wall					S3B-TS-1060				11.	11.			11		1.1.		4.4.	14							1111	
	S3B-TS-1080	Construction of Exhaust Duct (CH2988 - CH3045)	45	11-Jun-15	25-Jul-15	38	6 S3B-FW-1040C				11				111	11			11									1
													-							_			1					_
Re	amaining Work	Summary	-		C	EDD C	ONTRACT NO. HK	2009/0	1											Pa	ige: 4	8 10						
	tual Work	Summary Bar		Wan Chain	evelopment I	Phace I	- Central-Wan Cha	Bypas	is at	HKCE	C(Cor	ntract	1)															
	ummary Bar	and the second																										
	ritical Remaining Work			WORK PRO	GRAMME R	lev 6F	3mths Rolling Prog	mme (	Data	Date	on:20-	-Feb-	15)															

	Activity Name	OD	Start	Finish	Floa	Il Predecessors	Tan	2011 2   Qtr 3	Qtr 4	Qtr 1 T C	2012 2tr 2 0	tr 3   Or	4 0	1 1 201	2013	310			201			_	
S3B-TS-1090	Backfilling at Northern Side from -10mPD to -2mPD (Slip Road 2 - 4700cu.m)	70	04-Apr-15	12-Jun-15	-14	1 S3B-TS-1060, S3B-TS-1070	MAN	JJAS	OND.	JIFIMA	MJJ	ASON	DJF	MAM	JJA	ISON	10 J	FMA	MJ	JASC	ND J	FIM	
S3B-TS-1100	Backfilling at Southern Side from -10mPD to -2mPD (Slip Road 3 - 4000cu.m)	21	22-May-15	11-Jun-15	-140	S3B-TS-1060, S3B-TS-1070.																	
000 TO 1110			in the second			S3B-TS-2000A				111		111				111	111	111		111			l
S3B-TS-1110 S3B-TS-1120	Bay 7 & 8 Wall and OHVD Base Slab	10		08-Apr-15	459	S3B-TS-1060				III.		111				111	111	111	111	111			ļ
	Bay 9 Wall and OHVD Base Slab	10	04-Apr-15	13-Apr-15		S3B-TS-1070, S3B-TS-1110									11								
S3B-TS-1130	Bay 7 & 8 OHVD Wall Stem and Bay 7 & 8 Top Slab	10	09-Apr-15	18-Apr-15	484	S3B-TS-1110	- 11	1	1111	$\dagger$					÷	ŀ				+++		N	
S3B-TS-1140	Bay 9 OHVD Wall Stem and Bay 9 Top Slab	10	14-Apr-15	23-Apr-15	459	S3B-TS-1110, S3B-TS-1120									11								
S3B-TS-1160	Construction of Slip Road 2 & 3 Base Slab	14	13-Jun-15	26-Jun-15	-141	S3B-TS-1090, S3B-TS-1100												111					
S3B-TS-2000A	Construction of Exhaust Duct (CH3045 - CH3129) Including waterproofing works	48	04-Apr-15	21-May-15	-140	S38-TS-1070																μ	
6 Turnidling Clarks (6 Single 9 - Problemation 3	knon 3 Christeine (Liniselle) Mores	- 64	12-04-04 M	(County)	-									111	11						-	Ц	
S3C-MW-1400	Removal of Remaining Type II & I Material during Stage 3 Excavation	45	12-May-15	25-Jun-15	-242	\$3C-EW-1010E									T				T				
	Outtail and Seawnill Construction	0	1		0	-			111		111	1111		111				111	11				
Demolilion Works		.0.		1				1111	111		111	1111	111	111	111	11		111	11				
Demolition Works		Ø			0	1		1111	111	1111	111	1111		111	113			111	11	111			
Demolition Works		0			0			+			1.1.1	1.1.1.4	.1.1.1	111	4.4.4			111	11	111			
	ersion and Reprovision)	0			0			1111	111	111	111	1111	111	111	111	111	11	111	11	111		11	
inge 3 - Foundation W	lonis							1111	1111	1111	111	1111	111	111	111			111	11	1111			
lige d. Excavation We		100						111			111	1111	111	111	111	111		111	11				
Excavation Works at		Site .	12-Dec-14 A	25.40.15		-		1111	1111	1111	111	1111	111	111	111	111		111	11		Witter	H	ľ
S3C-EW-1010	Excavation to -4.0 mPD (approx 26,600m3)	96	and the second se	And in case of the local division of the loc	-242			111	1111	1111	111	1111	3.11	111	111	111		111	11	ЫH	Contraction of the		ł
	including strut/waling installation	90	18-Dec-14 A	31-Mar-15	-236	S3C-FW-1040B, PRE-2030C, S3C-EW-1000													T			H	
S3C-EW-1010B	Installation of Dewatering Well (45nos.) and Pumping Test	45	12-Dec-14A	06-Apr-15	-242	PRE-2000H, S3C-FW-1050C, S3C-FW-1040B, S3C-EW-1010															-	and there	
S3C-EW-1010E	Excavation to -16mPD (approx 55,000m3)	80	07-Apr-15	25-Jun-15	-242	S3C-EW-1010, S3C-EW-1010B					Ш		111				11		11			L	
Excavation Works at	Stage 3A & 3B (For Bottom Slab Construction : Cl	-0			-	COC-EW-TOTOB		1111	1111		111	1111	111	111	111	111			111			11	ł
	in Works (Bay 11 to Bay 28   Ch0129 - CH0245)		All and a state of the	-		COLUMN TWO IS NOT	- 111	1111	1111	111	111	1111	111	111	111	111		111	111	1114	111		
	tage 3A (Top Slab Construction - CH3185 - CH3246)	0.1		and the second second				1.1.1.1	444		1.1.1.	1111	1.11	111	111	111	11		111		110		
Tunnel Structure at S	(age 3A & 3B (CH3129 - CH3245)	56	08-M/w-15	02-34115	0		- 113	1111	1111		111	1111	111	TH	TIT	111	TT		TIT		111	1	
S3C-TS-2000	Bay 11 Sip Road 3 Sump Pit Base Slab	14	A Description of the local division of the	State of the local division of the local div	355	000 100		1111	1111		111	1111	111	111	111	111	11	111	111				
	A COLORE S SAUGHT IN DESC ORD	14	06-Jun-15	19-Jun-15	329	S3C-MW-1400, S3C-EW-1010E, S3B-EW-1030																	
S3C-TS-2000F	Bay 11 CWB Base Slab	14	27-May-15	09-Jun-15	330	S3C-EW-1010E	-111	1111	1111		111	1111	111	111	111	111	11		111				
S3C-TS-2090A	Bay 20 CWB & Slip Road 2 Base Slab and Slip Road 3 Wall	14	19-Jun-15	02-Jul-15		S3C-EW-1010E							111			111							
S3C-TS-2160	Backfilling up to Formation Level of Cooling Mains & Construction of Surface Drainage incl. strut/waling removal	15	06-May-15	20-May-15	-241	S9-1050, S9-1040 S9-1040A																and a second sec	
n 4 of the Works - Sal	It Water Mains, Works in Area 3	8	20-Mar-15	26-Mar-15	598																		
naining Work		- U	to an its	200					1111	111			111			111	11						
	Summary			CE	DD CO	NTRACT NO. H	(/2009/01			T	-					Pac	e: 5 c	of 8				-	
ual Work 🔹 🗖	Summary Bar		Wan Chai De	velopment Ph	ase II -	Central-Wan Cl	ai Bypass at	HKCEC	(Contra	ict 1)													
ical Remaining Work		- 1				ths Rolling Prod																	
stone					UII	The Froming From	annine [Ddl	a Daie 0	11.20-1.61	0-10)													

	Activity Name	OD	Start	Finish	Total	Predecessors	2011 2012 2013 2014 2015
					Float		OLT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 MAIMJJJAISICINID JIFIMAMJJJAISICINID JIFIMAMJJAISICINID JIFIMAMJJAISICINID JIFIMAMJJAISICINID JIFIMAMJJAISICINID
Testing and En	amalienariona	1	Stalidari 18	C-Mar 1.	10		
S4-1520	Connection to Existing Mains (S8B)	7	20-Mar-15	26-Mar-15	-207	S4-1510, TP-1210, TP-1200, PRE-3200D	Tradina
ED (AMAEN) ESH U	Auntmains & Bower	-	Witness 75	- Anno A	-3/19	TF-1200, FRE-32000	
Testing and Co	milaioning	-	20-14-015	20 Mai 10	-01		
\$4-2520	Connection to Existing Mains (S9)	7	20-Mar-15	26-Mar-15	507	S4-2510, PRE-3200E, TP-1110	T Cone
Stormwater Drain	000					Tranto	
	or Re-Provisioned Costing Water Pumping Stations	D.				8	
ection 5 of the Wa	orks - Works in Area 7 & Pipe Pile Wall P2	0			C	):	
	Vorks - Cooling Water Discharge System (3 nos. Govt T	455	20-Jan-14 A	17-Jun-15	-241		
S6A-1100	Over CWB - CHBF (92m)	7	21-May-15	27-May-15		S3C-TS-2160, S9-1050	
S6A-1200	Zone X1-1 - CHBF (11m)	21	19-Apr-15	09-May-15*	-223	3 TTAM-X3-1030A. TTAM-X3-1000A, S4-1000	
S6A-1210	Zone X1-2 - CHBF (5m)	21	19-Apr-15	09-May-15*	-	3 TTAM-A4-1120B	
S6A-1220	Zone X1-3 - CHBF (7m)	21	02-May-15	22-May-15*		5 S6A-1230	
S6A-1230	Zone X1-4A - CHBF (21m) & S3 (21m) Connection Point	24	20-Jan-14 A	01-May-15	-236	5 TTAM-X3-1030A	
S6A-1240	Zone C3-1 - CHBF (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-236	5 TTAM-C3-1000A	
Testing = Comm		21	2+by-15	15-agreete	1 244		
S6A-2010	CCTV & Pressure Test of CHBF	7	28-May-15	03-Jun-15	-241	1 S6A-1100, S6A-1050, S6A-1040, S6A-1200,	
					-	S6A-1020, S6A-1030, S6A-1240, S6A-1210,	
S6A-2020	Cleaning & Sterilization of CHBF	7	04-Jun-15	10-Jun-15	-241	S6A-1010, S6A-1230. 1 S6A-2010	
S6A-2030A	Future Connection to Existing Mains (CHBF) at temporary water channel	7	11-Jun-15	17-Jun-15	-241	1 S6A-2020	
S6A-2030B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	1 S6A-2020, S6A-2010, TP-1310, TP-1350, S6A-2030A, PRE-32000	
Section 6B of the V S6B-1100	Works - Cooling Water Intake & Discharge System (Gre	344	22-Jun-14 A	17-Jun-15 27-May-15	-24	1 S3C-TS-2160, S9-1050	
S6B-1220	Over CWB - CHBG (92m) Zone C3-1 - CHBG (16m) Test and Connection Point	60	21-May-15 22-Jun-14 A	22-May-15		6 TTAM-C3-1000A	
Testing & Count		21	20-001-10	- Down-Am	1.00		
S6B-2000	CCTV & Pressure Test of CHBG	7	28-May-15	03-Jun-15	-24	1 S6B-1020, S6B-1220, S6B-1200A, S6B-1210,	
		1				S6B-1200, S6B-1020A, S6B-1000, S6B-1010,	
					-	S6B-1030, S6B-1050.	
S6B-2010	Cleaning & Sterilization of CHBG	7	04-Jun-15	10-Jun-15		1 S6B-2000	
S6B-2020A	Future Connection to Existing Mains (CHBG) at temporary water channel	7	11-Jun-15	17-Jun-15	-24	1 S6B-2010	
S6B-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-24	1 S6B-2020A, PRE-3200	₽P
Section 6C of the	Works - Cooling Water Discharge System (China Resou	344	22-Jun-14 A	17-Jun-15	-24	and the second sec	
S6C-1100	Over CWB - CHBI (100m)	7	21-May-15	27-May-15	and designed to the lot of the lo	1 S3C-TS-2160, S9-1050	50
S6C-1600	Zone C3-1 - CHBI (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-23	6 TTAM-C3-1000A	
Testing & Comm	itestopling	1.21	Shekar15	(industry)		1	
27 Post / 10 10 10 10					EDD	ONTRACT NO. HK/2	2009/01 Page: 6 of 8
Remaining Work							
Actual Work	Summary Bar		Wan Chai D	Development F	Phase I	I - Central-Wan Chai I	Bypass at HKCEC (Contract 1)
Summary Bar			WORK PRO				

D		1.1.					CHUN WO - LEADER JOINT VE
U	Activity Name	OD	Start	Finish	Tota	Predecessors	2011 2012 2013 / 2014
000 0000					Floa	d	012 013 014 011 012 012 012 013 2013 2014
S6C-2000	Pressure Test of CHBI	7	28-May-15	03-Jun-15	-24	1 S6C-1030, S6C-1600, S6C-1040, S6C-1100, S6C-1020A,	MAMUJAISONO JEMAMJJASOND JEMAMJJASOND JEMAMJJASONO JEMAMJJASOND JEMAMJY
S6C-2010	Observe a province of the second	_		L		S6C-1020A, S6C-1020, S6C-1050, S6C-1300,	
S6C-2020A	Cleaning & Sterilization of CHBI	7	04-Jun-15	10-Jun-15	-241	S6C-2000	
0.000	Future Connection to Existing Mains (CHBI) at temporary water channel	7	11-Jun-15	17-Jun-15	-241	S6C-2010	
S6C-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	PRE-32000, S6C-2010, S6C-2020A, S6C-2020A, S6C-2020A, S6C-2020A, S6C-2020A, S6C-2000,	
Common Works for Section	DOD 54 59 8 50		and a second los		-	TP-1330	
Districtions On fall Common	unio ca, ob a oc	30	22-May-15	21-Jun-15	420		
S6-1030	Connection of the Completed Cooling Mains to	0	and the second s	an aller and	141		
	Precast Outfall Unit	U		22-May-15	-250	S6C-1600, S6A-1240, S6B-1220, S6-1010	
S6-1040	Reinstatement of Existing Seawall after Connection	30	23-May-15	21-Jun-15	420	S6-1030	
Section 7 of the Works	In David Director and	1			1.005		
Section 7 of the Works - Tr ADMS Installation	Tai Dured Piles in Area 5	0			D		
That Bored Minh		0					
Tenting & Commissioning	District of the second second						
Section 8 of the Works - W	orks in Area 6 (Utilities other than Watermains	500	10 10 10 10		0		
Slovtrage Works	to the man watermains	583	10-Jan-14 A	22-May-15	-228		· · · · · · · · · · · · · · · · · · ·
S8-1030	Zone A3-5D & A3-4D	23	10-Jan-14 A	10 May 45			
		40	10-Jan-14 A	19-Mar-15	-228	TTAM-A3-1020	
S8-1040	Zone A3-2C	23	19-Mar-15	26-Apr-15	-228	TTAM-A3-1040	
S8-1050	Zone A3-2D	23	26-Apr-15	15-May-15		TTAM-A3-1060	
S8-2500	CCTV Survey	1	15-May-15	16-May-15		S8-1000, S8-1050	
S8-3000	Connection with Upstream Existing Manhole & Abandon Used Pipe	7	16-May-15	22-May-15		S8-2500	
Section 9 of the Works - Re		1					
Box Dubert Construction	emandar of the works	214	07-Sep-14A	21-Jul-15	390		
S9-1030	Construction of Precast Bay 1	76	OF Ore dia	EV-May-US	-008		
		10	25-Sep-14 A	03-Mar-15	-208	DW3-1020AA, EDE-1010A	
S9-1040A	Installation of Sheet Pile / ELS and Construction for Bay 7	180	07-Sep-14 A	20-Apr-15	-226	S3C-FW-1040B	
S9-1040B	Installation of Sheet Pile / ELS and Construction for Bay 2	180	11-Oct-14A	20-Apr-15	-226	S9-1040A, S3C-FW-1050E, S9-1030	
S9-1050	Construction of Bay 3 to Bay 6 incl. top slab	75	20-Jan-15 A	05-May-15	-241	\$9-1020, \$3C-TS-1100.	
50 1020	waterprooling works	1.00				S9-1010	
S9-1060	Permanent Diversion of Storm Water to New Provided Box Culvert	5	06-May-15	10-May-15	107	S9-1050	
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)	15	13-May-15	27-May-15		S9-1050, S6C-1100, S6B-1100, S6A-1100, S9-1060	
S9-2000		0.2	1000r-16	Double.	20		
	Backfill up to Formation Level for Reprovision of Expo Drive East	10	28-May-15	06-Jun-15	-35	S6C-1100, S6B-1100, S6A-1100	
S9-2000A	Permanent UU Connection/Change Over	60	21-May-15	20-Jul-15		S3C-TS-2160	
S9-2010	Construction of New Road and Surface Drainage	45	07-Jun-15	21-Jul-15		S9-2000	
Waterworks in Arte F Sett Water Mains (11 55	44 368	41-11	25-44	The second second	-162		
S9-5500A	Zone X1-1 - S3 (5m)	0	and the second s	09-May-15	-201	S6A-1200	
Remaining Work	Summaria	T			10.0		······································
Actual Work	Summary			CE	UD CO	NTRACT NO. HK/2009	9/01 Page: 7 of 8
and the strength of the streng	Summary Bar		Wan Chai De	velooment Ph	II ose	Control-Man Ohai D	
Summary Bar			onal De	elopment Ph	ase 11 -	Central-Wan Chai Byp	bass at HKCEC (Contract 1)
Critical Remaining Work			WORK PROC	BAMME Paul	6E 2-	the Polling Program	e (Data Date on:20-Feb-15)
Milestone		1		A PRIMITE DEV	. UE 31	mis nothing Programm	e (Data Date on:20-F6D-15)

S9-5500B S9-5500C	Activity Name	OD	Start	Finish	Float	Predecessors	MAM	O11	Qtr 4	Qu	1   Qtr	2012 2 QI	D E1		JUL 1		I II A	ISIA	NID	JIER	MAL	ALL I	TIATE	CINIC	Otr 1	Cir 2
	Zone X1-2 - S3 (5m)	0		09-May-15	442	S6A-1210	MIN A	AU	SIGNIL	1914	MAN	50	100	1013	1 1 1	A IM	1 1	1919	1	11	11	1010	110	-	1	1.4.4
	Zone X1-3 - S3 (5m)	D		22-May-15		S6A-1220	111	111	111	11			111	11	111	111	11	111		11	11	11	111			
S9-5510	Over CWB - S3 (92m)	0		27-May-15	79	S6A-1100	1111	111	111	11	11		111	11	111		11				11	11	111			
S9-5530	Pressure Test of S3	7	28-May-15	03-Jun-15		S9-5500A, S9-5500D, S9-5500C, S9-5500B, S9-5510, S9-5520																				1
S9-5540	Cleaning & Sterilization of S3	7	04-Jun-15	10-Jun-15	424	S9-5530		111	111	11		11	111	11.			11.				11		11.			TH TH
S9-5550	Connection to Existing Mains (S3)	7	11-Jun-15	17-Jun-15	424	PRE-3200C, S9-5540		TTT	111	11			111	11	111		11	11		11	11	11	11			
\$9-5600	Over CWB - S5A (30m)	20	27-May-15	12-Jun-15	79	S9-5510 ·		111	111	11			111		111	111	11				11	11	11			ITE
S9-5610	Pressure Test of S5A	7	13-Jun-15	19-Jun-15	65	S9-5600		111	111	11			111	11	111		11	11	11	111	11	11	11			
S9-5700	Over CW8 - S5B (30m)	20	27-May-15	12-Jun-15	79	S9-5600	111	111	111	11	111	111	111	11	111	111	11	11			11	11	11			
S9-5710	Pressure Test of S5B	7	13-Jun-15	19-Jun-15	65	S9-5700	1.1.1	111	did.d.	14	L. S.L.	1.1.1	1.1.1		1.1.1	1.1.1		L				4.4.	4.1.		1.1.1.	tit.
Four Water Many (Ed)			00-May to	- 12-Lan-12	011			111	111	11			111	11	11	111	11	11		111	11	11	11	111	111	1
S9-7000	Over CWB - F3 (100m)	0		27-May-15	503	S6A-1100		111	111	11			111	11	11	111	11	1.1.		111	11	11	11	111		12
S9-7010	Pressure Test of F3	7	28-May-15	03-Jun-15	424	\$9-7000, \$9-7040, \$9-7050, \$9-7070, \$9-7050																				
S9-7020	Cleaning & Sterilization of F3	7	04-Jun-15	10-Jun-15	424	\$9-7010		113	111	11	111	111	111	11	11	111	11	11		111	11	11	11	111		12
S9-7030	Connection to Existing Mains (F3) at Zone C1-3	7	11-Jun-15	17-Jun-15		\$ \$9-7020, PRE-3200C									11											TU
S9-7040	Zone X1-1 - F3 (5m)	0		09-May-15		2 S6A-1200	111	111	111	11	111	111	111	11	11		11	11				11	11	111		1
S9-7050	Zone X1-2 - F3 (5m)	0		09-May-15		2 S6A-1210	111	11	111	11			111	11	11		11	11		11		11	11	111		11.
S9-7060	Zone X1-3 - F3 (5m)	0		22-May-15		S6A-1220		111		11			111	11	11		11	11	11			11	::	111		115
S9-7070	Zone C1-5, C1-7 & C1-9 - Expo Drive East - S3 (20m)	0		27-May-15	1	3 S6A-1100									11		11	11								4
ection 11 of the Works - S	CL Protection Works	0			(	)	1.1.1	1.1.1		11	1.1.1.	1.1.1			14.	1.5.1	4.4.	1.1.	į.į.,			4.4.		1.4.4	44	44.4
Foundation Works Encountion Works Structural Works		9.6																								
Section 12 of the Works - W	/orks in Area 10 (other than Section 4)	40	24-Nov-14A	31-Mar-15	-32	2	111	111	111	11	111	111	111		11	111	11	11	11	11					:	Seq
VO106-1000A	Backfilling for Kiu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-33	2 VO106-1000									H		11		11							Ba
Section 13 of the Works - W	Vorks in Area 11 (other than Section 11)	40	24-Nov-14A	31-Mar-15	-33					11	111	111	11			111	11	11	11	111		11		×		Compl
S13-3000	Completion of Backfilling to +5.0mPD	0		20-Feb-15		B VO106-2000	111	11		11	111	113	11		11	111	11	11	11			11	11	111		Compl
VO106-2000A	Backlilling for Kiu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-33	2 VO106-2000									1			11								Ba
Section 1 A of the Works - L	andscape Softworks in Areas 2 & 4	D			1	D				11	111		11		11	111	11	11	11	111	110		11	111	11	111
Section 1B of the Works - E	Establishment Works in Areas 2 & 4	0			9	D	1443			11	111	11	11	111	11	111	11	11	11	111	11	11	11	111	11	11.
	andscape Softworks in Area 9	180	20-Feb-15	18-Aug-15	-		11		TTT	11	TTT	11	11		11	11	11	11	TI	111				111	Y	1 1
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	20-Feb-15	18-Aug-15	and the second s	3 PRE-2130, PS-P4, EDE-1050																				11
Section 9B of the Works - E	Establishment Works in Area 9	0			)	0					111	11	11	111	11	11		11	11	111	11		11	111	11	
	Protection and Preservation of Existing Trees	O					1.2.2.				1.1.1	: :	11	111	11	11		11	11	111	11			111	11	11

ty ID	Activity Name	temainin Duration		Finish	August	2015
MPP Aug	2015 to Nov 2015				09 16	23 30 06
	2015 to Nov 2015					
	NSTRUCTION WORKS					
	Statement / Shop Drawings MS Landscape Deck Structure - Submission	28	20-Aug-15	16-Sep-15		
	MS Landscape Deck Structure - Submission MS Landscape Deck Structure - ER Review & Comment	28	17-Sep-15	14-Oct-15		
	MS Landscape Deck Structure - Erk Neview & Comment MS Landscape Deck Structure - Resubmission	28	15-Oct-15	14-00-15 11-Nov-15		
	MS Noise Semi Enclosure - Submission	54	20-Jul-15 A	12-Oct-15		
	MS Noise Semi Enclosure - ER Review / Comment	28	13-Oct-15	09-Nov-15		
	MS Approach Ramp - ER Approval	14	01-Feb-15 A	02-Sep-15		MS Approach Ramp - ER Appro
	MS EVB Basement & Mezzanine Construction - No Adverse Comment	0	20-Jul-15 A	02-Aug-15 A	sement & Mezzanine Construction - No Adverse Com	ment
0230-2330	MS for Connection of EVB and EVA - Submission	10	10-Mar-15 A	29-Aug-15		MS for Connection of EVB and EVA - Submissio
0230-2340	MS for Connection of EVB and EVA - ER Review & Comment	12	30-Aug-15	10-Sep-15		N
0230-2350	MS for Connection of EVB and EVA - Resubmission	6	11-Sep-15	16-Sep-15		I
0230-2360	MS for Connection of EVB and EVA - ER No Adverse Comment	10	17-Sep-15	26-Sep-15*		
0230-2370	MS for Contruction of New IEC Westbound Bridge - Submission	0	20-Jul-15 A	29-Jul-15 A	IEC Westbound Bridge - Submission	
0230-2380	MS for Contruction of New IEC Westbound Bridge - ER Review & Comment	0	30-Jul-15 A	10-Aug-15 A	MS for Contruction of New IEC W	estbound Bridge - ER Review & Comment
230-2390	MS for Contruction of New IEC Westbound Bridge - Resubmission	0	11-Aug-15 A	19-Aug-15 A	M	S for Contruction of New IEC Westbound Bridge - Resubmission
0230-2400	MS for Contruction of New IEC Westbound Bridge - ER No Adverse Comment	0	20-Jul-15 A	29-Jul-15 A	IEC Westbound Bridge - ER No Adverse Comment	
2.4 - Contract	or's Design and Build Items					
0240-1180	HGHK Permanent Carpark Design - ER/HGHK Review and Comment	50	20-Aug-15	08-Oct-15		
0240-1190	HGHK Permanent Carpark Design - Resubmission	50	09-Oct-15	27-Nov-15		
0240-1270	Landscaping Design - Submission	90	20-Aug-15*	17-Nov-15		
0240-1630	Green Roof & Wall Minimum 2 years Establishment	501	18-Apr-15 A	19-Apr-17		
	egment/Beam Off-site Precasting	_				
	Precast Beam Bridge C1 2122-E	0	23-Jun-15 A	31-Jul-15 A	С1 2122-Е	
	Precast Beam Bridge C1 2122-F	0	11-Jul-15 A	07-Aug-15 A	Precast Beam Bridge C1 2122-F	
	Precast Beam Bridge E E3E2-A	0	10-May-15 A	15-Aug-15 A	Precast Beam Br	dge E E3E2-A • 14
	Precast Beam Bridge F5 - 14	0	01-Jun-15 A	13-Aug-15 A	Precast Beam Bridge F5	• 14
	Precast Beam Bridge F5 - 15	0	08-Jun-15 A	31-Jul-15 A	F5 - 15	
	Precast Beam Bridge F5 - 03	0	23-Jun-15 A	27-Jul-15 A		
	Precast Beam Bridge F5 - 04	0	30-Jun-15 A	27-Jul-15 A		- 05
	Precast Beam Bridge F5 - 05	0	10-Jul-15 A	13-Aug-15 A	Precast Beam Bridge F5 - 06	• 05
	Precast Beam Bridge F5 - 06	0	15-Jul-15 A	07-Aug-15 A	Precast Beam Bridge F5 - 06	F5 - 07
	Precast Beam Bridge F5 - 07	0	22-Jul-15 A	14-Aug-15 A	Precast Beam Bridge Precast Beam	F5 - 07
	Precast Beam Bridge F5 - 08	0	28-Jul-15 A	16-Aug-15 A		
	Precast Beam Bridge F5 - 09	0	04-Aug-15 A	14-Aug-15 A	Precast Beam Bridge	
	Precast Beam Bridge F5 - 10	0	08-Aug-15 A	16-Aug-15 A		h Bridge F5 - 10
	Completion of Beam Off-Site Pre casting	0		16-Aug-15 A	Completion o	Beam Off-Site Pre casting
	Bridge F1C Pier 36 T-span Segment Off-site Casting (13 nos.)	17	10-Jun-15 A	08-Sep-15		
	Bridge F1C Pier 37 T-span Segment Off-site Casting (11 nos.)	3	16-Jul-15 A	22-Aug-15		Bridge F1C Pier 37 T-span Segment Off-site Casting (11 nos.)
	Bridge F1C Abut D12 End-span Segment Off-site Casting (7 nos.)	0	21-Jul-15 A	12-Aug-15 A	Bridge F1C Abut D12 End-s	an Segment Off-site Casting (7 nos.)
	Bridge F1C Pier 38 End-span Segment Off-site Casting (6 nos.)	6	18-Jun-15 A	26-Aug-15		Bridge F1C Pier 38 End-span Segment Off-site Casting (6 r
	Bridge F3C Pier 41 T-span Segment Off-site Casting (13 nos.)	29	10-Apr-15 A	22-Sep-15		
	Bridge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)	15	18-Apr-15 A	05-Sep-15		Bridge F3C Pier 42
	Bridge F3C Pier 40 End-span Segment Off-site Casting (5 nos.)	16	10-Apr-15 A	07-Sep-15		Bridge F3C F
	Bridge F3C Pier 43 End-span Segment Off-site Casting (6 nos.)	19	22-May-15 A	10-Sep-15		
	Bridge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	05-Sep-15	29-Sep-15		
	Bridge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	11-Sep-15	30-Oct-15		I
	Bridge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	07-Oct-15	30-Oct-15		
	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	06-Nov-15	25-Nov-15		
	ion & Delivery of Noise Enclosure Int. Noise Enclosure Main + Sub Frames Fab / Del	105	01- lup 15 A	23-Dec-15		
	Int. Noise Enclosure Main + Sub Frames Fab / Del Int. Noise Enclosure Noise Panel Fab / Del		01-Jun-15 A			
		122	19-Jan-15 A	14-Jan-16		
	N 2 & 2A OF THE WORKS					
05.1 - Cut & Co	over Tunnel Ch 4855-4932 (APS Footprint)					
Remair	ning Level of Effort 🛛 🔶 🔶 Milestone				Contract UV/2000/	10
Actual I	Level of Effort				Contract HY/2009/	
Actual			Three I	<b>Months</b>	<b>Rolling Programme (20</b>	Aug to 19 Nov 2015 )
	ning Work				J - J (	<b>~</b> /
I Romain						

O and a sub-an		
September 13	20	October 27
MOLasta	one Deals Structure Other	incipa
	ape Deck Structure - Subm	nission
nnection of EVB and EV	A - ER Review & Commen	t
MS for Cor	nnection of EVB and EVA -	Resubmission
		MS for Connection of E
T-span Segment Off-s	ite Casting (13 nos.)	
	Bridge F3C Pie	er 41 T-span Segment O
gment Off-site Casting (		
d-span Segment Off-sit		
	ment Off-site Casting (6 no	
Pier 43 End-span Seg		
		Bridge F1B
Pa	ge 1 of 7	

ty ID	Activity Name	lemainin Duration		Finish	August	2015
					09 16	23 30 06
05.1.1 - D-Wall 0511-1600	D-Wall Interface Coring	0	16-May-15 A	25-Jul-15 A		
0511-1620	D-Wall Grouting/Pressure Grouting	0	26-Jul-15 A	31-Jul-15 A	sure Grouting	
	Tunnel Structure	0	20-30-13 A	31-30-13 A		
0513-3060	APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12	11	07-Jul-15 A	01-Sep-15		APS Basement (Bay 21-South) - Staircase La
0513-3080	Tunnel Level - South Side Additional Beam at Bay 21	5	20-Aug-15	25-Aug-15		Tunnel Level - South Side Additional Beam at Bay 21
0513-3100	Reinstate Temporary Opening of Base Slab > Bay 18	9	22-Aug-15	01-Sep-15		Reinstate Temporary Opening of Base Slab >
0513-3105	Reinstate Temporary Opening of OHVD & Roof Slab > Bay 18	6	22-Aug-15	28-Aug-15*		Reinstate Temporary Opening of OHVD & Roof Slab > Bay 1
0513-3140	APS Basement (Bay 21-South) - Partition wall	0	07-Apr-15 A	31-Jul-15 A	21-South) - Partition wall	
05.1.4 - Tunne						
0514-2040	Weak Seam Rectification works for sub-standard D-Wall	0	10-Mar-15 A	31-Jul-15 A	ion works for sub-standard D-Wall	
05.1.5 - EVB S	ub-structure & Tunnel					
0515-1060	Tunnel Roadside/Profile Barrier and Cable Trough Portion VIIIB & IXB	0	16-Jun-15 A	31-Jul-15 A	ile Barrier and Cable Trough Portion VIIIB & IXB	
0515-1061	Roadside Barrier - Service Trough/Steel Angle/Precast Concrete Cover	0	20-Jul-15 A	31-Jul-15 A	rvice Trough/Steel Angle/Precast Concrete Cover	
0515-1120	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A: GL1-2/A-E, 2-3/B-E, 3-6/C	4	13-Jul-15 A	24-Aug-15		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E, 2-3/B-
0515-1140	EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit	7	03-Aug-15 A	27-Aug-15		EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.4
0515-1160	EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit	2	28-Aug-15	29-Aug-15		EVB Basement - Col/Partition Wall (Conc) > Zone 1A to N
0515-1180	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A	10	17-Aug-15 A	10-Sep-15		EVB Baser
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A	6	16-Sep-15 A	17-Sep-15		
0515-1220	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A	2	18-Sep-15	19-Sep-15		
0515-1240	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A: GL1-6/A-D (incl ST-04)	14	18-Sep-15	06-Oct-15		
0515-1260	EVB Basement - Col/Partition Wall (Fwk) > Zone 2A to Roof Soffit	14	03-Oct-15	19-Oct-15		
0515-1280	EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof Soffit	2	20-Oct-15	22-Oct-15		
0515-1300	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A	6	23-Oct-15	29-Oct-15		
0515-1320	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A	3	30-Oct-15	02-Nov-15		
0515-1340	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A	1	03-Nov-15	03-Nov-15		
0515-1360	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A : GL1-6/E-H	6	12-Aug-15 A	13-Oct-15		
0515-1380	EVB Basement - Col/Partition Wall (Fwk) > Zone 3A to Roof Soffit	8	17-Aug-15 A	29-Oct-15		
0515-1400	EVB Basement - Col/Partition Wall (Conc) > Zone 3A to Roof Soffit	2	28-Oct-15	29-Oct-15		
0515-1420	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 4A : GL1-6/H-K	6	06-Aug-15 A	01-Sep-15		EVB Basement - Col/Partition Wall (Reb. Fix)
0515-1440	EVB Basement - Col/Partition Wall (Fwk) > Zone 4A to Roof Soffit	9	12-Aug-15 A	08-Sep-15		EVB Basement - C
0515-1460	EVB Basement - Col/Partition Wall (Conc) > Zone 4A to Roof Soffit	2	09-Sep-15	10-Sep-15		EVB Baser
0515-1400	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL1-6/K-O (ind ST-03)	3	03-3ep-13	22-Aug-15		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL1-6/K-O (incl ST-03)
0515-1500	EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Roof Soffit	5	11-Jul-15 A	25-Aug-15		EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Roof Soffit
0515-1500	EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit	1	30-Jul-15 A	26-Aug-15		■ EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Sofit
0515-1520	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 5B : GL1-6/K-O	21	08-Sep-15	03-Oct-15		
0515-1560	EVB Basement - Roof Slab (Reb Fix) > Zone 5B : GL1-6/K-O	14	02-Oct-15	17-Oct-15		
0515-1580	EVB Basement - Roof Slab (Conc) > Zone 5B : GL1-6/K-O	2	19-Oct-15	20-Oct-15		
0515-1600	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 4B : GL1-6/H-K	21	05-Oct-15	29-Oct-15		
0515-1620	EVB Basement - Roof Slab (Reb Fix) > Zone 4B : GL1-6/H-K	14	28-Oct-15	12-Nov-15		
0515-1640	EVB Basement - Roof Slab (Conc) > Zone 4B : GL1-6/H-K	2	13-Nov-15	14-Nov-15		
0515-1660	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 3B : GL1-6/E-H	21	30-Oct-15	23-Nov-15		
	over Tunnel Ch 4932-5149 & Miscellaneous Works					
0525-1240	Remedial Works - Bay 9 OHVD - WestBound	0	26-Jul-15 A	31-Jul-15 A	y 9 OHVD - WestBound	
0525-1260	Remedial Works - Concrete Repair Works / Trim overbreak Concrete Etc, Honeycoms	0	09-Mar-15 A	31-Jul-15 A	hcrete Repair Works / Trim overbreak Concrete Etc. H	bnevcoms/laitance. etc.
0525-1280	Remedial Works - Sealing off Water Leakage at D-Wall	0	01-Jun-15 A	31-Jul-15 A	aling off Water Leakage at D-Wall	
	ON 3 OF THE WORKS					
	und - Pier 29-34					
0610-1380	Construct W/B Bridge Pier 29 > Pile Cap	0	11-Jul-15 A	17-Aug-15 A	Construc	W/B Bridge Pier 29 > Pile Cap
0610-1380	Construct W/B Bridge Pier 29 > Column	5	18-Aug-15 A	25-Aug-15		Construct W/B Bridge Pier 29 > Column
0610-1400	Construct W/B Bridge Pier 29 > Rebar Fixing - Crosshead	-	-	05-Sep-15		Construct W/B Bridge Pier 23 > Construct W/B Bridge Pier 29
0610-1420	Construct W/B Bridge Pier 29 > Rebar Pixing - Crossnead	10	26-Aug-15			
		4	07-Sep-15	10-Sep-15		Construct
0610-1460 0610-1480	Construct W/B Bridge Pier 29 > Bearring	4	11-Sep-15	15-Sep-15	Her Dist 20 Bills Corr	
	Construct W/B Bridge Pier 30 > Pile Cap	0	06-Jul-15 A	01-Aug-15 A	dge Pier 30 > Pile Cap	

<ul> <li>Remaining Level of Effort  <ul> <li>Milestone</li> </ul> </li> <li>Actual Level of Effort</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> </ul>	Contract HY/2009/19 Three Months Rolling Programme ( 20 Aug to 19 Nov 2015 )	
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September		October
13	20	27
nding 8 > Staircase L	anding 12	
Bay 18		
3		
E, 3-6/C-F, 4-6/F-J		
0) Soffit ezz (-1.40) Soffit		
nent - Mezz Slab & B	eam (Lv -1.4) - (Falsework/F Basement - Mezz Slab & Bea EVB Basement - Mezz Sla	wk) > Zone 1A
EVB	Basement - Mezz Slab & Bea	am (Lv -1.4) - (Reb. Fix)
	EVB Basement - Mezz Sla	ab & Beam (Lv -1.4) - (Co
> Zone 4A : GL1-6/H	-K k) > Zone 4A to Roof Soffit	
	k) > Zone 4A to Roof Soffit /all (Conc) > Zone 4A to Roof	Soffit
> Rebar Fixing - Cro		
V/B Bridge Pier 29 >	Formworks + Concreting - C //B Bridge Pier 29 > Bearring	rosshead

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ivity ID	Activity Name	lemainin Duratior		Finish	August	2015 S
0010 1500	Construct W/D Deiden Dies 20 - Column	0	02 445 45 4	10 Aug 15 A	09 16	
0610-1500	Construct W/B Bridge Pier 30 > Column	0	02-Aug-15 A	10-Aug-15 A	Construct W/B Bridge Pier 30 > C	
0610-1520	Construct W/B Bridge Pier 30 > Rebar Fixing - Crosshead	9	19-Aug-15 A	29-Aug-15		Construct W/B Bridge Pier 30 > Rebar Fixing - Crosshead
0610-1540	Construct W/B Bridge Pier 30 > Formworks + Concreting - Crosshead	4	31-Aug-15	03-Sep-15		Construct W/B Bridge Pier 30 > Formwor
0610-1560	Construct W/B Bridge Pier 30 > Bearring	6	04-Sep-15	10-Sep-15		Construct W/E
0610-1580	Construct W/B Bridge Pier 31 > Pile Cap	0	08-Jul-15 A	08-Aug-15 A	Construct W/B Bridge Pier 31 > Pile Cap	
0610-1600	Construct W/B Bridge Pier 31 > Column	0	09-Aug-15 A	18-Aug-15 A	Cons	ruct W/B Bridge Pier 31 > Column
0610-1620	Construct W/B Bridge Pier 31 > Rebar Fixing - Crosshead	9	19-Aug-15 A	29-Aug-15		Construct W/B Bridge Pier 31 > Rebar Fixing - Crosshead
0610-1640	Construct W/B Bridge Pier 31 > Formworks + Concreting - Crosshead	4	31-Aug-15	03-Sep-15		Construct W/B Bridge Pier 31 > Formwor
0610-1660	Construct W/B Bridge Pier 31 > Bearring	5	04-Sep-15	09-Sep-15		Construct W/B Bri
0610-1680	Construct W/B Bridge Pier 32 > Pile Cap	0	14-Jul-15 A	01-Aug-15 A	dge Pier 32 > Pile Cap	
0610-1700	Construct W/B Bridge Pier 32 > Column	0	02-Aug-15 A	14-Aug-15 A	Construct W/B Bridge	Pier 32 > Column
0610-1720	Construct W/B Bridge Pier 32 > Rebar Fixing - Crosshead	10	19-Aug-15 A	31-Aug-15		Construct W/B Bridge Pier 32 > Rebar Fixing - Cross
0610-1740	Construct W/B Bridge Pier 32 > Formworks + Concreting - Crosshead	4	01-Sep-15	04-Sep-15		Construct W/B Bridge Pier 32 > Form
0610-1760	Construct W/B Bridge Pier 32 > Bearring	5	05-Sep-15	10-Sep-15		Construct W/E
0610-1780	Construct W/B Bridge Pier 33 > Pile Cap	0	28-Jul-15 A	10-Aug-15 A	Construct W/B Bridge Pier 33 > Pile	Сар
0610-1800	Construct W/B Bridge Pier 33 > Column	0	11-Aug-15 A	14-Aug-15 A	Construct W/B Bridge	Pier 33 > Column
0610-1820	Construct W/B Bridge Pier 33 > Rebar Fixing - Crosshead	10	20-Aug-15	31-Aug-15		Construct W/B Bridge Pier 33 > Rebar Fixing - Cross
0610-1840	Construct W/B Bridge Pier 33 > Formworks + Concreting - Crosshead	4	01-Sep-15	04-Sep-15		Construct W/B Bridge Pier 33 > Form
0610-1860	Construct W/B Bridge Pier 33 > Bearring	5	05-Sep-15	10-Sep-15		Construct W/E
0610-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding	8	12-Nov-15	20-Nov-15		
0610-1920	Construct W/B Bridge Pier 34 Drilling of Starter Bars for Pier/Column	14	12-Nov-15	27-Nov-15		
06.3 - Admin				2		
0630-1100	Grd. Beam - (GL > K-N) - Removal of Existing Sheet Piles	6	20-Aug-15	26-Aug-15		Grd. Beam - (GL > K-N) - Removal of Existing Sheet Piles
0630-1101	Grd. Beam - (GL > K-N) - Excavate to formation level + Blinding Layer Casting	5	22-Aug-15	27-Aug-15		Grd. Beam - (GL > K-N) - Excavate to formation level + Blinding Laye
0630-1120	Grd. Beam - (GL > K-N) - Install Capping Plate	4	28-Aug-15	01-Sep-15		Grd. Beam - (GL > K-N) - Install Capping Plate
0630-1140	Grd. Beam - (GL > K-N) - Rebar Fixing for Ground Beam	7	31-Aug-15	07-Sep-15		Grd. Beam - (GL > K-N) -
0630-1140	Grd. Beam - (GL > K-N) - Erect Formworks for Ground Beam	4	05-Sep-15	09-Sep-15		Grd. Beam - (GL:
				· ·		
0630-1180	Grd. Beam - (GL > K-N) - Cast Concrete for Ground Beam		10-Sep-15	10-Sep-15		Grd. Beam - (
0630-1200	Grd. Beam - (GL > K-N) - Formworks Removal	1	11-Sep-15	11-Sep-15		Grd. Bean
0630-1600	Grd. Beam - (GL > D-G) - Removal of Existing Sheet Piles	1	10-Aug-15 A	20-Aug-15		Grd. Beam - (GL > D-G) - Removal of Existing Sheet Piles
0630-1620	Grd. Beam - (GL > D-G) - Excavate to formation level + Blinding Layer Casting	5	21-Aug-15	26-Aug-15		Grd. Beam - (GL > D-G) - Excavate to formation level + Blinding Layer C
0630-1640	Grd. Beam - (GL > D-G) - Install Capping Plate	4	26-Aug-15	29-Aug-15		Grd. Beam - (GL > D-G) - Install Capping Plate
0630-1660	Grd. Beam - (GL > D-G) - Rebar Fixing for Ground Beam	7	28-Aug-15	04-Sep-15		Grd. Beam - (GL > D-G) - Rebar Fixi
0630-1700	Grd. Beam - (GL > D-G) - Erect Formworks for Ground Beam	4	05-Sep-15	09-Sep-15		Grd. Beam - (GL :
0630-1720	Grd. Beam - (GL > D-G) - Cast Concrete for Ground Beam	1	10-Sep-15	10-Sep-15		🔲 Grd. Beam - (
0630-1740	Grd. Beam - (GL > D-G) - Formworks Removal	1	11-Sep-15	11-Sep-15		Grd. Bear
0630-2020	Grd. Beam - (GL > B-D) - Removal of Existing Sheet Piles	1	18-Aug-15 A	20-Aug-15		Grd. Beam - (GL > B-D) - Removal of Existing Sheet Piles
0630-2021	Grd. Beam - (GL > B-D) - Excavate to formation level + Blinding Layer Casting	6	20-Aug-15	26-Aug-15		Grd. Beam - (GL > B-D) - Excavate to formation level + Blinding Layer Ca
0630-2040	Grd. Beam - (GL > B-D) - Install Capping Plate	4	27-Aug-15	31-Aug-15		Grd. Beam - (GL > B-D) - Install Capping Plate
0630-2080	Grd. Beam - (GL > B-D) - Rebar Fixing for Ground Beam	7	02-Sep-15	09-Sep-15		Grd. Beam - (GL :
0630-2100	Grd. Beam - (GL > B-D) - Erect Formworks for Ground Beam	4	09-Sep-15	12-Sep-15		Grd. B
0630-2120	Grd. Beam - (GL > B-D) - Cast Concrete for Ground Beam	1	14-Sep-15	14-Sep-15		0
0630-2140	Grd. Beam - (GL > B-D) - Formworks Removal	1	15-Sep-15	15-Sep-15		
A1000	Construction of pile cap for PC21	15	22-Oct-15	07-Nov-15		
A1010	Construction of pile cap for PC22	15	30-Oct-15	16-Nov-15		
A1020	Install underground drainage at Portion VB	12	27-Aug-15	09-Sep-15		Install underground
	DN 5 WORK		-			¥
	ng Wall 'F' Substructure					
0810-1640	Retaining Wall F > Pile Testing & prep for Caps Const	5	02-Oct-15*	07-Oct-15		
0810-1650	Retaining Wall F > Temp Excav Support/Open cut Excav works	21	08-Oct-15*	02-Nov-15		
0810-1660	Retaining Wall F > Excavation Works for Pile caps	25	19-Oct-15	17-Nov-15		
0810-1670	Construction of pile cap for Retaining Wall F @ C4-13	15	22-Oct-15	07-Nov-15		
0810-1680	Construction of pile cap for Retaining Wall F @ C4-14/C15-11	15	31-Oct-15	17-Nov-15		
0810-1700	Construction of pile cap for Retaining Wall F @ C5-12	15	10-Nov-15	26-Nov-15		
0010 1700	contraction of pilo dup for reduning while 1 @ 00 12	10		20110110	1	

Remaining Level of Effort       ♦ ♦ Milestone         Actual Level of Effort       Actual Work	Contract HY/2009/19 Three Months Rolling Programme(20 Aug to 19 Nov 2015)	
Remaining Work     Critical Remaining Work		

September		October
13	20	27
ad		
mworks + Concreting - Ci	osshead	
t W/B Bridge Pier 30 > B		
ad		
mworks + Concreting - Ci		
B Bridge Pier 31 > Bearr	ing	
Crosshead		
Formworks + Concreting	- Crosshead	
t W/B Bridge Pier 32 > B		
·····	·····	
Procebood		
Crosshead		
Formworks + Concreting		
t W/B Bridge Pier 33 > B	earring	
Layer Casting		
late		
(-N) - Rebar Fixing for G	round Ream	
(GL > K-N) - Erect Form	works for Ground Poom	
	oncrete for Ground Beam	
Beam - (GL > K-N) - Cast CoBeam - (GL > K-N) - For	oncrete for Ground Beam	
Beam - (GL > K-N) - For	mworks Removal	
yer Casting		
r Fixing for Ground Bear	n	
(GL > D-G) - Frect Form	works for Ground Beam	
m - (GL > D-G) - Cast C	oncrete for Ground Beam	
Beam - (GL > D-G) - Fo		
/er Casting		
(GL > B-D) - Rebar Fixi		
ird Beam - (GL > B-D)	<ul> <li>Frect Formworks for Group</li> </ul>	und Beam
Grd. Beam - (GL :	> B-D) - Cast Concrete for	Ground Beam
🔲 Grd. Beam - (0	GL > B-D) - Formworks Re	emoval
round drainage at Portio	n VB	
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ity ID	Activity Name	lemainin Duration		Finish	August		
	N 6 OF THE WORKS				09 16	23	30 06
	und - Pier 26-27						
0920-1080	Pier 27 Prepare C.J. and Modify Tie Beam	18	20-Aug-15	09-Sep-15			Pier 27 Prepar
0920-1100	Pier 27 Construct Pier/Column	18	10-Sep-15	02-Oct-15			· · · · · · · · · · · · · · · ·
0920-1120	Pier 27 Construct Crosshead	24	03-Oct-15	31-Oct-15			
0920-1140	Pier 27 Install Bearing	9	02-Nov-15	11-Nov-15			
0920-1140	Pier 26 Prepare C.J. + Drill in Re-bar + Modify Pilecap	18	20-Aug-15	09-Sep-15			Pier 26 Prepar
0920-1180	Pier 26 Construct Pier/Column	18	10-Sep-15	03-Sep-15 02-Oct-15			
0920-1180	Pier 26 Construct Crosshead	24	03-Oct-15	31-Oct-15			
0920-1220	Pier 26 Install Bearing	9	02-Nov-15	11-Nov-15			
	N X OF THE WORKS						
	Deck Demolition						
10.4.1 - Existin 10410-1320	ng W/B Bridge (Part 1) Excavate + Demolish W/B Bridge Pier 33 > Pile Cap	0	14-Jul-15 A	27-Jul-15 A	33 > Pile Cap		
10410-1440	Demolish W/B Bridge Pier 27 > Column > by Crane C	0	19-Jul-15 A	23-Jul-15 A			
10410-1480	Demolish W/B Bridge Deck Pier 25-26 (7 beams) > by Crane B & C	0	23-Jul-15 A	25-Jul-15 A	ms) > by Crane B & C		
		-					
10410-1500	Demolish W/B Bridge Pier 26 > Column > by Crane C	0	25-Jul-15 A	30-Jul-15 A	26 > Column > by Crane C Bridge Deck Pier 24-25		
10410-1520	Saw Cutting W/B Bridge Deck Pier 24-25	0	30-Jul-15 A				
10410-1540	Demolish W/B Bridge Deck Pier 24-25 (7 beams) > by Crane B & C	0	31-Jul-15 A	03-Aug-15 A	W/B Bridge Deck Pier 24-25 (7 beams) > by Crane B	& C 	
10410-1560	Demolish W/B Bridge Pier 25 > Column > by Crane C	0	03-Aug-15 A	06-Aug-15 A	Demolish W/B Bridge Pier 25 > Column > by Crane	C	
10410-1580	Saw Cutting W/B Bridge Deck Pier 23-24	0	04-Aug-15 A	07-Aug-15 A	Saw Cutting W/B Bridge Deck Pier 23-24		
10410-1600	Demolish W/B Bridge Deck Pier 23-24 (7 beams) > by Crane B & C	0	06-Aug-15 A	10-Aug-15 A	Demolish W/B Bridge Deck Pier 23-2		
10410-1620	Demolish W/B Bridge Pier 24 > Column > by Crane C	0	10-Aug-15 A	15-Aug-15 A		dge Pier 24 > Column > by Crane C	
10410-1640	Saw Cutting W/B Bridge Deck Pier 22-23	0	13-Aug-15 A	16-Aug-15 A	Saw Cutting	V/B Bridge Deck Pier 22-23	
10410-1660	Demolish W/B Bridge Deck Pier 22-23 (7 beams) > by Crane B & C	0	15-Aug-15 A	19-Aug-15 A	D	emolish W/B Bridge Deck Pier 22-23 (7 bear	ns) > by Crane B & C
10410-1680	Demolish W/B Bridge Pier 23 > Column > by Crane C	5	20-Aug-15	25-Aug-15		Demolish W/B Bridg	je Pier 23 > Column > by Crane C
10410-1700	Saw Cutting W/B Bridge Deck Pier 21-22	3	19-Aug-15 A	22-Aug-15		Saw Cutting W/B Bridge Deck F	'ier 21-22
10410-1701	Dem. W/B Bridge Deck Pier 21-22 (1 beam) w/ time constraint start up to 4Pm > by (	1	24-Aug-15	24-Aug-15		Dem. W/B Bridge Deck	Pier 21-22 (1 beam) w/ time constraint start up to 4Pr
0410-1720	Demolish W/B Bridge Deck Pier 21-22 (5 beams) > by Crane B & C	3	25-Aug-15	27-Aug-15		Demolish W	/B Bridge Deck Pier 21-22 (5 beams) > by Crane B &
10410-1740	Demolish W/B Bridge Pier 22 > Column > by Crane C	5	28-Aug-15	02-Sep-15			Demolish W/B Bridge Pier 22 > Column > b
10410-1741	Saw Cutting W/B Bridge Deck Pier 20-21	2	28-Aug-15	29-Aug-15		Saw	Cutting W/B Bridge Deck Pier 20-21
10410-1742	Dem. W/B Bridge Deck Pier 20-21 (1 beam) w/ time constraint start up to 4Pm > by (	2	31-Aug-15	01-Sep-15		]	Dem. W/B Bridge Deck Pier 20-21 (1 beam) w
10410-1743	Demolish W/B Bridge Deck Pier 20-21 (2 beams) > by Crane B & C	1	02-Sep-15	02-Sep-15			Demolish W/B Bridge Deck Pier 20-21 (2 b
10410-1743.1	Cutting of W/B Bridge Crosshead Wing at Pier 21 for Modification	2	03-Sep-15	04-Sep-15			Cutting of W/B Bridge Crosshead V
10410-1744	Demolish W/B Bridge Deck Pier 19-20 (2 beams) > Insatall Scaffolldings to Support B	5	28-Aug-15	02-Sep-15			Demolish W/B Bridge Deck Pier 19-20 (2 b
10410-1745	Saw Cutting W/B Bridge Deck Pier 19-20 @ 2 Beams into 8Pcs(1x4X2)	4	03-Sep-15	07-Sep-15			Saw Cutting W/B Bridge
10410-1746	Dem. W/B Bridge Deck Pier 19-20 (1 beam) w/ time constraint start up to 4Pm > by (	2	05-Sep-15	07-Sep-15			Dem. W/B Bridge Deck
10410-1747	Demolish W/B Bridge Deck Pier 19-20 (1 beam) > by Crane B	1	08-Sep-15	08-Sep-15			Demolish W/B Bridg
10410-1747.1	Cutting of W/B Bridge Crosshead Wing at Pier 20 for Modification	2	09-Sep-15	10-Sep-15			Cutting of V
10410-1747.5	Demolish W/B Bridge Deck Pier 17-18 (2 beams) > Insatall Scaffolldings to Support B	5	02-Sep-15	07-Sep-15			Demolish W/B Bridge D
10410-1748	Saw Cutting W/B Bridge Deck Pier 17-18 @ 2 Beams into 8Pcs(1x4X2)	4	08-Sep-15	11-Sep-15			Saw Cu
10410-1749	Dem. W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	1	11-Sep-15	11-Sep-15			Dem. W
10410-1750	Demolish W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	1	12-Sep-15	12-Sep-15			
10410-1751	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Construct Footing for Shoring of E	5	24-Aug-15	28-Aug-15		Demolist	h W/B Bridge Deck Pier 18-19 (2 beams) > Construct
10410-1752	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Install Shoring + Fixing to hold Be	5	29-Aug-15	03-Sep-15		Demoisi	Demolish W/B Bridge Deck Pier 18-19
			-	-			
10410-1753	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Saw Cutting of Bridge Deck & Par Dem W/P Bridge Deck Disc 18 10 (Holf Beam Eastride) w/ time constraint start at 4	10	04-Sep-15	15-Sep-15			
10410-1754	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) w/ time constraint start at 4	2	14-Sep-15	15-Sep-15			
10410-1755	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) > by Crane D	1	16-Sep-15	16-Sep-15			
10410-1756	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Westside) w/ time constraint start at 4	1	17-Sep-15	17-Sep-15			
10410-1757	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Westside) > by Crane D	1	18-Sep-15	18-Sep-15			
10410-1760	Cutting of W/B Bridge Crosshead Wing at Pier 19 for Modification > by Crane D	2	17-Sep-15	18-Sep-15			
10410-1761	Cutting of W/B Bridge Crosshead Wing at Pier 18 for Modification > by Crane D	2	19-Sep-15	21-Sep-15			
10410-1762	Removal of Shoring	2	19-Sep-15	21-Sep-15			
10410-1763	Removal of Temporary Footing	5	22-Sep-15	26-Sep-15			

Remaining Level of Effort      ♦ ♦ Milestone     Actual Level of Effort	Contract HY/2009/19	
Actual Level of Enort	Three Months Rolling Programme ( 20 Aug to 19 Nov 2015 )	
Remaining Work		
Critical Remaining Work		

September		October
13	20	27
are C.J. and Modify Tie E	3eam	
	14-2% - Dürrer	
are C.J. + Drill in Re-bar	+ Modify Pilecap	
4Pm > by Crane B & C		
& C		
> by Crane C		
w/ time constraint start	up to 4Pm > by Crane B & C	2
2 beams) > by Crane B &	4C	
d Wing at Pier 21 for Mo		
dae Deck Pier 19-20 @ 2	2 Beams into 8Pcs(1x4X2)	
	w/ time constraint start up to	4Pm > by Crane B
ridge Deck Pier 19-20 (1		· · · · · · · · · · · · · · · · · · ·
	Wing at Pier 20 for Modifica	ation
	ms) > Insatall Scaffolldings to	
	Pier 17-18 @ 2 Beams into	
	7-18 (1 beam) > by Crane	В
	k Pier 17-18 (1 beam) > by	
ct Footing for Shoring of	Beams	
	oring + Fixing to hold Beams	5
	Bridge Deck Pier 18-19 (21	
	dge Deck Pier 18-19 (Half B	
	N/B Bridge Deck Pier 18-19	
	W/B Bridge Deck Pier 18-19	
	molish W/B Bridge Deck Pie	
	tting of W/B Bridge Crosshe	
		dge Crosshead Wing at
	Removal of Shorin	
······		Bemoval of Temporary

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ivity ID	Activity Name	lemain Duratio	inį Start	Finish	August					015		September	
					09 16	6	23		30		06	13	
	Demolish Temp. W/B Bridge - Deck > Pier 42 to 43 (6 beams)	0	17-Jul-15 A	28-Jul-15 A	eck > Pier 42 to 43 (6 beams)								
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 43	0	29-Jul-15 A	07-Aug-15 A	Demolish Temp. W/B Bridge - Crosshead & Pie		40 (C h a a ma)						
	Demolish Temp. W/B Bridge - Deck > Pier 41 to 42 (6 beams)	0	08-Aug-15 A	11-Aug-15 A	Demolish Temp. W/B Bridge - I				Dian 40				
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 42	0	12-Aug-15 A	18-Aug-15 A		n <mark>o</mark> lish Temp. W/B							
	Demolish Temp. W/B Bridge - Deck > Pier 40 to 41 (6 beams)	0	18-Aug-15 A	19-Aug-15 A	· · · · · · · · · · · · · · · · · · ·	Demolish Temp. V	//B Bridge - D		· · · · · · · · · · · · · · · · · · ·				
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 41	7	20-Aug-15	27-Aug-15									
	Demolish Temp. W/B Bridge - Deck > Pier 39 to 40 (6 beams)	4	28-Aug-15	01-Sep-15		-						Pier 39 to 40 (6 beams)	
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 40	7	02-Sep-15	09-Sep-15							Demo	lish Temp. W/B Bridge - C	
	Demolish Temp. W/B Bridge - Deck > Pier 38 to 39 (6 beams)	4	10-Sep-15	14-Sep-15								Demolish Ten	пр. w/в вп
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 39	7	15-Sep-15	22-Sep-15									
	Demolish Temp. W/B Bridge - Deck > Pier 37 to 38 (6 beams)	3	23-Sep-15	25-Sep-15									
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 38	7	26-Sep-15	06-Oct-15									
	Demolish Temp. W/B Bridge - Deck > Pier 36 to 37 (6 beams)	3	07-Oct-15	09-Oct-15									
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 37	7	10-Oct-15	17-Oct-15									
	Demolish Temp. W/B Bridge - Deck > Pier 35 to 36 (6 beams)	3	19-Oct-15	22-Oct-15		-							
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 36	7	23-Oct-15	30-Oct-15									
	Demolish Temp. W/B Bridge - Deck > Pier 34 to 35 (6 beams)	3	31-Oct-15	03-Nov-15		-							
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 35 (by crane)	7	04-Nov-15	11-Nov-15									
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 34 (by crane)	7	04-Nov-15	11-Nov-15									
	Pier 22 Erect Falsework at existing W/B Bridge prior to demolition	0	14-Aug-15 A	16-Aug-15 A	Pier 22 Erec	t Falsework at exi	sting W/B Bride	ge prior to de	emolition				
	ges (Bridge D, E and F) Pier Construction												
Pier F01 to F0						-							
	F1B Pier/Column Construction	12	07-Oct-15	20-Oct-15		-							
1011-8620	F1B Crosshead Construction	18	22-Oct-15	11-Nov-15		-							
1011-8640	Bearing installation pier F1B & F2B	12	12-Nov-15	25-Nov-15		-							
10.1.4 - Bridge	E / Hing Fat Slip Road												
Bridge Constr													
	Construction (Pier E4 - Pier E2) > Construct Pile Cap at Pier E3	2	03-Aug-15 A	21-Aug-15			ction (Pier E4 ·						
	Construction (Pier E4 - Pier E2) > Construct Pier E3	9	22-Aug-15	01-Sep-15							E4 - Pier E2) > Co		
	Construction (Pier E4 - Pier E2) > Construct Crosshead + Bearing at Pier E3	21	· ·	25-Sep-15									
	Construction (Pier E4 - Pier E2) > Modification of Crosshead + Bearing at Pier E4 & E	14	U	05-Sep-15						Cons	truction (Pier E4 -	Pier E2) > Modification of (	Crosshead +
	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2	5	26-Sep-15	03-Oct-15									
	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3	5	05-Oct-15	09-Oct-15									
	Construction (Pier E4 - Pier E2) > Erect Scaffoldings + Platform + Pre-cast Planking >	7	10-Oct-15	17-Oct-15									
	Construction (Pier E4 - Pier E2) > Rebar Fixing of Deck + Diaphragm + Concreting >	14		02-Nov-15									
1014-2000	Construction (Pier E4 - Pier E2) > Construct Parapet D1-E2	14	15-Oct-15	02-Nov-15									
1014-2020	Construction (Pier E4 - Pier E2) > Construct Parapet E2-E4	14	03-Nov-15	18-Nov-15									
1014-2040	Construction (Pier E4 - Pier E2) > Install Street Furniture/GullyEtc.	14	03-Nov-15	18-Nov-15									
1014-2060	Construction (Pier E4 - Pier E2) > Install MJ at Pier E2	7	09-Nov-15	16-Nov-15									
1014-2080	Construction (Pier E4 - Pier E2) > Install MJ at Pier E3 & E4	8	12-Nov-15	20-Nov-15									
1014-2100	Construction (Pier E4 - Pier E2) > Aspahlt + Road Markings, Install Street Furniture/Si	4	21-Nov-15	25-Nov-15									
1014-2940	Bridge E (Pier 19 - D1) - Noise Barrier > Post + Panel	14	02-Nov-15	17-Nov-15									
1014-2960	Bridge E (Pier 19 - D1) - Green Panel Installation	2	18-Nov-15	20-Nov-15									
	lges (Bridge C and F)												
10.2.1 - Pier Co Pier 38 to 43	onstruction												
	Pier 38 (F3C) Prepare C.J. at Existing Pile Cap	11	07-Oct-15	19-Oct-15									
	Pier 38 (F3C) Construct Pier/Column	18	20-Oct-15	10-Nov-15		-							
	Pier 39 (F4C) Prepare C.J. at Existing Pile Cap	11	23-Sep-15	07-Oct-15									
	Pier 39 (F4C) Construct Pier/Column	18	08-Oct-15	29-Oct-15		-							
	Pier 39 (F4C) Construct Crosshead	24	30-Oct-15	26-Nov-15									
	Pier 40 (F5C) Prepare C.J. at Existing Pile Cap	11	10-Sep-15	22-Sep-15									
	Pier 40 (F5C) Construct Pier/Column	18	•	15-Oct-15		-							
	Pier 40 (F5C) Construct Crosshead	24	16-Oct-15	13-Nov-15		-							
	Pier 40 (F5C) Install Bearing	9	14-Nov-15	24-Nov-15		-							
1021-2040		9	14-1100-15	24-100-15									
Remai	ining Level of Effort 🛛 🔶 🔶 Milestone				Contract UV/2000	40							
	Level of Effort				Contract HY/2009/								Page 5
			Three	Mantha	Delling Dreaman / 20	<b>A</b>	40 14	1004					
	Work		Intee	wonths	Rolling Programme ( 20	j Aud to	) 19 NO	<b>V ZU</b> T	<b>J</b> )				
Actual	Work ining Work		Intee	wonths	Rolling Programme ( 20	J Aug to	19 NO	V 201	5)				

	September		October
	13	20	27
ier 41			
ck > Pier	39 to 40 (6 beams)		
molish Te	mp. W/B Bridge - Crossl	nead & Pier > Pier 40	
	Demolish Temp. V	head & Pier > Pier 40 V/B Bridge - Deck > Pier 38 Demolish Tem	3 to 39 (6 beams)
		Demolish rem	p. W/B Bridge - Crosshe molish Temp. W/B Bridg
Construc	t Pier E3		
		Co shead + Bearing at Pier E4 &	nstruction (Pier E4 - Pier
4 - Pier E	2) > Modification of Cross	shead + Bearing at Pier E4 &	§ E2
		Dior 40 (E5C)	
			Prepare C.J. at Existing
	Pa	nge 5 of 7	

Activity I	Name	temainin Duration	Start	Finish	August	2015 September
021-2060 Pier 41	(F6C) Prepare C.J. at Existing Pile Cap	11	28-Aug-15	09-Sep-15	09 16	23         30         06         13           Pier 41 (F6C) Prepare C.J. at Existing Pile Cap
	(F6C) Construct Pier/Column	18	10-Sep-15	02-Oct-15		
	(F6C) Construct Crosshead	24	03-Oct-15	31-Oct-15		
	(F6C) Install Bearing	9	02-Nov-15	11-Nov-15		
	(F7C) Prepare C.J. at Existing Pile Cap	11	20-Aug-15	01-Sep-15		Pier 42 (F7C) Prepare C.J. at Existing Pile Cap
	(F7C) Construct Pier/Column	18	02-Sep-15	22-Sep-15		
	(F7C) Construct Crosshead		23-Sep-15	23-Oct-15		
	(F7C) Install Bearing	9	24-Oct-15	03-Nov-15		
	(F8C) Prepare C.J. at Existing Pile Cap	5	08-Aug-15 A	25-Aug-15		Pier 43 (F8C) Prepare C.J. at Existing Pile Cap
	(F8C) Construct Pier/Column	18	26-Aug-15	15-Sep-15		Pier 43 (F8C) Construct
	(F8C) Construct Crosshead	24	16-Sep-15	15-Oct-15		
	(F8C) Install Bearing	9	16-Oct-15	27-Oct-15		
6 to 37	()					
	(F1C) Prepare CJ at Existing Pile Cap	11	31-Oct-15	12-Nov-15		
1660 Pier 37	(F2C) Prepare CJ at Existing Pile Cap	11	19-Oct-15	31-Oct-15		
	(F2C) Construct Pier/Column	18	02-Nov-15	21-Nov-15		
740 Pier 28	Excav + Prepare C.J	0	10-Aug-15 A	14-Aug-15 A	Pier 28 Excav + Pre	are C.J
760 Pier 28	Construct Pier/Column	6	20-Aug-15	26-Aug-15		Pier 28 Construct Pier/Column
780 Pier 28	Construct Crosshead	14	27-Aug-15	11-Sep-15		Pier 28 Construct Crosshead
00 Pier 28	Install Bearing	9	12-Sep-15	22-Sep-15	[	
to 25			1			
	Prepare C.J. and Modify Tie Beam	18	03-Sep-15	23-Sep-15		
	Reconstruct Column	18	24-Sep-15	16-Oct-15		
100 Pier 22	Reconstruct Crosshead	24	17-Oct-15	14-Nov-15		
20 Pier 22	Install Bearing	6	16-Nov-15	23-Nov-15		
	Prepare C.J. and Modify Tie Beam	18	20-Aug-15	09-Sep-15		Pier 24 Prepare C.J. and Modify Tie Beam
300 Pier 24	Reconstruct Column	18	10-Sep-15	02-Oct-15		
320 Pier 24	Reconstruct Crosshead	24	03-Oct-15	31-Oct-15		
340 Pier 24	Install Bearing	9	02-Nov-15	11-Nov-15		
1360 Pier 25	Prepare C.J. and Modify Tie Beam	18	20-Aug-15	09-Sep-15		Pier 25 Prepare C.J. and Modify Tie Beam
380 Pier 25	Reconstruct Column	18	10-Sep-15	02-Oct-15		
100 Pier 25	Reconstruct Crosshead	24	03-Oct-15	31-Oct-15		
	Install Bearing	9	02-Nov-15	11-Nov-15		
500 Pier 23	Prepare C.J. + Drill in Re-bar + Modify Pilecap	0	09-Jun-15 A	25-Jul-15 A	y Pilecap	
1520 Pier 23	Reconstruct Column	18	26-Aug-15	15-Sep-15		Pier 23 Reconstruct Colu
1540 Pier 23	Reconstruct Crosshead	24	16-Sep-15	15-Oct-15		
-1560 Pier 23	Install Bearing	9	16-Oct-15	27-Oct-15		
' to 19						
	Pier 21 Crosshead (south wing) + Bearing	20	05-Sep-15	29-Sep-15		
	Pier 20 Crosshead (south wing) + Bearing	20	11-Sep-15	06-Oct-15		
	Pier 19 Crosshead (south wing) + Bearing	20	19-Sep-15	14-Oct-15		
	Pier 18 Crosshead (south wing) + Bearing	20	22-Sep-15	16-Oct-15		
Bridge Constru e C1						
	C1 - Precast Beams Pier 17-21 W/B (9 nos)	9	17-Oct-15	28-Oct-15		
	uction (Pier 17 - 21) > Erect Scaffoldings + Platform + Pre-cast Planking	j 7	22-Oct-15	29-Oct-15		
	uction (Pier 17 - 21) > Rebar Fixing of Deck + Diaphragm + Concreting	20	30-Oct-15	21-Nov-15	+	
C2						
	C2 Erect 6nos Pre-cast Beams by Crane D	5	23-Nov-15	28-Nov-15		
C4	C4. Erect Dier Segment at Dier 29 (2 peo) - Die Corre-	2	24 Son 45	26 San 45		
	C4 - Erect Pier Segment at Pier 28 (2 nos) > By Crane		24-Sep-15	26-Sep-15		
	C4 - Erect Pier Segment at Pier 29 (1 no) > By Crane	2	22-Sep-15	23-Sep-15		
-	C4 - Erect Pier Segment at Pier 30 (1 no) > By Crane	2	19-Sep-15	21-Sep-15		В
	ssemble LG2 at Piers 29 and 30 + T&C	39	29-Sep-15	14-Nov-15		
-1070.3 Bridge (	C4 Erect T-Span Segment at Pier 30 by LG2 (10 nos)	8	16-Nov-15	24-Nov-15		
Remaining Le	evel of Effort 🔶 🔶 Milestone				Contract UV/2000/	10
Actual Level of					Contract HY/2009/	Page 6 of 1
Actual Work			Three	Months	Rolling Programme (20	Aug to 19 Nov 2015 )
Remaining W	lork				J - J	
	VIIX					

Sept	ember			October
ier 41 (F6C) Prepar	13 e C.J. at Existing	g Pile Cap	20	27
victing Pilo Con				
kisting Pile Cap			Pier 42 (F7C)	Construct Pier/Column
	Pier 43 (F8C)	Construct F	Pier/Column	
Pier 28 Const	truct Crosshead		Dior 00 lasts !!!	
			Pier 28 Install I	
			Pier 22 Pr	epare C.J. and Modify T
ier 24 Prepare C.J.	and Modify Tie I	Ream		
ier 25 Prepare C.J.	and Modify Tie I	Beam		
	Pier 23 Recon	struct Colur	nn	
				Modify Pier
				Bridge C4 - Erect Pier \$
			Bridge C4	- Erect Pier Segment at
		Br	idge C4 - Erect	Pier Segment at Pier 30
	Pa	ige 6 of 7	7	
	- •			

<i>v</i> ity ID	Activity Name	lemaini Duratio	ni Start	Finish	August	2015
		Duratio	**		09 16	23 30 06
1022-1070.5	Bridge C4 Stitching between Pier 30 and 31	3	27-Nov-15	30-Nov-15		
1022-1451	Bridge C4 - Erect Pier Segment at Pier 31 (1 no) > By Crane	2	11-Sep-15	12-Sep-15		
1022-1452	Bridge C4 - Erect Pier Segment at Pier 32(2 nos) > By Crane	3	14-Sep-15	16-Sep-15		
1022-1453	Bridge C5 - Erect Pier Segment at Pier 33 (1 no) > By Crane	2	17-Sep-15	18-Sep-15		
1022-1454	Erect Temp. Lowering Support on Top of Pier Segment P33, 32 & 31 (design TBC)	15	19-Sep-15	08-Oct-15		
1022-1455	Move LG1 to Temp. Lowering Support at Pier 33-31 from Pier 34-35	4	09-Oct-15	13-Oct-15		
1022-1456	Modify LG1 at Pier 31,32 and 33 for Segment Erection at Pier 32-44	26	14-Oct-15	13-Nov-15		
1022-1457	Bridge C4 Erect T-Span Segment at Piers 31 by LG1 (12 nos)	11	14-Nov-15	26-Nov-15		
10.6 - Tunnel A	pproach Ramp					
10.6.1 - Approa	ach Ramp (Excluding Portion IIB)					
Bored Piles	Period Diles Testing Approach Damp (112 per)	90	01 km 15 A	24 Nov 15		
	Bored Piles Testing Approach Ramp (112 nos)	80	01-Jun-15 A	24-Nov-15		
	Pre Bored H-Pile > Pile Ramp - BN14 A	10	20-Aug-15*	31-Aug-15		Pre Bored H-Pile > Pile Ramp - BN14 A
	Pre Bored H-Pile > Pile Ramp - BN14 B	14	25-Aug-15	09-Sep-15		Pre Bor
	Pre Bored H-Pile > Pile Ramp - BN15 A	14	10-Sep-15*	25-Sep-15		
	Pre Bored H-Pile > Pile Ramp - BN15 B	14	15-Sep-15	02-Oct-15		
	Pre Bored H-Pile > Pile Ramp - BN16 A	14	19-Sep-15	07-Oct-15		
1061-4080	Pre Bored H-Pile > Pile Ramp - BN16 B	14	24-Sep-15	12-Oct-15		
1061-4100	Pre Bored H-Pile > Pile Ramp - BM07 A	14	30-Sep-15	16-Oct-15		
1061-4120	Pre Bored H-Pile > Pile Ramp - BM07 B	14	06-Oct-15	22-Oct-15		
1061-4140	Pre Bored H-Pile > Pile Ramp - BM08 A	14	10-Oct-15	27-Oct-15		
1061-4160	Pre Bored H-Pile > Pile Ramp - BM08 B	14	15-Oct-15	31-Oct-15		
1061-4180	Pre Bored H-Pile > Pile Ramp - BM06 A	14	20-Oct-15	05-Nov-15		
1061-4200	Pre Bored H-Pile > Pile Ramp - BM06 B	14	26-Oct-15	10-Nov-15		
1061-4220	Pre Bored H-Pile > Pile Ramp - BM05 A	14	30-Oct-15	14-Nov-15		
1061-4240	Pre Bored H-Pile > Pile Ramp - BM05 B	14	04-Nov-15	19-Nov-15		
1061-4260	Pre Bored H-Pile > Pile Ramp - BM04 A	14	09-Nov-15	24-Nov-15		
	Pre Bored H-Pile > Pile Ramp - BM04 B	14	13-Nov-15	28-Nov-15		
ELS						
	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D12 Northern \$	14	31-Aug-15*	15-Sep-15		
1061-1180	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D10 Northern \$	14	16-Sep-15	03-Oct-15		
1061-1200	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D10-D09 Northern \$	14	05-Oct-15	20-Oct-15		
1061-1220	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D09-D08 Northern \$	14	22-Oct-15	06-Nov-15		
	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D08-D07 Northern \$	14	07-Nov-15	23-Nov-15		
1061-1280	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D12 Southern \$	14	31-Aug-15	15-Sep-15		
	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D10 Southern \$	14	16-Sep-15	03-Oct-15		
	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D10-D09 Southern :	14	05-Oct-15	20-Oct-15		
	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D0-D08 Southern	14	22-Oct-15	06-Nov-15		
	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D08-D07 Southern	14	07-Nov-15	23-Nov-15		
1061-1400	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D06-D08	14	19-Oct-15	04-Nov-15		
1061-1420	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D08-D10	14	05-Nov-15	20-Nov-15		
Structure 1061-1860	Construct Retaining Wall E Pile Cap (7 nos)	28	31-Oct-15	02-Dec-15		
	X - Miscellaneous Works	20		02 200 10		
10.7.1 - TTM Sta						
	TTM Stage 5 - TMLG Consultation and Endorsement	98	29-Jun-15 A	25-Nov-15		
1071-1260	TTM Stage 5 - TTM Enabling Works	1	26-Nov-15	26-Nov-15		
1071-1280	TTM Stage 5 - Hing Fat Slip Road Divert 1 Lane through 'Bridge From Pier E4 to Pier	0		26-Nov-15		
	eet/Watson Road (Portion III)					
1072-1220	Drainage works - Manhole 1-49B,DN450 & Associate Gully Pipes > Portion VIIB > Wa	0	05-May-15 A	28-Jul-15 A	9B,DN450 & Associate Gully Pipes > Portion VIIB > W	atson Road
1072-1240	Drainage works - Manhole 1-49,DN300 & Associate Gully Pipes > Portion VIIB > Wats	0	15-May-15 A	30-Jul-15 A	nole 1-49,DN300 & Associate Gully Pipes > Portion VII	B > Watson Road
1072-1260	Drainage works - Manhole 1-48B,DN450 & Associate Gully Pipes > Portion VIIB > Wa	0	31-Jul-15 A	03-Aug-15 A	e works - Manhole 1-48B,DN450 & Associate Gully P	
	Drainage works - Road Reinstatement > Portion VIIB > Watson Road	0	04-Aug-15 A	08-Aug-15 A	Drainage works - Road Reinstatement >	

Remaining Level of Effort <ul> <li>Milestone</li> <li>Actual Level of Effort</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> </ul>	Contract HY/2009/19 Three Months Rolling Programme ( 20 Aug to 19 Nov 2015 )	
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Septe	mber					October
	13		20		2	/
dge C4	- Erect Pier	r Segment a	t Pier 31 (1	no) > By	Crane	
	Bridge	C4 - Erect	Pier Segme	ent at Pier	32(2 nos)	> By Crane
		Bridge C5	- Erect Pier	Segmen	t at Pier 33	(1 no) > By
ile > Pile	e Ramp - B	N14 B				
				Pre	Bored H-P	ile > Pile Raı
	Drive Cha	at Dila for Tr	ough A 9 D		Appr D	amp > Pier [
					) - Appl. Ka	
	Drive She	et Pile for Tr	ough A & B	(excl IIB	) - Appr. Ra	amp > Pier [
		D. 7	67			
		Page 7 c	DT /			

No. ICI.	A 441 - 14 - 14 - 14 - 14 - 14 - 14 - 14					yout: CWB - Wor	-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						-		nted 26-Sep-14
IV ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float		1		2015				2016	
V/2009/4	5 - Works Pro	gramme Rev. M (DD:20-Sep-12	V		_		- In at	Q4	Q1	Q2	Q3		Q4	Q1	Q2	Q3
			·													
		Adit - Based on Alternative Meth	od													
Reinstatem	ent of Breakwater								1111							-
S3_54840	Reinstatement wo	rks -west side	7d/wk-1	60d	21-Feb-14 08 A	30-Sep-14 18	-85d	Reinstatem	ent works -west	side		-				1
S3_60085	Reinstatement wo	rks east side	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d	Reinstatem	ent works east si	de						
S3_54845	Completion of Sec	tion 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	Od		30-Sep-14 18	-86d	Completion	of Section 3 (KD	8) in EVA Area (Alte	mative Method)					-
Norks in T	S1/TS2 - OHVE	) and Cable Trough/Maintenance	Walkway				-					-	_			1
TS2 - OHVD	and Cable Trough	Maintenance Walkway	14.			-							_			1
OHVD Slab	and Cable Trough C	construction						-			_		_			
S3_6210	TS2 - OHVD/ Cab		7d/wk-1	40d	20-May-14 08 A	20 Fee 14 18	054	TER OUN						1.10		-
					20-May-14 06 A		-85d		D/ Cable trough			1		10		1
S3_6212	Completion of Sec	tion 3 - TS1/TS2 Area (below -6mpd) KD8)	7d/wk-2	0d		30-Sep-14 18	-86d	Completion	of Section 3 - TS	S1/TS2 Area (below	-6mpd) KDB)					1
Norks in T	rS4/ME4 Area (I	Portion 14A, 14B, 15, 23)														
TS4/ME4 - R	temoval of Tempor	ary Reclamation													-	-
Remaining V	Works at TZ6										-			-		
Stage 4 - Si	eawall and Reclama	tion at TZG				_	-						_			
A-2010		vall blocks (Qty: 245 nos.)	7d/wk-2	6d	15-Sep-14 08 A	26-Sep-14 18	-332d	Lautella forme	f and in the star	(Ot + 045)		1				
							1.	Installation o								
A-2020		to -2.45mPD (Qty:3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d	Soil Backfillin	ig up to -2.45mP	D (Qty:3,000 cu.m.)		1				
A-2030	Utilities installation	for Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d	I: Utilities insta	lation for Mined	Tunnel						
A-2040	Soil backfilling up t	to ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d	I Soil backfillin	ig up to ground l	evel (Qty:2,000 cu.	n.)					
A-2050	Site clearance		7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d	Site clearan	ce		1				4.71	
A-2060	Handover to MTR		7d/wk-2	0d		30-Sep-14 18	-305d	Handover t								-
Removal of	Temporary Reclama	ation at TS4/ME4					-						-			1
Stage 5 (2c	ones A, D & F - TS4-	D33 to D-26, SCL2 & ME4-D19 to D13)	-	-		_		-	-	-				-		
A-3000	D-Wall horizontal	cutting (Qty: 62 pcs.)	7d/wk-2	21d	29-Aug-14 08 A	23-Sep-14.18	-340d	D-Wall horiz	antel cutting (Ob	- 62 pcc \						
	one C - P4, ME4-D12					an see (175	-		since county (act)	or post				-	-	
																1
A-3011	Marine removal or (Zones C)	f temporarly reclamation and seawall blocks	7d/wk-2	21d	31-Aug-14 08 A	02-Oct-14 18	-353d			rly reclamation and	seawall blocks (2	lones C )				
A-3030	D-Wall vertical cur	tting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall ve	rtical cutting (Qty	r 15 pcs.)					-	
A-3040	D-Wall horizontal	cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d	D-Wall he	prizontal cutting (	Qty: 20 pcs.)						
Summa	ary Bar	1 of 18				1	1		1	Prepared by Wil	iam Caluza	Â	T		4	
	Level of Effort		to Constant	ation Erro	incorine (Ucer	Kongilia			Date	Revision		d Approved	1			
Actual V	Work	China Sta	ite Constru	cuon eng	ineering (Hong	Kong) Ltd			26-Sep 1st s	submission		-	nine	中國達 建	エ程(喜港)	有限小
Remain	ning Work	Contract No. HY/2009/15 - Central	Wan Chai E	y Pass -	Tunnel ( Cause	way Bay Typ	hoon SI	elter Section)					otuto	CHINA STATE CONSTR		
Critical	Remaining Work			2.2.	AMME REV.	22.0										

ity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float			201				2016	
Stage 7 (Zor	nes C & E - ME4-D06 to D01, SCL1 & TS4-D25)		Star Star	-	-	Hoat	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		-	_									111111		
A-4000	Marine removal of temporarly reclamation and seawall blocks (Zones C & E)	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine remova	I of temporarly rea	damation and seawa	II blocks (Zone	SC&E)	111 111		
A-3090	Hole coring (Qty: 44 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty	44 nos)						
A-4010	D-Wall vertical cutting (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d	D-Wall vertic	al cutting (Qty: 27p	ocs.)					
A-4020	D-Wall horizontal cutting (Qty: 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d	D-Wall horiz	ontal cutting (Qty:	37 pcs.)					
Stage 9 (Zor	ne I - TS4-D01 to TS4-D08)		-								-	-		
A-3050	Paragraphic statements of the		-					Sec. 1. Al			1			
	Remaining removal of temporary reclamation (Zone I)	7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 1B	-342d	Remaining remo	oval of temporary	reclamation (Zone I)					
A-3060	Hole coring (Qty: 25 nos)	7d/wk-2	5d	02-Oct-14 08	06-Oct-14 18	-342d	Hole coring (Q	ty: 25 nos)	1.2		-			
A-3070	D-Wall vertical cutting (Qty: 14 pcs.)	7d/wk-2	3d	07-0d-14 08	09-Oct-14 18	-342d	D-Wall vertica	cutting (Qty: 14 p	ocs.)					
A-3080	D-Wall horizontal cutting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d	D-Wall hor	zontal cutting (Qty	c 24 pcs.)					
Stage 8 (Zor	nes G & K - TS4-D24 to TS4-D15 )				-	-						-		
A-4040	Relocation of RHKYC floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d	Relocation of RH	KYC floating pont	000					
A-4050	Hole coring (Qty: 27 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d	Hole coring (Qt	1						
A-4060	Marine removal of temporary reclamation and seawall blocks		_			1.500								
	(Zone G & K)	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine rem	loval of temporary	reclamation and sea	wall blocks (Zo	ne G & K)			
A-4070	D-Wall vertical cutting (Qty. 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d	D-Wall ver	tical cutting (Qty:	18pcs.)					
A-4080	D-Wall horizontal cutting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d	D-Wall ho	rizontal cutting (Q	ty: 25 pcs.)					
Stage 10 (Zo	one J - TS4-D09 to TS4-D14)			1		-					1			
A-4090	Land removal of temporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d	Land remova	al of temporary rec	lamation (Zone J)					
A-5000	Hole coring (Qty: 32 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d	Hole coring							
A-5010				10.00 01.0000					- Contractor					
	Marine removal of temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d	Marine re	moval of temporal	ry reclamation (Zone	(L				
A-5020	D-Wall vertical cutting (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d	D-Well v	ertical cutting (Qty	: 20 pcs.)					
A-5030	D-Wall horizontal cutting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d	D-Wall	norizontal cutting (	Qty: 26 pcs.)					
Stage 13 - Ph	nase 3 Mooring				-									
A-5050	Final trimming of sea bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d	Final trim	ming of sea bed le	evel					
A-5060	Phase 3 Mooring	7d/wk-2	6d	06-Nov-14 08	11-Nov-14 18	-347d	Phase 3	Mooring						
A-5040	Reinstatement of exisiting seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d								
201010		10.00-2	ru	11-1404-1400	11-1404-14 18	-5550	Reinst	atement of existing	g seawall (Zones I &	5)				-
Stage 12 - Re	e-provisioning of Jetty							1						
S6_5258	Provision of Mobile Crane (until permanent re-provision of Jetty is completed)	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d		Provision of Mo	bile Crane (until per	manent re-prov	rision of Jetty is o	completed)		
A-6010	BA8 submission and consent for commencement of superstructure	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submiss	ion and consent fo	r commencement of	superstructure				
Actual W	verel of Effort Vark ng Work Remaining Work	Wan Chai B	y Pass -	gineering (Hong Tunnel ( Cause AMME REV.		hoon Sh	26-	Pre Date Sep 1st submis	epared by William Ca Revision sion	Checked Ap	proved	中國連架工 CHINA STATE CONSTRU		

y ID	Activity Name		Calendar	Original	Start	Finish	Total			-		2015				2016	
A-6012	Dubatiatian of a			Duration			Float	Q4		Q1	Q2	Q3		Q4	Q1	Q2	Q3
A-0012	Submission of pe	nformance report	7d/w/k-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d	Submis	ssion of p	erformance	report	ě.	-				
A-6020	floating portoon	ng platform for jetty beams and reinstate the	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d	Ere	ction of w	orking platfo	orm for jetty bean	ns and reinstate	the floating	g portoon			
A-6040	BA10 submission	for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d	I BAT	10 submis	ssion for aut	horized signatory	and subcontract	tor				
A-6030	Jetty beams cons	struction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d		Jetty bear	ns construct	ion						
A-6052	Construction of f	oating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d		Constru	uction of floa	ting pontoon	11-0-0	1				
A-6050	BA13 submission	+ 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d	-	BA1	3 submission	n + 14-day cube i	est results					-
A-6060	E&M and access	ories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d	1	E E&	M and acce	ssories installatio	п. :					-
A-6070	Handover to RHI	KYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d		Ha	indover to R	HKYC		1				
Stage 11 - C	Construction of TZ4						1		-		-	-		-	-	1	_
A-6080	South side - layin	g rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	South side	- laying re	ockfill and lev	velling stone (Qt	v: 1,550 cu.m)					
A-6090	South side - insta	II seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Oct-14 18	-339d	1.000	110		ks (Qty: 255 nos	1					
A-7000	South side - gene	eral fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Oct-14 08	13-Oct-14 18	-339d	South side	e - gener	al fill (Qty: 2,	,000 cu.m.)						
A-7010	North side - laying	g rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d	North	side - lay	ing rockfill a	nd levelling stone	(Qty: 1,550 cu	.m)				
A-7020	North side - instal	Il seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d	Nort	h side - ir	stall seawal	blocks (Qty: 255	nos.)					
A-7030	North side - gene	eral fill (Qty.2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	1 Nort	th side - g	general fill (C	2ty:2.000 cu.m.)						
A-7040	Handover to cont	trad TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d	1 Han	dover to	contract TS	3/SR8						i.
TS4/ME4, Re	emoval of Tempora	ry Reclamation					-	1	-		1						
S26875								1			1	1					
		ction 2 (With ME4 option) (KD7)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	ompletion	of Section 2	(With ME4 optio	n) (KD7)	1			3	
S26890	Completion of Se	ction 7B (ME4) (KD13)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mpletion	of Section 7	B (ME4) (KD13)					1	
rs4 - OHVD	/ Cable Trough					-	-	1	-					_	-		
S5_6185	TS4 (incl. TS4+) opening at TZ4)	- OHVD Slab - Area C (access through temp.	7d/wk-1	36d	02-Jan-15 08*	06-Feb-15 18	195d			TS4 (in	d. TS4+) - OHV[	Slab - Area C	(access thr	ough temp	o. opening at TZ4)		
S5_6190	TS4 (incl. TS4+) - at TZ4)	- Cable Trough (access through temp. opening	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d			0	TS4 (ind. 1	S4+) - Cable T	rough (acco	ess throug	h temp, opening at	TZ4)	1000
S5_59850	Completion of Se -20mPD	ction 5 - TS4/ME4 Area (KD10), below	7d/wk-2	0d		02-Nov-15 18*	DO	1						Complete	etion of Section 5 -	r\$4/ME4 Area (	KD10), below -20n
Vorks in T		(Portion 20A, 20B)		-			-		-			-	-				
Removal of	Temporary Recla	mation						1	_	-		1		_	-		1
							-	1					-1-				
Removal of	Temporary Reclam	ation & Form TZ5						1								1	10000
S87670	Remove general	fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove g	eneral fill	/sea wall blo	ock						
S67675	Diaphragm wall s	aw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d	Diaphrag	ım wall sa	w cutting (1	st D Wall cut on a	23 Jun 2014)	1				
S67755	Form TZ5		7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d	Form TZ	5			1				1	
Summa	ary Bar	3 of 18				1	1	1		Pr	epared by William	n Caluza		-		1	
	Level of Effort								Date	1	Revision		Approved	T I			
Actual V		China Stat	e Construc	tion Eng	ineering (Hong	g Kong) Ltd			26-Sep	. 1st submis	ssion			-		- 30/-	1200-
	ning Work	Contract No. HY/2009/15 - Central V	Van Chai By	Pass -	Tunnel ( Cause	way Bay Typi	hoon She	Iter Section)		-		-		SUED			。) 有限公司 NG (HONG KONG) LTD.
Critical I	Remaining Work							a seattle of	-	-				- Contraction	CHINA SIAIL CORSTR	OCTION ENGINEED	NO HONG KONG LID.

	and the second	and the second se	Original Duration	Start	Finish	Float			2	015		1.0	2016	
S67685	Achievement of KD5	7d/wk-2	Od		10.0-1 (1.10		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Con the		TUTWN-2	u		16-Oct-14 18	-323d	Achievemer	n of KD5	I.					
S67687	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	Od		27-Oct-14 18	-322d	Complete	Reinstatement of	Vertical Seawall (n	ear PRE Office)				
Reinstate M	ucking Out Access Shaft "C"		~		-	-					-			
S67240	Start reinstatement works (after completion of TPCWAW OHVD	6d/wk	Od	26-Mar-16 08	1	-102d								
S67225	works) Cast slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d							<ul> <li>Start reinstaten</li> </ul>	
S67230	Removal of vertical shaft and backfilling		_	1.1.1.1.1.1.1		1.000			1				Cast slab o	pening at top of
		6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d							R	temoval of verti
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d			1				-	Reinstatement
TPCWAE - O	HVD / Cable Trough			line	1								-	
S5_7405	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od				-	TPCWA	- Cable Troug	(access through te	mo, opening at
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp.	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od						1.000	T Area A (access t	
S5_59840	opening at TZ5 & Portion 19) Completion of Section 5 - TPCWAE Area (KD10), below	7d/wk-2	Od		02-Nov-15 18*	Dd						1.000	. P. C. C. C.	
	-20mPD				02-1404-10 10	Uu					Completi	dn of Section 5 -	TPCWAE Area (KI	D10), below -20
Works in T	PCWAW A rea							1	1				1	1
TPCWAW - T	emporary Reclamation		-				1						12.000	1
Temporary F	Reclamation -						1						-	
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d	TROMAN	place loughter at	one and tamping, S	Same and				
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569		100											
	nos. @ 50 nos/day)	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d	TPCWA	V - place seawall	block to +4 at South	r side (Qty: 569 nos	s. @ 50 nos/day)		1	
S6_9465	TPCWAW - place levelling stone and tamping, North side	7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	-122d	TPCW/	W - place levelli	ng stone and tampir	ng, North side				
S6_9470	TPCWAW - place seawall blocks to +4 North side (Qty;672 nos @ 50 nos/day )	7d/wk-1	14d	08-Nov-14 08	21-Nov-14 18	-122d	TPC	NAW - place sea	wall blocks to +4 No	orth side (Qty:672 n	os @ 50 nos/day )			1
S6_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Nov-14 08	01-Dec-14 18	-122d	TP	CWAW - Genera	i fill to +2 within the	seawall				
S6_9490	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	7d	02-Dec-14 08	08-Dec-14 18	-122d		PCWAW - place	seawall blocks to +4	at the temperature				
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall	7d/wk-1												
		/ d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d		TPCWAW - Ren	naining General fill to	o +4 within the seav	vall			
TPCWAW - D	Diaphragm Wall													-
Diaphragm V	Wall							-	1					1
S6_9385	Site investigation	7d/w/k-1	49d	01-Dec-14 08	21-Jan-15 18	-113d	-	Site invest	igation					
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d	-	Install gu	3				11111	
S6_8955	Curtain grout along proposed diaphragm wall								1				1000	1
		7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d			grout along propose					
56_9382	Set up bentonite silo/plants and equipments	7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18	-112d		Set up ber	itonite silo/plants an	d equipments	1. C. S.			
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d	30-Jan-15 08	14-Apr-15 18	-141d		-	Diaphragm w	vall construction (34	panels @ 3 pane	ls/ week)		
S6_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			Install shea	ar pins on diaphragi	m wall			
Summar	A of 18			1	-	1	13		repared by William	Calura	-		1	1
	evel of Effort							Date	Revision	Caluza Checked App	roved			
Actual W	Vork China Sta			ineering (Hon				Sep 1st submi	ssion					
	ing Work Contract No. HY/2009/15 - Central	Wan Chai By	Pass -	Tunnel ( Caus	eway Bay Typh	hoon Shel	ter Section)						エ程(香港) RUCTION ENGINEERING	
	Remaining Work											ANNA SIVIE COVOI	AUCTION ENGINEERING	HONG KONGI []
<ul> <li>Mileston</li> </ul>	e	WORKS P	ROGR	AMME REV	. M									

/ity ID	Activity Name		Calendar		Start	Finish	Total				-	2015	-			2016	
S6_9355	Install king posts		7d/wk-1	Duration 40d	14-Mar-15 08	26-Apr-15 18	-133d	Q4	0	21	Q2		Q3	Q4	Q1	Q2	Q3
S6_8970	Diaphragm Wall F	Mar Anna								-	Instal	I king posts					
			7d/wk-1	40d	20-Mar-15.08	03-May-15 18	-129d			-	Diap	ohragm Wa	ill Pile test			4	
S6_9375	Carry out contact/	fissure grouting	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d	1			Carry	out contact	fissure grouti	g			
TPCWAW-E	LS Works							1									-
ELS Works								1		-		1		1012		-	
S6_9360	Install dewatering	wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d			-	Install	dewatering	wells and pie	ometers			
S6_9365	Install indinometer	s inside D-wall	7d/wk-1	20d	15-Apr-15 08	05-May-15 18	-141d						eters inside D-				
S6_8975	Carry out pumping	g tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d					ry out pum					
S6_8980	1st Layer - D Wa	I conc over break if any & Soft Excavation	7d/wk-1	10d	06-May-15 08	15-May-15 18	-141d			1							
S6 9260	Submit pumping te		7d/wk-1	1d		1.000		111		1				er break if a	ny & Soft Excavat	lion	
S6_8985	1st Layer - install I				06-May-15 08	06-May-15 18	-137d	- I I I I		1	Sub	mit pumpin	g test report				
		1	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d					1st Layer -	install lateral	upport			
S6_8990	Install vibrating wi		7.d/wk-1	10d	16-May-15 08	26-May-15 18	-141d					Install vibra	ating wire strai	n gauge			
S6_8995	2nd Layer - D Wa	Il conclover break if any & Soft Excavation	7d/wk-1	10d	18-May-15 08	28-May-15 18	-141d			1		2nd Layer	- D Wall cond	over break i	f any & Soft Excav	vation	
S6_9000	2nd Layer - install	lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d	1		1		2nd Lay	er - install late	al support			
S6_9005	3rd Layer - D Wal	I conc over break if any & Soft Excavation	7d/wk-1	10d	31-May-15 08	09-Jun-15 18	-141d	1				3rd Lay	er - D Wall co	ic over brea	k if any & Soft Exc	avation	
S6_9010	3rd Layer - install	lateral support	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d	1				ard La	yer - install la	eral support			
S6_9015	4th Layer - D Wal	conc over break if any & Soft Excavation	7d/wk-1	10d	12-Jun-15 08	22-Jun-15 18	-141d					a 4th L	ayer - D Wall	onc over br	eak if any & Soft E	excavation	
S6_9020	4th Layer - install I	ateral support	7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d					📫 4th	Layer - instal	lateral supp	ort		
S6_9025	5th Layer - D Wa	I conc over break if any & Soft Excavation	7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d	1				5th	Layer - D W	all conc over	break if any & So	off Excavation	1
S6_9030	5th Layer - install I	ateral support	7d/wk-1	10d	27-Jun-15.08	07-Jul-15 18	-141d						h Layer - insta				
S6_9035	6th Layer - D Wa	Il conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d					1	1		ver break if any &	Call Currentian	
S6_9040	6th Layer - install I	ateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			8		1	6th Layer - i			Solt Excavation	
TPCWAW - R	OCK EXCAVATION	J			220 2 2 2	Ter san te te			-	-			out Layer - 1	Istall lateral t	ырррп		1
S6_6180	Rock excavation to		dalate a l									1	-		1.1		
			7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d					-			k excavation to fo		ł
S6_9370	Portion 11)	hor to D- Walls (area on west side, near	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d			Į.			Install tie	back anchor	to D- Walls (area	on west side, near	Portion 11)
S6_9415	Install tie back and	hor to D- Walls (east area)	7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d						Install tie t	ack anchor t	o D- Walls (east a	area)	
S6_9055	Provide Access to Portion 11	WDII Contractor for demolition of bulkhead at	7d/wk-2	Dd		10-Nov-15 18	-133d			1				Pro	vide Access to Wi	DII Contractor for d	emolition of bul
TPCWAW- CO	CT RC Structure									1		-			-		-0
TPOWAW-C	CT / OHVD								-								-
Summar	ry Bar	5 of 18						4		Dropp	ared by Will	iam Calu					
	evel of Effort	Chies Stat	Constant	tion East	incode - //	. Kanalitat			Date	R	evision		necked Appro	ved			
Actual W		the state of the state of the			ineering (Hon				26-Sep 1s	st submissio	n			- Bar	क्रा का जा व	第一理(宗法	13-19-1
	ing Work	Contract No. HY/2009/15 - Central W	an Chai B	Pass -	Tunnel ( Caus	eway Bay Typh	noon Shelf	ter Section)		-		-		esues		第工程(零港	
<ul> <li>Mileston</li> </ul>	Remaining Work				AMME REV.	100								-			

N ID	Activity Name	Calendar	Original	Start	Finish	Total	and the second se		20	015			2016	-
S6_9070	TPCWAW Construct tunnel base slab	7d/wk-1	Duration 50d	23-Oct-15 08	11-Dec-15 18	Float -141d	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
			1000									TPCWAW Constru	uct tunnel base slab	
S6_9075	TPCWAW Construct tunnel wall + OHVD + roof slab	7d/wk-1	80d	13-Nov-15 08	02-Feb-16 18	-141d		1				TPCWA	W Construct tunnel	wall + OHVD +
S6_9077	TPCWAW - external waterproofing on top of completed CCT box (ind, screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d						тр	CWAW - external w	aterproofing or
S6_9076	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d						тр	CWAW King post la	ad transfer
TPCWAW - R	Removal of Temporary Reclamation			-							_			
Removal of	Temporary Reclamation													
S6_9140	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion	7d/wk-1	30d	17-Feb-16 08	17-Mar-16 18	-120d	1							
S6_9105	11 (concurrent activities) Remove general fill' seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08			1111	1					Backfilling/Removal	
				Contraction of the	30-Mar-16 18	-120d						-	Remove general	fill/ seawall bloc
S6_9120	Saw cut diaphragm wall	7d/wk-1	63d	21-Mar-16 08	23-May-16 18	-120d							Saw	sut diaphragm w
S6_7550	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	0d		23-May-16 18	-121d							& Comp	letion of Section
TPCWAW -C	able Trough/ Maintenance Walkway				-									
S6_9085	TPCWAW - Cable Trough (access through temp. opening at	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d							TPCWAW - Cabl	e Trough (acces
S6_9135	Portion 19) Completion of Section 5 - TPCWAW Area (KD10), below	7d/wk-2	0d		25-Mar-16 18	-144d							Completion of Ser	
Worke in W	-20mPD Van Chai PCWA (Portion 11)		-	-		1							Completion of Ser	alon 3 - TPC W
	and the state of the state of the													
Initial Works	& Utilities Works							1						
S4_2810	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A	17-Oct-14 18	-58d	Installation o	Hoarding						
S4_2720	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remov	e existing rock mound	i					
S4_2750	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	Carry out	Site Investigation for	BW1/BW2				1	
S4_2755	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	Od		07-Nov-14 18	-61d	◆ BW1/B	V2 Engineers confirm	ation of provisio	nal Parrettes			1	
Allow Acces	s to WDII		-		Contra S Mas				anon or provide					
S4_2785														
	Complete Section 4 - Portion 11 (KD9)	7d/wk-2	0d		10-Nov-15 18	-132d					<ul> <li>Compl</li> </ul>	ete Section 4 - Por	tion 11 (KD9)	
S4_2775	Return Portion 11 to WDII	7d/wk-1	Dd		10-Nov-15 18	-129d					Return	Portion 11 to WD	0	
Norks for I	Mined Tunnel (Portion 16, 17, 18)											1		
SR8 (Tunnel	Excavation + Lining)											-		
From West (	TPCWAE)							1				-		
Heading Ex	cavation (2d/m, 24h/day work shift, 7d/week, no work on statute	ory holiday)	_			_	-						ļ	
A8676	SR8 Heading Excavation From West, CH 4095- 4107 = 8m		464	03-Sep-14 08 A	00 0 11 10	1011								
	@2d/m	7d/wk-1a	16d	U3-Sep-14 U8 A	20-Sep-14 18	164d	SR8 Heading Ex	cavation From West,	CH 4095- 410	7 = 8m @2d/m				
Bench Exca	avation (1.5d-2d/m, 20m separation with heading)													
A8700	SR8 Bench Excavation From West, CH 4055- 4065 = 10m	7d/wk-1a	20d	08-Sep-14 08 A	24-Sep-14 18	148d	SR8 Bench Exca	vation From West, Cl	H 4055- 4065 =	10m			-	
Summar Actual L Actual V	evel of Effort China Stat			gineering (Hong			26		rred by William ( evision n	Caluza Checked Appro	ved	中國還算:	エ程(香港)疗	了限公司

y ID	Activity Name	Calendar	Original	Start	Finish	Total				2015			2016	
40705		-	Duration	05.0	10.0.1.1.17	Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-Oct-14 18	148d	SRB Bench Ex	cavation From V	Vest, CH 4065-	4075 = 10m				
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-0d-14 08	04-Nov-14 18	148d	SR8 Benc	h Excavation Fro	m West, CH 40	75- 4085 = 10m				
A8680	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	7d/wk-1a	20d	05-Nov-14 08	24-Nov-14 18	148d	SR8 B	lench Excavation	From West, Ci	H 4085- 4095 = 10m				
A8725	SR8 Bench Excavation From West, CH 4095- 4100 = 5m	7d/wk-1a	10d	25-Nov-14 08	04-Dec-14 18	148d	SRB	Bench Excavatio	on From West,	CH 4095- 4100 = 5m				
From East (	TS4)				-	-	-			1		-	_	
Heading E	xcavation (2d/m, 24h/day work shift, 7d/week, no work on statu	tory holiday)										-		
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d	SR8 Heading Exc	avation From Ea	ast CH 4115- 41	07 = 8m @2d/m				
Bench Exc	@2d/m avation (1.5d/m, 20m separation with heading)				-	-							_	
A8455	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m	7d/wk-1a	19d	20-Sep-14 08	09-Oct-14 18	Od	SR8 Bench Exc	avation From Es	St CH 4147 5-	4135 = 12 5m				
			-	100 - 10 - 10 - 10 - 10 - 10 - 10 - 10			The second state		1					
A8470	SR8 Bench Excavation From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	Od	SR6 Bench i	Excavation From	Last, CH 4135	- 4125 = 10m				
A8460	SR8 Bench Excavation From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	Od	SR8 Ben	ch Excavation Fr	rom East, CH 41	25+ 4115 = 10m				
A8465	SR8 Bench Excavation From East, CH 4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	Od	SR8	Bench Excavatio	on From East, C	H 4115- 4100 = 15m	-			
Tunnel Lini	ng Works			-										
Erom West	t - Base Slab (10m/bay, 10m separation with benching excavation	n)		-				1			1			
A8525	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab	7d/wk-1a	10d	15-Sep-14 08 A	04-Oct-14 18	137d	SR8, From Wes	t, CH 4015 - 402	5 = 10m/bay, bi	ase slab				
A8530	SR8, From West,CH 4025 - 4035 = 10m/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d	SR8, From W	est CH 4025 - 40	035 = 10m/bay	hase slah				
			1	1					1.000					
A8535	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	1.11	15-Oct-14 08	22-Oct-14 18	165d	SR8, From V							
A8540	SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	7d/wk-1a	8d	23-Oct-14 08	30-Oct-14 18	165d	SR8, From	West, CH 4045	+ 4055 = 10m/b	ay, base slab				
A8545	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	7d/wk-1a	8d	05-Nov-14 08	12-Nov-14 18	160d	SR8, Fr	om West, CH 40	55 - 4065 = 10n	n/bay, base slab				
A8550	SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	7d/wk-1a	8d	25-Nov-14 08	02-Dec-14 18	148d	SR8	, From West, CH	4 4065 - 4075 =	10m/bay, base slab				
A8555	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab	7d/wk-1a	8d	05-Dec-14 08	12-Dec-14 18	148d	<b>S</b> 5	R8, From West, 0	CH 4075 - 4085	= 10m/bay, base slat	2			
A8560	SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	7d/wk-1a	8d	13-Dec-14 08	20-Dec-14 18	150d		SR8, From West	CH 4085 - 409	95 = 10m/bay, base sl	ab			
A8561	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	7d/wk-1a	8d	21-Dec-14 08	29-Dec-14 18	152d		SR8, From We	st. CH 4095 - 4	105 = 10m/bay, base	slab			
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a		30-Dec-14 08	07-Jan-15 18	154d				4115 = 10m/bay, bas				
1 / 7 2 2 2		/ Grwke 1a	ou	30-0-0-14 00	VI-VALI-10 10	1040		SILO, FIUIN V	1000, 011 4 100 -	- ronnuay, basi	e sigu			-
	t - Lining (5m/bay, 10m separation with base slab)				and the second		Martin State							
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	Dd	SR8, From West	, CH 3995 - 4000	0 = 1bay, lining					
A8580	SR8, From West, CH 4000 - 4005 = 1bay, lining	7d/wk-1a	9d	05-Oct-14 08	13-Oct-14 18	137d	SR8, From W	est, CH 4000 - 4	005 = 1bay, linir	g				
A8585	SR8, From West, CH 4005 - 4010 = 1bay, lining	7d/wk-1a	9d	14-Oct-14 08	22-Oct-14 18	137d	SR8, From )	West, CH 4005 -	4010 = 1bay, lin	ning				
A8590	SR8. From West, CH 4010 - 4015 = 1bay, lining	7d/wk-1a	9d	23-Oct-14 08	31-Oct-14 18	137d	SR8, From	n West, CH 4010	- 4015 = 1bay,	lining				ł
	7 of 18			-				P	repared by Willia	am Caluza	-			1
Actual	any bar		- Con F	alasadas (Ile	Kana) [ t-1			Date	Revision	Checked Ap	proved			
Actual	China St	ate Constru	ction En	gineering (Hor	ig Kong) Ltd		26-	Sep 1st submi	ssion		INF	中國連幕:	<b>L</b> 種(春萊)	有限公
Remai	ining Work Contract No. HY/2009/15 - Central	Wan Chai E	By Pass	Tunnel ( Caus	eway Bay Typ	hoon Sh	elter Section)	-		-	oblico	CHINA STATE CONSTRU		
Critical	Remaining Work	Section for		AMME REV										

D	Activity Name		Calendar	Original	Start	Finish	Total			20	15			2016	
A8595	SPR From Work C		746.4.4-	Duration				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
1100 L	SR8, From West, C	CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d	SR8, From	m West, CH 4015 -	- 4020 = 1bay, lin	ing				
A8600	SR8, From West, C	CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d	SR8, Fr	om West, CH 4020	0 - 4025 = 1bay,	lining				
A8605	SR8, From West, C	CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d	SR8, F	rom West, CH 402	25 - 4030 = 1bay	lining				
A8610	SR8, From West, C	CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d	SR8, 1	From West, CH 40	30 - 4035 = 1ba	y, lining				
A8615	SR8, From West, C	CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d	SR8,	From West, CH 4	035 - 4040 = 1ba	ay, lining				
A8620	SR8, From West, C	CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d	SR8	, From West, CH	4040 - 4045 = 16	bay, lining				
A8625	SR8, From West, C	CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d	SR	8, From West, CH	4045 - 4050 = 1	bay, lining				
A8630	SR8, From West, C	CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d	1 Si	R8, From West, CI	H 4050 - 4055 =	1bay, lining				
A8635	SR8, From West, C	CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d		R8, From West, C	H 4055 - 4060 =	= 1bay, lining				
A8640	SR8, From West, C	CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d		SR8, From West,	CH 4060 - 4065	= 1bay, lining				
A8645	SR8, From West, C	CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d		SR8, From West	CH 4065 - 407	0 = 1bay, lining				
A8647	SR8, From West, C	CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d		SR8, From Wes	t, CH 4070 - 407	75 = 1bay, lining				
A8648	SR8, From West, C	CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d		SR8, From We	st, CH 4075 - 40	080 = 1bay, lining				
A8649	SR8, From West, C	CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d		SR8, From W	est, CH 4080 - 4	085 = 1bay, lining				-
A8651	SR8, From West, C	CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d		SR8, From V	Vest, CH 4085 -	4090 = 1bay, linin	19			
A8652	SR8, From West, C	CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d				4095 = 1bay, lini	3		1	ł.
A8653	SR8, From West, C	CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d		SR8, From	West, CH 4095	- 4100 = 1bay, lir	ning			-
A8654	SR8, From West, C	CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d		SR8, From	n West, CH 4100	0 - 4105 = 1bay, I	ining		i.	
From East -	Base Slab (10m/bay	y, 10m separation with benching excavat	ion)	-											
A9775	SR8 From East, C	CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	Od	SR	B From East, CH	4149.5- 4145 = 4	.5m, base slab	1		1	1
A9780	SR8 From East, C	CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	Od	SI	R8 From East, CH	4 4 1 4 5 - 4 1 3 5 =	10m/bay, base sl	ab			
A9785	SR8 From East, C	CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d		SR8 From East, C			1.			1
A9786	SR8 From East, C	CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d		SR8 From East,			T.			
From East -	Linung (Sm/bay, 10m	m separation willi base slab)								1.1.1.1.1.1.1.1		1			
A9820		H 4149.5 - 4145 = 4.5m,1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	Od		rom East, SR8 CH	4149.5 - 4145	= 4.5m.1 bay linir	nd			
A9815		H 4145 - 4140 = 1bay, lining	7d/wk-1a		23-Dec-14 08	28-Dec-14 18	6d		From East, SR8 C						
A9810		CH 4140 - 4135 = 1bay, lining	7d/wk-1a	1	29-Dec-14 08	03-Jan-15 18	6d		From East, SR8					1	
A9805		H 4135 - 4130= 1bay, lining	7d/wk-1a	1.1.1	04-Jan-15 08	08-Jan-15 18	6d		From East, SR8						F
Conserved States	From Eday on o Cr	CLISS - TING - INNY MININ	, univer la	50	01-040-10 00		wu i		- From East, SRO		- roay, iming	2.1.1			-
-		8 of 18						-	Pron	ared by William (	Caluza	- 1-			
Actual L	ry Bar evel of Effort	and the second se			the second second second				ate F	Revision	Checked Ap	proved			
Actual V		China S	State Constru	ction Eng	gineering (Hor	ng Kong) Ltd		26-S	ep 1st submissio	n		-			12-19-11-
	ing Work	Contract No. HY/2009/15 - Centra	al Wan Chai B	v Pass -	Tunnel ( Caus	eway Bay Typ	hoon Shelter Section	on)	-					,東工程(香港	
	Remaining Work										-		CHINA SIATE C	CONSTRUCTION ENGINEER	NG UIDING KONG) []
- resolution			WORKS P	ROGR	AMME REV	M		-							
<ul> <li>Mileston</li> </ul>															

ity ID	Activity Name		Calendar	Original	Start	Finish	Total		1	3	2015			2016	
40870	Free Free One of Land	1005 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A9870	From East, SR8 CH 4130 -	4125 = 1bay, lining	7d/wk-1a	5d	09-Jan-15 08	13-Jan-15 18	6d	1	From East, S	SR8 CH 4130 - 4	125 = 1bay, lining			1	
A9800	From East, SR8 CH 4125 -	4120 = 1bay, lining	7d/wk-1a	5d	14-Jan-15 08	18-Jan-15 18	143d	1.11	From East,	SR8 CH 4125 - 4	1120 = 1bay, lining				
A9860	From East, SR8 CH 4120 -	4115 = 1bay, lining	7d/wk-1a	5d	19-Jan-15 08	23-Jan-15 18	143d		From East	SR8 CH 4120 -	4115 = 1bay, lining				
A9855	From East, SR8 CH 4115 -	4110 = 1bay, lining	7d/wk-1a	5d	24-Jan-15 08	28-Jan-15 18	143d		1 From Eas	at, SR8 CH 4115	- 4110 = 1bay, lining				
A9850	From East, SR8 CH 4110 -	4105 = 1bay, lining	7d/wk-1a	5d	29-Jan-15 08	02-Feb-15 18	143d		1.000	1	- 4105 = 1bay, lining				
OHVD(10m	n/bay) / Utility Trough			-	1.000 0	par serves	1.511.4	-					_		
A8570	SR8 Tunnel OHVD and utili	ly trough =, 167= 17 bays @	7d/wk-1a	120d	09-Feb-15 08	13-Jun-15 18	137d		-	-	SR8 Tunnel OHVD an	ed utility teore	h - 107- 17 hour 6	10-1- 0 7-1/h	
EB Outer Tu	10m/bay @ 7d/bay unnel Excavation		1.54125.5			The project of					and runner of the an	a anny a oog	1 - 10/~ 1/ bays (	g Torribay @ 70/bay	
From West								1	_						
_						_		0							
	ich Excavation (1,5d - 2d/m, 2						i		1.1						
A9550	EB, Outer Bench From We	st, CH 4035- 4045 = 10m	7d/wk-1a	30d	07-Aug-14 08 A	20-Oct-14 18	135d	EB, Outer	Sench From West,	CH 4035- 4045	= 10m				
A9555	EB, Outer Bench From We	st, CH 4045- 4055 = 10m (2d/m)	7d/wk-1a	20d	20-Oct-14 08	08-Nov-14 18	135d	EB, Ou	ter Bench From W	lest, CH 4045- 40	055 = 10m (2d/m)				
A9560	EB, Outer Bench From We	st, CH 4055- 4065 = 10m (2d/m)	7d/wk-1a	20d	09-Nov-14 08	28-Nov-14 18	135d	EB	Outer Bench From	m West, CH 4055	5- 4065 = 10m (2d/m)				
A9565	EB, Outer Bench From We	st, CH 4065- 4075 = 10m (2d/m)	7d/wk-1a	20d	29-Nov-14 08	18-Dec-14 18	135d	-	EB, Outer Bench	From West, CH	4065- 4075 = 10m (2d/	m)			
A9520	EB, Outer Bench From We	st, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a	20d	19-Dec-14 08	09-Jan-15 18	135d		EB, Outer Be	nch From West,	CH 4075- 4085 = 10m	(2d/m)			
A9545	EB, Outer Bench From We	st, CH 4085- 4095 = 10m 1.5d/m)	7d/wk-1a	15d	10-Jan-15 08	24-Jan-15 18	135d		EB, Outer	Bench From We	st, CH 4085- 4095 = 10	0m 1.5d/m)			
From East (	(TS4)			-									-		
Outer Ben	ch Excavation (1.5d-2d/m, 20	m separation with heading)		-									-		_
A9605	EB, Outer Bench From Eas		7d/wk-1a	30d	20-Oct-14 08*	18-Nov-14 18	120d	-		-	L. I				
									uter Bench From						
A9610		t, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	120d	- E	B, Outer Bench Fr	om East, CH 414	15- 4135 = 10m (2d/m)				
A9615	EB, Outer Bench From Eas	t, CH 4135- 4125 = 10m (2d/m)	7d/wk-ta	20d	09-Dec-14 08	29-Dec-14 18	120d		EB, Outer Benc	h From East, CH	4135- 4125 = 10m (20	t/m)			
A9620	EB, Outer Bench From Eas	l, CH 4125- 4115 = 10m (2d/m)	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d		EB, Outer B	Bench From East,	CH 4125- 4115 = 10m	1 (2d/m)			
A9625	EB, Outer Bench From Eas	t, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d		EB, Ou	ter Bench From B	East, CH 4115- 4105 =	10m (2d/m)			
A9630	EB, Outer Bench From Eas	t, CH 4105- 4095 = 10m (1.5d/m)	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	120d		EB,	Outer Bench Fro	om East, CH 4105- 409	6 = 10m (1.5	d/m)		
EB (Inner Tu	unnel Excavation + Lining)							1							
From West	(TPCWAE)									1				-	
Inner Head	ding Excavation (2d/m, 24h/d	ay work shift, 7d/week, no work on	statutory holi	day)		-	-	1	-	1					
A8805	EB,Inner Heading From We	est, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	Od	EB,Inn	r Heading From V	Vest, CH 3992- 4	005 = 13m @3d/m				
	EB,Inner Heading From We	est, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	Od			1	)5- 4015 = 10m @2d/m				
A8815										1	2 ····			<u> </u>	
	0 06 10							-	Date	epared by Willian Revision	Checked Approv	ved			
Summa															
Summa	Level of Effort	China Sta	ate Construc	tion Eng	gineering (Hon	g Kong) Ltd		26	-Sep 1st submis	301, 01 C A.	unound 7 ippi o		and an a state of the state of		-
Summa Actual L	Level of Effort Work						hoon Shel	-	-Sep 1st submis	301, 01 C A.		PRE		エ程(春港)孝	
Summa Actual I Actual \ Remain	Level of Effort Work	China Sta ract No, HY/2009/15 - Central					hoon Shel	-	-Sep 1st submis	301, 01 C A.		eSCEe		エ程(香港)学	

ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015 2016
A8820	EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m	7d/wk-1a		28-Nov-14 08	17-Dec-14 18	0d	Q4         Q1         Q2         Q3         Q4         Q1         Q2         Q3           Image: EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m         EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m         Q3         Q4         Q1         Q2         Q3         Q3         Q4         Q4
A8780	EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	18-Dec-14 08	08-Jan-15 18	Od	
A8810	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m	7d/wk-1a					EBInner Heading From West, CH 4025- 4035 = 10m @2d/m
A8785	EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m	_	20d	09-Jan-15 08	28-Jan-15 18	Od	EB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m
A8790		7d/wk-1a		29-Jan-15 08	17-Feb-15 18	Od	EB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m
	EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	18-Feb-15 08	12-Mar-15 18	0d	EB.Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m
A8795	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	13-Mar-15 08	01-Apr-15 18	0d	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m
A8800	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	02-Apr-15 08	22-Apr-15 18	0d	EB.Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m
A8825	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a	20d	23-Apr-15 08	13-May-15 18	0d	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m
Inner Bend	ch Excavation (1.5-2d/m, 20m separation with heading)		-		-		
A8765	EB, Inner Bench From West, CH 3992- 4005 = 13m (2d/m)	7d/wk-1a	26d	DB-Nov-14 08	03-Dec-14 18	23d	EB Inner Bench From West, CH 3992-4005 = 13m (2d/m)
A8770	EB, Inner Bench From West,CH 4005- 4015 = 10m	7d/wk-1a	15d	18-Dec-14 08	03-Jan-15 18	9d	EB, Inner Bench From West, CH 4005- 4015 = 10m;
A8775	EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d	EB, Inner Bench From West, CH 4015- 4025 = 10m
A8735	EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	14d	EB, Inner Bench From West,CH 4025- 4035 ≈ 10m
A8740	EB, Inner Bench From West,CH 4035- 4045 = 10m	7d/wk-1a	15d	18-Feb-15 08	07-Mar-15 18	11d	EB, Inner Bench From West,CH 4035- 4045 = 10m
A8745	EB, Inner Bench From West,CH 4045- 4055 = 10m	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d	EB, Inner Bench From West, CH 40/45- 40/55 = 10m
A8750	EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d	EB, Inner Bench From West,CH 4055- 4065 = 10m
A8755	EB, Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	1d	EB, Inner, Bench From West, CH 4065-4075 = 10m
A8760	EB. Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od	
A8761	EB, Inner Bench From West, CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od	EB, Inner Bench From West,CH 4075- 4085 = 10m
rom East (	TS4)						EB: Inner Bench From West, CH 4085- 4095 = 10m
Inner Head	ing Excavation (3d/m, 24h/day work shift, 7d/week, no work on s	tatutoru heli	laul		_	_	
A8835	EB Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @			00 1 45 00			
	3d/m	7d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	Od	EB,Inner Heading From East, CH 4147,5 to 4145 = 2,5m, @ 3d/m
A8850	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m	7d/wk-1a	30d	14-Jan-15 08	12-Feb-15 18	Od	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m
A8830	EB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	13-Feb-15 08	07-Mar-15 18	Dd	EB,Inner Heading From East, CH 4135- 4125 = 10m @2c/m
A8840	EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	08-Mar-15 08	27-Mar-15 18	Od	EB.Inner Heading From East, CH 4125- 4115 = 10m @2d/m
A9910	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	28-Mar-15 08	17-Apr-15 18	Dd	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m
A8845	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	Dd	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m
nner Benc	h Excavation (1.5d-2d/m, 20m separation with heading)			-			
A8860	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d	08-Mar-15 08	11-Mar-15 18	11d	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m
Summa	ry Bar 10 of 18				-P		Prepared by William Caluza
	evel of Effort China Stat	e Construc	tion Eng	ineering (Hon	a Kona) Ltd		Date Revision Checked Approved
Actual V	VORK						26-Seption 1st submission 中國建築工程(香港) 介限公司
Remain	ing Work Contract No. HY/2009/15 - Central W Remaining Work	an Chai By	Pass -	funnel (Cause	eway Bay Typh	oon Shelter	Section) CHINA STATE CONSTRUCTION BIGINEERING CHONG KONG UTD

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A8865 A8870 A8855 A8875 A8915 Tunnel Lining From West E A8900 A8890	EB,Inner Bench From East, CH 4145- 4135 = 10m EB,Inner Bench From East, CH 4135- 4125 = 10m EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	Duration 15d 15d 15d	12-Mar-15 08 28-Mar-15 08	26-Mar-15 18	Float 11d	Q4	Q1	Q2 EB,Inner Ben	Q3	Q4	Q1	2016 Q2	Q3
A8870 A8855 A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4135- 4125 = 10m EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a	15d	1	26-Mar-15 18	110		A DESCRIPTION OF A DESC	EB,Inner Ben	th From East CH 4	145 4135 - 100			
A8855 A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a		28-Mar-15 08				1111		ant rom cast, arra	140-4100-100			
A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	- COM BY	15d	and the second sec	12-Apr-15 18	10d			EB,Inner E	ench From East, C	H 4135- 4125 = 1	IOm		
A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a		18-Apr-15 08	03-May-15 18	5d			EB,Inr	er Bench From Ea	st, CH 4125- 411	5 = 10m		
Tunnel Lining From West E A8900			15d	09-May-15 08	23-May-15 18	Od			<b>E</b>	Inner Bench From	East, CH 4115-	4105 = 10m		
From West E		7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	Od			+	EB,Inner Bench Fr	1			
A8900	g Works	-							-	and the second se		1000 - 1011		
A8900	Base Slab (10m/bay, 10m separation with benching excavat	ion							-		1		1	-
		iony						1.0						
A8890	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	33d		EB From West,	Base Slab CH 399	0 - 3995 = 1 bay				
	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d		EB From	West, Base Slab C	H 3995 - 4005 = 10	m/bay			
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d		EB Fr	om West, Base Sla	ab CH 4005 - 4015	= 10m/bay			
A8910	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	14d			B From West, Bas	e Slab CH 4015 - 4	025 = 10m/bay			
A8915	EB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	12d			EB From West,	Base Slab CH 402	5 - 4035 = 10m/b	av		
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d				est, Base Slab CH		2		
A8925	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	4d			1	n West, Base Slab		and a second		
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d								
A8880	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	104						-	rom West, Base Sl				
A8885				20-May-15 08	29-May-15 18	5d			<b>B</b> E	B From West, Base	Slab CH 4065 -	4075 = 10m/bay		
	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d				EB From West, B	ase Slab CH 407	5 - 4085 = 10m/bay		
A8895	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	Od			1	EB From West,	Base Slab CH 4	085 - 4095 = 10m/bay		
From East B	ase Slab (10m/bay, 10m separation with benching excavation	on)						1		1	1			
A9905	EB From East, Base Slab CH 4149.5 - 4145 = 4.5m	7d/wk-1a	10d	13-Apr-15 08	22-Apr-15 18	26d			EB From	East, Base Slab Cl	H 4149.5 - 4145	= 4.5m		
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d			EB F	rom East, Base Sla	b CH 4145 - 413	5 = 10m/bay		
A9895	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	6d				B From East, Base	Slab CH 4135 -	4125 = 10m/bay		
A9890	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	Od			1	EB From East, B	ase Slab CH 412	5 - 4115 = 10m/bay		
A9885	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Dd			1	1		115 - 4105 = 10m/bay		
A9880	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Dd				1	1	4105 - 4095 = 10m/t	E	
Lining (5m/h	ay, 15m separation with base stab)				1				-	CO FIOM Ca		4105 - 4095 = 10000	ay	
									1	1	d			
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d		EB F	rom West, Lining	CH 3990 - 3995 = 1	Ibay			
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d		100 E	B From West, Lini	ng CH 3995 - 4000	= 1bay			
A9090	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	4d			EB From West, Li	ning CH 4000 - 400	05 = 1bay			
Summary	Bar 11 of 18			-		3			Prepared by Willia	m Caluza	-			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	vel of Effort			and a state				Date	Revision	Checked A	oproved			
Actual We	China	State Construc	tion Eng	ineering (Hon	g Kong) Ltd		26-	-Sep 1st subr	mission				-	
Remainin		al Wan Chai B	Pass -	Tunnel ( Cause	eway Bay Typh	oon Shelter	Section)				- CIL	中國運業2		
	emaining Work	a. man ondi Dy		anner ( odusi	and Day iypi	oon oneiter	Jection				PACING.	CHINA STATE CONSTRU	CTION ENGINEERING (	IONG KONC
Milestone		WORKS P	ROGR	AMME REV.	M		-							
<ul> <li>Milestone</li> </ul>		WORKSP	RUGR	AMME REV.	IVI									

Activity Na	lame	Calendar	Original	Start	Finish	Total			201	15			2016	
			Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
50 EB From V	West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d			EB From West, Linir	ng CH 4005 - 4	1010 = 1bay			
55 EB From V	West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			EB From West, Lir	ning CH 4010	- 4015 = 1bay			
60 EB From V	West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d		1 3	EB From West	Lining CH 401	5 - 4020 = 1bay			
70 EB From V	1 West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			EB From West	t, Lining CH 40	020 - 4025 = 1bay			
75 EB From \	n West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			EB From We	est, Lining CH	4025 - 4030 = 1bay			
80 EB From \	1 West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			EB From W	Vest, Lining CH	4 4030 - 4035 = 1 bay	,		
85 EB From \	n West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d			EB From	West, Lining C	CH 4035 - 4040 = 1ba	ay		
15 EB From V	n West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d	5		EB Fron	m West, Lining	CH 4040 - 4045 = 1	bay		
20 EB From \	n West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			EB Fre	om West, Linin	g CH 4045 - 4050 =	1bay		
25 EB From \	n West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			EB F	From West, Lin	ing CH 4050 - 4055	= 1bay		
30 EB From \	n West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d			EB	From West, L	ining CH 4055 - 406	0 = 1bay		
35 EB From	n West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d			<b>•</b> E	B From West,	Lining CH 4060 - 40	065 = 1bay		
140 EB From	n West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d				EB From West	t, Lining CH 4065 - 4	4070 = 1bay		
45 EB From	n West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	Od			1 -	EB From W	est, Lining CH 4070	- 4075 = 1bay		
55 EB From	n West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od			1	EB From W	Vest, Lining CH 4075	5 - 4080 = 1bay		
60 EB From	n West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od				EB From	West, Lining CH 408	30 - 4085 = 1bay		
70 EB From	n West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d				EB From	West, Lining CH 40	85 - 4090 = 1bay		
75 EB From	n West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	Od				EB From	n West, Lining CH 4	090 - 4095 = 1bay		
80 EB From	n West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Dd				EB Fro	m West, Lining CH 4	4095 - 4100 = 1bay		
85 EB From	n West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Dd				EB Fr	om:West, Lining CH	4100 - 4105 = 1bay		
990 EB From	n West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	Dd				EB F	rom West, Lining Cl	H 4105 - 4110 = 1ba	x	
995 EB From	n West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	ł			E EB	From West, Lining C	CH 4110 - 4115 = 16	у	
000 EB From	n West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	Dd				EB	From West, Lining	CH 4115 - 4120 = 1	ay	
010 EB From	n West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od				8 E	B From West, Lining	CH 4120 - 4125 =	bay	
965 EB From	n West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Dd			1		EB From West, Lining	CH 4125 - 4130 =	1bay	
	m West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Dd	E.				EB From West, Linin	ng CH 4130 - 4135	1bay	
	m West, Lining CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od					EB From West, Lin	ing CH 4135 - 4140	= 1bay	
	m West, Lining CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od					EB From West, Lir	1		
Con Con Con Con	m West, Lining CH 4145 - 4149.5 = 4.5m	7d/wk-1a		14-Sep-15 08	18-Sep-15 18	Dd					EB From West, L			
		1		11.000		1-244			Prepared by William C					
Summary Bar Actual Level of Effort Actual Work Remaining Work Critical Remaining W	Contract No. HY/2009/15 - Cer		y Pass	- Tunnel ( Cau	seway Bay Typ	boon Shelter	Sec. Sec. 4	Date 26-Sep 1st subm	Revision	Checked	Approved	中國連禁工 CHINA STATE CONSTRU		
Actual Work Remaining Work	Contract No. HY/2009/15 - Cer	ntral Wan Chai B	y Pass		seway Bay Typ	hoon Shelter	Sec. Sec. 4	26-Sep 1st subm	nission		eSDEc			

ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	-	a second second		2015			2016	
OHVD(10m/	(bay) / Utility Troug	ah				-	r Iwas	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							_				1 1			1	
A9095	10m/bay @ 7d/ba	HVD and utility trough =, 167= 17 bays @ ay	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	Od				-	EB Fr	om West OHVD an	d utility trough =, 16	7= 17 bays @ 10
B Outer Iu	innel Excavation									2	1		-	1	
rom West (1	TPCWAE)									1	-		-		
Outer Headi	ing Excavation (2d	ilm, 24h/day work shift, 7d/week, no work or	statutory hol	iday)	-	-	-		-				-	1	-
A9651	WB, Outer Headi 2d/m	ing From West, CH 4085- 4092.5 = 7,5m @	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d	WB, Outer He	ading From West,	CH 4085- 4092.5	= 7.5m @ 2d/m			ł	
Outer Bench	h Excavation (1.5d	-2d/m, 20m separation with heading)			1									-	-
A9680	WB, Outer Bench	h From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	12-Oct-14 08	26-Oct-14 18	163d	WB, Out	er Bench From We	est, CH 4025- 403	5 = 10m				
A9665	WB, Outer Bench	h From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	10-Nov-14 18	163d	wb, c	Outer Bench From	West, CH 4035- 4	1045 = 10m				
A9670	WB, Outer Bench	h From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d	we	B, Outer Bench Fro	om West, CH 404	5- 4055 = 10m			1	
A9675	WB, Outer Bench	h From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d	-	WB, Outer Bench	From West, CH 4	055- 4065 = 10m			1	
A9700	WB, Outer Bench	n From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d		WB, Outer Ben	ch From West, Cl	H 4065- 4075 = 10m				
A9701	WB, Outer Bench	n From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d		WB, Outer B	Bench From West	CH 4075- 4082.5 = 7	.5m		1	
rom East (T	rs4)			••••••						1			-	-	
outer Headi	ing Excavation (2d	i/m, 24h/day work shift, 7d/week, no work or	statutory hol	iday)				1						-	
A9730	WB, Outer Headi @2d/m	ing From East, CH 4105- 4092.5 = 12.5m	7d/wk-1a	25d	30-Aug-14 08 A	30-Sep-14 18	168d	WB, Outer He	ading From East, C	CH 4105- 4092.5	= 12.5m @2d/m			1	
uter Bench	0	-2d/m, 20m separation with heading)	ang talan mananana da		dumun and a	- diama									
A9740	WB, Outer Bench	n From East, CH 4136- 4135 = 1m	7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d	WB, Outer	Bench From East,	CH 4136- 4135 =	1m				
A9770	WB, Outer Bench	n From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d	WB, Out	er Bench From Ea	st. CH 4135- 412	5 = 10m				
A9745	WB, Outer Bench	n From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	28-Oct-14 08	11-Nov-14 18	168d	we, c	Outer Bench From	East, CH 4125- 4	115 = 10m				
A9750	WB, Outer Bench	n From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d		3, Outer Bench Fro						
A9755	WB, Outer Bench	r From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d	1 5.5	WB, Outer Bench I						
A9760	WB, Outer Bench	From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a	25d	11-Dec-14 08	06-Jan-15 18	168d	1.1	1	B - 5 - 2 - 2	CH 4095- 4082.5 = 12.5	5m			0
3 (Inner Tu	nnel Excavation +	+ Lining)						1				200		3	
rom West (T								-	-	1				1	
		id/m, 24h/day work shift, 7d/week, no work o	a ctatuton/ha	lidaul				1		1					
A9130		g From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	04		and the state of the						
A9135		g From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a				b0	1			- 4005 = 12m @3d/m				
A9140	The second	g From West, CH 4005- 4015 = 10m @2d/m		20d	19-Nov-14 08	08-Dec-14 18	b0	1			005- 4015 = 10m @2d/			4 *	
	Arbinner Heading		7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	0d		VVB,Inner Head	ing From West, C	CH 4015- 4025 = 10m (	@2d/m			
Summary Actual Le Actual W Remainin	evel of Effort /ork	13 of 18 China Sta Contract No. HY/2009/15 - Central			jineering (Hon Tunnel ( Caus		noon She	20	Pr Date 6-Sep 1st submit	repared by William Revision ssion	Caluza Checked Approv	ved		工程( <b></b> · 来); RUCTION ENGINEERING	
<ul> <li>Critical Ri</li> <li>Milestone</li> </ul>	temaining Work e				AMME REV			-				_	CHINA SIALE COASI	ACCINENT ENGINEERING	anonia konta LID.

	Activity Name	Calendar	Original	Start	Finish	Total			2	015				2016	
40100	WP Inser Linesting From West OU 1005, 1005 - 10 - 00 //-	7.10.1.2	Duration			Float	Q4	Q1	Q2	Q3	Q		Q1	Q2	Q3
A9100	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	Od		WB,Inn	r Heading From We	at, CH 4025- 403	5 = 10m @2	d/m	-		
A9105	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	Od		WB	Inner Heading From	West, CH 4035-	4045 = 10m	@2d/m			
A9110	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	Od		-	WB,Inner Heading F	rom West, CH 40	045-4055 =	10m @2d	/m		
A9115	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	04-Mar-15 08	23-Mar-15 18	Od			WB,Inner Headir	g From West, C	H 4055- 406	5 = 10m @	D 2d/m		
A9120	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	Dd			WB,Inner He	ading From Wes	H 4065-	4075 = 10	m @ 2d/m		
A9125	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	Od			1	r Heading From	1				
Inner Bann	ch Excavation (1.5d-2d/m, 20m separation with heading)				or may no no.		_		VVD, mile	r neading From	West, CH 40	075-4065	= 10m @ 20m		
								1.0	1		ŭ.				
A9180	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		WB,Inne	r Bench From West,	CH 3993- 4005 =	= 12m				
A9205	WB,Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d		WB,	nner Bench From We	st, CH 4005- 40	15 = 10m				
A9190	WB,Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	20d			WB)nner Bench Fron	West, CH 4015	5- 4025 = 10r	m			
A9185	WB,Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	04-Mar-15 08	18-Mar-15 18	15d			WB,Inner Bench I	From West, CH 4	1025- 4035 =	= 10m			
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d			WB,Inner Ber	ch From West,	CH 4035- 40	45 = 10m			
A9160	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d				Bench From We		0.000	10m		
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od				nner Bench From					
A9170	WB.Inner Bench From West, CH 4065- 4075 = 10m									1					
		7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od			l w	B,Inner Bench Fr	rom West, C	H 4065-4	075 = 10m		
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	b0		1.11.001		WB,Inner Bench	From West	, CH 4075	- 4085 = 10m		
From East (	(TS4)									1	1				
Inner Head	ding Excavation (2d/m, 24h/day work shift, 7d/week, no work on s	tatutory holi	day)		_			-		1					
A9210						64		WB	nner Heading From E	ast CH 4135-4	125 - 10m @				
	WB.Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	14-Jan-15 U8	02-Feb-15 18										
		7d/wk-1a	200	14-Jan-15 08	02-Feb-15 18	6d									
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	6d		-	WB,Inner Heading Fr	om East, CH 412	25- 4115 = 10	)m @2d/m			
A9215 A9230	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		-		om East, CH 412	25- 4115 = 10	)m @2d/m			
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	6d		-	WB,Inner Heading Fr	om East, CH 412 From East, CH	25- 4115 = 10 4115- 4105	0m @2d/m = 10m @2	?d/m		
A9215 A9230	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		-	WB, Inner Heading Fr WB, Inner Heading WB, Inner Heading	om East, CH 412 From East, CH	25-4115 = 10 4115-4105 CH 4105-4	0m @2d/m = 10m @2 095 = 10m	?d/m n @2d/m		
A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18	6d 6d 6d		-	WB, Inner Heading Fr WB, Inner Heading WB, Inner Heading	om East, CH 412 From East, CH ading From East,	25-4115 = 10 4115-4105 CH 4105-4	0m @2d/m = 10m @2 095 = 10m	?d/m n @2d/m		
A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18	6d 6d 6d		-	WB, Inner Heading Fr WB, Inner Heading WB, Inner Heading	om East, CH 412 From East, CH ading From East, Heading From E	25- 4115 = 10 4115- 4105 CH 4105- 4 East, CH 409	0m @2d/m = 10m @2 095 = 10m 5- 4085 =	?d/m n @2d/m		
A9215 A9230 A9232 A9232 A9225	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m ch Excavation (1.5d-2d/m, 20m scparation with heading)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18	6d 6d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bence	om East, CH 412 3, From East, CH ading From East, Heading From E 2h From East, CH	25- 4115 = 10 4115- 4105 CH 4105- 4 East, CH 409 1 4135- 4125	0m @2d/m = 10m @2 095 = 10m 5- 4085 = 5 = 10m	2d/m n @2d/m 10m @2d/m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4135- 4125 = 10m         WB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18	6d 6d 6d 16d 11d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend	om East, CH 412 From East, CH ding From East, Heading From E h From East, CH Bench From East	25-4115 = 10 4115-4105 CH 4105-4 East, CH 409 14135-4125 4, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r	2d/m n @2d/m 10m @2d/m n		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4125- 4125 = 10m         WB,Inner Bench From East, CH 4125- 4115 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18	6d 6d 6d 6d 16d 11d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Benc WB,Inner I WB,Inner I WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From	25-4115 = 10 4115-4105 CH 4105-41 East, CH 409 H 4135-4125 L, CH 4125-4 East, CH 411	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 =	2d/m n @2d/m 10m @2d/m m = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4125- 4125 = 10m         WB,Inner Bench From East, CH 4125- 4115 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 6d 16d 11d 6d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,Inner I WB,Inner WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Bench From East ner Bench From Jnner Bench Fro	4115-4115 = 10 4115-4105 - CH 4105-4 East, CH 4105- H 4135-4125- L, CH 4125-4 East, CH 412 East, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 - 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4125- 4125 = 10m         WB,Inner Bench From East, CH 4125- 4115 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18	6d 6d 6d 6d 16d 11d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,Inner I WB,Inner WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From	4115-4115 = 10 4115-4105 - CH 4105-4 East, CH 4105- H 4135-4125- L, CH 4125-4 East, CH 412 East, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 - 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m eh Excavation (1.5d-2d/m, 20m separation with heading) WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4095 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 6d 16d 11d 6d 6d			WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,Inner I WB,Inner WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From Jnner Bench Fro WB,Inner Bench	4115-4115 = 10 4115-4105 - CH 4105-4 East, CH 4105- H 4135-4125- L, CH 4125-4 East, CH 412 East, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 - 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bens A9235 A9240 A9245 A9247 A9250 Summa	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4135- 4125 = 10m         WB,Inner Bench From East, CH 4135- 4125 = 10m         WB,Inner Bench From East, CH 4135- 4125 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4105- 4095 = 10m         WB,Inner Bench From East, CH 4105- 4095 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4105- 4095 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 28-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 6d 16d 11d 6d 6d		Date	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From Jnner Bench Fro WB,Inner Bench	25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 = 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9247 A9250 Summa Actual I	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4125- 4115 = 10m         WB,Inner Bench From East, CH 4125- 4115 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4105- 4095 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 405- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 405- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 405- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m <td>7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a</td> <td>20d 20d 20d 15d 15d 15d 15d 15d</td> <td>03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08</td> <td>25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18</td> <td>6d           6d           6d</td> <td></td> <td>Date</td> <td>WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,INNE I</td> <td>om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Sench From East ner Bench From Inner Bench Fro WB,Inner Bench Caluza</td> <td>25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH</td> <td>Om @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105- 409 CH 4095-</td> <td>2d/m n @2d/m 10m @2d/m m = 10m 35 = 10m 4085 = 10m</td> <td><b>翟(尋瑛)</b>3</td> <td></td>	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 15d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18	6d           6d		Date	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,INNE I	om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Sench From East ner Bench From Inner Bench Fro WB,Inner Bench Caluza	25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH	Om @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105- 409 CH 4095-	2d/m n @2d/m 10m @2d/m m = 10m 35 = 10m 4085 = 10m	<b>翟(尋瑛)</b> 3	
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9247 A9250 Summa Actual Remain	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m         WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m         WB,Inner Heading From East, CH 4105- 4085 = 10m @2d/m         WB,Inner Bench From East, CH 4135- 4125 = 10m         WB,Inner Bench From East, CH 4115- 4115 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4115- 4105 = 10m         WB,Inner Bench From East, CH 4105- 4095 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m         WB,Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 15d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18	6d           6d	Section)	Date	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,	om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Sench From East ner Bench From Inner Bench Fro WB,Inner Bench Caluza	25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH	Dm @2d/m = 10m @2 095 = 10m 15-4085 = 5 = 10m 4115 = 10r 15-4105 = 4105-409 CH 4095-	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		

A9295	Vorks se Slab (10m/bay, 10m separation with benching excavati		Duration			Float	Q4	-		2015	1	-	2016	
From West Ba					-		14	01	Q2	Q3	Q4	Q1	Q2	Q3
A9295	se also I runnbay, runn separation with benching excavation		_						-					
		<b>3</b> 01						1000						
	WB From West, Base Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d	1	WB From	m West, Base Slab	CH 3990 - 3995 =	5m bay			
A9320	WB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Feb-15 08	13-Feb-15 18	30d	4.444	WB F	rom West, Base S	Slab CH 3995 - 400	5 = 10m/bay			
A9255	WB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d	and a state		NB From West, Ba	ase Slab CH 4005 -	4015 = 10m/bay			
A9260	WB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d		- 1	WB From Wes	t, Base Slab CH 40	015 - 4025 = 10m/b	ay		
A9265	WB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d	1111		WB From	West, Base Slab C	H 4025 - 4035 = 10	)m/bay		
A9300	WB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 0B	09-May-15 18	20d	11111		WB Fr	om West, Base Sla	b CH 4035 - 4045	= 10m/bay		
A9325	WB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d			E W	B,From West, Base	Slab CH 4045 - 4	055 = 10m/bay		
A9305	WB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d				WB From West, B	ase Slab CH 4055	- 4065 = 10m/bay		
A9310	WB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Od				WB From Wes	t Base Slab CH 40	65 - 4075 = 10m/bay		
A9315	WB From West, Base Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Dd				WB From W	est, Base Slab CH	4075 - 4080 = 5m		
From East Bas	e Slab (10m/bay, 10m separation with benching excavation	(חג			1	-	1	-		-	1		_	
	WB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d			WR Fro	m East, Base Slab	CU 4125 4125 -	Danthau		
	WB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d						1201		
	WB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d	at strong		1	From East, Base S	R. States			
				1	1	1.654				WB From East, Bas				
	WB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d	1		1 7			5 - 4095 = 10m/bay		
	WB From East, Base Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d			- R	WB From Eas	t; Base Slab CH 40	095 - 4085 = 10m/bay		
A9941	WB From East, Base Slab CH 4085 - 4080 = 5m	7d/wk-1a	10d	05-Jul-15 08	14-Jul-15 18	6d			200	WB From E	ast, Base Slab CH	4085 - 4080 = 5m		-
Lining (5m/bay	y. 10m separation with base slab)								1			1		
A9430	WB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d		I WE	3 From West, Linin	g CH 3990 - 3995	= 1bay			
A9470	WB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d		<b>E</b> W	B From West, Lini	ing CH 3995 - 4000	) = 1bay			
A9435	WB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d			WB From West, Li	ning CH 4000 - 401	05 = 1bay			
A9360	WB From West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d			WB From West, I	Lining CH 4005 - 4	010 = 1bay			
A9365	WB From West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d		1.1	WB From West	Lining CH 4010 -	4015 = 1bay			
A9370	WB From West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d			WB From Wes	st, Lining CH 4015	4020 = 1bay			
A9375	WB From West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d	1111		WB From W	est, Lining CH 402	0 - 4025 = 1bay			
A9380	WB From West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d			WB From V	Vest, Lining CH 40	25 - 4030 = 1bav			
	WB From West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d			1.200	West, Lining CH 4				
and the second sec	15 of 18				and the same		12		repared by William					_

Acti	tivity Name		Calendar	Original	Start	Finish	Total			2	015		-		2016	
				Duration	11		Float	Q4	Q1	Q2	Q3		24	Q1	Q2	Q3
WB	B From West, Lini	ng CH 4035 - 4040 = 1bay	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d	Sec. A		WB From	West, Lining C	CH 4035 - 40	40 = 1bay	-		
WB	B From West, Lini	ng CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d			WB Fro	m West, Lining	CH 4040 - 4	045 = 1ba	ay		1
WB	B From West, Lini	ng CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			WB F	rom West, Linin	g CH 4045 -	4050 = 1	ау		
WB	B From West, Lini	ing CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d			WB	From West, Lin	ing CH 4050	- 4055 =	bay		
WB	B From West, Lin	ng CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 08	27-May-15 18	30d			WE WE	From West, Li	ning CH 405	5 - 4060 =	1bay		
WB	B From West, Lini	ing CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d			a w	B From West, I	Lining CH 40	60 - 4065	= 1bay		
WB	B From West, Lini	ing CH 4065 - 4070 = 1bay	7d/wk-1a	5d	04-Jun-15 08	08-Jun-15 18	30d				VB From West,	Lining CH 4	065 - 407	0 = 1bay		
WB	B From West, Lin	ing CH 4070 - 4075 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od			and an	WB From	n West, Linin	g CH 407	0 - 4075 = 1bay		
WB	B From West, Lin	ing CH 4075 - 4080 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	Od	1111		Ince for	WB Fro	m West, Lini	ng CH 40	75 - 4080 = 1bay		
WB	B From West, Lin	ing CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	Od	100		1	1.0			080 - 4085 = 1bay	e	
WB	B From West, Lin	ing CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od	1		1				1085 - 4090 = 1ba		
WB	B From West, Lin	ing CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Od							4090 - 4095 = 1b	1	
		ing CH 4095 - 4100 = 1bay	7d/wk-1a		05-Aug-15 08	09-Aug-15 18	DO							4095 - 4100 = 18	( III )	
1	and an end of the	ing CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	1			1			H 4100 - 4105 = 1		
		ing CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d							CH 4105 - 4110 =		
		ing CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od								12	
		-		5d	1		100				1		100	CH 4110 - 4115 =	1.	
		ing CH 4115 - 4120 = 1bay	7d/wk-1a		25-Aug-15 08	29-Aug-15 18	Od				1	1		g CH 4115 - 4120		
		ing CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d	1		i i				19 CH 4120 - 4125		
		ing CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od	đ.			1			ing CH 4125 - 413		
WE	B From West, Lin	ing CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	1			1	WB From	1 West, Li	ning CH 4130 - 41	35 = 1bay	
WE	B From West, Lin	ing CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	Od					WB From	m West, L	ining CH 4135 - 4	136.5 = 1bay	
bay) /	/ Utility Trough											1			1	
WE 10r	/B From West OH )m/bay @ 7d/bay	VD and utility trough =, 153= 16 bays @	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	Od					-	WB From	n West OHVD and	d utility trough =, 1	53= 16 bays @
-	D10-Section 5				-					1					1	
KD	D10- Section 2: Co arget KD10- 2 Nov	empletion of Mined Tunnel Works (orig.	7d/wk-2	b0		02-Nov-15 18*	b0					٠	KD10- S	ection 2: Completi	on of Mined Tunne	Works (orig. T
-	s with other	Charles and the second s					- 1				-					
Ha	andover TZ6 to M	TR	7d/wk-2	Od	-	30-Sep-14 18	-249d	Handover T	Z6 to MTR							
Ha	andover TZ4 to C	WB(T2)	7d/wk-2	Dd		10-Nov-14 18	-290d	Har	ndover TZ4 to CWI	B(T2)						
Pro	rovide access to C	WB (CC) Contractor- TS1 & TS2	7d/wk-2	Od		21-Nov-14 18*	-85d	• P	rovide access to C	WB (CC) Contractor	- TS1 & TS2				1	
Per Der		16 of 18				-				Prepared by William	n Caluza		-	]		
						10.000			Date	Revision		Approved				
Vork		China	State Construc	ction En	gineering (Hor	ng Kong) Ltd			26-Sep 1st sub	mission			567	中國連 梦.	工程(重法)	オロハラ
ing We	Vork	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	seway Bay Typ	hoon She	elter Section)								
Remai	aining Work												-			
Vork ing We	of Effort Vork	China		y Pass -		seway Bay Typ	hoon Shi	elter Section)	Date	Revision		Approved	allea			中國連幕工程(春港) CHINA STATE CONSTRUCTION ENGINEERING

ctivity ID	Activity Name	Calendar	Original Duration	Start Finish	Total Float				015	· · · · · · · · · · · · · · · · · · ·		2016	
S6 5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined	7d/wk-2	Od	31-Mar-16 18*	-124d	Q4	Q1	Q2	Q3	Q4	Q1	Q2 Provide access	Q3
	Tunnel							-					
Stage and	Section Completion					1.0		1.					
KD_5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	DO	30-Sep-14 18*	-86d	KD8 - Completic	n of Section 3, (	(1326d)				1	1.000
KD_5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	b0	16-Oct-14 18*	-323d	<ul> <li>KD5 - Achiev</li> </ul>	ement of Stage	5, (1152d)					
KD_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d	17-Nov-14 18*	-353d	♦ KD13	Completion of	Section 7B, (1152d)				ā.	1
KD_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	b0	17-Nov-14 18*	-297d	♦ KD7 -	Completion of S	ection 2, (1152d)		i			
KD_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	0d	10-Nov-15 18*	-132d					KD9 -	Completion of Se	ction 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	Od	25-Mar-16 18	-144d							KD10 - Comple	tion of Section 5, e
KD_5750	KD11 - Completion of Section 6, (1949d)	7d/wk-2	Dd	23-May-15 18*	-121d							♦ KD	1 - Completion of
Portion Ha	andover Date		-						1				
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	0d	28-Oct-14 18*	-50d	Portion Ha	andover - Portion	n IV(4), KD8 +28					
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	Dd	28-Oct-14 18*	-50d	Portion Ha	andover - Portic	en V (5), KD8 +28			1		
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	Dd	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n VI (6), KD8 +28					
CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	Od	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n XIIIB (13B), KD8 -	+28				
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	Od	28-Oct-14 18*	-50d	Portion Hr	andover + Portio	n XXII (22), KD8 +2	8				
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n III (3), KD8 +28					
CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	0d	15-Dec-14 18*	-79d	•	Portion Handove	er - Portion XIIIA (13	3A), KD7 +28				
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Dd	15-Dec-14 18*	-79d	•	Portion Handove	er - Portion VIII (8),	KD7 +28				
CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	Od	15-Dec-14 18	-79d	•	Portion Handove	er - Portion XIVA (14	4A), KD7 +28				1
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	bd	15-Dec-14 18	-79d		Portion Handov	er - Portion XV (15).	KD7 +28				1
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	Dd	15-Dec-14 18	-79d	•	Portion Handov	er - Portion XXIII (23	3), KD7 +28				· · · ·
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	Od	30-Nov-15 18	• Od					• P	ortion Handover -	Portion XVIII (18),	KD10 +28
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	Od	27-Dec-15 18	Dd	1.110					Portion Hand	over - Portion XI (1	), KD9 +28
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d							Portion H	andover - Portion
CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d					1		Portion H	andover - Portion
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d							Portion H	andover - Portion
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2	Dd	22-Apr-16 18*	-52d	all and a second						Portion H	andover - Portion
CD_5760	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2	0d	22-Apr-16 181	-52d							Portion H	andover - Portion
CD_5780	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2	Dd	22-Apr-16 18	-52d							<ul> <li>Portion H</li> </ul>	andover - Portion
Actual Actual Actual Rema	Work ining Work Contract No. HY/2009/15 - Central I Remaining Work	I Wan Chai E	By Pass -	gineering (Hong Kong) Ltd Tunnel ( Causeway Bay Ty RAMME REV. M	phoon St	26	Date 8-Sep 1st subi	Prepared by Willian Revision mission	n Caluza Checked Ap	oproved		工程(哥港	

Activity ID	Activity Name	Calendar			Finish	Total			20	015			2016	1
			Duration		1. The second	Float	 Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
CD_5690	Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	Od								Portion Handov
CD_5725	Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d	1	20-Jun-16 18	b0								Portion Handov
CD_5715	Portion Handover - Portion X (10), KD11 +28	7d/wk-2	Dd	1	20-Jun-16 18	Od								Portion Handov
CD_5785	Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	Dd		20-Jun-16 18	Od								Portion Handov
CD_5795	Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	b0	1	20-Jun-16 18	Od								Portion Hando

Summary Bar	18 of 18	1	Prepared by William	n Caluza			
and the second se		Date	Revision	Checked	Approved		
Actual Level of Effort	China State Construction Engineering (Hong Kong) Ltd	26-Sep	1st submission			-	
Actual Work						LINE.	中國連禁工程(香港)有限公司
Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	-				1000040	CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LT
Critical Remaining Work		-					
Milestone	WORKS PROGRAMME REV. M					1	

## CEDD CONTRACT HK/2009/02

wity ID Ar	ctivity Name	uC gnO	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float Calen	dar					
			Actual Start	Actual Finish		-	Aug	2015	-		
	ng Programme 2015-08-20 (dd 20-Aug-15)									NDV	Dec
	es (Revised up to EOTO No.12 issued on 15-Jun-15)										
Contractual Completion											
Soft Landscaping & Esta	ection 98 Works (2105 days) - CWB Structure (CH3400 Eastward) (3-Nov-15)	<u>a</u>		03-Nov-15*	0 Calen	dar Day		1	Section 98 V	Norks (2105 days) - CW	B Structure (CH34)
	action 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15)								1 Providence and	and for the online of the	o o nacione ( Grider
Possession of Site	accounted there (1996 pays) - Categorianianic vicing in Area e (10-Feb-15)	0		20-Aug-15+	-192 Calen	dér Day	Section 8D Works (1838 days) + Establishment W	Vorks in Area 8 (10-Feb-15)			
P\$0070 Po	ossession of Portion 7 - Eastern Bulkhead	0	16-Sep-15*		-60 Calen						
Preliminaries			To-alip-ta		-b0 Calen	dar Day	Possession of	Portion 7 - Eastern Bulkhead			
Interface with Others											
PRE0950 Pe	ermanent Diversion of Box Culvert M by HK/2009/01	0		30-Aug-15*	-469 Calem	the Date					
Critical Submission & A		~		pointing. to		dar Day	Permanent Diversion of Box Culvert	M by HK/2009/01			
	emp Covered Walkway Capping Beam - Design Approval by AEGOM	30	19-Jun-13 A	18-Sep-15	348 Calan	dar Dav		La materia a ser			
	emp Covered Walkway Cover System (PS30.5) Design Approval by AECOM	30	12-Jun-14 A	16-Sep-15	348 Calen		Temp Covered	Wakway Capping Beam - De	sign Approval by AECOM		
CSD for CWB Tunnel							ventp covered	Wakway Cover System (PS.	20.5) - Design Approval by A	AECOM	
PRE-CSD-20308 Tu PRE-CSD-30008 Tu	unnel Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AEC	60	16-Nov-13 A	28-Aug-15	67 Caleni	dar Day	Tunnel Potion 2 - Redesigned CWB T	unner Structure Design Subm	ssion Annoval by AFCOM		
	unnel Portion 384 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO	30	08-Jun-13 A.	11-Sep-15	53 Calan		Tunnel Portion 364 -	Redesigned Temp D-Wall Su	britisaion Approval by AECC	M&GEO	
	unnel Portion 384 - ELS Submission Approval by AECOM & GEO unnul Portion 5 - Temp D-Walt Submission Approval by AECOM & GEO	60	17-Jan-14 A	18-Sep-15	-316 Caleni		Tunnel Portio	on 384 - ELS Submission App	roval by AECOM & GED. T	unnel Portion 384 - ELS	Submission Appr
	unnel Portion 5 - ELS Submission Approval by AECOM & GEO	60	15-Aug-13 A	21-Sep-15	-389 Caleni		Tunnel P	ortion 5 - Temp D-Wall Subm	ission Approval by AECOM	& GEO, Tunnel Potion	5- Temp D-Wall S
	ks - Reprovisioning of Government Helipad and Public Toilet	au.	09-Apr-15 A	17-0d-15	-363 Çaleni	dar Day		Tunne	Portion 5 - ELS Submissio	n Approval by AECOM	& GEO, Tunnel Pa
Outstanding Works	the second										Contraction of the line
	ninstatement of armout rock, retaining walls & new covered walkway along Expo Drive East	254	11. 1	-	a state of the state						
ection 9B of the Wo	rks - CWB Tunnel Structure (CH3400 - CH3796)	2.34	11-Mug-12 A	01-May-10	-287 Calen:	dar Day					
Funnel Portion 1 (CH35											
CWB Structural Works											
	amove Inclined Struts and King Posts (Bay 1 to Bay 6)	45	29-Jun-15 A	31-Aug-15	-43 HK W	ation Day		and and set			
	onstruct Roadside Barriers (Bay 1 to Bay 5)	30	19-Nov-15	23-Dec-15	-43 HK W		Remove Inclined Struts and King P	osts (Bay 1 to Bay 6). Remove	e Inclined Struts and King Pl	osts (Bay 1 to Bay 6)	
Tunnel Portion 2 (CH34)	25-CH3500)				- The Factor	aning cray.					
CWB Structural Works											
	prestruct Roadside Barriers (Bay 1 to Bay 6)	65	01-Sep-15	18-Nov-15	-43 HK Wa	orking Day	and a second	Contraction Contraction			2000000000
Bay 1 S9B-T2-B1-3260 Ro	oof - Waterproofing									Construct Roads &	de Barners (Bay 1)
	oof - Scatfolding Dismanting		01-Sep-15*	04-Sep-15	-23 HK We		Roof - Waterproofing, Roof - V	Valerproofing			
Boy 2	or standing pananting	3	20-Aug-15	22-Aug-15	14 HK W	xking Day	Roof - Scatfolding Dismanting	1.00.2			
	ool - Waterproofing	4	05-Sep-15	09-Sep-15	.93 HK Wa	which Day			******************		
\$98-T2-82-3220 Ro	ool - Scaffolding Dismantling	3	20-Aug-15	22-Aug-15	14 HK Wa		Roof - Scaffolding Dismantling				
Bay 3							The second standing standing				
	oof - Waterproofing	4	10-Sep-15	14-Sep-15	93 HK W		Roof - Waterproof	ling.			
598-12-83-3220 Ro Boy 4	our - Scatfolding Dismantling	3	20-Aug-15	22-Aug-15	14 HK Wa	xking Day	Roof - Scatfolding Dismanting	1			
	sof - Formwork		19-Jul-15 A	20 Aug 26				And a state of the			
	of - Rebar Faxing	10	27-Aug-15	26-Aug-15 07-Sep-15	-14 HK Wa		Roof - Formwork, Roof - Formwork	2.21.2.2.2			
\$98-T2-84-3200 Ro	of - Concrete & Curing	14	08-Sep-15	21-Sep-15	-14 HK Wo -17 Calence		Roof - Rebar Fixing, Roof -		10.00 M		
	sal - Waterproofing	4	22-Sep-15	25-Sep-15	83 HK.Wa			rente & Curing, Roof - Conc - Waterproofing	rete & Curing		
\$98-12-84-3220 Ro	of - Scaffolding Dismanting	3	22-Sep-15	24-Sep-15	-14 HKW0			- Scatfolding Dismantling, Roc	The second second second		
Bay 5 \$98-12-85-3110 OF							- NOO	Scanobing Dismanning, Ko;	r - scatolong Dismanting		
	HVD Base Stat Scattolding Erection	4	18-Aug-15 A	21-Aug-15	-46 HK Wo		OHVD Base Slab - Scalfolding Erection, OHVD	Base Slab - Scattolding Erect	ón		
	HVD Base Stab - Waterproofing to Upper Side Wat HVD Base Stab - Formwork	3	20-Aug-15	22-Aug-15	-46 HK Wo		OHVO Base Slab - Waterproofing to Upper Sid	Wall. OHVD Base Stab - W	Aterpropling to Upper Side V	Nall	
	HVD Base Slab - Rebar Fixing	3	24-Aug-15 27-Aug-15	25-Aug-15 31-Aug-15	-46 HK Wo		OHVD Base Slab - Fornwork, OHVD Bas	e Slab - Formwork			
	IVD Base Slab - Concrete, Curing & Formwork Dismantiling	14	01-Sep-15	14-Sep-15	-46 HK Wo -54 Calend		OHVD Base Siab - Rebar Fixing, O	WD Base Slab - Reber Fixing	1		
\$98-T2-85-3160 QH	HVD Hanger Wall - Formwork, Rober & Concrete	3	04-Sep-15	07-Sep-15	-40 HK W2		OHVD Base Slab	Concrete, Curing & Formwor	k Dismanilling, OHVD Base	Slab - Concrete, Curing	& Formwork Desn
\$98-T2-85-3170 Ro	oof - Scattelding Erection for Roof	7	15-Sep-15	22-Sep-15	-46 HK WC		OHVD Hanger Wall - Form	work, Rebar & Concrete, OH	/D Hanger Wall - Formwork	Rebar & Concrete	
							Roof-S	calfolding Erection for Root, R	toot - Scallolding Erection to	ar Roof	_
<ul> <li>Milestone</li> </ul>								Date	Revision	Chiefer	1 4-
<ul> <li>Critical Milestor</li> </ul>	nes							20-Aug-15	3MRP	Checked	Approved
Current Works	CHUN WO - CRGL			0		NTD AOT NO	111/10000100	ev nug- 10	amiter		-
	CHON WO - CROL			UL	-00 00	NIRACINC	). HK/2009/02				
Critical Works			Dar Lo N	Sec. 15.	3			-	2.12	-	
	JOINT VENTURE	V	VDII-C	entral V	Vanchai	Bypass at 1	Nan Chai East (Contract 2)				
	A DATE THE ADAL PARTY AND		C.C. Conta			-Jhanes at	(ounder Last (ounder 2)	2	1		
			2 1	IONTH	DOLLIN	C DDOOD	MME (dd 20-Aug-15)		144		

Page 1 of 2

## CEDD CONTRACT HK/2009/02

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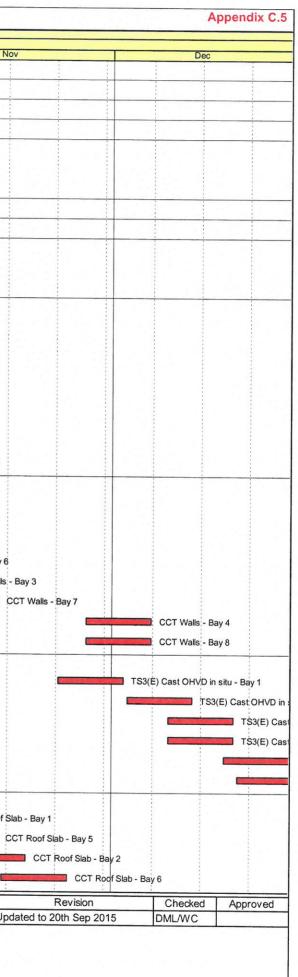
	Activity Name	Ong Du	Scheduled	Schedulad/	Total Float Calendar			
and the second			Actual Start	Actual Floish	Total Float Galendar			
S98-72-85-3180	Roof - Formwork	9	23-Sep-15	05-0d-15		Aug	Sep	2015 Oct Nov 544
S98-72-85-3190	Roaf - Rebar Fixing	10	06-0d-15	15-Oct-15	-46 HK Working Day			Rool - Formwork, Rool - Formwork
S98-T2-85-3200	Roof - Concrete & Curvig	14	17-0:1-15	30-Oct-15	-46 HK Working Day		and the second se	Roof - Rebar Fixing, Roof - Rebar Fixing
\$98-T2-85-3210	Roof - Waterproofing		31-0d-15	30-Oct-15 04-Nov-15	-56 Calendar Day			Roof - Concrete & Curing, Roof - Concrete & Curing
\$98-T2-85-3220	Roof - Scatfolding Dismanting	3	31-0d-15		48 HK Warking Day			Root - Cancrete & Curring, Root - Concrete & Guring
Bay 6		a	31-0d-15	03-Nov-15	-45 HK Working Day			
S98-T2-66-3170	Root - Scattolding Erection for Root	7	15-Sep-15		and the second	4 * * 1 * 4 * * * * * * * * * * * * * *		Roof - Scattolding Dismantling, Roof - Scattolding
\$98-T2-86-3180	Roof - Formwork			22-Sep-15	-46 HK Working Day	and the second s	Roof -	Scattolding Erection for Roof, Roof - Scattolding Erection for Roof
S98-T2-B8-3190	Roof - Rebar Fixing	-	23-Sep-15	05-0d-15	-46 HK Working Day			Roof - Formwork, Roof - Formwork
\$98-T2-86-3200	Roof - Concrete & Currog	10	06-Oct-15	16-Dd-15	-46 HK Working Day			Roof - Rebar Fixing, Roof - Rebar Fixing
\$95-T2-B5-3210	Roof - Waterproofing	16	17-0ct-15	30-Od-15	-56 Calendar Day			
598-T2-86-3220	Roof - Scalfolding Dismantling	. 4	05-Nov-15	09-Nov-15	48 HK Working Day			Roof - Concrete & Curing, Roof - Concrete & Curing
unnel Portion 3.8	Tunnel Portion 4 (CH3630-CH3790)	3	31-Od+15	03-Nov-15	-45 HK Working Day			Roof - Waterproofing
WB Structural Wor	de la							Roof - Scaffolding Dismanting, Roof - Scaffolding
S98-T34-20008								
S9B-T34-3500	Turnel Portion 3 & 4 Excavation to Formation Level (200.000m3 soil and rock@1100m3/d) &	182	13-Feb-15 A	14-Nov-15	-298 HK Working Day			
Bay 1	Rock Excavelion and Rock Boll Installation	21	10-0d-15	04-Nov-15	-255 HK Working Day			Tunnet Portion 3 & 4 Excavation to F
S98-T34-B1-1000	Trem Rowell Dia & Disation Law Co. B.				Contracting Car	Thereeteeteeteeteeteeteeteeteeteeteeteetee		Rock Excevation and Rock Bolt Installation, Rock
	Trim Bored Pite & Blinding Layer for Bay 1 and Bay 2 Base Slab	5	02-Nov+15	06-Nov-15	-365 Calendar Day			
	Works - Remainder of Works				and the second			Trim Bond Pile & Blinding Layer for Bay 1 and
larine Works at Wo					-			
\$11-R3-1300	1st Stage Rockfilling after Removal of unknown metal objects	40	14-Jul-16 A					
11-R3-1400	Installation of Permanent Seawall (5 nos.)	14		20-Sep-15	-602 Calendar Day		1st Stage	Rockfilling after Removal of unknown metal objects, 1st Stage Rockfilling after Removal of unknown
11-R3-1500	2nd Stage Rockfilling after installation of Caisson Seawall	40	21-Sep-15	08-0d-15	-480 HK Working Day			Installation of Beneval of Installation of Control of University of University of University of Control of University of Control of University of Control of University of Control of Contr
S11-R3-1600	Tat Reclamation to +7.0mPD		09-Oct-15	25-Nov-15	-480 HK Working Day			Installation of Permanent Seawall (5 nos.), Installation of Permanent Seawall (5 no
S11-R3-1700	Installation of Permanent Seawall Block	39	20-Aug-15	06-Oct+15	-438 HK Working Day			2nd Stage Rockfling a
ormation and Hard	Landscaping Works (except Area 10)	14	09-Oct-15	26-Od-15	-424 HK Working Day			1st Reclamation to -7.0mPD, 1st Reclamation to -7.0mPD
511-FM-2000A	Tunnel Portion 2 Backfilling (35,000m3; 350m3/d)							Installation of Permanent Seawall Block. Installation of Perma
		:95	10-Nov-15	12-Feb-16	64 Calendar Day			
	& Establishment Works			and the local data				
ection 8C of the W	orks - Landscape Softworks in Area 8							
SBC-0010	Carry out landscape soft work on new ferry plot	90	07-0d-14 A				the standard have been a second	
ection 8D of the We	orks - Establishment Works in Area 8	20	07-00-14 A	22-Aug-15	-560 Calendar Day		Carry out landscape soft work on new ferry pie	Carry out landscape soft work on new ferry pler
8D-0010	Carry out establishment work on new ferry pier							a second second second second bed
ection 12 of the Wo	orks - Protection and Preservation of Existing Trees	365	23-Aug-15	Z1-Aug-16	-560 Calendar Day			
12-0010	Protection and preservation of existing trees							
JMMARY PROGR		2375	24-Feb-10 A	29-Aug-16	0 Calendar Day			
WB Tunnel Constru	uction & Remaining Works (Section 9A, 9B, 10 & 11)							
WB Tunnel Works in	n WCR2							
SUM-CWB-23000	CWB Tunnel Portion 2 Construction	:261	19-Jan-15 A	30-0d-15				THE REPORT OF A DESCRIPTION OF A DESCRIP
5UM-CWB-24000	Backfilling for Tunnel Podion 2	95	10-Nov-15		-55 Galendar Day			
WB Tunnel Works in	n WCR3	83	10-100-15	12-Feb-16	64 Calendar Day			
SUM-CWB-30000C	Reclamation at WCR3	174	and the second second					
IAID TO DO DO DO DO	n WCR4/TWCR4	174	14-Jul-15 A	28-Jan-16	-600 Calendar Day			
Was runner works in	Pump Test & Excavation for Tunnel Portion 384	230	the second s	-			14 · L · · · · · · · · · · · · · · · · ·	
UM+CWB-42000			13-Feb-15 A	14-Nov-15	-373 Calendar Day			

Milestone     Critical Milestones     Current Works     Critical Works	CHUN WO - CRGL JOINT VENTURE	CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (dd 20-Aug-15)	Date 20-Aug-15	Revision 3MRP	Checked	Approved
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ity ID	AU30-1			SR8 -	Layout for 3MRP_210	5_09		
	Activity Name	Origina Duration	I Start	Finish			0015	
OWP-06 (A) -	Three Months Rolling Programme_updated up to 20-Sep-15				Sep	Oct	2015	
Works in TS3								
Works in TS3-E	ast							
ELS								
TS3-East ELS N	Norks							
TS3E_5660	ELS Layer 7 - Soft Excav + Strut installation	10	24-Aug-15 A	21-Sep-15 A				
TS3E_5670	Excavation up to Formation Level (No Rock as Rock Head Level is far below F.L.)	6	03-Sep-15 A	22-Sep-15 A		_S Layer 7 - Soft Excav + Strut installation		
Cut & Cover Tu	innel Structure		ee cop terr	22-06p-107		Excavation up to Formation Level (No Rock as Rock Head	Level is far below F.L.)	
TS3-East CCT -	- Ch.4500.000 to Ch.4582.140							
TS3 East CCT	- Blinding + Waterproofing							
TS3E_6515	TS3(E) Blinding - Bay 1 - 8	8	14-Sep-15 A	27-Sep-15				
TS3E_6525	TS3(E) Waterproofing - Bay 1 - 8	12	22-Sep-15 A	01-Oct-15		TS3(E) Blinding - Bay 1 - 8		
TS3 East CCT	- Base Slab + Drainage System	12	22-36p-13 A	01-061-15		TS3(E) Waterproofing - Bay 1 - 8		
TS3E_6570	CCT Base Slab - Bay 1 (Ch.4500.000 to Ch.4510.000)	8	22 Son 15 A	01.0-1.15				1.1
TS3E_6610	CCT Base Slab - Bay 5	8	23-Sep-15 A	01-Oct-15		CCT Base Slab - Bay 1 (Ch.4500.000 to C	h.4510.000)	
TS3E_6580	CCT Base Slab - Bay 2		30-Sep-15	07-Oct-15		CCT Base Slab - Bay 5		
TS3E_6620	CCT Base Slab - Bay 6	8	02-Oct-15	09-Oct-15		CCT Base Slab - Bay 2		
TS3E_6590	CCT Base Slab - Bay 3	8	08-Oct-15	15-Oct-15		CCT Base Slab	Bay 6	
TS3E_6630	CCT Base Slab - Bay 7	8	10-Oct-15	17-Oct-15		CCT Base S	ab - Bay 3	
TS3E_6600	CCT Base Slab - Bay 4	8	16-Oct-15	23-Oct-15			CT Base Sab - Bay 7	
TS3E 6640	CCT Base Slab - Bay 8	8	18-Oct-15	25-Oct-15			CCT Base Slab - Bay 4	
-	- Walls + Removal of Struts 7 & 8	8	24-Oct-15	31-Oct-15			CCT Base Sia	ab - Bay
TS3E_6650	CCT Walls - Bay 1							
TS3E 6690	CCT Walls - Bay 5	10	10-Oct-15	19-Oct-15		CCT Wait	s - Bay 1	
TS3E_6660	CCT Walls - Bay 2	10	16-Oct-15	25-Oct-15			CCT Walls - Bay 5	
TS3E_6700		10	20-Oct-15	29-Oct-15			CCT Walls - Bay	2
TS3E_6670	CCT Walls - Bay 6	10	26-Oct-15	04-Nov-15			ссти	Valls - E
	CCT Walls - Bay 3	10	30-Oct-15	08-Nov-15				CCT V
TS3E_6710	CCT Walls - Bay 7	10	05-Nov-15	14-Nov-15				4.2. 19
TS3E_6680	CCT Walls - Bay 4	10	27-Nov-15	06-Dec-15				
TS3E_6720	CCT Walls - Bay 8	10	27-Nov-15	06-Dec-15				
and a second	OHVD Cast In-Situ							
TS3E_6860	TS3(E) Cast OHVD in situ - Bay 1	10	23-Nov-15	02-Dec-15				
TS3E_6870	TS3(E) Cast OHVD in situ - Bay 2	10	03-Dec-15	12-Dec-15				
TS3E_6880	TS3(E) Cast OHVD in situ - Bay 3	10	09-Dec-15	18-Dec-15		집에 이 옷을 많이 다 가슴을 가지?		
TS3E_6900	TS3(E) Cast OHVD in situ - Bay 5	10	09-Dec-15	18-Dec-15				
TS3E_6890	TS3(E) Cast OHVD in situ - Bay 4	10	17-Dec-15	26-Dec-15				
TS3E_6910	TS3(E) Cast OHVD in situ - Bay 6	10	19-Dec-15	28-Dec-15				
TS3 East CCT -								
TS3E_6730	CCT Roof Slab - Bay 1	10	30-Oct-15	08-Nov-15				CCT R
TS3E_6770	CCT Roof Slab - Bay 5	10	05-Nov-15	14-Nov-15				100000
TS3E_6740	CCT Roof Slab - Bay 2	10	09-Nov-15	18-Nov-15				
TS3E_6780	CCT Roof Slab - Bay 6	10	15-Nov-15	24-Nov-15				
	Actual Wor	-12		Daniel ( 5				
				Page 1 of 5			Date 20-Sep-1	
中图.	建築工程( <b>香港)</b> 介限公司 TE CONSTRUCTION ENGINEERING (HONG KONG) LTD. ◆ Milestone		rk	Contract No	. HY/2010/08: 0	entral - Wanchai Bypass Tunnel +		5
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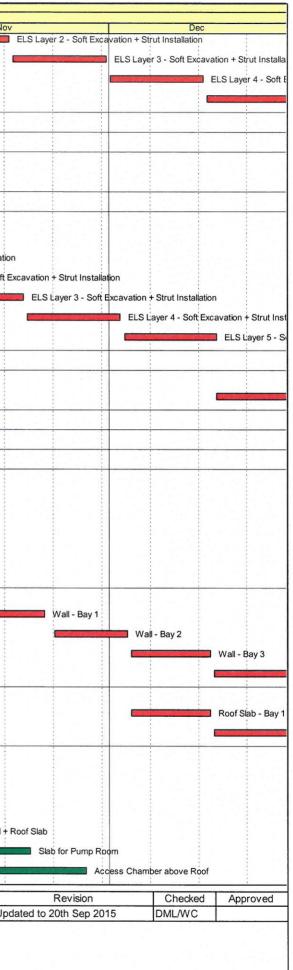
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		Original Duration		Finish				2015	
TS3E_6750	CCT Roof Slab - Bay 3	10	19-Nov-15	28-Nov-15	Se		Oct	2013	
TS3E_6790	CCT Roof Slab - Bay 7	10	25-Nov-15	04-Dec-15					
TS3E_6800	CCT Roof Slab - Bay 8	10	07-Dec-15		_				
TS3E_6760	CCT Roof Slab - Bay 4			16-Dec-15					
TS3 East CCT - R	Roof Slab Waterproofing + Screeding	10	07-Dec-15	16-Dec-15					
TS3E_6810	TS3(E) Waterproofing to Roof Slab - Bay 1 to Bay 4			Partie A					
TS3E_6840	TS3(E) Screeding - Bay 1 to Bay 4	12	09-Dec-15	20-Dec-15					
TS3E_6820		12	13-Dec-15	24-Dec-15					
	TS3(E) Waterproofing to Roof Slab - Bay 6 to Bay 8	12	13-Dec-15	24-Dec-15					
TS3E_6850	TS3(E) Screeding - Bay 6 to Bay 8	12	17-Dec-15	28-Dec-15					
orks in TS3-Wes	t								
liaphragm Wall									
TS3-West Pre-D/w	all Works								
TS3W_2540	Guidewall construction	106	11-Feb-15 A	25-Sen-15					
TS3W_2530	Curtain grout/soil pre-treatment/slurry wall		12-Feb-15 A			1	vall construction		
S3-West Diaphra	gm Construction	107	12-1 ED-13 A	20-Sep-15	4	Curta	ain grout/soil pre-treatment/slurry wall		
TS3W_3120	Diaphragm wall construction Phase 2 (84/137 panels)								
S3-West Post D/w		152	03-Jun-15 A	14-Nov-15					
TS3W_3530	D/wall integrity test	100	04-Jun-15 A	13-Dec-15					
TS3W_3510	D/wall Interface coring + grouting	100	06-Jun-15 A	12-Dec-15					
TS3W_3520	D/Wall Coring + fissure grouting	100	24-Jun-15 A	01-Jan-16					
TS3W_3540	Dewatering & observation well installation	36	10-Oct-15	14-Nov-15					
TS3W_3550	Pumping test	7	15-Nov-15	21-Nov-15	-				
S& Rock Exca	vation								
LS Fabrication We	orks								
TS3W_4510	ELS struts & waling fabrication								
3-West ELS Wor		75	17-Sep-15 A	30-Nov-15			· · · · · ·		
S3W_4515									
	King Post installation	45	18-May-15 A	30-Nov-15					
S3W_4520	Start of ELS - Layer 1: Soft excavation struts installation	15	01-Dec-15	15-Dec-15					8 8 9
rS3W_4530	Layer 2: Soft excavation struts installation	15	16-Dec-15	30-Dec-15					
rks in SR8 (O	pen Cut Method)								
8 - Cofferdam &	Cut & Cover Tunnel Works					-			
8 East Bound - (	Seaside to Victoria Road / IEC Central Divider)					-			
TA Stage 2 - East I									
itage 3 - East Bou	ind (Ref. DRG. No.CDD/SR8/084)								
	Install Dewatering Wells and Observation Wells								
SR8.EB.1520	Carry out Pump Test	6	03-Sep-15 A	26-Sep-15		Instal	Dewatering Wells and Observation Wel	ls	
		6	29-Sep-15	06-Oct-15			Carry out Pump Test		
	nd (Ref. DRG. No.CDD/SR8/084)								
	Carry out Stage 4 Pipe Piling Works	36	05-Sep-15 A	30-Sep-15			Carry out Stage 4 Pipe Piling Works		
SR8.EB.1500	Carry out Stage 4 Tam Grout	14	02-Oct-15	17-Oct-15				It Stage 4 Tam Grout	
nnel Ch.514.500 t	o Ch.459.000 (East Bound) - ELS / CCT / BF + Reinstatement Works					-	Carry of	t Stage 4 Talli Stou	
LS Works									
SR8.EB.1610	Commence ELS works (Cofferdam Complete)	0	19-Oct-15						
	ELS Layer 1 - Soft Excavation + Strut Installation						Comr	nence ELS works (C	Cofferdam Complete)
		12	19-Oct-15	02-Nov-15					ELS Layer 1 - Soft E
				1					
		ctual Work		Page 2 of 5				T	Date
<b>中國</b> 選		ctual Work emaining Work		Page 2 of 5					Date 20-Sep-15 U

v			Dec	_	_
		Slab - Bay 3	-		
		CCT Roof Sk	ab - Ba	ay 7	
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aphragm wall construction	n Phase 2	(84/137 pan	els)		
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ewatering & observation	vell installa	tion	-		
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Pumping test					1 1 1
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Pumping test					ELS - L
Pumping test		tinstallation		Start of	
	King Pos			Start of	ELS - L

D	Activity Name	Original Duration		Finish			2015	
SR8.EB.1621	ELS Layer 2 - Soft Excavation + Strut Installation	12	03-Nov-15	16-Nov-15	Sep	Oct		No
SR8.EB.1622	ELS Layer 3 - Soft Excavation + Strut Installation	12	17-Nov-15	30-Nov-15				
SR8.EB.1623	ELS Layer 4 - Soft Excavation + Strut Installation	12	01-Dec-15	14-Dec-15				
SR8.EB.1624	ELS Layer 5 - Soft Excavation + Strut Installation	12	15-Dec-15	30-Dec-15				
R8 West Bound	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)							
TA Stage 2 - Wes								
Stage 3 - West B	ound (Ref. DRG. No.CDD/SR8/087)		STATE OF STREET					
SR8.WB.3060	Install Dewatering Wells & Carry out Pump Test	20	03-Sep-15 A	30-Sep-15		Install Dewatering Wells & Car	nu out Pump Test	
unnel Ch.459.000	0 to 385.000 (West Bound) - ELS / CCT/ BF+Reinstatement Works			F				
West Bound - EL								
SR8.WB.5070	Commence ELS works (Cofferdam Complete)	0	07-Oct-15			Commence ELS w	vorks (Cofferdam Complete)	
SR8.WB.5080	ELS Layer 1 - Soft Excavation + Strut Installation	12	07-Oct-15	20-Oct-15			ELS Layer 1 - Soft Excavati	tion + Strut Installa
SR8.WB.5130	ELS Layer 2 - Soft Excavation + Strut Installation	12	22-Oct-15	04-Nov-15			1 1 1	ELS Layer 2 - Sof
SR8.WB.5140	ELS Layer 3 - Soft Excavation + Strut Installation	12	05-Nov-15	18-Nov-15				ELS Layer 2 - Sol
SR8.WB.5150	ELS Layer 4 - Soft Excavation + Strut Installation	12	19-Nov-15	02-Dec-15				1
SR8.WB.5160	ELS Layer 5 - Soft Excavation + Strut Installation	12	03-Dec-15	16-Dec-15				
	CT Structural Works	12	05-Dec-15	10-Dec-15				
Blinding + Wate								
North and a state of the	Blinding for Bay 1 to Bay 8		16 Dec 15	00 Day 45				
	o Ch.317.500 - (Inside Victoria Park to Tunnel Portal)	9	16-Dec-15	29-Dec-15				
	/ CCT / BF Works ( 7 Bays Ch. 385.000 to Ch.317.500)							
Portal Structure	( COTT BE WORKS ( 7 Bays Cit. 365.000 to Cit.317.500)							
Base Slab + Drai								
SR8.VP.5120								
	Base Slab - Bay 3	8	10-Sep-15 A	22-Sep-15 A	B	ase Slab - Bay 3		
SR8.VP.5130	Base Slab - Bay 4	8	10-Sep-15 A	22-Oct-15A			Base Slab - Bay 4	
SR8.VP.5140	Base Slab - Bay 5	8	05-Oct-15	13-Oct-15		Base S	Sab - Bay 5	
SR8.VP.5150	Base Slab - Bay 6	8	14-Oct-15	23-Oct-15	The Sule States Fre		Base Slab - Bay 6	
SR8.VP.5160	Base Slab - Bay 7	8	24-Oct-15	02-Nov-15			Bas	se Slab - Bay 7
Wall + Removal								
SR8.VP.5170	Wall - Bay 1	10	15-Sep-15 A	21-Nov-15				
SR8.VP.5180	Wall - Bay 2	10	15-Sep-15 A	03-Dec-15				
SR8.VP.5190	Wall - Bay 3	10	04-Dec-15	15-Dec-15				
SR8.VP.5200	Wall - Bay 4	10	16-Dec-15	29-Dec-15				
Roof Slab								
SR8.VP.5240	Roof Slab - Bay 1	10	04-Dec-15	15-Dec-15				
SR8.VP.5250	Roof Slab - Bay 2	10	16-Dec-15	29-Dec-15				
Pump Sump E								
SR8.VP.5370	Wall Up to Portal Base Slab Bottom	10	21-Sep-15	03-Oct-15		Wall Up to Portal Base S	ab Bottom	
SR8.VP.5380	Fill Up Void Up to Portal Base Slab Bottom	7	05-Oct-15	12-Oct-15		Fill Up V	oid Up to Portal Base Slab Bottom	n
SR8.VP.5390	Wall Up to Portal Roof Bottom	10	14-Oct-15	26-Oct-15			Wall Up to Porta	al Roof Bottom
SR8.VP.5400	Wall + Roof Slab	14	27-Oct-15	11-Nov-15				Wal
SR8.VP.5440	Slab for Pump Room	21	27-Oct-15	19-Nov-15				
SR8.VP.5410	Access Chamber above Roof	14	12-Nov-15	27-Nov-15				
					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	Data T
		Actual Work		Page 3 of 5			20.	Date -Sep-15
中國道 CHINA STAT	建築工程( 番港) オ 取 公司 E CONSTRUCTION ENGINEERING (HONG KONG) LTD.	Remaining Work Critical Remaining Wo		Contract	No. HY/2010/08- C	entral - Wanchai Bypass		



		Origina Duration		Finish	Sep			015	
SR8.VP.5450	Slab for Elec. Room	21	12-Nov-15	05-Dec-15	Gep		Oct	1	N
Backfill & Reins	tatement Works Including Removal of Strutingss								
SR8.VP.5050	Layer 3&2: Removal of Waling & Struts	7	03-Nov-15	10-Nov-15					Layer
SR8 Ch 317.500	to Ch 210.000 - U-Structure & Slab (Victoria Park)								
RC CCT & Backfi	ll Ch317.5000 to Ch240.000								_
Structure						-			
Base Slab						-		_	
SR8_1812	SR8 U-structure Base slab (UBA8)	24	08-Sep-15 A	05-Oct-15			SR8 U-structure Base slab (UBA8)		
SR8_1813	Remove SL3 - (UBA8)	14	06-Oct-15	22-Oct-15					
Wall				22 001 10		_	Remove SL	3 - (UBA8)	
SR8_1850B	SR8 U-structure Wall (UBA6-UBA7) - Stage 2	14	10-Apr-15 A	02-Oct-15					
SR8_1815A	Remove SL1 (UBA2-UBA5)			-			SR8 U-structure Wall (UBA6-UBA7) - Stage 2		
SR8_1815B	SR8 U-structure Wall (UBA2-UBA5) - Stage 2	18	21-Sep-15	13-Oct-15			Remove SL1 (UBA2-UBA5)		
SR8_2060	SR8 U-structure Wall (UBA8) - Stage 1	21	13-Oct-15	07-Nov-15				SR8	8 U-stru
		7	23-Oct-15	30-Oct-15				SR8 U-structure W	Vall (UB
SR8_2100	Remove SL2, 1 (UBA8)	7	31-Oct-15	07-Nov-15			제 물건 물건가 지금 것 같아요. 물건	Ren	nove SL
SR8_2110	SR8 U-structure Wall (UBA8) - Stage 2	7	09-Nov-15	16-Nov-15					ANTE STAT
SR8_1950	Waterproofing Works to Wall	14	19-Nov-15	05-Dec-15					
Utility Through									
SR8_2050	Utility Trough	48	16-Nov-15	14-Jan-16					
ing Fung St - RW	/ & Subway Extension & Toe Wall at Hing Fat St								
et. Wall & TF Su	bway Extension (Portion V)								
Retaining Wall RW	/8C at Tsing Fung Street (Portion V)								
VP_1770	Install Steel Railing on Top of RW8C	14	20-May-15 A	10-Oct-15			Install Steel Railing on Top of RW8		
VP_1390	Demolish Top Portion of Existing Wall Head and Kerb	18	05-Jun-15 A	30-Oct-15			Install Steer Kalling on Top of Kwa		
VP_1400	Road Formation - Subbase + Kerb + U-shape Channel	48	30-Oct-15	28-Dec-15				Demolish Top Porti	ion of Ex
etaining Wall + T	oe Wall at Hing Fat Street	The second secon	30-00013	20-Dec-15					
	n at Tsing Fung Street (Portion VIII)								
West Side									
West Side	Parrow Sefficience I ( D. ( D. )								_
VP_1375.70	Remove Soffit formwork for Roof Slab	32	17-Sep-15 A	02-Oct-15			Remove Soffit formwork for Roof Slab		
VP_1375.70 East Side		32	17-Sep-15 A	02-Oct-15			Remove Soffit formwork for Roof Slab		
VP_1375.70 East Side VP_1375.60	Divert Pedestrain to West Side	32	17-Sep-15 A 03-Oct-15	02-Oct-15 05-Oct-15			Remove Soffit formwork for Roof Slab		
VP_1375.70 East Side	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway						Divert Pedestrain to West Side	nd Demolition (East f	Part) of
VP_1375.70 East Side VP_1375.60	Divert Pedestrain to West Side	2	03-Oct-15	05-Oct-15			Divert Pedestrain to West Side	nd Demolition (East F	
VP_1375.70 East Side VP_1375.60 VP_1375.60.10	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway	2	03-Oct-15 06-Oct-15	05-Oct-15 22-Oct-15			Divert Pedestrain to West Side	nd Demolition (East F	
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing	2 14 8	03-Oct-15 06-Oct-15 23-Oct-15	05-Oct-15 22-Oct-15 31-Oct-15			Divert Pedestrain to West Side		
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage	2 14 8 21	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15			Divert Pedestrain to West Side		
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab	2 14 8 21 18	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15			Divert Pedestrain to West Side		
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab	2 14 8 21 18 21	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16			Divert Pedestrain to West Side Excavation a		
VP_1375.70 East Side VP_1375.60 VP_1375.60.20 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab all (RW8E) Construct and divert Temporary Footpath	2 14 8 21 18 21 36	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A		Constr	Divert Pedestrain to West Side		
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Walls TFS Subway extension - Roof Slab all (RW8E) Construct and divert Temporary Footpath Sheet Piling and Excavation to Formation level	2 14 8 21 18 21 36 45	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A 21-Sep-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A 14-Nov-15		Constr	Divert Pedestrain to West Side Excavation a		ension -
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152 VP_6160 VP_6180	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab all (RW8E) Construct and divert Temporary Footpath Sheet Piling and Excavation to Formation level Blinding layer	2 14 8 21 18 21 36	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A		Constr	Divert Pedestrain to West Side Excavation a		ension -
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152 VP_6160 VP_6180 rks in Victoria	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab Street Pilling and Excavation to Formation level Blinding layer a Park	2 14 8 21 18 21 36 45	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A 21-Sep-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A 14-Nov-15		Constr	Divert Pedestrain to West Side Excavation a		ension -
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152 VP_6160 VP_6180 rks in Victoria Provisioning Wo	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Walls TFS Subway extension - Roof Slab all (RW8E) Construct and divert Temporary Footpath Sheet Pilling and Excavation to Formation level Blinding layer a Park	2 14 8 21 18 21 36 45	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A 21-Sep-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A 14-Nov-15		Constr	Divert Pedestrain to West Side Excavation a		ension -
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152 VP_6160 VP_6180 rks in Victoria	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab Street Pilling and Excavation to Formation level Blinding layer a Park	2 14 8 21 18 21 36 45	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A 21-Sep-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A 14-Nov-15		Constr	Divert Pedestrain to West Side Excavation a		ension -
VP_1375.70 East Side VP_1375.60 VP_1375.60.10 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152 VP_6160 VP_6180 rks in Victoria Provisioning Wo	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab Street Piling and Excavation - Roor Slab Sheet Piling and Excavation to Formation level Blinding layer a Park orks KD5 - Completion of Section 2 of Works (BG & Pavilion)	2 14 8 21 18 21 36 45 36	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A 21-Sep-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A 14-Nov-15 20-Jan-16 11-Dec-15		Constr	Divert Pedestrain to West Side Excavation a	TFS Subway exte	ension -
VP_1375.70 East Side VP_1375.60 VP_1375.60.20 VP_1375.60.20 VP_1375.60.30 VP_1375.60.40 VP_1375.60.40 VP_1375.60.50 C Works - Toe Wa VP_6152 VP_6152 VP_6160 VP_6180 rks in Victoria Provisioning Wa _1560	Divert Pedestrain to West Side Excavation and Demolition (East Part) of Subway TFS Subway extension - Blinding and Waterproofing TFS Subway extension - Base slab + Drainage TFS Subway extension - Walls TFS Subway extension - Roof Slab TFS Subway extension - Roof Slab Construct and divert Temporary Footpath Sheet Piling and Excavation to Formation level Blinding layer A Park Orks KD5 - Completion of Section 2 of Works (BG & Pavilion)	2 14 8 21 18 21 36 45 36	03-Oct-15 06-Oct-15 23-Oct-15 02-Nov-15 26-Nov-15 17-Dec-15 20-May-15 A 21-Sep-15	05-Oct-15 22-Oct-15 31-Oct-15 25-Nov-15 16-Dec-15 13-Jan-16 23-Sep-15 A 14-Nov-15 20-Jan-16		Constr	Divert Pedestrain to West Side Excavation a		

	Dec	
	Slab for Elec. Room	
Removal of Waling & Struts		
Wall (UBA2-UBA5) - Stage 2		
Stage 1		
UBA8)		
1 1 1	Stage 2	
SR8 U-structure Wall (UBA8)		
	Waterproofing Works to V	Vall
	1	
Wall Head and Kerb		
g		
		-
ay		
ng and Waterproofing		
TES Subway e	extension - Base slab + Draina	ge
in o odbirdy o		
	TFSS	
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	TFSS	
	mation level	on of
et Piling and Excavation to For	mation level	
	mation level	

	Activity Name	Original Duration	Start	Finish				
Pavilion		Duration			Sep	Oct	2015	Ma
							1 1	No
Materials Sub	mission				1			
VP_6660	Issue P.O. / Manufacturing / Fabrication	48	20-Apr-15 A	22-Sep-15 A		Issue P.O. / Manufacturing / Fabrication		
Construction	Works - BG Pavillion							
VP_1380	PV- structural works, G/F to Roof	24	04-Sep-15 A	25-Sep-15		PV- structural works, G/F to Roof		
VP_1420	PV - ABWF	36	26-Sep-15	10-Nov-15		FV-Structural works, G/F to Root		1
VP_1430	PV - E&M Works	36	06-Oct-15	17-Nov-15	_		P	PV - AB
VP_1460	PV - T&C	12	18-Nov-15	01-Dec-15				:
VP_1470	PV - Statutory Inspections & Certification	24	18-Nov-15	15-Dec-15				-
VP_1480	PV - Complete KD5 - Works in Section 2	0		15-Dec-15				
Bowling Green	n	The Roll		10 000 10				
Construction	Works							
VP_1740	BG - Install Conduit and Lighting System	36	18-Jun-15 A	22-Sep-15 A				
VP_1730	BG - Install Irrigation System	00	10-301-13A	22-3ep-13 A		BG - Install Conduit and Lighting System		1
1130	BG - Install Irrigation System	24	21-Son 15 A	15 Oct 15				:
VP_1745	Test & Commission - Lighting System	24	21-Sep-15 A	15-Oct-15		BG - Install Irrigation		
-	Test & Commission - Lighting System	16	02-Oct-15	20-Oct-15			on System ommission - Lighting System	
VP_1745 VP_1450	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles)	16 36	02-Oct-15 02-Oct-15	20-Oct-15 13-Nov-15				BG
VP_1745 VP_1450 VP_1455	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification	16	02-Oct-15	20-Oct-15				BG
VP_1745 VP_1450 VP_1455 VP_1490	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2	16 36	02-Oct-15 02-Oct-15	20-Oct-15 13-Nov-15				BG
VP_1745 VP_1450 VP_1455 VP_1490 Establishment	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2 Works for Landscape Softworks	16 36 24	02-Oct-15 02-Oct-15	20-Oct-15 13-Nov-15 11-Dec-15				BG
VP_1745 VP_1450 VP_1455 VP_1490 Establishment V	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2 Works for Landscape Softworks 17A: Portion XIV & XV (Victoria Park Open Space)	16 36 24	02-Oct-15 02-Oct-15	20-Oct-15 13-Nov-15 11-Dec-15				BG
VP_1745 VP_1450 VP_1455 VP_1490 Establishment ( KD11 - Section EW_1000	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2 Works for Landscape Softworks 17A: Portion XIV & XV (Victoria Park Open Space) Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	16 36 24 0	02-Oct-15 02-Oct-15	20-Oct-15 13-Nov-15 11-Dec-15				BG
VP_1745 VP_1450 VP_1455 VP_1490 Establishment ( KD11 - Section EW_1000	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2 Works for Landscape Softworks <b>17A: Portion XIV &amp; XV (Victoria Park Open Space)</b> Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV &	16 36 24 0	02-Oct-15 02-Oct-15 14-Nov-15	20-Oct-15 13-Nov-15 11-Dec-15 11-Dec-15				BG
VP_1745 VP_1450 VP_1455 VP_1490 Establishment ( KD11 - Section EW_1000	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2 Works for Landscape Softworks 17A: Portion XIV & XV (Victoria Park Open Space) Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	16 36 24 0	02-Oct-15 02-Oct-15 14-Nov-15	20-Oct-15 13-Nov-15 11-Dec-15 11-Dec-15				BG
VP_1745 VP_1450 VP_1455 VP_1490 Establishment V KD11 - Section EW_1000 KD12 - Section EW_1010	Test & Commission - Lighting System BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles) Statutory Inspection and Certification BG - Completion of KD5 - Section 2 Works for Landscape Softworks <b>7A: Portion XIV &amp; XV (Victoria Park Open Space)</b> Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV <b>17B: Portion VI &amp; VII (Reprox. Bowling Green Area)</b>	16 36 24 0 901	02-Oct-15 02-Oct-15 14-Nov-15 23-Feb-15 A	20-Oct-15 13-Nov-15 11-Dec-15 11-Dec-15 14-Dec-17				BG

eSDEe	中國建築工程(香港) 介限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.	Actual Work Remaining Work Critical Remaining Work Milestone	Page 5 of 5 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme	Date 20-Sep-15	Upda

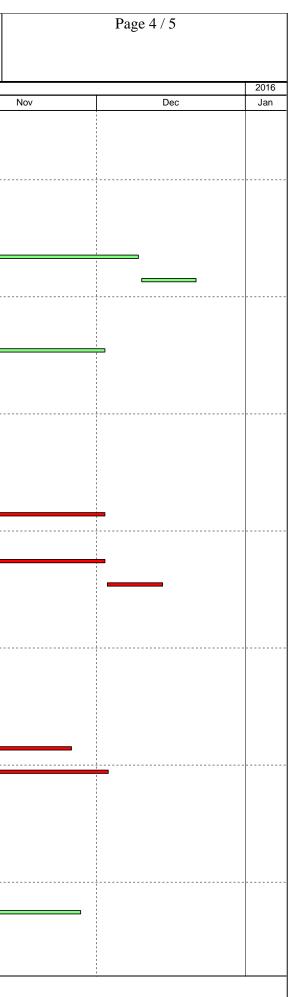
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	이 집에 가지 않는 것들을 잡다.
BWF	heth i Shini Mean
PV - E&M Works	
	PV - T&C
	PV - Statutory In:
	PV - Complete K
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	이 같이 말했는 것 같아요. 이 가지
- Re-provisioning works -	Hardscape & Furnitures (Green Turf/ Granite
· · · · · · · · · · · · · · · · · · ·	Statutory Inspection and
	BG - Completion of KD5
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Revision dated to 20th Sep 2015	Checked Approved

		Chost	۷ Centra	Van Cha I -Wan C	ai Develop Chai Bypa	o. HK/2012/08 oment Phase II ss at Wan Chai W	/est	2015		Page 1 / 5	
ivity ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Sep	Oct	2015	Nov	Dec	20 
Total		01-Jan-15 A	28-Dec-15	80							
HK/2012/08 Re	vised Works Programme Rev.5_Updated as of 20-Sep-15	01-Jan-15 A	28-Dec-15	80							
Dredging and R	eclamation	21-Aug-15 A	15-Dec-15	71							
Marine Work C	onstruction	21-Aug-15 A	15-Dec-15	71							
Zone A1		11-Nov-15	15-Dec-15	30							
Seawall Constru	uction - Zone A1	11-Nov-15	15-Dec-15	30		       					
MAR10310	Zone A1 - seawall - Type 3 - fill rock mound	11-Nov-15	18-Nov-15	8	0%						
MAR10312	Zone A1 - seawall - Type 3 - lay toe block and leveling stone	19-Nov-15	26-Nov-15	8	0%						
MAR10320	Zone A1 - seawall - install block seawall type 3	27-Nov-15	04-Dec-15	8	0%				-		
MAR10340	Zone A1 - seawall - place type A behind seawall Type 3	05-Dec-15	10-Dec-15	6	0%						
MAR10345	Zone A1 - seawall - lay geotextile and filter behind seawall Type 3	11-Dec-15	15-Dec-15	4	0%						
Zone A2		21-Aug-15 A	06-Oct-15	12							
Seawall Constru	uction - Zone A2	21-Sep-15	06-Oct-15	12							
MAR10815	Zone A2 - seawall - place type A behind seawall Type 4 and Type 13 up to -1.5 mPD	21-Sep-15	26-Sep-15	6	0%						
MAR10817	Zone A2 - seawall - lay geotextile and filter behind seawall Type 4 and Type 13 up to -1.5 mPD	e 29-Sep-15	06-Oct-15	6	0%						
Filling - Zone A	2	21-Aug-15 A	21-Sep-15	1							
MAR20365	Zone A2(2) - Public Fill -4.0 to +4.0mPD (behind Type 4 & 13 for temp channel outlet)	21-Aug-15 A	21-Sep-15	1	95%						
Zone C		21-Sep-15	28-Oct-15	30							
Dredging - Zone	e C	21-Sep-15	28-Oct-15	30							
MAR11520	Zone C - Cut existing pipe pile (2 nos.)	21-Sep-15	28-Oct-15	30	0%						
Zone D		21-Sep-15	15-Dec-15	71							
Seawall Constru	uction - Zone D	21-Sep-15	19-Nov-15	49							
Seawall 10 & 11	1	21-Sep-15	22-Oct-15	25							
MAR20582	Zone D - fill rock mound for Seawall 10 & 11	21-Sep-15	22-Sep-15	2	0%	-					
MAR20584	Zone D - lay toe block and level stone for Seawall 10 & 11	23-Sep-15	03-Oct-15	8	0%						
MAR20605	Zone D - Install block seawall 10	05-Oct-15	20-Oct-15	14	0%			•			
MAR20610	Zone D - Install block seawall 11	06-Oct-15	22-Oct-15	14	0%			-			
Seawall 9		23-Oct-15	19-Nov-15	24							
MAR11858	Zone D - fill rock mound for Seawall 9	23-Oct-15	24-Oct-15	2	0%			•			
MAR11859	Zone D - lay toe block and level stone for Seawall 9	26-Oct-15	03-Nov-15	8	0%						
MAR12300	Zone D - Install block seawall 9	04-Nov-15	19-Nov-15	14	0%						
Filling - Zone D		19-Nov-15	15-Dec-15	23							
Filling at North		19-Nov-15	15-Dec-15	23							
Remaining	g Level of Effort Project Star :22-Jan-13					<u>Ľ</u>			Detailed Works	Programme Rev	ision 5
Actual Lev	Project End: 21-Jul-18	8 Months Rol	ling Progra	amme S	Septembe	er to November 20	)15	Date	Revision	Checked	Approved
Remaining Actual Wo	Date Date: 20-Sep-15				-			20-Sep-15			
Critical Re			(Fo	r Non-Cl	RIII Zone)	)					

				CEDD C Wan Cha		Page 2 / 5						
			Centra	I -Wan C	hai Bypa	ss at Wan C	Chai West					
Activity ID Activity	ty Name	Start	Finish	Remaining Duration	Activity % Complete	Sep		Oct	2015	Nov	Dec	2016 Jan
MAR12160 Zone	D - Sorted Public Fill up to +2.5mPD (north area)	19-Nov-15	02-Dec-15	12	0%	l Gep		001				Jan
MAR12180 Zone	D - Sorted & Compacted Public Fill from +2.5 to +4mPD (north ar	ea) 02-Dec-15	15-Dec-15	12	0%	-						
Works for Section Com	npletion	01-Jan-15 A	28-Dec-15	80								
Construction		01-Jan-15 A	28-Dec-15	80								
Section II - MVB Structure	e	08-Aug-15 A	24-Dec-15	79								
MVB Substructure - ELS	S & Structural Works for Portion A	08-Aug-15 A	24-Dec-15	79								
MVB Substructure - Stru	ructural Works for Portion A	08-Aug-15 A	24-Dec-15	79								
SII11120 Sec I	II - MVB A - Construct B3M slab, column and wall	08-Aug-15 A	27-Nov-15	55	24%							
SII11140 Sec I	II - MVB A - Remove Strut SL7 and SL6	18-Dec-15	24-Dec-15	5	0%							
MVB Substructure - ELS	S & Structural Works for Portion B	09-Sep-15 A	21-Sep-15	1								
MVB Substructure - ELS	S for Portion B	09-Sep-15 A	21-Sep-15	1								
SII11760 Sec I	II - MVB B: Excavation down to -25.45mPD	09-Sep-15 A	21-Sep-15	1	90%							
MVB Substructure - Pilin		21-Sep-15	26-Nov-15	55								
MVB C - Prebored H Pile		21-Sep-15	26-Nov-15	55								
	II - MVB C - construct prebored H-piles	21-Sep-15	03-Nov-15	35	0%							
	II - MVB C - Loading Test for Prebored H-pile	04-Nov-15	26-Nov-15	20	0%							
	el & Slip Road Structures and Facilities	17-Jan-15 A	28-Dec-15	80	078							
	n a Shp Rudu Shuctures and Facilities											
CWB CRIII & A1		17-Jul-15 A	28-Dec-15	80								
CWB A1 - ELS & Tunnel		17-Jul-15 A	28-Dec-15	80								
CWB A1 - ELS Remaini	•	17-Jul-15 A	03-Nov-15	35								
	IIA - CWB A1 : Shoring & Excavation (Remaining)	17-Jul-15 A	03-Nov-15	35	0%							
CWB A1 - Tunnel Struc		04-Nov-15	28-Dec-15	45								
	II A - CWB A1: Pile head + trough + base & wall + OHVD unit (Bay		28-Dec-15	45	0%							-
	IIA - CWB A1 : Pile head + trough + base & wall + OHVD (Bay 3)	04-Nov-15	28-Dec-15	45	0%							•
CWB A1 - Other Works		20-Sep-15	13-Oct-15	24								
	A2(2) - Public Fill -4.0 to +4.0mPD (behind Type 4 & 13 for temp anel outlet)	20-Sep-15	13-Oct-15	24	0%							
CWB A2(2)		20-Aug-15 A	23-Nov-15	51								
CWB A2 (2) - Dwall & Pil	iling	20-Aug-15 A	23-Nov-15	51								
SIIA13500 Sec I	II A - CWB A2 : backfill to +4.0mPD	20-Aug-15 A	22-Sep-15	2	90%	1						
SIIA15260 Sec I	II A - CWB A2 : Predrilling for Dwall & piles	11-Sep-15 A	09-Nov-15	39	2%							
	II A - CWB A2 : Ground treatment	21-Sep-15	09-Nov-15	40	0%				:     			
	II A - CWB A2 : construct Guide Wall	30-Sep-15	17-Nov-15	40	0%							
	II A - CWB A2 Loading Test for Prebored H-pile	30-Oct-15	23-Nov-15	20	0%							
CWB B (& A2(1))	<b>.</b>	30-Apr-15 A	11-Dec-15	67								
CWB B - Dwall & Piling		30-Apr-15 A	06-Nov-15	37								
	II A - CWB B (&A2(1)): Construct pre-bored H-pile	30-Apr-15 A	22-Sep-15	1	98%		-					
	II A - CWB B: Concrete Plug (MTR TWL)	15-Jun-15 A	06-Nov-15	37	40.32%	1						
SilA 11300 Sec 1		13-Juii-15 A	00-1107-13	31	40.3270							

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ty ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Sep		0		015	Nov	Dec	2	
SIIA11565	Sec II A - CWB B: Sheetpile Bulkhead Wall for "Delink"	29-Sep-15	26-Oct-15	21	0%		-				1101			
CWB B - Pumpi	ing Test Preparation	13-Jun-15 A	11-Dec-15	67										
SIIA11580	Sec II A - CWB B: Dwall sonic test / interface core	13-Jun-15 A	30-Oct-15	31	48.33%									
SIIA11600	Sec II A - CWB B: Dwall precaution grout / fissure grout / grout curtain	13-Jun-15 A	30-Oct-15	31	48.33%	-		1 1 1 1						
SIIA11620	Sec II A - CWB B: Install dewatering/ recharging/ observation well	14-Jul-15 A	04-Nov-15	35	12.5%	-								
SIIA11640	Sec II A - CWB B: Pumping Test	06-Nov-15	14-Nov-15	7	0%									
SIIA11660	Sec II A - CWB B: Demolish Guide Wall	06-Nov-15	11-Dec-15	30	0%					_				
CWB C (W)		16-Jun-15 A	02-Dec-15	60										
CWB C(W) - Dw	all Construction	16-Jun-15 A	24-Nov-15	53										
SIIA11960	Sec II A - CWB CW: Concrete Plug (MTR TWL)	16-Jun-15 A	24-Nov-15	53	14.52%									
SIIA11980	Sec II A - CWB CW: D-wall contact grout / fissure grout	21-Sep-15*	09-Nov-15	40	0%									
SIIA12000	Sec II A - CWB CW: Dwall sonic test / interface core	21-Sep-15	09-Nov-15	40	0%			1			I			
CWB C(W) - Pur	mping Test Preparation/ Pumping Test	21-Sep-15	02-Dec-15	60										
SIIA12020	Sec II A - CWB CW: Install dewatering/ recharging/ observation wells	21-Sep-15	09-Nov-15	40	0%			1			I			
SIIA12040	Sec II A - CWB CW: Pumping Test	25-Nov-15	02-Dec-15	8	0%									
CWB C (E)		30-Mar-15 A	28-Oct-15	30				; 						
CWB C(E) & Ena	abling Work - Dwall Construction	30-Mar-15 A	28-Oct-15	30										
CWB C(E) - Dw	vall Construction	30-Mar-15 A	08-Oct-15	14										
SIIA12980	Sec II A - CWB CE: ground pre-treatment	30-Mar-15 A	08-Oct-15	14	79%									
	Work - Dwall Construction	21-Sep-15	28-Oct-15	30										
SIIA13085	Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	21-Sep-15	28-Oct-15	30	0%			; ;						
CWB D - Slip Roa		17-Jan-15 A	25-Nov-15	54		-								
CWB D - Slip Ro	oad 1 - Dwall Construction & Piling	17-Jan-15 A	14-Nov-15	45										
SIIA12260	Sec II A - CWB SR1: ground pre-treatment	17-Jan-15 A	05-Oct-15	11	90.83%									
SIIA12305	Sec II A - CWB SR1: construct Permanent DWall (1.2m thk)	07-Apr-15 A	15-Oct-15	20	79%	-								
SIIA12310	Sec II A - CWB SR1: construct pre-bored H-pile	20-Aug-15 A	11-Nov-15	41	2%									
SIIA12340	Sec II A - CWB SR1: Concrete Plug (MTR TWL)	07-Oct-15	14-Nov-15	32	0%	-								
	oad 1 - Pumping Test Preparation/ Pumping Test	22-Sep-15	25-Nov-15	52										
SIIA12360	Sec II A - CWB SR1: Grout curtain / contact grout for Dwall	22-Sep-15	09-Nov-15	38	0%						I			
SIIA12380	Sec II A - CWB SR1: Dwall sonic test / interface core	22-Sep-15	09-Nov-15	38	0%	- 1 1 1 1 1					I			
SIIA12400	Sec II A - CWB SR1: Install dewatering/ recharging/ observation wells	30-Sep-15	16-Nov-15	38	0%			, , , ,						
SIIA12420	Sec II A - CWB SR1: Pumping Test	16-Nov-15	25-Nov-15	8	0%									
	x Culvert La, L1 & FRP-L Construction	21-Sep-15	30-Nov-15	58	070									
	ulvert La bay 4 (North)	21-Sep-15 21-Sep-15	30-Nov-15	58										
CUL11652	Sec VI C - Culvert L - bay 4 (north half) - excavate to formation level	21-Sep-15 21-Sep-15	13-Oct-15	18	0%									
CUL11655	Sec VI C - Culvert L - bay 4 (north half) - place granular fill and lay neotextile filter Sec VI C - Culvert L - bay 4 (north half) - place granular fill and lay	14-Oct-15	26-Oct-15	10	0%			_						
CUL11660	Sec VI C - Culvert L - bay 4 - back fill	27-Oct-15	30-Nov-15	30	0%			1 1 1 1						

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/ ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Sep		201 Oct			
Box Culvert L	1 & FRP-L Construction (Bay 5 - Bay 7)	21-Sep-15	21-Dec-15	76	·	Sep		001			
Box Culvert I	L1 & FRP-L - Bay 5 to 7 Structure	21-Sep-15	23-Oct-15	26							
Box Culvert	t L1 & FRP-L - Precast Unit Installation	21-Sep-15	23-Oct-15	26							
CUL10874	4 Sec VI C - Culvert L - bay 5-7 - Demolition of Temp Platform & Cofferdam	21-Sep-15	06-Oct-15	12	0%						
CUL10875	ready for towing precast culvert units 5 Sec VI C - Culvert L - bay 5-7 ( & Bay 4b) - install precast culvert units &	07-Oct-15	23-Oct-15	14	0%						
Box Culvert I	Touch Up L1 & FRP-L - Bay 5 & 6 Backfill & Others	24-Oct-15	21-Dec-15	50							
CUL10878	Sec VI C - Culvert L - bay 5, 6 - backfill to +4.0mPD	24-Oct-15	09-Dec-15	40	0%			=			
CUL10879		10-Dec-15	21-Dec-15	10	0%	1 1 1 1 1					
	_1 & FRP-L - Bay 9 to 11	21-Sep-15	02-Dec-15	60			·				
	L1 & FRP-L - Bay 9-11 Others	21-Sep-15	02-Dec-15	60							
CUL12020		21-Sep-15	02-Dec-15	60	0%	-	1 1 1				
	1 & FRP-L - Bay 12 to 13	03-Jun-15 A	14-Dec-15	70							
	L1 & FRP-L - Bay 12 to 13 Piling	21-Sep-15	28-Oct-15	30							
CUL12356		21-Sep-15*	28-Oct-15	30	0%		·				
	L1 & FRP-L - Bay 12 to 13 Temp Work & ELS	03-Jun-15 A	02-Dec-15	60	070						
CUL12385		03-Jun-15 A	07-Oct-15	13	0%						
CUL12305	for Diversion	07-Oct-15	10-Oct-15	4	0%						
CUL12403	Bay 4 to Bay 11)	29-Oct-15	02-Dec-15	30	0%			_			
	PC10 & PC11 L1 & FRP-L - Bay 12 to 13 Structure		14-Dec-15	70	0%						
CUL12545		21-Sep-15		-	00/	_					
		21-Sep-15*	02-Dec-15	60	0%						
CUL12548	,	03-Dec-15	14-Dec-15	10	0%						
	- Area 3, 6, 8A & 8C	01-Jan-15 A	19-Dec-15	75							
	C - Seawall Modification	30-May-15 A	03-Dec-15	61							
	n of Seawall	30-May-15 A	03-Dec-15	61		1 1 1 1 1					
	on of Seawall - Zone 1 & 2	30-May-15 A	03-Dec-15	61							
PRS1004	· · · · · · · · · · · · · · · · · · ·	30-May-15 A	23-Sep-15	3	50%						
PRS1004		20-Aug-15 A	06-Oct-15	12	50%						
PRS1006		07-Oct-15	25-Nov-15	42	0%	         					
PRS1008	<b>G</b> <i>i i i i i</i>	27-Oct-15	03-Dec-15	32	0%						
Modificatio	on of Seawall - Zone 4	23-Sep-15	27-Oct-15	26							
PRS1016	60 Sec VIC - Working Platform (Zone 4)	23-Sep-15	05-Oct-15	8	0%						
PRS1018	80 Sec VIC - Pipe Pile P63 to P68 & P64A (Zone 4)	05-Oct-15	27-Oct-15	18	0%				-		
Area 6 - Box	Culvert bay 5-6	18-Apr-15 A	27-Nov-15	56							
SVIC10000	0 Sec VI C - [Summary] Construct Box Culvert Bay 5-6	18-Apr-15 A	23-Oct-15	26	71.74%						
SVIC10020	0 Sec VI C - backfill to formation level at Area 6	24-Oct-15	27-Nov-15	30	0%			=			
Area 3 - Box	Culvert bay 4 and Roadwork	01-Jan-15 A	19-Dec-15	75							
SVIC10220	0 Sec VI C - [Summary] Construct Box Culvert Bay 4 in Area 3	01-Jan-15 A	26-Oct-15	28	60%		1		-		



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			\ Contro							
ctivity ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	ss at Wan Chai \	-	2015		2016
SVIC10240	Sec VI C - reinstate and compact sub-base above Culvert L Bay 4 in Area	01-Dec-15	08-Dec-15	7	0%	Sep	Oct	Nov	Dec	Jan
	3 Sec VI C - reinstate road kerb in Area 3	01-Dec-15	07-Dec-15	6	0%	       				
SVIC10280	Sec VI C - reinstate flexible pavement in Area 3	08-Dec-15	14-Dec-15	6	0%					
SVIC10300	Sec VI C - reinstate footpath in Area 3	15-Dec-15	19-Dec-15	5	0%				_	
SVIC10320	Sec VI C - reinstate traffic sign and road marking in Area 3	19-Dec-15	19-Dec-15	1	0%				٥	
Section VI D - Area		27-Sep-15	24-Dec-15	73	• * •					
WDII Box 1 Const		27-Sep-15	24-Dec-15	73						
	nission and Approval / Material Procurement	27-Sep-15	25-Nov-15	60						
	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	27-Sep-15	25-Nov-15	60	0%					
	ting Pile Head and Dry Dock	24-Oct-15	23-Nov-15 24-Dec-15	53	0 /0					
	Sec VI D - form dry dock / waterproofing for Box 1 structure	24-Oct-15	15-Dec-15	45	0%		_			
	ting Pile Head Treatment	03-Dec-15	24-Dec-15	45	070					
	Sec VIC - Mobilisation	03-Dec-15	10-Dec-15	6	0%					
	Sec VIC - Pile Head at Pile A3	10-Dec-15	24-Dec-15	12						
Section VII - Rema					0%					
	erim Landing Steps and Construct Permanent Seawall at CRIII	21-Sep-15 21-Sep-15	30-Nov-15 30-Nov-15	58 58						
SVII10220	Sec VII - remove interim landing steps - protect open cut slope	21-Sep-15	22-Sep-15	2	0%					
SVII10240	Sec VII - remove interim landing steps - remove old seawall wall blocks	23-Sep-15	30-Sep-15	6	0%		-			
SVII10260	Sec VII - seawall - remove old rubble mound and dredging	02-Oct-15	08-Oct-15	6	0%					
SVII10280	Sec VII - seawall - final hydrographic survey	09-Oct-15	16-Oct-15	7	0%					
SVII10300	Sec VII - seawall - [summary] fill rubble mound	17-Oct-15	23-Nov-15	31	0%					
SVII10320	Sec VII - seawall - [summary] place caisson seawall type 1B(4), 2D and 1	09-Nov-15	30-Nov-15	19	0%					