#### 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

- MARCH 2015 -

**CLIENTS:** 

Civil Engineering and Development Department

and

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**CERTIFIED BY:** 

Raymond Dai

**Environmental Team Leader** 

DATE:

13 April 2015



Ref.: AACWBIECEM00 0 6493L.15

13 April 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 Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass

Monthly Environmental Monitoring and Audit Report (March 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 March 2015 received by e-mail on 13 April 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

Mr. Bond Chow by Fax: 2714 5289 c.c. HyD by Fax: 2577 5040 CEDD Mr. Jason Cheung Mr. Francis Leong / Mr. Stephen Lai by Fax: 2691 2649 AECOM AECOM Mr. Conrad Ng by Fax: 2691 2649 Mr. Raymond Dai by Fax: 2882 3331 Lam

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# **EXECUTIVE SUMMARY**

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – March 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 February 2015 to March 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:
  - Works of covered walkway
  - ABWF work
  - Extraction of piles at WCR3
  - Air lifting operation at WCR3
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
  - Reinstatement of vertical seawall at TS4
  - Reinstatement of existing 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:
  - Placing of levelling stones
  - Dry dock construction
  - Pre-bored H-pile construction on temporary piling platform
  - Removal of rock armour
- vii. During this reporting period, the major work activities for Contract no. HY/2010/08.
  - Rock filling works
  - · Seawall blocks installation works
  - Pre-treatment works
  - Bar fixing works
  - Diaphragm Wall, Barrette and King Post construction works
  - Fill Disposal works



# Noise Monitoring

- viii. No action or 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 project related exceedance was recorded in the reporting month.

#### Air Quality Monitoring

- xiii. Due to electricity interruption, the following 24hr and 1hr TSP monitoring events were rescheduled in the reporting month,
  - 24hr TSP monitoring at CMA1b was rescheduled from 23 March 2015 to 24 March 2015 respectively.
  - 24hr TSP monitoring at CMA3a was rescheduled from 23 March 2015 to 25 March 2015.
  - 24hr TSP monitoring at CMA4a was rescheduled from 12 and 23 March 2015 to 13 and 24 March 2015 respectively.
  - 24hr TSP monitoring at CMA5b was rescheduled from 6, 18 and 23 March 2015 to 7, 20 and 24 March 2015 respectively.
  - 1hr TSP monitoring at CMA5b was rescheduled from 19 March 2015 to 19 and 20 March 2015.
- xiv. 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
- xv. 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.
- xvi. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xvii. 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**

- xviii. 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.
- xix. Due to material obstruction at monitoring location and safety consideration on nearby barge lifting operation, the Enhance DO monitoring at monitoring station Ex-PCWA SE on 2 March 2015 during flood tide was cancelled.
- xx. 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.
- xxi. 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.
- xxii. 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.
- xxiii. 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.
- xxiv. 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.
- xxv. 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.
- xxvi. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2014.
- xxvii. 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.
- 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.

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- xxix. 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.
- xxx. 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.
- xxxi. 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.
- xxxii. 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.
- xxxiii. 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.
- xxxiv. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- xxxv. 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.
- xxxvi. 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.
- xxxvii. 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.
- xxxviii. 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.
- xxxix. 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;

- xl. 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.
- xli. 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.
- xlii. 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.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood				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	0	1	0	0	0	0	2	3	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	2	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	2	1	0	0	0	0	2	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 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, WSD19, 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.



- xliii. There were 4 action level and 4 limit level exceedance of turbidity recorded in the reporting month. Investigation found that the exceedance was not related to Project works. The details of recorded exceedances can be referred to the **Section 6.4**.
- xliv. 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*.

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

_	Water Monitoring Station	Mid-f	lood	Mid-ebb	
Contract no.		D	0	DO	
1101		AL	LL	AL	LL
	C6	0	0	0	0
HY/2009/15	C7	0	0	0	0
111/2009/13	Ex-WPCWA SW	0	0	0	0
	Ex-WPCWA SE	0	0	0	0
Total		0	0	0	0

- xlv. There were no action level and limit level exceedance of enhanced dissolved oxygen recorded in this reporting month.
- xlvi. 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.
- xlvii. 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.
- xlviii. 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.
- xlix. 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

I. There was no environmental complaint received in this reporting month.



# Site Inspections and Audit

- li. 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.
- lii. 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

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

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

Nil

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

- Install Seawall caisson fabrication at PRC
- Reclamation works at WCR3

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

- Dredging of Phase 3 Mooring
- 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 Wan Chai West</u>

- Placing of levelling stones
- Dry dock construction
- Pre-bored H-pile construction on temporary piling platform
- Removal of rock armour

# Lam Geotechnics Limited

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

- Rock filling works
- Seawall blocks installation works
- Pre-treatment works
- Bar fixing works
- Diaphragm Wall, Barrette and King Post construction works
- Fill Disposal works



# 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 February 2015 to March 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

- 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.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	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

# 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*.



Table 2.2 Details of Individual Contracts under the Project

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	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai	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	HY/2009/17 Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.		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	

# 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*:

Table 2.3 Contact Details of Key Personnel

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		
		Engineer Manager	Mr. Terry Wong	9757 9846		
		Construction Manager	Mr. Wyman Wong	9627 2467		
		Construction Manager	Mr. Kenneth Chan	9160 3850		
		Environmental Officer	Ms. Wendy Ng	9803 0057		
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057		
Chun Wo – CRGL	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Alfred Leung	3658-3022	2827 9996	
Joint Venture		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856		
China	Contractor under Contract no. HY/2009/15	Project Director	Chris Leung	3557 6393	2566 2192	
State Constructi		Site Manager	Y Huo	3557 6368		
on Engineerin g (HK) Ltd.		Project Manager	Andrew Wong	3557 6358		
g (FIIV) Ltd.		Contractor's Representative	Gene Cheung	3557 6395		
		Environmental Officer	Andy Mak	3557 6347		
Chun Wo –	Contractor under	Project Manager	David Lau	3758 8879	2570 8013	
CRGL – MBEC_	Contract no. HY/2009/19	Site Agent	Paul Yu	9456 9819		
Joint Venture		Deputy Site Agent	Eric Fong	6191 9337		
venture		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		



Party	Role	Post	Name	Contact No.	Contact Fax
China	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522
State- Leader JV	under Contract	Project Manager	Eddie Chung	9189 8118	
Leader 5 v	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	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	3418 3001	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	C.M. Wong	3557 6464	
		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	
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:
  - Works of covered walkway
  - ABWF work
  - Extraction of piles at WCR3
  - Air lifting operation at WCR3



- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
  - Reinstatement of vertical seawall at TS4
  - Reinstatement of existing 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:
  - Placing of levelling stones
  - Dry dock construction
  - Pre-bored H-pile construction on temporary piling platform
  - Removal of rock armour
- 2.4.8. For Contract no. HY/2010/08, no principal work activities this reporting month.
  - Rock filling works
  - Seawall blocks installation
  - Pre-treatment works
  - Bar fixing works
  - Diaphragm Wall, Barrette and King Post construction works
  - Fill Disposal works
- 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 HKCEC</u>

Nil

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

- Install Seawall caisson fabrication at PRC
- Reclamation works at WCR3

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

Dredging of Phase 3 Mooring

Reinstatement of existing seawall at TPCWAE

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

Nil

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

- Placing of levelling stones
- Dry dock construction
- Pre-bored H-pile construction on temporary piling platform
- Removal of rock armour

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

- Rock filling works
- Seawall blocks installation
- Pre-treatment works
- Bar fixing works
- Diaphragm Wall, Barrette and King Post construction work
- Fill Disposal Works



# 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 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*.

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
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 (CNP) for	GW-RS1056-14	29 Sept 2014	8 Oct 2014 to 7 April 2015	Valid
non-piling equipment	GW-RS1274-14	17 Nov 2014	17 Nov 2014 to 16 May 2015	Valid
	GW-RS1051-14	29 Sept 2014	9 Oct 2014 to 8 April 2015	Valid
	GW-RS1222-14	05 Nov 2014	08 Nov 2014 to 07 May 2015	Valid
	GW-RS1309-14	24 Nov 2014	26 Nov 2014 to 25 May 2015	Valid
	GW-RS1472-14	2 Jan 2015	22 Jan 2015 to 21 Jul 2015	Replaced by GW-RS0101-15
	GW-RS0079-15	27 Jan 2015	16 Feb 2015 to 14 Aug 2015	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0104-15	3 Feb 2015	22 Feb 2015 to 21 Aug 2015	Valid
	GW-RS0101-15	3 Feb 2015	22 Feb 2015 to 21 Aug 2015	Valid
	GW-RS0074-15	22 Jan 2015	10 Feb 2015 to 9 Aug 2015	Valid
Discharge Licence	WT00018110-2014	6 Jan 2014	31 Mar 2015	Valid
	WT00006220-2010	18 Mar 2010	31 Mar 2015	Superseded by WT0010110-2014
	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 (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/15-225	18 Feb 2015	24 Feb 2015 to 23 Mar 2015	Expired

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 2.8	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
Condition 2.9	Silt Screen Deployment Plan (Rev. 7)	21 Nov 2014



EP Condition	Submission	Date of Submission
	Silt Screen Deployment Plan (Rev. 6)	20 Aug 2014
	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
0 1111	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

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

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-RS0889-14	29 Aug 2014	20 Sep 2014 to 19 Mar 2015	Expired
	GW-RS0910-14	29 Aug 2014	20 Sep 2014 to 19 Mar 2015	Expired
	GW-RS0965-14	12 Sep 2014	14 Sep 2014 to 11 Mar 2015	Expired
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0970-14	12 Sep 2014	12 Sep 2014 to 9 Mar 2015	Expired
очартоп	GW-RS0946-14	10 Sep 2014	25 Sep 2014 to 24 Mar 2015	Expired
	GW-RS1060-14	30 Sep 2014	3 Oct 2014 to 25 Mar 2015	Expired
	GW-RS1061-14	30 Sep 2014	2 Oct 2014 to 28 Mar 2015	Valid
	GW-RS1110-14	13 Oct 2014	17 Oct 2014 to 16 Apr 2015	Valid
	GW-RS1109-14	13 Oct 2014	18 Oct 2014 to 17 Apr 2015	Valid
	GW-RS1148-14	21 Oct 2014	23 Oct 2014 to 9 Apr 2015	Valid
	GW-RS1189-14	31 Oct 2014	22 Nov 2014 to 21 May 2015	Valid
	GW-RS1190-14	31 Oct 2014	17 Nov 2014 to 16 May 2015	Valid
	GW-RS1192-14	31 Oct 2014	7 Nov 2014 to 6 May 2015	Valid
	GW-RS1199-14	31 Oct 2014	7 Nov 2014 to 6 May 2015	Valid
	GW-RS1208-14	31 Oct 2014	16 Nov 2014 to 3 May 2015	Valid
	GW-RS1218-14	5 Nov 2014	7 Nov 2014 to 2 May 2015	Valid
	GW-RS1321-14	21 Nov 2014	24 Nov 2014 to 16 May 2015	Valid
	GW-RS1442-14	24 Dec 2014	27 Dec 2014 to 23 Jun 2015	Valid
	GW-RS1425-14	23 Dec 2014	25 Dec 2014 to 21 Jun 2015	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0066-15	21 Jan 2015	23 Jan 2015 to 15 Jul 2015	Valid
	GW-RS0085-15	27 Jan 2015	14 Feb 2015 to 13 Aug 2015	Valid
	GW-RS0014-15	7 Jan 2015	8 Jan 2015 to 1 Jul 2015	Valid
	GW-RS0098-15	30 Jan 2015	1 Feb 2015 to 28 Jul 2015	Valid
	GW-RS0198-15	24 Feb 2015	26 Feb 2015 to 22 Aug 2015	Valid
	GW-RS0215-15	27 Feb 2015	8 Mar 2015 to 7 Apr 2015	Valid
	GW-RS0236-15	13 Mar 2015	25 Mar 2015 to 24 Sep 2015	Valid
	GW-RS0246-15	13 Mar 2015	22 Mar 2015 to 13 Sep 2015	Valid
	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Cancelled
Discharge Licence	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 Apr 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	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
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/15-181	29 Dec 2014	1 Jan 2015 to 30 Jun 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	



EP Condition	Submission	Date of Submission
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
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
0 10 0 40	Landscape Plan (Control of Night Time Lighting)	2 June 2010
Condition 2.18	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 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 EP-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 seawall removal works at TS4/ME4	GW-RS0021-15	13 Jan 2015	16 Jan 2015 to 15 Jul 2015	Valid
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0150-15	11 Feb 2015	13 Feb 2015 to 10 Aug 2015	Valid
Construction Noise Permit (CNP) for maintenance dredging	GW-RS1183-14	31 Oct 2014	1 Nov 2014 to 30 Apr 2015	Valid
Construction Noise Permit (CNP) for reclamation and d-wall works at Ex-PCWA	GW-RS0099-15	30 Jan 2015	1 Feb 2015 to 28 Jul 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	23 Dec 2014	17 Jan 2015 to 16 Apr 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/15-205	19 Jan 2015	28 Jan 2015 to 27 Jul 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal(Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/15-197	8 Jan 2015	15 Jan 2015 to 14 Feb 2015	Expired
	EP/MD/15-246	23 Mar 2015	25 Mar 2015 to 24 Apr 2015	Valid

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

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



FEP Condition	Submission	Date of Submission
	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 2.23	Noise Management Plan	20 Oct 2010
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.7. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 3.1*.

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island 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
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0076-15	21 Jan 2015	23 Jan 2015 to 22 Jul 2015	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 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 EP-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

Reference No.	Issued Date	Valid Period/ Expiry Date	Status
FEP-06/356/2009	5 Mar 2013	N/A	Valid
355439	4 Feb 2013	N/A	Valid
5213-134-C3790-01	8 Mar 2013	N/A	Valid
7016883	18 Feb 2013	18 Jul 2017	Valid
WT00018223-2014	28 Jan 2014	31 Jan 2019	Superseded by WT0002059 4-2014
WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid
GW-RS0966-14	12 Sep 2014	27 Sep 2014 to 26 Mar 2015	Valid
GW-RS0295-15	19 Mar 2015	27 Mar 2015 to 26 Sep 2015	Valid
GW-RS0930-14	8 Sep 2014	10 Sep 2014 to 8 Mar 2015	Expired
GW-RS0105-15	5 Feb 2015	7 Feb 2015 to 4 Aug 2015	Superseded by GW-RS029 6-15
GW-RS0296-15	19 Mar 2015	23 Mar 2015 to 22 Sep 2015	Valid
PP-RS0023-14	18 Sep 2014	20 Sep 2014 to 17 Mar 2015	Superseded by PP-RS0008 -15
PP-RS0008-15	10 Mar 2015	12 Mar 2015 to 11 Sep 2015	Valid
GW-RS0145-15	11 Feb 2015	13 Feb 2015 to 12 Aug 2015	Valid
GW-RS0144-15	12 Feb 2015	13 Feb 2015 to 12 Aug 2015	Valid
GW-RS0223-15	3 Mar 2015	9 Mar 2015 to 8 Sep 2015	Valid
	FEP-06/356/2009 355439 5213-134-C3790-01 7016883 WT00018223-2014 WT00020594-2014 GW-RS0966-14 GW-RS0295-15 GW-RS0930-14 GW-RS0105-15 PP-RS0023-14 PP-RS0008-15 GW-RS0145-15 GW-RS0145-15	FEP-06/356/2009 5 Mar 2013 355439 4 Feb 2013 5213-134-C3790-01 8 Mar 2013 7016883 18 Feb 2013 WT00018223-2014 28 Jan 2014 WT00020594-2014 22 Dec 2014 GW-RS0966-14 12 Sep 2014 GW-RS0295-15 19 Mar 2015 GW-RS0930-14 8 Sep 2014 GW-RS0105-15 5 Feb 2015 GW-RS0296-15 19 Mar 2015 GW-RS0296-15 19 Mar 2015 GW-RS0296-15 19 Mar 2015 GW-RS0105-15 19 Mar 2015  PP-RS0023-14 18 Sep 2014  PP-RS0008-15 10 Mar 2015 GW-RS0145-15 11 Feb 2015 GW-RS0145-15 11 Feb 2015	FEP-06/356/2009       5 Mar 2013       N/A         355439       4 Feb 2013       N/A         5213-134-C3790-01       8 Mar 2013       N/A         7016883       18 Feb 2013       18 Jul 2017         WT00018223-2014       28 Jan 2014       31 Jan 2019         WT00020594-2014       22 Dec 2014       31 Jan 2019         GW-RS0966-14       12 Sep 2014       27 Sep 2014 to 26 Mar 2015         GW-RS0295-15       19 Mar 2015       27 Mar 2015 to 26 Sep 2015         GW-RS0930-14       8 Sep 2014       10 Sep 2014 to 8 Mar 2015         GW-RS0105-15       5 Feb 2015       7 Feb 2015 to 4 Aug 2015         GW-RS0296-15       19 Mar 2015       23 Mar 2015 to 22 Sep 2015         PP-RS0023-14       18 Sep 2014       20 Sep 2014 to 17 Mar 2015         PP-RS0008-15       10 Mar 2015       12 Mar 2015 to 11 Sep 2015         GW-RS0145-15       11 Feb 2015       13 Feb 2015 to 12 Aug 2015         GW-RS0144-15       12 Feb 2015       13 Feb 2015 to 12 Aug 2015         GW-RS0145-15       12 Feb 2015       9 Mar 2015 to 8

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

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 EP-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	WT00016561-2013	9 Jul 2013	31 Jul 2018	Valid
Construction Noise Permit	GW-RS1259-14	7 Nov 2014	9 Nov 2014 to 3 May 2015	Valid
	GW-RS0154-15	11 Feb 2015	12 Feb 2015 to 8 Aug 2015	Valid
	GW-RS0309-15	20 Mar 2015	21 Mar 2015 to 19 Sep 2015	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/15-169	9 Feb 2015	8 Aug 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/15-215	3 Feb 2015	7 Mar 2015	Expired
	EP/MD/15-255	25 Mar 2015	30 Apr 2015	Valid

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

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.

Table 4.1 Noise Monitoring Station

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

# **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.

Table 4.2 Real Time Noise Monitoring Station

District	Station	Description
North Point	RTN2	Oil Street Community Liaison Centre
North Point	RTN2a	Electric Centre

- 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<sub>eq</sub>). L<sub>eq (30 minutes)</sub> shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time

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- periods,  $L_{eq (5 \text{ minutes})}$  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.

Table 4.3 Air Monitoring Station

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	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

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.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
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

Station Ref.	Location Easting Northing		Northing
P3	The Academy of performing Arts 835824.6 816212.0		816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2
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

## 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.

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
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

# Notes:

- 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.

#### SALINITY

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 4.1*.

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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

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

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- 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).



- 5.0.1. 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 <u>Figure 2.1</u> and <u>Figure 4.1</u>. 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

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

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 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 5.2 Noise 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.

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

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

- 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 5.4 Noise 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> 5.2.

# 5.2 Real-time Noise Monitoring

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

- 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

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

District	Station	Description
North Point	RTN2a	Electric Centre

- 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 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 28 February 2015 and 3, 4, 5, 6, 7 and 9 March 2015 and 26 March 2015 during day time in the reporting month. After checking with Contractor of HY/2009/19, trench excavation and sheet piling works were undertaken by the Contractor and noise mitigation measures including erection of noise blanket was implemented by the Contractor while breaking works and excavation works was observed across March 2015 at the construction site located next to the concerned monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works.



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 <u>Appendix 5.3.</u>

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

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



Station	Description
CMA3a	CWB PRE Site Office

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 <u>Appendix 5.3</u>.

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

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

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

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

5.3.8. 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. HK/2012/08- Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West</u>

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

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

Station	Description
CMA5b	Pedestrian Plaza

5.3.10. 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)

5.3.11. 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
CMA3a	CWB PRE Site Office



5.3.12. 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*.

# 5.4 Water Monitoring Results.

- 5.4.1. 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.
- 5.4.2. Due to material obstruction at monitoring location and safety consideration on nearby barge lifting operation, the Enhance DO monitoring at monitoring station Ex-PCWA SE on 2 March 2015 during flood tide was cancelled.
- 5.4.3. 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
- 5.4.4. 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.
- 5.4.5. 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.
- 5.4.6. 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.
- 5.4.7. 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.
- 5.4.8. 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.
- 5.4.9. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2014.
- 5.4.10. 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



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- 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.
- 5.4.11. 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.
- 5.4.12. 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.
- 5.4.13. 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.
- 5.4.14. 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.
- 5.4.15. 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.
- 5.4.16. 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.
- 5.4.17. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- 5.4.18. 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.
- 5.4.19. 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.
- 5.4.20. 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.
- 5.4.21. 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.

- 5.4.22. 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;
- 5.4.23. 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.
- 5.4.24. 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.
- 5.4.25. 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.

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

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 <sup>1</sup>	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 <sup>1</sup> , C1 <sup>1</sup>	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 <sup>3</sup> , P3 <sup>3</sup> , P4 <sup>3</sup> , P5 <sup>3</sup>	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 <sup>4</sup> , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 <sup>4</sup> , C7 (plus enhanced DO monitoring)	Mar 2014

#### 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.

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

5.4.26. 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

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

5.4.27. 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.

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

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

#### 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.

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

5.4.28. 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

<u> </u>							
Station Ref.	Location	Easting	Northing				
WSD Salt Water Intake							
WSD19	Sheung Wan	833415.0	816771.0				
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 Section)</u>

- 5.4.29. 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.
- 5.4.30. 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.
- 5.4.31. 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:

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- 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.

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

- 5.4.32. 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.
- 5.4.33. 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.
- 5.4.34. 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.
- 5.4.35. 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.
- 5.4.36. 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.
- 5.4.37. 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.
- 5.4.38. 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 
  Appendix 5.4.



# Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood					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	0	1	0	0	0	0	2	3	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	2	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	2	1	0	0	0	0	2	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, WSD19, 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
- 5.4.39. There were 4 action level and 4 limit level exceedance of turbidity recorded in the reporting month. Investigation found that the exceedance was not related to Project works. The details of recorded exceedances can be referred to the **Section 6.4**.
- 5.4.40. 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.

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

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	)	DO		
		AL	LL	AL	LL	
	C6 C7		0	0	0	
HY/2009/15			0	0	0	
H1/2009/15	Ex-WPCWA SW	0	0	0	0	
	Ex-WPCWA SE	0	0	0	0	
Total		0	0	0	0	

- 5.4.41. There were no action level and limit level exceedance of enhanced dissolved oxygen recorded in this reporting month.
- 5.4.42. 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.
- 5.4.43. 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
- 5.4.44. 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

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

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*.

Table 5.19 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	62116.405	TKO137, TM38



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials recycled, m <sup>3</sup>	NIL	5856.5	N/A
Non-inert C&D materials disposed, m³	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), m³	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 <sup>3</sup>	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
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 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*.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	276075.1	TKO137 / TM 38
Inert C&D materials recycled, m <sup>3</sup>	NIL	18161	N/A
Non-inert C&D materials disposed, m³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	N/A	N/A	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup> *	1996	243815 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup> *	0	150573 (Bulk volume)	East of Sha Chau

<sup>\*</sup>Remarks: The quantity of Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) for Feb 2015 is 3331m³ and 521m³ respectively. The cumulative quantity is updated in March reporting month.

5.5.4. There were marine sediment Type 1 – Open Sea Disposal (Dedicate Sties) 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 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 <sup>3</sup>	NIL	141579.2	Tuen Mun Area 38	NIL
	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m <sup>3</sup>	NIL	304	ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m³	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



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	NIL (Bulk Volume)	125208 (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 <sup>3</sup>	NIL (Bulk Volume)	287285 (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 <sup>3</sup>	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), m³	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 Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangemen t
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-arrangemen t

5.5.6. There were no Type 1 Open Sea Disposal and Type 1 Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine 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*.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	NIL	355921.04	TM38
Inert C&D materials recycled, m³	NIL	59367	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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), m³	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m³	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	

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 Wan Chai West</u>

5.5.9. There was 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*.

Table 5.23 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	245	4131	TM38
Inert C&D materials recycled, m³	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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), m³	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 –	NIL	108485	South of The Brothers

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	(Bulk volume)	(Bulk volume)	(from 27 Aug 2013 onwards)

5.5.10. 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. Inert C&D waste was disposed and no non-inert C&D waste disposed in this reporting month.

Details of the waste flow table are summarized in *Table 5.24* 

Table 5.24 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	2918.60	2918.60	N/A
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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)	360	54940	South Cheung Chau / Brothers Island *
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 Type 1 – Open Sea Disposal disposed in this reporting month. No Type 3 – Special Treatment and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.



# 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

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

6.1.1 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> WanChai East

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

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. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 28 February 2015 and 3, 4, 5, 6, 7, 9 and 26 March 2015 during day time in the reporting month. After checking with Contractor of HY/2009/19, trench excavation and sheet piling works were undertaken by the Contractor and noise mitigation measures including erection of noise blanket was implemented by the Contractor while breaking works and excavation works was observed across March 2015 at the construction site located next to the concerned monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works.

# 6.3 Air Monitoring

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

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 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 Shelter Section)</u>

6.3.3 No exceedance was recorded in the reporting month.

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

6.2.1. No exceedance was recorded in the reporting month.

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

6.2.2. No exceedance was recorded in the reporting month.

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

6.2.3. 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 this reporting month.

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

6.4.2 No exceedance was recorded in this reporting month.

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

- 6.4.3 There were occasionally turbidity exceedances recorded at RW21-P789 on 11 and 18 March 2015.
- 6.4.4 After checking with Contractor, no marine construction activity was conducted on 11 and 18 March 2015. Silt curtain at monitoring station was generally in order. In view of no marine activities conducted on the monitoring date and the exceedances were not continuous, it was considered that the exceedances were not project related.

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

6.4.5 No exceedance was recorded in this reporting month.

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 (March 2015)

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

6.4.6 No exceedance was recorded in this reporting month.

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

- 6.4.7 There were occasionally turbidity exceedances recorded at monitoring station WSD19 on 7, 11, 13, 18, 20 and 23 March 2015.
- 6.4.8 After checking with Contractor, despite transfer of soil from land to barge was conducted on 7, 11, 13 and 23 March 2015, Contractor mitigation measures including the use of silt curtain was generally in place. Silt screen at monitoring station was generally in order. In view of the construction area was located at the downstream of WSD19 monitoring station and no exceedance was recorded in the subsequent monitoring, it was considered that the exceedances were not project related.
- 6.4.9 No marine construction activity was conducted on 18 March 2015. Despite silt screen cleaning was conducted under contract HK/2009/01 during monitoring period, Contractor cleaning procedure was considered in order and away from the intake location and was considered not contributing the turbidity exceedance. In view of no exceedance was recorded in the subsequent monitoring, it was considered that the exceedance was not project related.
- 6.4.10 Despite removal of rock armour was conducted on 20 March 2015, Contractor mitigation measures including the use of silt curtain was generally in place. Silt screen at monitoring station was generally in order. In view of the construction area was located at the downstream of WSD19 monitoring station and no exceedance was recorded in the subsequent monitoring, it was considered that the exceedance was not project related.

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

6.4.11 No exceedance was recorded in this reporting month.

# 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.

# 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, removal of L-shape wall and socket H piling works were performed in March 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 marine works at HKCEC areas, tunnel works and foundation works at Wan Chai East and temporary reclamation 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, land based bored pilling works and ELS works at Victoria Park, bridge construction and tunnel works at North Point area. Marine-based construction activities were seawall construction and filling works at TS3 at Causeway Bay Typhoon Shelter 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 4, 11, 19 and 25 March 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.1.*

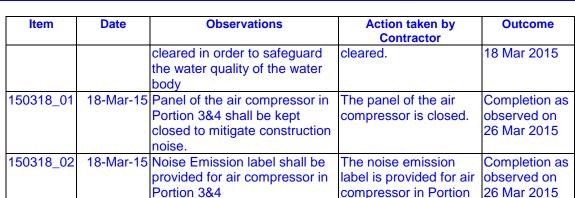
Table 8.1 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Outcome
150304_01	4-Mar-15	Drip tray shall be provided for oil containers at Stage 3.	Oil containers were removed and disposed at Stage 3.	Completion as observed on 11 March 2015
150304_02	4-Mar-15	Wheel washing facilities shall be improved to avoid any muddy water trail on public road and drain into existing storm water drainage at Stage 2.	Wheel washing facilities has relocated and closed.	Completion as observed on 19 March 2015
150304_03	4-Mar-15	Silt curtain shall be fully extend to seabed level and maintain properly at Expo Drive East.	Silt curtain is properly maintained at Expo Drive East.	Completion as observed on 11 March 2015
150311_01	11-Mar-15	Mechanical cover provided for trucks material transport shall be kept close at public road	Mechanical cover is provided and used for truck material transport.	Completion as observed on 19 March 2015
150311_02	11-Mar-15	Contaminated water at Stage 3 shall be properly treated before discharge.	Water is treated with provision of sediment tank before discharge.	Completion as observed on 19 March 2015
150319_01	19-Mar-15	Adequate capacity of drip tray shall be provided for oil containers at Stage 3.	Oil containers were removed and disposed at Stage 3.	Completion as observed on 25 March 2015
150325_01	25-Mar-15	Chemical container shall be properly handle and stored in Stage 2.	Chemical containers were stored properly in designated area.	Completion as observed on 1 April 2015

8.0.3. Four site inspections for Contract no. HK/2009/02 were carried out on 5, 12, 18 and 26 March 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table* 8.2.

Table 8.2 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
150312_01			Frame-type silt curtain is properly maintained and has fully extended.	observed on
150312_02		Materials on the existing seawall at Portion 3&4 shall be		Completion as observed on



3&4

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 3, 9, 17 and 23 March 2015 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
150309_1	9-Mar-2015	Provide cover to the cement bags stored on site (EX-PCWA)	Cement bags were covered with tarpaulin sheet.	Completion as observed on 17 March 2015
150309_2	9-Mar-2015	Provide drip tray to oil containers (EX-PCWA)	Oil containers have been removed	Completion as observed on 17 March 2015
150309_3	9-Mar-2015	Provide mitigation measure to prevent seepage of muddy water (EX-PCWA)	No further seepage was observed soil surface stabilized	Completion as observed on 17 March 2015
150317_1	17-Mar-2015	Collect floating refuses accumulated inside work area (EX-PCWAW)	Floating refuses have been removed	Completion as observed on 31 March 2015
150323_1	23-Mar-2015	Critical area shall be provided with temporary drainage and embankment to prevent overflow of surface effluent to nearby water (EX-PCWAW)	Surface treatment was provided to the critical area for effluent collection	Completion as observed on 31 Mar 2015.
150323_2	23-Mar-2015	Provide drip tray to chemical container (EX-PCWAW)	Drip tray was provided to chemical containers	Completion as observed on 31 Mar 2015.

- 8.0.5. Four site inspections for Contract no. HY/2009/19 were carried out on 4, 11, 18 and 25 March 2015 in reporting month. No particular finding was observed in the reporting month. The results of these inspections and outcomes are summarized in *Table 8.4*.
- 8.0.6. Four site inspections for Contract no. HK/2012/08 were carried out on 3, 10, 17 and 24 March 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.5*

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

Item	Date	Observations	Action taken by	Outcome
			Contractor	
150303_01	3-Mar-15	Chemical waste on site shall	All chemical waste	Completion as
		be properly handle and	containers were clear	observed on 10
		dispose.	on site and disposed.	March 2015
150317_01	17-Mar-15	Drip tray under the generator	The materials inside	Completion as
		shall be properly maintain to	the drip tray has	observed on 24
		ensure it provide adequate	cleared and it has	Mar 2015
		capacity for the generator at	maintained properly.	
		Portion IC.		
150317_02	17-Mar-15	Empty container along the	Empty containers are	Completion as
		water channel shall be	cleared along the	observed on 24
		collected and dispose as	water channel.	Mar 2015
		chemical waste.		
150324_01	24-Mar-15	All oil containers on site shall	All oil containers on	Completion as
		be provided with drip tray.	site were placed on a	observed on 31
			drip tray.	Mar 2015

8.0.7. Five site inspections for Contract no. HY/2010/08 were carried out on 5, 10, 19 and 26 March 2015 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.6* 

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

Item	Date	Observations	Action taken by Contractor	Outcome
150305_1	5-Mar-15	Replace damaged silt curtain surrounding the filling works area (TS3)	The condition of the silt curtain was improved	Completion as observed on 10 Mar 2015
150310_1	10-Mar-15	Clear the scum / floating refuses entrapped around the silt screen location (TS3)	Floating refuses and scum were cleared	Completion as observed on 19 Mar 2015
150310_2	10-Mar-15	Provide drip trap to oil container (TS3)	Oil containers have been removed	Completion as observed on 19 Mar 2015

# 9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was no environmental complaint received in the reporting month..
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix* 9.1
- 9.0.3. 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	35
March 2015	0
Total	35

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*.

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Nil	• Nil
HK/2009/02	<ul> <li>Install Seawall caisson fabrication at PRC</li> <li>Reclamation works at WCR3</li> </ul>	<ul> <li>To well maintain the mechanical equipment/ machineries to avoid abnormal noise nuisance and dark smoke emission</li> <li>To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> <li>Review silt screen deployment and</li> </ul>
		<ul> <li>silt curtain deployment and resubmit associate plans to EPD</li> <li>Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.</li> </ul>
HY/2009/15	<ul> <li>Dredging of Phase 3 Mooring</li> <li>Reinstatement of vertical seawall at TPCWAE</li> </ul>	<ul> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> <li>Implement silt curtain in accordance with the associated plans submitted to EPD.</li> </ul>
HY/2009/19	• Nil	<ul> <li>To space out noisy equipment and position as far as possible from sensitive receiver.</li> </ul>
HK/2012/08	<ul> <li>Placing of levelling stones</li> <li>Dry dock construction</li> <li>Pre-bored H-pile construction on temporary piling platform</li> <li>Removal of rock armour</li> </ul>	<ul> <li>To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>To space out noisy equipment and position as far as possible from sensitive receiver.</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>

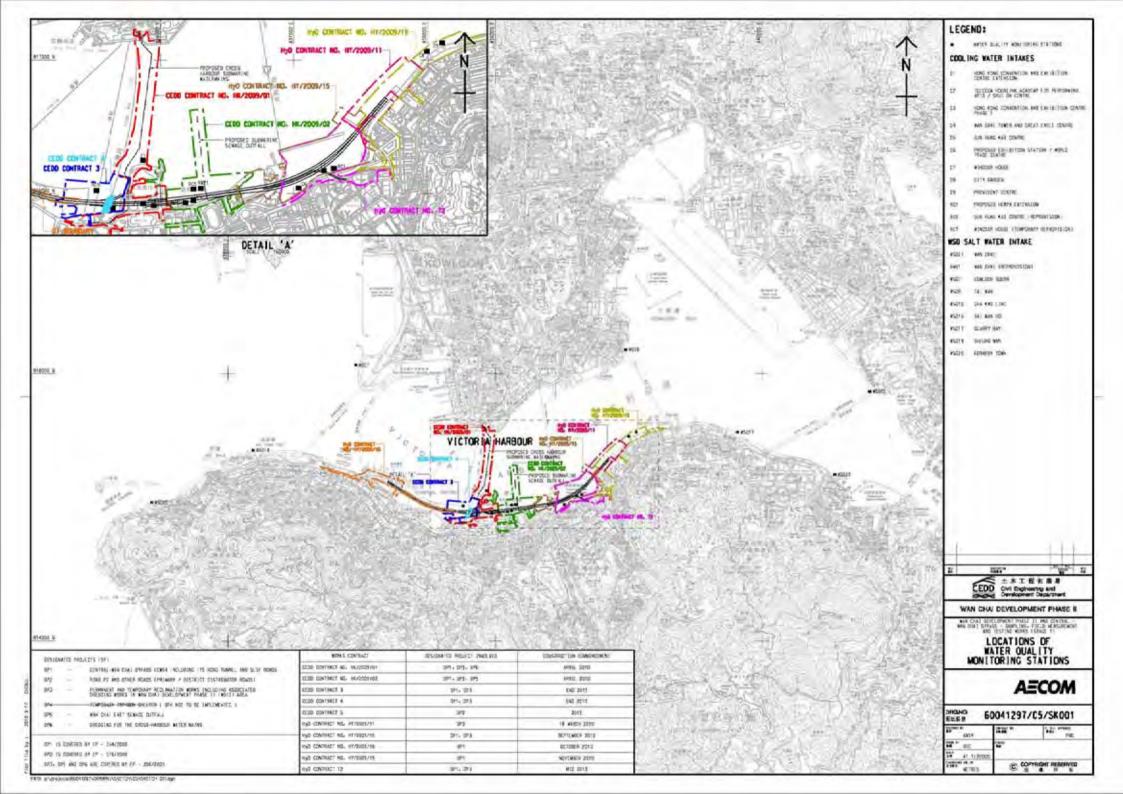
# **Lam Geotechnics Limited**

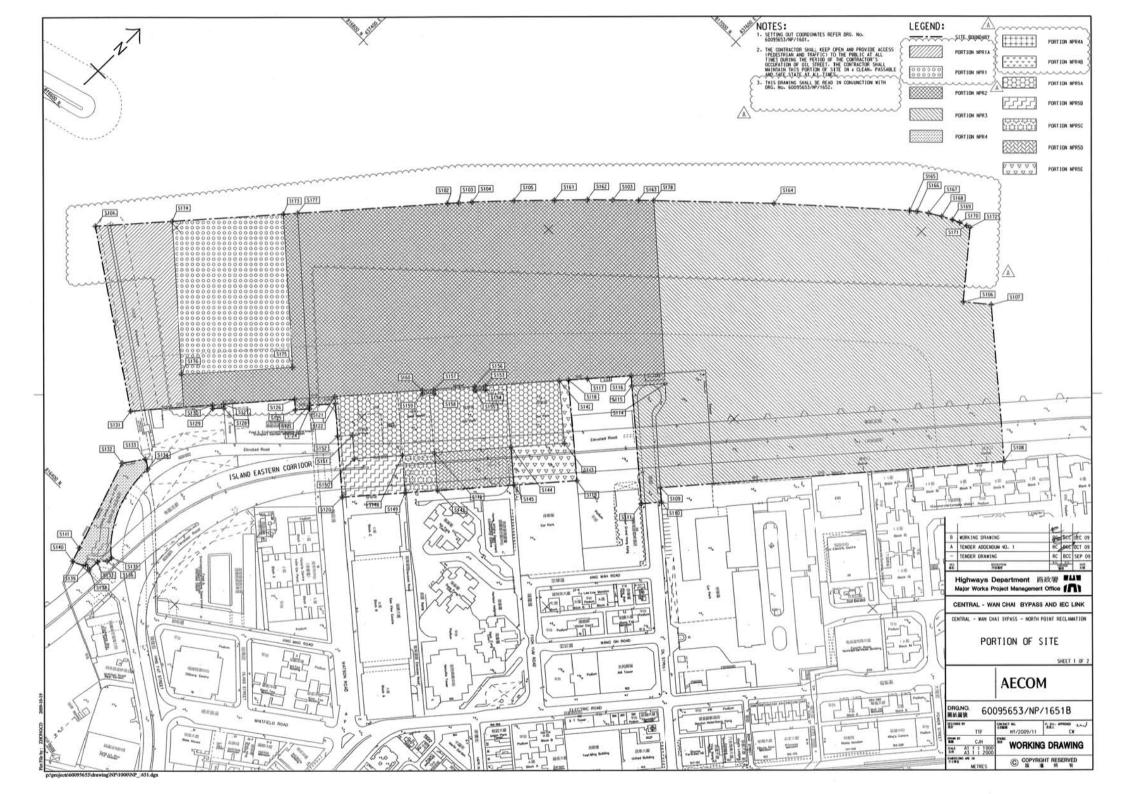
Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (March 2015)

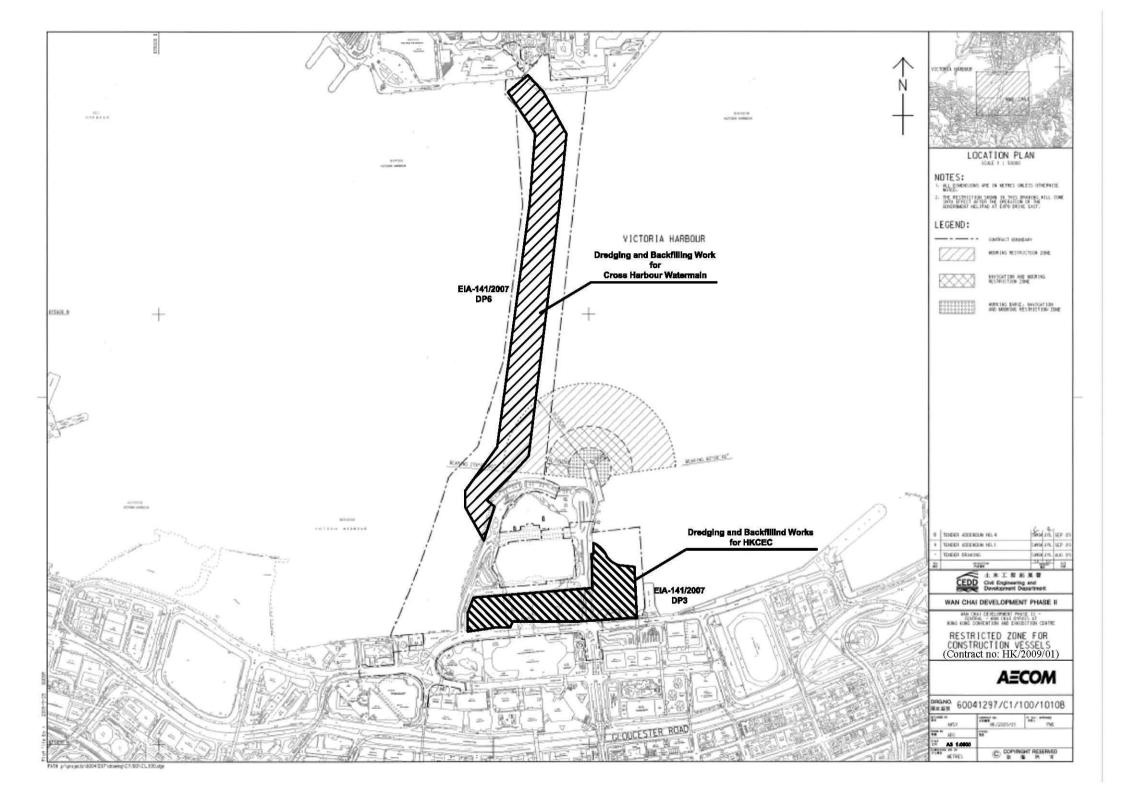
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2010/08	<ul> <li>Rock filling works</li> <li>Seawall blocks installation</li> <li>Pre-treatment works</li> <li>Bar fixing works</li> <li>Diaphragm Wall, Barrette and King Post construction works</li> <li>Fill Disposal works</li> </ul>	<ul> <li>To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>

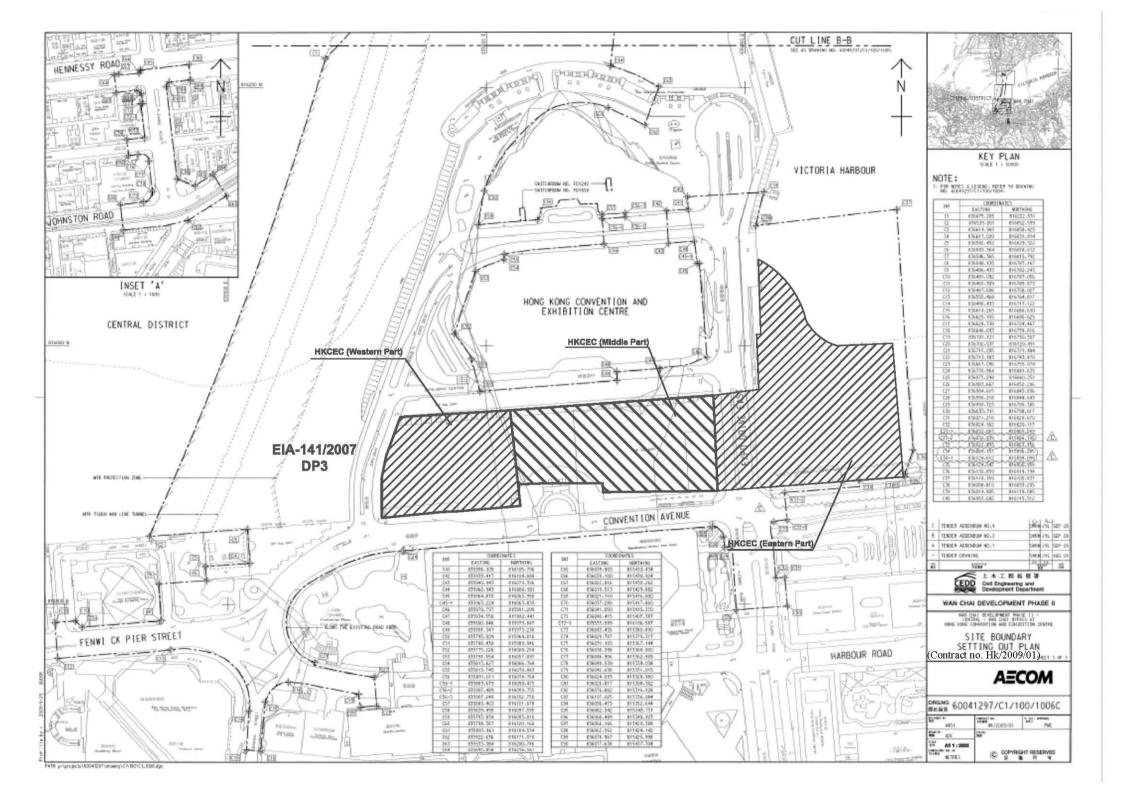
Figure 2.1

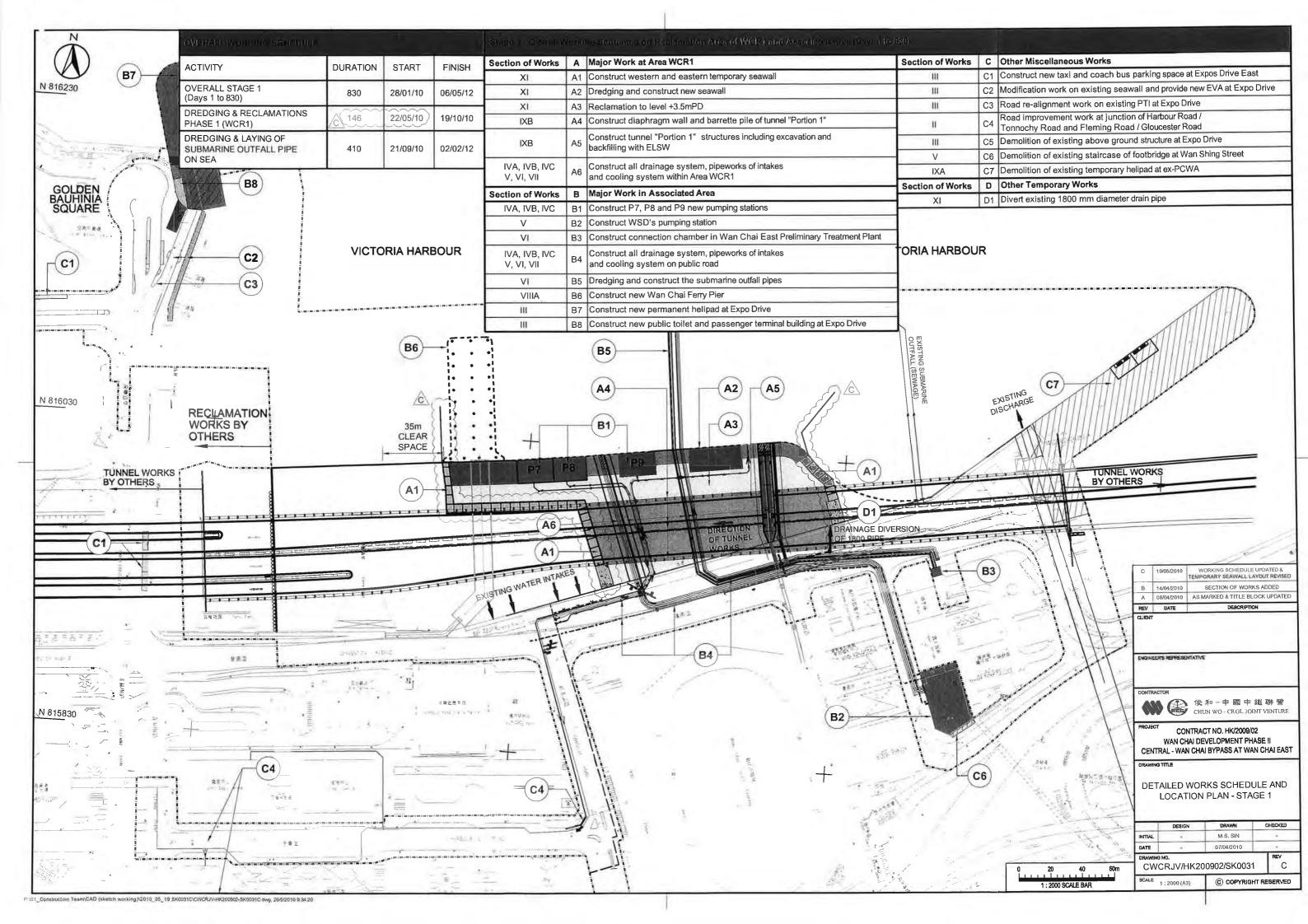
Project Layout

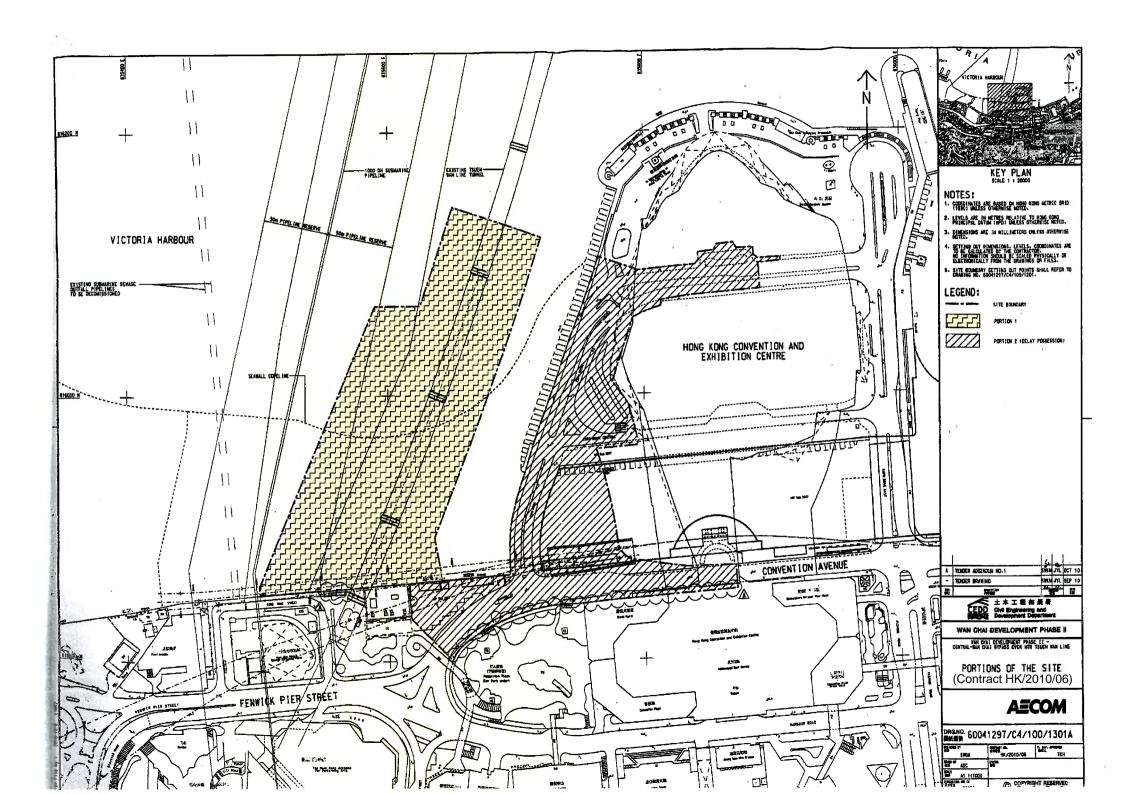


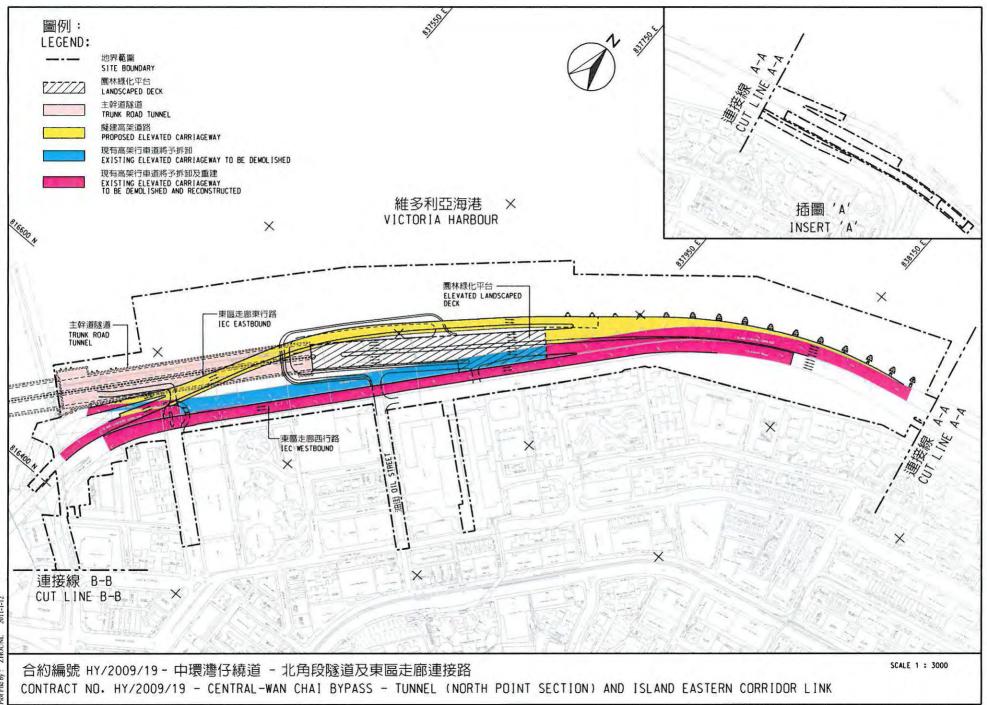


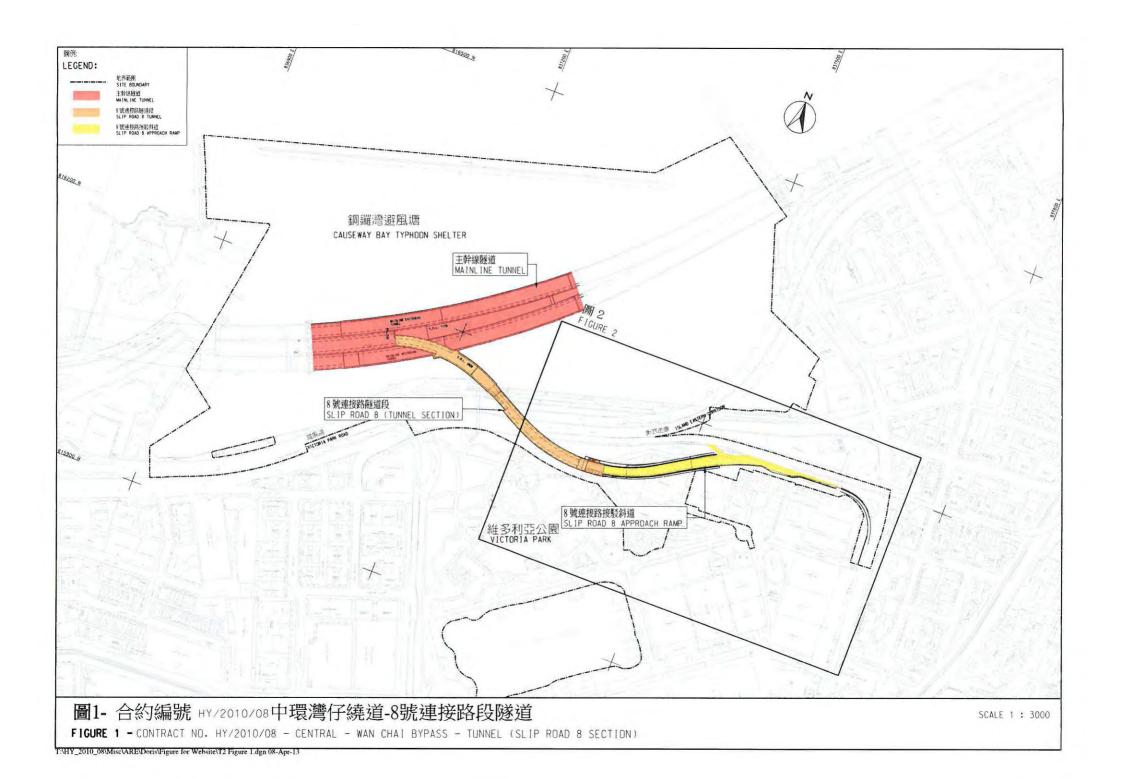


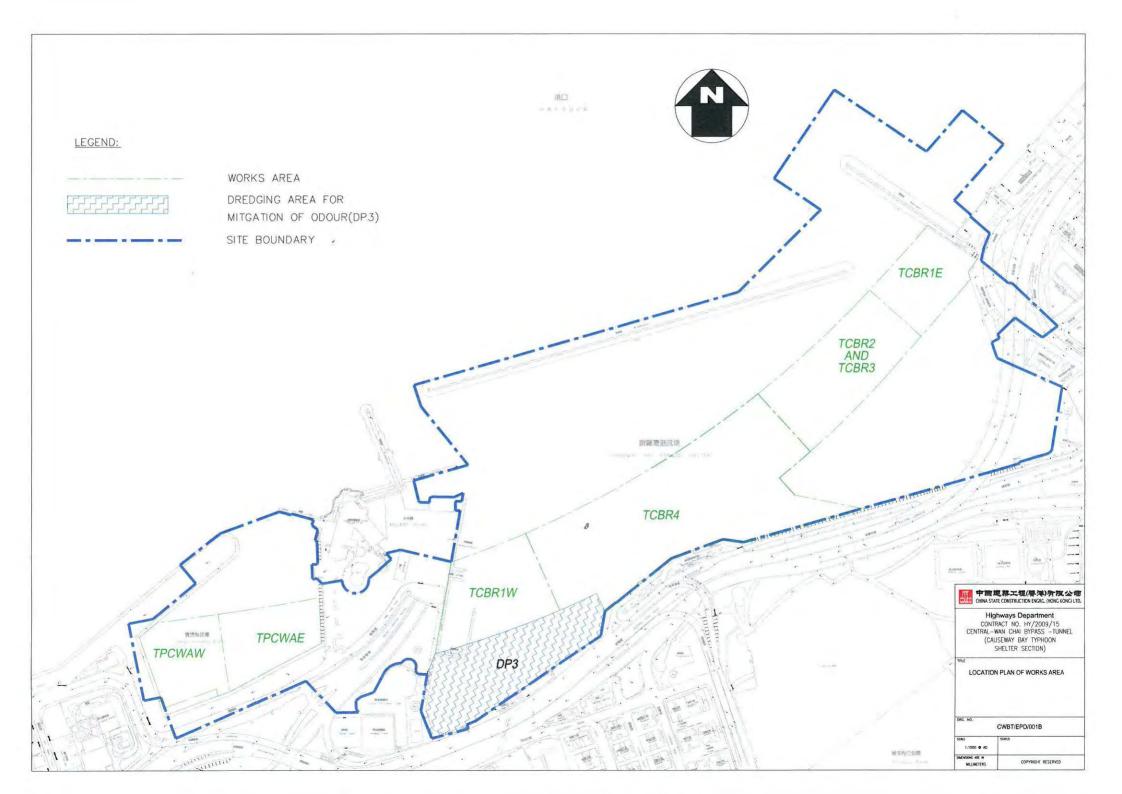


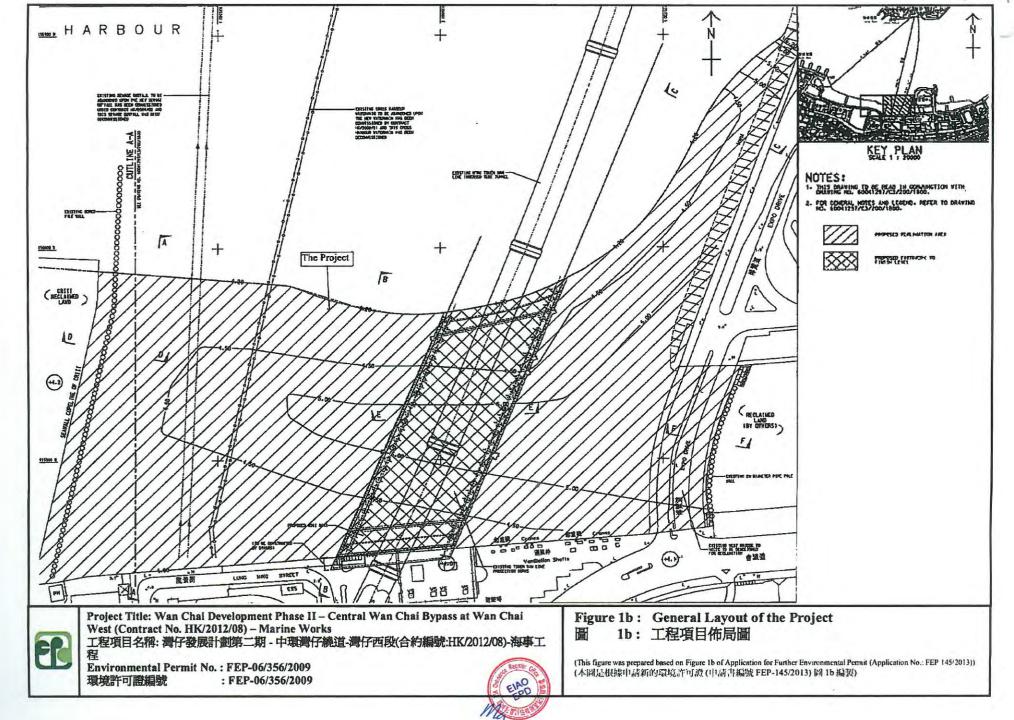








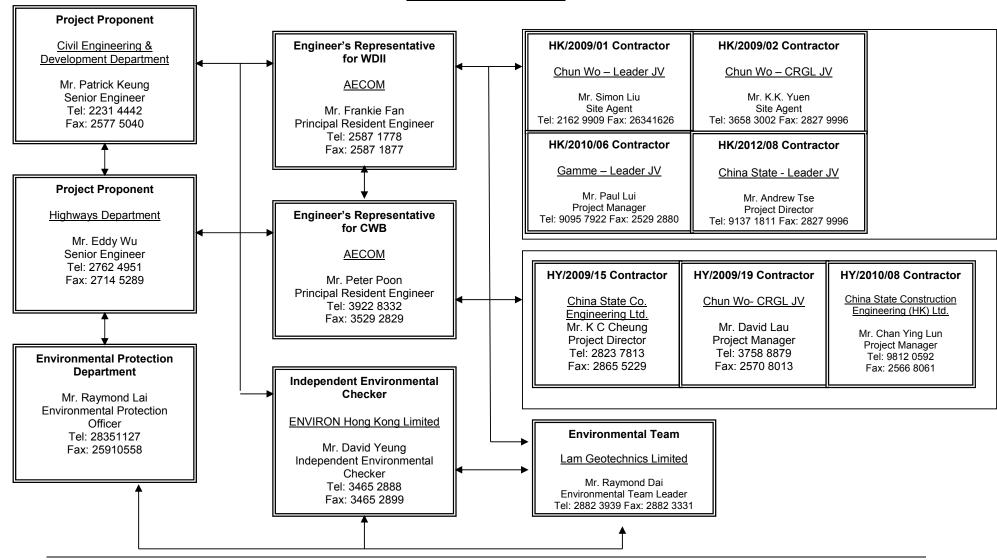




# Figure 2.2

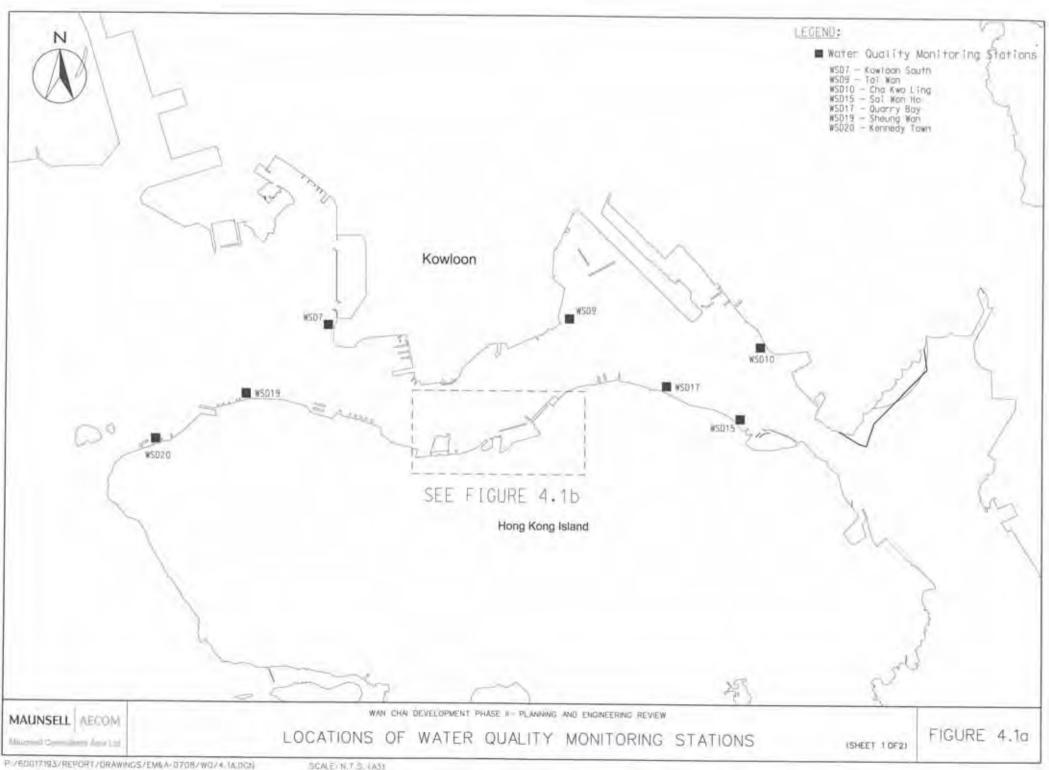
**Project Organization Chart** 

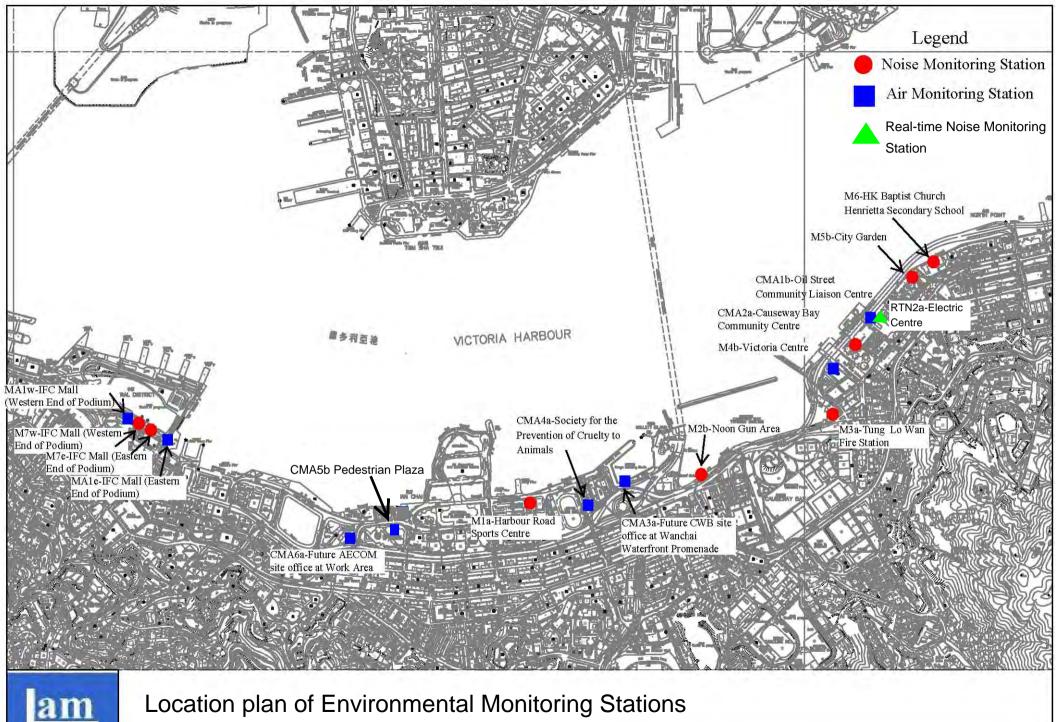
#### **Project Organization Chart**



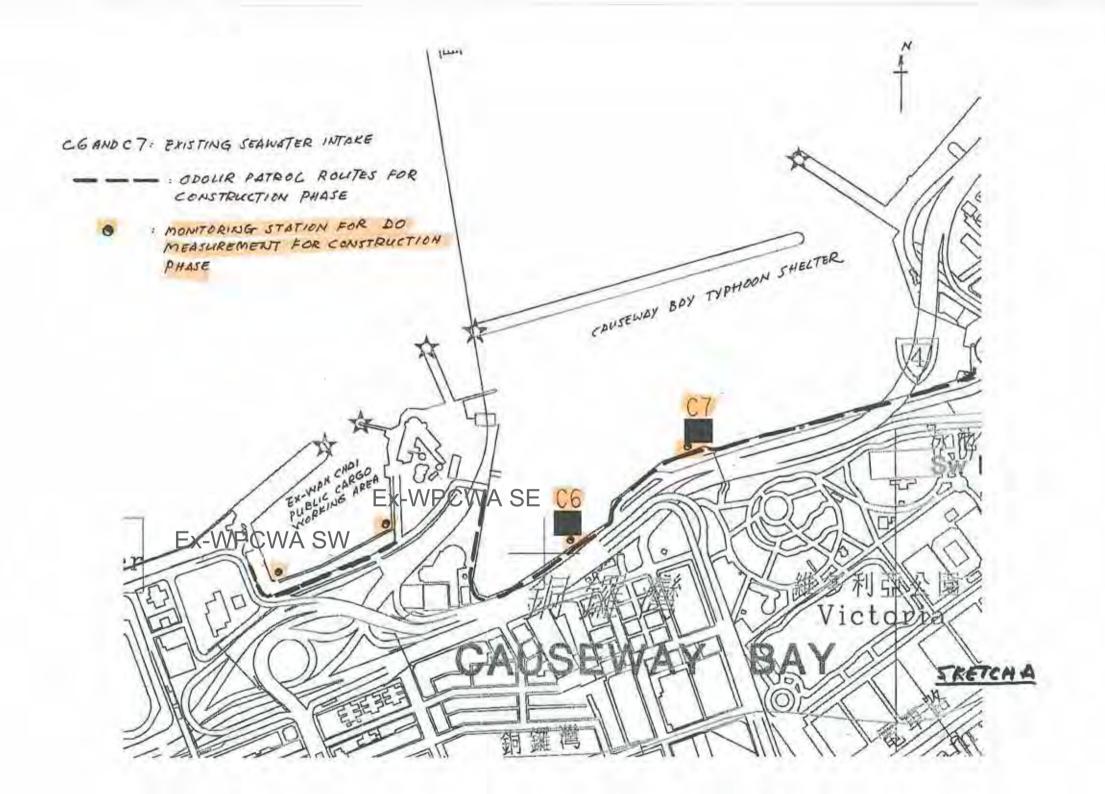
# Figure 4.1

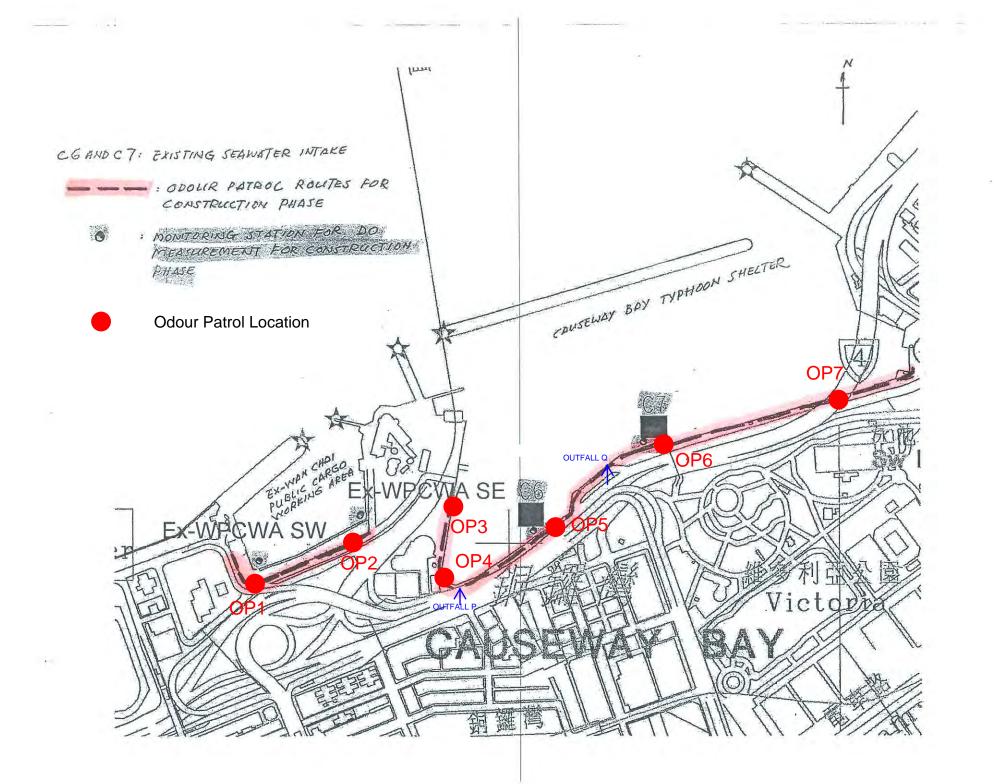
Locations of Monitoring Stations

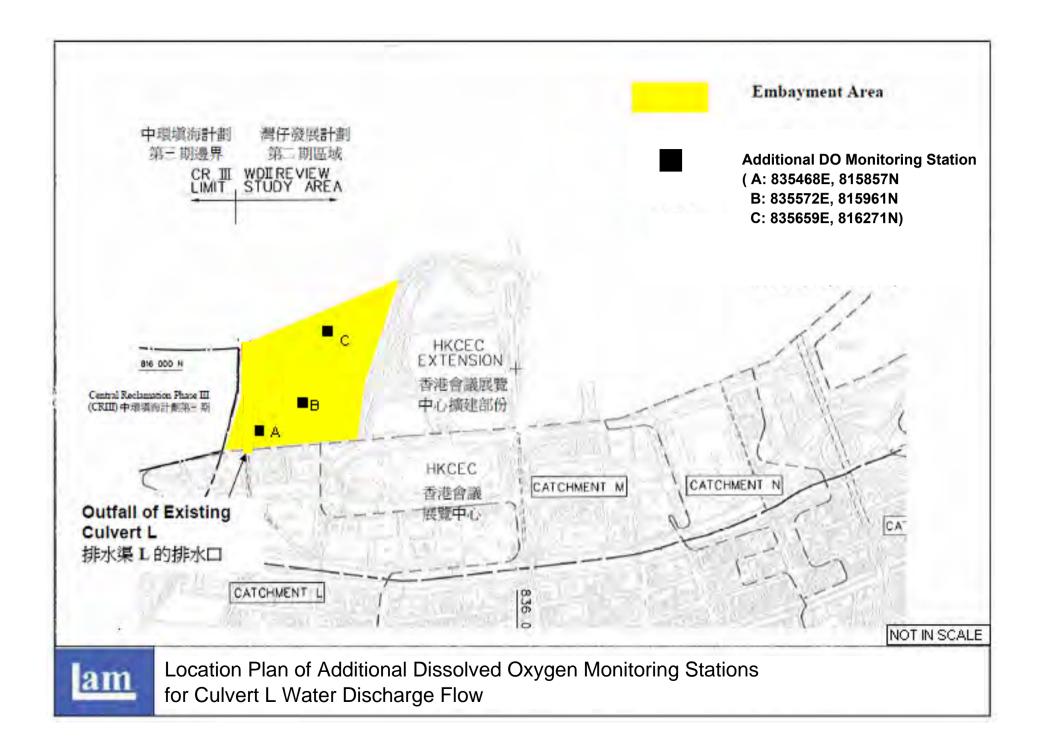


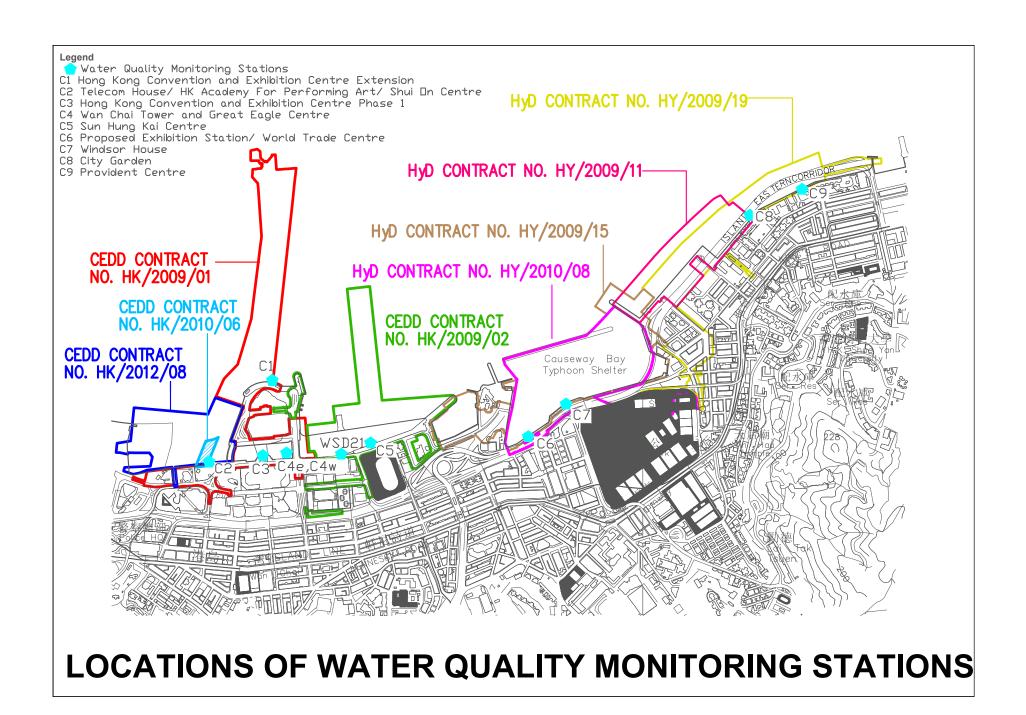


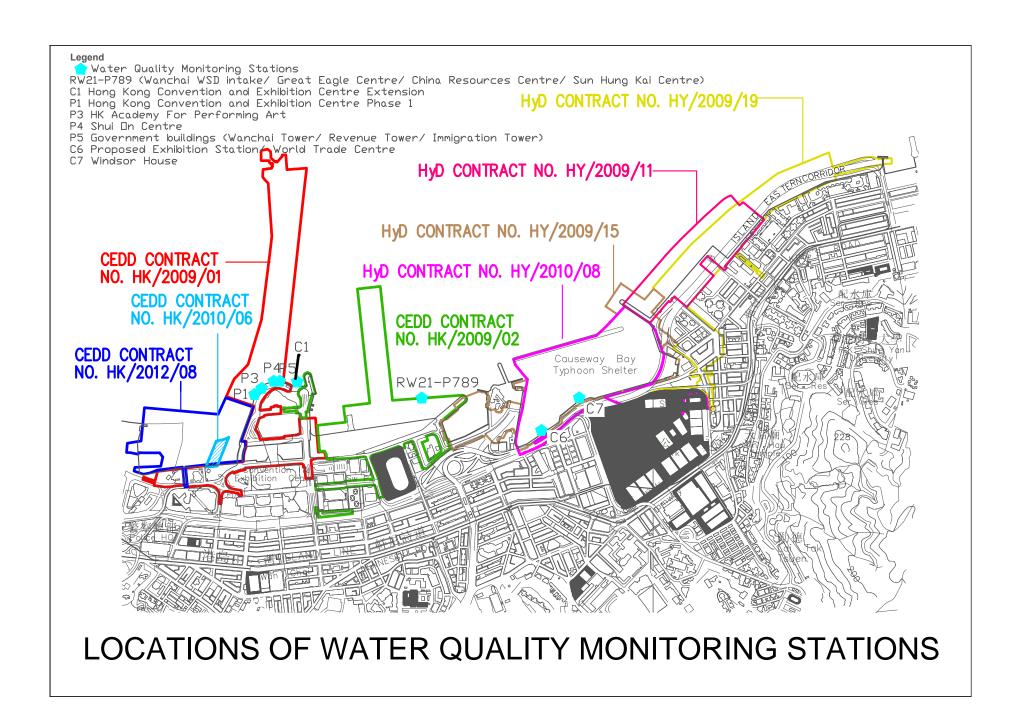
Location plan of Environmental Monitoring Stations

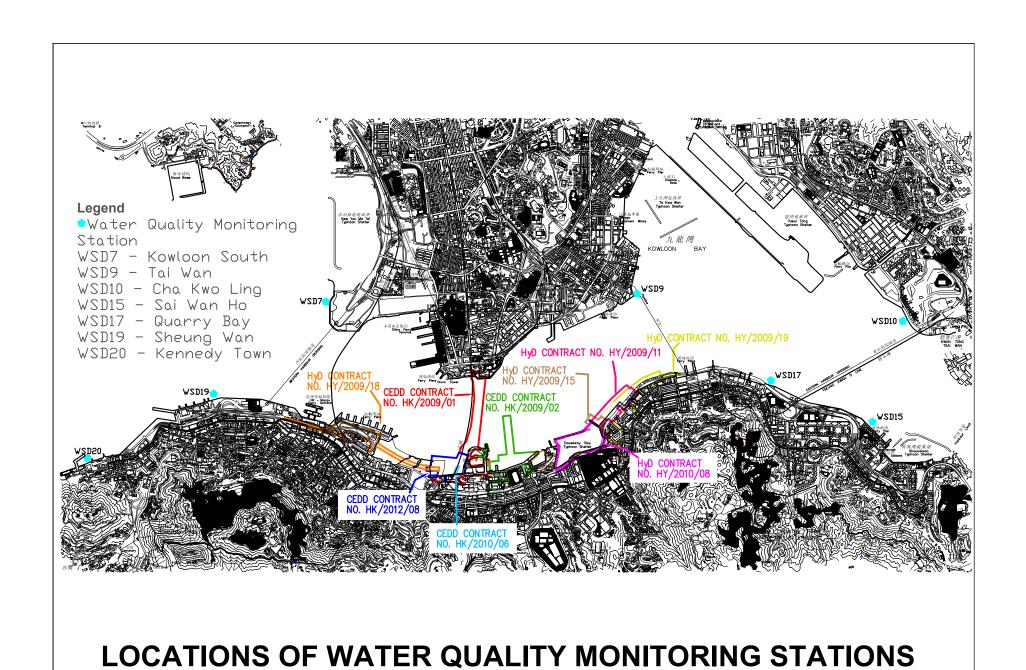


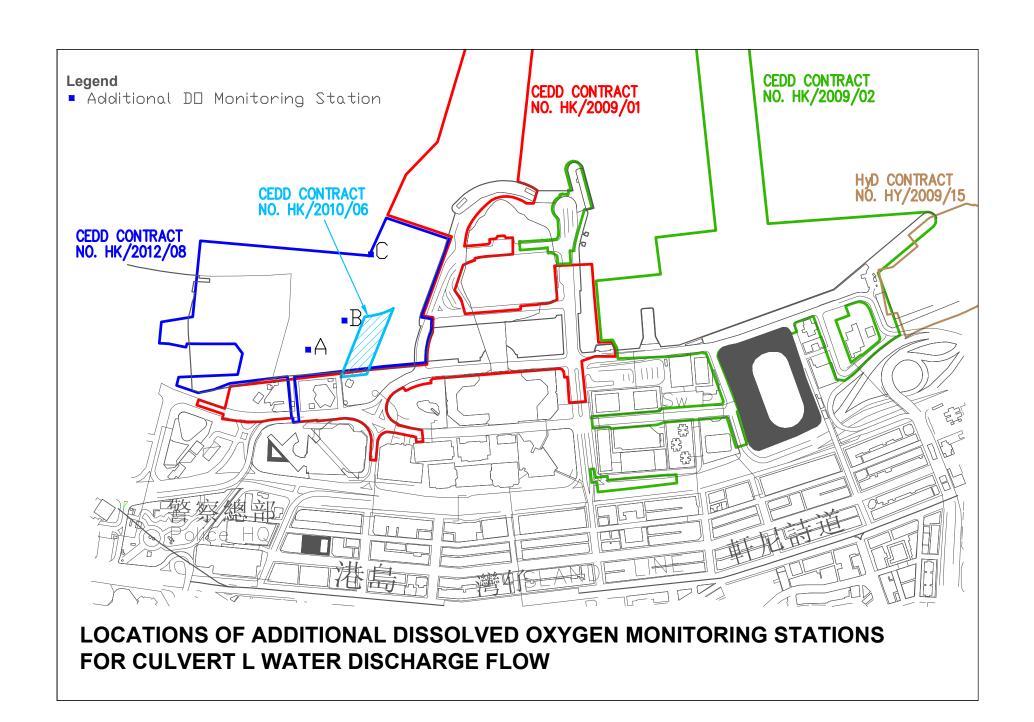












## Appendix 3.1

**Environmental Mitigation Implementation Schedule** 

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Environmental Mitigation Implementation Schedule

### Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
		Ü	Agent	Des	C	О	Dec	and Guidelines
Construction								
For the Wh	ole Project							
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
\$3.8.1	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.	construction	Contractor		٧			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	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 <sup>1</sup>		√			EIAO-TM
S3.8.8	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 <sup>2</sup>		1			EIAO-TM
Operation I	Phase		I	Į.	1	1	1	
For the Who	ole Project							

 $<sup>^{\</sup>rm 1}$  CEDD will identify an implementation agent.

 $<sup>^{2}</sup>$  CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
			Agent	Des	C	О	Dec	and Guidelines
S3.10.2	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 ongoing odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD <sup>1</sup>			1		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
S3.6.53 – S3.6.54	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			1		
S3.10.2	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			1		EIAO-TM

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

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 $\label{thm:chain} \mbox{Wan Chai Development Phase II and Central-Wanchai Bypass}$ 

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

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### Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	Relevant Legislation	
				Des	C	О	Dec	and Guidelines
Construction	n Phase							
For the Who	ole Project							

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
22.2.2.02	Zirir olimorium 110000000 rizonouros / rizonouros	zoemuon, riming	Agent	Des	C	0	Dec	and Guidelines
S4.9.4	<ul> <li>Good Site Practice:</li> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities.</li> </ul>	Work Sites / During Construction	Contractor		7			EIAO-TM, NCO
For DP1 - (	CWB (Within the Project Boundary)							

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- 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
	g		Agent	Des	C	0	Dec	and Guidelines
S4.8.5 S4.8.5	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		√ ·			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		<b>√</b>			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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	О	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		1			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					EIAO-TM, NCO

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	s Location / Timing	Implementation	In	ıplem Staş		on	Relevant Legislation
	J	0	Agent	Des	C	0	Dec	and Guidelines
Operation 1	Phase							
	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation
			Agent	Des	C	o	Dec	and Guidelines
S4.8.14 – S4.8.18	<ul> <li>For Existing NSRs</li> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>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</li> <li>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</li> <li>about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC</li> <li>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</li> <li>For Future/Planned NSRs</li> <li>about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> </ul>	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	√ √	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Dec	EIAO-TM

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*		on	Relevant Legislation	
			Agent	Des	C	О	Dec	and Guidelines
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project	1				
	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					

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

<sup>#</sup> Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				Relevant Legislation
LII KU	Environmental Protection Measures / Margarion Measures	Timing	Agent	Des	C	0	Dec	and Guidelines
Construction	on Phase							
For DP3 Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	sim Sh	a Tsu	i), DP	1 – CW	B (within the Project
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		√			EIAO-TM, WPCO
S5.8	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		1			EIAO-TM, WPCO
S5.8, 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		V			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / N	Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
		- g	Timing	Agent	Des	C	О	Dec	and Guidelines
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.		Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the acc within the temporary embayment be	tween CRIII and HKCEC1, an	Work site / During the	Contractor		<b>√</b>			EIAO-TM, WPCO
	impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwate discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.		construction period						
S5.8, Figure 5.3	The total dredging rates in each of the m than the maximum production rates state production rates without considering the	ed in the table below. These are the	Work site / During the construction period	Contractor		<b>V</b>			EIAO-TM, WPCO
	Reclamation Area	Maximum Dredging Rate  m³ per hour day  Maximum Dredging Rate (m³ per (for 16 hrs per day)							
	Dredging along seawall or breakwater   North Point Shoreline Zone (NPR)   Causeway Bay   TBW   Shoreline Zone   TCBR	6,000         375         42,000           1,500         94         10,500           6,000         375         42,000           5,000         313         35,000							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
DIT NO	Environmental Freeton Freusares / Fringation Freusares	Timing	Agent	Des	C	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)         6,000         375         42,000           HKCEC Shoreline Zone         HKCEC Stage 1 & 3         1,500         94         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 m³ per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m <sup>3</sup> per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		<b>V</b>			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, 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 intakes at interim construction stages as stated below:    Interim Construction   Location of Applications	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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EIA Ref	Environmental Protection	n Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
			Timing	Agent	Des	C	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone  Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.  Scenario 2C in 2011 with	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake.  Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
\$5.8	spillage and sealed ti contaminated mud, close • all vessels shall be sized vessels and the seaber	include: used, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used; d so that adequate clearance is maintained between d in all tide conditions, to ensure that undue rated by turbulence from vessel movement or	Work site / During the construction period	Contractor		1			ProPECC PN 1/94; WPCO (TM-DSS)
	all hopper barges and their bottom openings to construction activities other objectionable madumping grounds;     loading of barges and I dredged material into the construction.	dredgers shall be fitted with tight fitting seals to o prevent leakage of material; shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or noppers shall be controlled to prevent splashing of the surrounding water. Barges or hoppers shall not a will cause the overflow of materials or polluted transportation; and							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	Relevant Legislation	
		Timing	Agent	Des	C	О	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.							
S5.8	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		√			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	C	О	Dec	and Guidelines
\$5.8	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 I 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 point, the dredging rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater intakes 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>		1			WPCO

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EIA Ref	En	nvironmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation										
LII KU		Trionmental Protection Preusures / Printigution Preusures	Timing	Agent	Des	C	0	Dec	and Guidelines										
For the Wh	ole l	Project																	
S5.8	•	Construction Runoff and Drainage	• Work site	Contractor		√			ProPECC PN 1/94;										
	•	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																	

 $<sup>^3</sup>$  CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				Relevant Legislation
		Timing	Agent	Des	C	О	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		1			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
222 202	23 TO STATE OF THE	Timing	Agent	Des	C	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	<b>V</b>	V			WPCO
Operation	Phase		I.					
	B (within the Project Boundary)							
\$5.8	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/TD³	√ 		√		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.							
ı	Sewage arising from ancillary facilities of CWB (for examples, car park,							

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		Timing		Des	C	0	Dec	
	control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities.  • Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff.  • The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.							

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

 $<sup>^{3}\,\</sup>mathrm{if}$  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	Ir		entati ges*	Relevant Legislation	
			Agent	Des	C	o	Dec	and Guidelines
Construction	on Phase							
For DP3 -	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		<b>V</b>			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.	-						
S6.7.3	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 Mm³. 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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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	Relevant Legislation	
			Agent	Des	C	0	Dec	and Guidelines
\$6.7.5	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							
S6.7.6	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 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*	Relevant Legislation	
		g	Agent	Des	C	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.							
S6.6.12	Floating Refuse 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		√			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
22.7.10.	210000001 12000000 112000000 11200000000	20cavion, 1mmg	Agent	Des	С	0	Dec	and Guidelines
\$6.7.7	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		٧			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				Des	C	o	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			
	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 Agent	Implementation Stages*				Relevant Legislation
				Des	C	o	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		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	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
S6.7.12	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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
22.7 110.7	Zaria omnesian i rottenom raenom est, raingunom raenom es	200mion, 1mmg	Agent	Des	C	О	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		1			ETWB TCW No. 31/2004
S6.7.14	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.  If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to	Work site / During the construction period	Contractor		<b>V</b>			ProPECC PN 1/94
	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.							

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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 $Table \ A13.5 \quad \ Implementation \ Schedule \ for \ Land \ Contamination$ 

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
22.7 2.07	23. To office and 12 consulted / 17 consulted	Document Timing	Agent	Des	C	0	Dec	and Guidelines
Construction	v== =							
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	<b>V</b>				"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
S7.10	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	<b>V</b>				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	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	О	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	ıplem Sta	entati ges*	on	Relevant Legislation
Dir Ker	Environmental Protection Fleusures / Finingation Fleusures	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
	Air Quality Mitigation Measures  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).							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*  Des C O Dec		on	Relevant Legislation
	8		Agent	Des	C	0	Dec	and Guidelines
	Water Quality Mitigation Measures     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.							

<sup>\*</sup> 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	Implementation Stages*			Relevant Legislation	
			Agent	Ĭ	Dec	and Guidelines		
Construction	on 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	<b>V</b>				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 -	Reclamation Works							
S.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	1				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	Implementation Stages*  Des C O Dec			Relevant Legislation
22.7 110.7	Zivitoimenta 110teetoi 112teetoi 127 Zivitoi 117teetoi 1	Document, 1mmig	Agent	Des	C	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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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	on	Relevant Legislation
22.7.10.7	Zarra omnerana a rottomon racustato y ranaganton racustato	20cavion, 1mmg	Agent	Des	C	О	Dec	and Guidelines
S.9.7.6	To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The 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	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	effectively implemented.  Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		<b>√</b>			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		<b>V</b>			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

<sup>\*</sup>Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir		entati ges*	ion	Relevant Legislation and Guidelines
					Des	C	O	Dec	
Construction	Phase				<u> </u>				
For the Whole	Project								
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	<b>V</b>	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	1	1			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	1	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	<b>√</b>			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		<b>V</b>			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		<b>V</b>			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)	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		1			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	1	<b>V</b>			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	<b>V</b>	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	<b>V</b>			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		<b>V</b>			EIAO TM

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		1			EIAO TM
For DP2 - WI	II Maio	r Roads (Road P2)							
Table 10.5	CM1		Work site / During Construction Phase	Contractor	√	1			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	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		<b>V</b>			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Red	lamatio	n Works							
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP5 - Wa	n Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		<b>V</b>			EIAO TM

Monthly EM&A Report

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA- 058/2001	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.13		programming of the works.	Construction I hase						
For DP6 - Cro	ss-Harb	our 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		1			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	se								
	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	1	√	√		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	<b>V</b>	V	V		ETWB TCW 2/2004

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)

Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- Table 10.6, Figure 10.5.5  Table 10.6, Figure 10.5.5  Table 10.6, Figure 10.5.1- Table 10.6, Figure 10.5.5  Ta	EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines	
Figure 10.5.1- 10.5.5  and associated structures.  Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases  Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- 10.5.						Des	C	О	Dec	
Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, Fig	Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	√		√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5    Table 10.6, Figure 10.5.1- 10.5.1- 10.5.1- 10.5.1- 10.5.5    Table 10.6, Figure 10.5.1- 10.5.5    Table 10.6, Figure 10.5.1- 10.5.5    Table 10.6, Figure 10.5.	Figure 10.5.1-		and associated structures.	Design Stage and						
Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6 Aesthetic streetscape design.  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM1 Aesthetic design of roadside amenity areas.  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, F	10.5.5			Operation Phases						
Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6 Aesthetic design of roadside amenity areas.  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM2 Shrub and Climbing Plants to soften proposed structures and associated structures.  Table 10.6, Figure 10.5.1- 10.5.5	Table 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	$CEDD^4$	√	<b>√</b>	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	Figure 10.5.1-			Design Stage and	_					
Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- 10.5.5	10.5.5			Operation Phases						
Table 10.6, Figure 10.5.1- 10.5.5  OM6 Aesthetic design of roadside amenity areas.  For DP1 - CWB (Within 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.  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM2 Shrub and Climbing Plants to soften proposed structures Table 10.5.1 Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM5 Aesthetic streetscape design.  Work site / During Design Stage and Operation Phases  Table 10.6, Figure 10.5.1- 10.5.5	Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5  For DP1 - CWB (Within the Project Boundary)  Table 10.6, Figure 10.5.1- 10.5.5  For DP1 - CWB (Within the Project Boundary)  Table 10.6, Figure 10.5.1- 10.5.5	Figure 10.5.1-		. 0	Design Stage and						
Figure 10.5.1- 10.5.5  For DP1 – CWB (Within the Project Boundary)  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, Pigure 10.5.1- 10.5.5	10.5.5			Operation Phases						
Table 10.6, Figure 10.5.1- 10.5.5   OM3 Buffer Tree and Shrub Planting to screen proposed roads Figure 10.5.1- 10.5.5   Table 10.6, Figure 10.5.1- 10.5.5   Table 10.6, Figure 10.5.1- 10.5.5   OM3 Aesthetic design of roadside amenity areas.   Om4 Aesthetic design of roadside amenity areas.   Operation Phases   Oper	Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 105.5  Table 10.6, Grigure 10.5.1- 105.5  Table 10.6, Figure 10.5.1- 105.5  Table 10.6, Pigure 10.5.1- 105.5  Table 10.6, Figure 10.5.1- 105.5	Figure 10.5.1-		,	Design Stage and						
Table 10.6, Figure 10.5.1- 10.5.5	10.5.5			Operation Phases						
Figure 10.5.1- 10.5.5 including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.  Table 10.6, Figure 10.5.1- 10.5.5	For DP1 - CW	B (Withi	n the Project Boundary)							
10.5.5 and noise barriers and enclosure.  Table 10.6, Figure 10.5.1- 10.5.5	Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5  OM2 Shrub and Climbing Plants to soften proposed structures Design Stage and Operation Phases  Table 10.6, Figure 10.5.1- 10.5.5  OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.  OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.  OM5 Aesthetic streetscape design.  OM6 Aesthetic design of roadside amenity areas.  OM7 Shrub and Climbing Plants to soften proposed structures Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases  OM6 Aesthetic design of roadside amenity areas.  OM7 Shrub and Climbing Plants to soften proposed structures Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases  HyD V V V ETWB TCW 2/2004  Figure 10.5.1- Design Stage and Operation Phases	Figure 10.5.1-		including viaducts, vent buildings, subways, footbridges	Design Stage and	-					
Figure 10.5.1- 10.5.5  Table 10.6, OM5  Table 10.6, OM5  Table 10.6, OM5  Table 10.6, OM5  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6  Aesthetic streetscape design.  Table 10.6, Operation Phases  Table 10.5.1- 10.5.5  Table 10.6, OM6  Aesthetic design of roadside amenity areas.  Table 10.6, Figure 10.5.1-  Table 10.6, OM6  Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases  Table 10.6, Figure 10.5.1-  Design Stage and Operation Phases  Table 10.6, OM6  Design Stage and Operation Phases  Table 10.6, Figure 10.5.1-  Design Stage and Operation Phases	10.5.5		and noise barriers and enclosure.	Operation Phases						
10.5.5 Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM5 Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM5 Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6 Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6 Table 10.6, Figure 10.5.1- Table 10.6, Figure 10	Table 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	√				ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM5 Aesthetic streetscape design.  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- 1	Figure 10.5.1-			Design Stage and						
Figure 10.5.1- 10.5.5  and associated structures.  Design Stage and Operation Phases  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6 Aesthetic design of roadside amenity areas.  Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases  Work site / During HyD V V V ETWB TCW 2/2004  Figure 10.5.1- Design Stage and Operation Phases  Table 10.6, OM6 Aesthetic design of roadside amenity areas.  Design Stage and Operation Phases  Work site / During Design Stage and Operation Phases	10.5.5			Operation Phases						
10.5.5  Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM5 Aesthetic streetscape design.  Work site / During Design Stage and Operation Phases  Operation Phases  Work site / During Design Stage and Operation Phases  Table 10.6, Figure 10.5.1- Table 10.6, Figure 10.5.1- Design Stage and Operation Phases  Work site / During HyD √ √ √ ETWB TCW 2/2004  ETWB TCW 2/2004	Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	HyD	√	<b>√</b>	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5  Table 10.6, OM6 Aesthetic streetscape design.  Work site / During Design Stage and Operation Phases  Work site / During HyD V V V ETWB TCW 2/2004  Work site / During HyD V V V ETWB TCW 2/2004	Figure 10.5.1-		and associated structures.	Design Stage and						
Figure 10.5.1- 10.5.5  Table 10.6, Figure 10.5.1- Figure 10.5.1- Design Stage and Operation Phases  Work site / During Design Stage and Design Stage and Operation Phases	10.5.5			Operation Phases						
10.5.5 Operation Phases  Table 10.6, Figure 10.5.1- OM6 Aesthetic design of roadside amenity areas. Work site / During Design Stage and Desig	Table 10.6,	OM5	Aesthetic streetscape design.		HyD	√		√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-  OM6 Aesthetic design of roadside amenity areas.  Work site / During HyD $\sqrt{}\sqrt{}\sqrt{}$ ETWB TCW 2/2004	Figure 10.5.1-			Design Stage and						
Figure 10.5.1- Design Stage and	10.5.5			Operation Phases						
	Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	HyD	√	<b>√</b>	√		ETWB TCW 2/2004
10.5.5 Operation Phases	Figure 10.5.1-			Design Stage and						
	10.5.5			Operation Phases						

<sup>&</sup>lt;sup>4</sup> CEDD will identify an implementation agent

Monthly EM&A Report

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	Implementation Stages*		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		1	1		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		√	√		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		1	V		ETWB TCW 2/2004	
For DP3 - Reci	amatio	n Works								
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 <u>⁵</u>	√	V	<b>√</b>		ETWB TCW 2/2004	

<sup>\*</sup>Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

 $<sup>^{\</sup>rm 5}$  CEDD will identify an implementation agent

# 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) <sup>Note 1</sup>

### 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 Lev	el in $\mu$ g/m $^3$	24-hour TSP Le	evel in $\mu$ 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 S	eason	Wet Season			
r ai ailletei S	Action	Limit	Action	Limit		
WSD Salt Water Intake						
SS in mg L <sup>-1</sup>	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 Intak	Cooling Water Intake					
SS in mg L <sup>-1</sup>	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.

### Action and Limit Levels for Odour Patrol

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

# Appendix 4.2

Copies of Calibration Certificates



Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510067

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 25/02/2015 DATE OF ISSUE: 04/03/2015

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:	25-Feb-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.

Mr. Peter Lee Director



**WORK ORDER:** HK1510067 **DATE OF ISSUE:** 04/03/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	25-Feb-15	
Date of next Calibation:	25-May-15	

# Parameters: Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.98	-0.5	
10	10.8	8.4	
40	39.8	-0.4	
100	100	0.2	
400	373	-6.7	
1000	964	-3.6	
	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: HK1510002

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 06/01/2015 DATE OF ISSUE: 13/01/2015

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.:	1203015	
Equipment No.:		
Date of Calibration:	08/01/2015	

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.

Mr. Peter Lee Director



**WORK ORDER:** HK1510002 **DATE OF ISSUE:** 13/01/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/01/2015	
Date of next Calibation:	08/04/2015	

### Parameters:

Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.20	5.0	
10	9.80	-2.0	
40	41.0	2.5	
100	100	0.0	
400	420	5.0	
1000	990	-1.0	
	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: HK1510003

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 06/01/2015 DATE OF ISSUE: 13/01/2015

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.:	1309192	
Equipment No.:		
Date of Calibration:	08/01/2015	

# 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.

Mr. Peter Lee Director

Eccuan



**WORK ORDER:** HK1510003 **DATE OF ISSUE:** 13/01/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	08/01/2015	
Date of next Calibation:	08/04/2015	

# Parameters:

Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.91	-2.3	
10	10.2	2.0	
40	40.0	0.0	
100	103	3.0	
400	413	3.3	
1000	988	-1.2	
	Tolerance Limit (±%)	10.0	

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

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### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No. : HK1510049

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 13/02/2015

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. : HK1510049
Test Item No. : HK1510049-01

Test Item Details

Test Item Description : Multifunctional Meter

Manufacturer : YSI

Model No. : Professional Plus
Serial No. : 11F100597

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 : 12-Feb-15
Test Item Calibration Date : 13-Feb-15

Test Period : 12/02/2015 - 13/02/2015

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
- 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.

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

Approved Signatory

Mr. Peter Lee (Director) Issue Date: 13/02/2015



WORK ORDER:

HK1510049

DATE OF ISSUE:

13/02/2015

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	11F100597	
Date of Calibration	13-Feb-15	
Date of next Calibation	13-May-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)
10.8	10.8	0.0
20.2	20.3	+0.1
30.1	30.6	+0.5
	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	4.05	4.06	+0.01
7.0	7.03	7.04	+0.01
10.0	9.98	9.96	+0.02
	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	1/441
0.1000	12.89	12.81	-0.63
0.2000	24.80	25.20	+1.60
0.5000	58.67	59.33	+1.12
	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)
7.49	7.60	+0.11
4.56	4.67	+0.11
1.86	1.83	-0.03
	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 (according to APHA 19e 2510) is used to determine salinity.



### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No. : HK1510021

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 23/01/2015

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. : HK1510021 Test Item No. : HK1510021-01

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 : 15-Jan-15
Test Item Calibration Date : 16-Jan-15

Test Period : 16/01/2015 - 23/01/2015

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

Approved Signatory

Mr. Peter Lee

Issue Date:

23/01/2015



WORK ORDER: HK1510021 DATE OF ISSUE: 23/01/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14E100105	
Date of Calibration	16-Jan-15	
Date of next Calibation	16-Apr-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)
10.0	10.4	+0.4
19.4	19.6	+0.2
30.0	30.1	+0.1
Т	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	4.06	4.02	-0.04
7.0	7.01	7.09	+0.08
10.0	9.99	10.03	+0.04
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.69	-1.55
0.2000	24.80	25.25	1.82
0.5000	58.67	57.50	-1.99
	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)
8.18	8.14	-0.04
5.89	5.90	0.01
4.42	4.26	-0.16
	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 (according to APHA 19e 2510) is used to determine salinity.



# EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No. : HK1510022

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 26/01/2015

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

 Calibration Job No.
 : HK1510022

 Test Item No.
 : HK1510022-01

**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 : 19-Jan-15
Test Item Calibration Date : 19-Jan-15

Test Period : 19/01/2015 - 26/01/2015

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

Approved Signatory

Mr. Péter Lee

Issue Date:

26/01/2015



WORK ORDER: HK1510022
DATE OF ISSUE: 26/01/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	19-Jan-15	
Date of next Calibation	19-Apr-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)
10.4	10.8	+0.4
19.9	20.1	+0.2
30.2	30.0	-0.2
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	4.05	4.07	+0.02
7.0	7.02	7.04	+0.02
10.0	9.99 10.18		+0.19
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)	
0.0000	0.00	0.00		
0.1000	12.89	12.99	+0.74	
0.2000	24.80	24.91	+0.43	
0.5000	58.67	59.21	+0.93	
	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)
8.28	8.22	-0.06
4.67	4.59	-0.08
1.42	1.48	+0.06
	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 (according to APHA 19e 2510) is used to determine salinity.



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# CERTIFICATE OF CALIBRATION

Certificate No.:

14CA0320 04

Page:

of

Tel: (852) 2873 6860

Fax: (852) 2555 7533

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.:

4230 1411076

Serial/Equipment No.: Adaptors used:

Yes

Item submitted by

Curstomer:

Lam Geotechnics Limited

Address of Customer:

...

Request No.: Date of receipt:

20-Mar-2014

Date of test:

21-Mar-2014

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	SCL
Preamplifier	B&K 2673	2239857	16-Apr-2014	CEPREI
Measuring amplifier	B&K 2610	2346941	24-Apr-2014	CEPREI
Signal generator	DS 360	61227	15-Apr-2014	CEPREI
Digital multi-meter	34401A	US36087050	17-Dec-2014	CEPREI
Audio analyzer	8903B	GB41300350	15-Apr-2014	CEPREI
Universal counter	53132A	MY40003662	15-Apr-2014	CEPREI

# Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

60 ± 10 %

Air pressure:

1000 ± 10 hPa

### Test specifications

- 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.
- 3, 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.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

21-Mar-2014

Company Chop:

Comments: The results reported in this 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.

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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



# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

14CA0320 04

Page:

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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	94.01	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 = 961.1 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

### **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 = 0.8 %

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.

Calibrated by:

End

Fung Chi Yip 21-Mar-2014 Checked by:

Feng

Date:

Date:

21-Mai-2014

un Oi

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.CARP156-2/Issue 1/Rev.C/01/05/2005



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



# CERTIFICATE OF CALIBRATION

Certificate No.:

14CA1213 01

Page

of

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

B&K 2236

**B&K** 

Type/Model No.: Serial/Equipment No.: 2100736

4188 2288941

Adaptors used:

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No.:

13-Dec-2014

Date of receipt:

Date of test:

13-Dec-2014

Reference equipment used in the calibration

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator

B&K 4226

2288444

20-Jun-2015

CIGISMEC

Signal generator Signal generator

DS 360 DS 360

33873 61227

09-Apr-2015 09-Apr-2015

CEPREI CEPREI

Ambient conditions

Temperature: Relative humidity: 21 ± 1 °C 60 ± 5 %

Air pressure:

1010 ± 5 hPa

Test specifications

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%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, 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:

Date:

15-Dec-2014

Company Chop:

Huang Jian Min/∮eng Jun Qi

Comments: The results reported in 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.

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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

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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:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	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	Α	Pass	0.3	
	С	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 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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	
			0.0	

### 3, Response to associated sound calibrator

N/A

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.

Calibrated by:

Date:

Fung Chi Yip 13-Dec-2014 End

Checked by:

Date:

Lam Tze Wai 15-Dec-2014

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



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

					METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3870	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.0
3	NA	NA	1.00	0.8760	7.9	5.0
4	NA	NA	1.00	0.8340	8.8	5.5
5	NA	NA	1.00	0.6860	12.7	8.0

### 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	t (b) =	1.99175 -0.00041 0.99991		Qa slop intercep coeffici	t (b) =	1.24720 -0.00026 0.99991
y axis =	SQRT [H2O (F	a/760) (298/7	[a)]	y axis =	SQRT[H2O(T	Ca/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 =  $1/m\{ [SQRT H2O(Ta/Pa)] - b\}$ 



Location :		CMA1b				Calbratio	on Date	:	12-Feb-15
Equipment no.		EL452				Calbratio	on Due Date	:	12-Apr-15
CALIBRATION OF CON	ITINUOUS	FLOW RE	CORDER						
				Ambient C	ondition				
Temperature, T <sub>a</sub>		290		Kelvin	Pressure, P	a	1	018	mmHg
			Orifice Tr	ansfer Sta	ndard Inforr	mation			
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991	75	Intercept, bc	Т	-0.00041
Last Calibration Date		14-Jul-14	1		( H x	P <sub>a</sub> / 101	3.3 x 298 /	$T_a)^{1}$	1/2
Next Calibration Date		14-Jul-1	5		, =		$Q_{std} + b_c$	α,	
				Calibratio	n of TSP				
Calibration	Man	nometer Re	eading		std	Continu	ious Flow		IC
Point		inches of	_		/ min.)		rder, W	(W(P <sub>2</sub> /1	013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)		axis		CFM)	( ( a	Y-axis
1	6.6	6.6	13.2		3536		65		66.0431
2	5.3	5.3	10.6	1.0	6611		58		58.9308
3	4.0	4.0	8.0	1.4	1431		50		50.8024
4	2.6	2.6	5.2	1.	1635		40		40.6419
5	1.5	1.5	3.0	0.0	3838		30		30.4814
By Linear Regression of	Y on X		<u>I</u>						
	Slope, m	=	36.6	703	Inte	ercept, b =	-1.	9950	
Correlation Co	oefficient*	=	1.00	000					
Calibration	Accepted	=	Yes/f	No**					
* if Correlation Coefficier	ot - 0 000	ahaak ana	rocalibratio	o ogoin					
ii Correlation Coefficier	11 < 0.990,	check and	recalibration	ı ayaırı.					
** Delete as appropriate.									
Remarks :									
Calibrated by	L	.uLu Mar				Checked	l by	:	Derek Lo
Date :	1:	2-Feb-15				Date		:	12-Feb-15



Location :		CMA2a			Calk	oration Date	:	12-Feb-15
Equipment no.		EL449			Call	oration Due Date	:	12-Apr-15
CALIDDATION OF COM	TINUOUS	. El OW B						
CALIBRATION OF CON	IIINUUUS	FLOW RE						
				ı		<del>-  </del>		
Temperature, T <sub>a</sub>		291		Kelvin <b>Pressu</b>	re, P <sub>a</sub>		1015	mmHg
			Orifice Tra	Calbration Due Date				
Equipment No.		EL086		Slope, mc 1	.99175	Intercept, b	C	-0.00041
Last Calibration Date		14-Jul-1	4	(	$HxP_a$	1013.3 x 298	$/T_a)$	1/2
Next Calibration Date		14-Jul-1	5		= <i>m</i>	$_{c} \times Q_{std} + b_{c}$		
				Calibration of TSI	•			
Calibration	Mar	nometer R	eading	Q <sub>std</sub>	Coi	ntinuous Flow		IC
Point	Н (і	inches of	water)	(m <sup>3</sup> / min.)	F	Recorder, W	(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis		(CFM)		Y-axis
1	6.4	6.4	12.8	1.8195		60		60.7683
2	5.0	5.0	10.0	1.6082		55		55.7042
3	3.8	3.8	7.6	1.4020		46		46.5890
4	2.2	2.2	4.4	1.0668		36		36.4610
5	1.4	1.4	2.8	0.8511		30		30.3841
By Linear Regression of	Y on X							
	Slope, m	=	32.2	546	Intercept, I	o = 2	2.4526	
Correlation Co	pefficient*	=	0.99	72				
Calibration	Accepted	=	Yes/P	√o**				
* if Correlation Coefficier	nt < 0.990,	check and	l recalibration	າ again.				
** Delete as appropriate.								
Remarks :								
Calibrated by	L	uLu Mar			Che	cked by	:	Derek Lo
Date	1.	2-Feb-15			Date	•	:	12-Feb-15



				_		-	-	-		
Location :		CMA3a				Calbrati	on Date	:	12-Feb-15	
Equipment no.		EL333				Calbrati	on Due Date	:	12-Apr-15	
CALIBRATION OF CON	ITINUOUS	S FLOW RI	ECORDER							
				Ambient Co	ndition					
Temperature, T <sub>a</sub>		290	1	Kelvin P	ressure, P	a	1	1018	mmHg	
			Orifica Tr	ansfer Stand	dard Inform	nation				
Equipment No.		EL086		Slope, m <sub>c</sub>	1.9917		Intercept, bc		-0.00041	
Last Calibration Date		14-Jul-1		$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date		14-Jul-1			(		$Q_{std} + b_c$	' a)		
None Gambianoni Bato		110011				III C X	Std 1 D c			
				Calibration	1					
Calibration		nometer R	_	Q,			ious Flow		IC	
Point	H (i	inches of	water)	(m <sup>3</sup> / ı	nin.)	Reco	rder, W	(W(P <sub>a</sub> /1	013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-a	cis	(C	FM)		Y-axis	
1	6.0	6.0	12.0	1.76	73		52		52.8345	
2	4.7	4.7	9.4	1.56	42		47		47.7542	
3	3.6	3.6	7.2	1.36	90		41		41.6579	
4	2.3	2.3	4.6	1.09	43		35		35.5617	
5	1.4	1.4	2.8	0.85	38		28		28.4493	
By Linear Regression of	Y on X									
	Slope, m	=	26.4	964	Inte	ercept, b =	6.	0181		
Correlation Co	pefficient*	=	0.99	989						
Calibration	Accepted	=	Yes/F	<del>\0</del> **						
* if Correlation Coefficier	st < 0.000	shock and	l rocalibratio	a again						
ii Correlation Coemiciei	11 < 0.990,	, check and	recalibration	i ayaiii.						
** Delete as appropriate.										
Remarks :										
Calibrated by	L	_uLu Mar				Checked	d by	:	Derek Lo	
Date :	1.	2-Feb-15				Date		:	12-Feb-15	



Location	:_	CMA4a	Calbration Date	:	12-Feb-15
Equipment no.	:	EL390	Calbration Due Date	:	12-Apr-15
	_				

### CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient C	Condition		
Temperature, T <sub>a</sub>	290	Kelvin	Pressure, P <sub>a</sub>	1018	mmHg

	Orifice Transfer Standard Information										
Equipment No.	EL086	Slope, m <sub>c</sub>	1.99175	Intercept, bc	-0.00041						
Last Calibration Date	14-Jul-14		(HxP <sub>a</sub> /1	013.3 x 298 / T	a) <sup>1/2</sup>						
Next Calibration Date	14-Jul-15		= <i>m</i> <sub>c</sub>	$x Q_{std} + b_c$							

				Calibration of TSP		
Calibration	Mar	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC
Point	H (i	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.5	6.5	13.0	1.8395	58	58.9308
2	5.2	5.2	10.4	1.6453	51	51.8184
3	4.1	4.1	8.2	1.4610	43	43.6900
4	2.7	2.7	5.4	1.1856	30	30.4814
5	1.3	1.3	2.6	0.8228	22	22.3530
By Linear Regression of	Y on X					
	Slope, m	=	37.33	358 In	tercept, b =	-10.4734

Correlation Coefficient\* = 0.9906

Calibration Accepted = Yes/Ne\*\*

Remarks :					
Calibrated by	:	LuLu Mar	Check	ked by :	Derek Lo
Date	:	12-Feb-15	Date	:	12-Feb-15

 $<sup>\</sup>ensuremath{^*}$  if Correlation Coefficient < 0.990, check and recalibration again.

<sup>\*\*</sup> Delete as appropriate.



Location :		CMA5b				Calbratio	n Date	:	04-Feb-15
Equipment no.		EL222				Calbratio	on Due Date	:	04-Apr-15
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient (	Condition				
Temperature, T <sub>a</sub>		289		Kelvin	Pressure, P	a	1	024	mmHg
			Orifice T	ransfer Sta	andard Infor	mation			
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991	75	Intercept, bc		-0.00041
Last Calibration Date		14-Jul-14	1		(H)	(P <sub>a</sub> / 101	3.3 x 298 /	$T_a)^{1/2}$	
Next Calibration Date		14-Jul-15	5		=	$m_c x$	$Q_{std} + b_c$		
				Calibratio	on of TSP				
Calibration	Mar	nometer Re	eading	G	) <sub>std</sub>	Continu	ious Flow		IC
Point	Н (	inches of v	vater)	(m <sup>3</sup>	/ min.)	Reco	rder, W	(W(P <sub>a</sub> /101	3.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-	axis	(C	FM)		Y-axis
1	5.4	5.4	10.8	1.0	6845		59		60.2271
2	4.4	4.4	8.8	1.5	5206		54		55.1231
3	3.4	3.4	6.8	1.3	3367		50		51.0399
4	2.2	2.2	4.4	1.0	0753		42		42.8736
5	1.4	1.4	2.8	0.8	8578		37		37.7696
By Linear Regression of `	Y on X								
	Slope, m	=	27.2	571	Int	ercept, b =	14	.1098	
Correlation Co	efficient*	=	0.99	)87					
Calibration	Accepted	=	Yes/ł	No**					
* if Correlation Coefficien	t < 0.990,	check and	recalibration	again.					
** Delete as appropriate.									
Remarks :									
		.uLu Mar				Checked			Derek Lo

04-Feb-15

Date

04-Feb-15

Date



				_			-	-	
Location :		CMA6a				Calbration	on Date	:	12-Feb-15
Equipment no.		EL448				Calbration	on Due Date	:	12-Apr-15
CALIBRATION OF CON	ITINUOUS	FLOW RI	CORDER						
				Ambient C	Condition				
Temperature, T <sub>a</sub>		290		Kelvin	Pressure, P	a	1	018	mmHg
		290   290	ansfer Sta	ndard Inform	mation				
Equipment No.		EL086		T			Intercept, bc		-0.00041
Last Calibration Date		14-Jul-1			( H x	P <sub>a</sub> / 101		$T_{2}$	1/2
Next Calibration Date		14-Jul-1	5		, =			a,	
				Calibratio	n of TSB	-			
Calibration	Mor	ometer D	anding.			Continu	ieus Elew		10
								04/5/	
Point		290     290						(W(P <sub>a</sub> /	
1	(up)	· ·					·		
2									
3									
			13.0 1.839 10.4 1.645 8.0 1.443 5.4 1.185						
5	2.7								
By Linear Regression of	1.6	1.0	3.2	0.8	9128		32		32.5135
by Linear Regression or	Slope, m	_	20.7	275	Int	oroont h -	4	2570	
Correlation Co	·	Calibration of TSP   Calibration   Calibra							
Calibration									
Calibration	Accepted	Confice   Conf							
* if Correlation Coefficier	nt < 0.990,	check and	l recalibration	n again.					
** Delete as appropriate.									
Remarks :									
		l., M				Charle	l by		Dorelds
Calibrated by						Checked	ι ву	: <u> </u>	Derek Lo
Date :	1.	∠-reb-15				Date		:	12-Feb-15

# 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** March 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
		•	·	·	·		28-Feb
	!						
	!					24hr TSP	
	!						
	!					Impact WQM Mid-flood	13:52
	!					Mid-ebb	21:43
1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	mid coo	7-Mar
	!						
	!					24hr TSP	
	!					(CMA5b)	
	1hr TSP				24hr TSP	1hr TSP	
		Noise (daytime)					
		(M1a, M2b, M3a, M4b, M5b, M6)					
	Impact WQM			Impact WQM		Impact WQM	
	Mid-flood 16:14			Mid-ebb 12:23		Mid-ebb Mid-flood	13:19
8-Mar	Mid-ebb 23:08 9-Mar	10-Mar	11-Mar	Mid-flood 18:15 12-Mar	13-Mar	Wiid-1100d	19:27 14-Mar
Oma	o ma	10 mai	11 1100	12 1101	TO Mai		1-1 11102
	!						
	!						
	!						
	!						
	!				24hr TSP		
	!			24hr TSP	(CMA4a) 1hr TSP		
	Noise (daytime)	Noise (daytime)		2411 101	1111 101		
	(M2b)	(M1a, M3a, M4b, M5b, M6)					
	Impact WQM		Impact WQM		Impact WQM		
	Mid-flood 8:19		Mid-flood 9:17		Mid-flood 10:28		
	Mid-ebb 14:25		Mid-ebb 15:40		Mid-ebb 17:34		
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar		21-Mar
	!						
	!				24hr TSP		
	!				(CAM5b)		
			24hr TSP	1hr TSP	1hr TSP		
	Noise (daytime) (M1a)	Noise (daytime) (M2b, M3a, M4b, M5b, M6)			(CMA5b)		l
	Impact WQM	(WED, WIGH, WIGD, WIG)	Impact WQM		Impact WQM		
	Mid-flood 14:16		Mid-ebb 11:01		Mid-ebb 12:24		
	Mid-ebb 21:22		Mid-flood 16:33		Mid-flood 18:22		
22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar		28-Mar
	!						
		24hr TSP	24hr TSP			24hr TSP	l
		(CMA1b, CMA4a, CMA5b, CMA6				(CMA1b, CMA3a)	
	24hr TSP	1hr TSP			24hr TSP	1hr TSP	
		Noise (daytime)		Noise (daytime)			
		(M1a)		(M2b, M3a, M4b, M5b, M6)			
	Impact WQM		Impact WQM		Impact WQM		
	Mid-flood 8:11		Mid-flood 9:25		Mid-flood 10:51		
	Mid-ebb 14:30		Mid-ebb 16:06		Mid-ebb 18:30		

Remarks: Due to material obstruction at monitoring location and safety consideration on nearby barge lifting operation, the Ehance DO monitroing at monitoring station Ex-PCWA SE on 2 March 2015 during flood tide was

Out of interior destruction or informating scalaria are scaled consequenced in the ray bage many dependent, the Enterior DO informating at informating scalaria to 20 years about 20 years and a consequence of the consequence of the scalar and scalar and

#### 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 April 2015

		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
Sunday	29-Mar		30-Mar		31-Mar	•	1-Apr	•	2-Apr	•	3-Apr		4-Apr
						24hr TSP		1hr TSP					
						2 10.		101					
		Impact WQM				Impact WQM				Impact WQM			
		Mid-flood	15:02			Mid-ebb	11:03			Mid-ebb	11:56		
		Mid-ebb	21:52			Mid-flood	16:47			Mid-flood	18:05		
	5-Apr		6-Apr		7-Apr		8-Apr		9-Apr		10-Apr		11-Apr
				24hr TSP		1hr TSP							
						Noise (daytime)		Noise (daytime)					
		1											
				Impact WQM				Impact WQM				Impact WQM	
		1		Mid-flood	7:39			Mid-flood	8:37			Mid-flood	9:50
				Mid-ebb	14:00			Mid-ebb	15:14			Mid-ebb	17:01
	12-Apr		13-Apr		14-Apr		15-Apr		16-Apr		17-Apr		18-Apr
		24hr TSP		1hr TSP								24hr TSP	
		Noise (daytime)		Noise (daytime)									
		, , , ,		,									
		Impact WQM				Impact WQM				Impact WQM			
		Mid-flood	12:29			Mid-ebb	9:53			Mid-ebb	11:21		
		Mid-ebb	19:42			Mid-flood	15:23			Mid-flood	17:23		
	19-Apr												
					21-Apr		22-Apr		23-Apr	IVIIG IIGGG			25-Apr
			20-Apr		21-Apr		22-Apr		23-Apr	Wild Hood	24-Apr		25-Apr
					21-Apr		22-Apr		23-Apr	111000			25-Apr
I					21-Apr		22-Apr		23-Apr	mid nood			25-Apr
					21-Apr		22-Apr		23-Apr	ma noc			25-Apr
					21-Apr		22-Apr		23-Apr	and nood			25-Apr
					21-Apr		22-Apr		23-Apr	and mode			25-Apr
		1hr TSP			21-Apr		22-Apr		23-Apr		24-Apr	1hr TSP	25-Apr
		1hr TSP Noise (daytime)		Noise (davtime)	21-Apr		22-Apr		23-Apr	24hr TSP	24-Apr	1hr TSP	25-Apr
		1hr TSP Noise (daytime)		Noise (daytime)	21-Apr		22-Apr		23-Apr		24-Apr	1hr TSP	25-Apr
		Noise (daytime)		Noise (daytime)	21-Apr	Impact WOM	22-Apr		23-Apr	24hr TSP	24-Apr	1hr TSP	25-Apr
		Noise (daytime) Impact WQM	20-Apr	Noise (daytime)	21-Apr	Impact WQM Midflood	22-Apr		23-Apr	24hr TSP	24-Apr	1hr TSP	25-Apr
		Noise (daytime) Impact WQM Mid-ebb	20-Apr	Noise (daytime)	21-Apr	Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-41-	Noise (daytime) Impact WQM	20-Apr 13:25 19:56	Noise (daytime)			22-Apr		23-Apr	24hr TSP	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr	Noise (daytime)	21-Apr	Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-flood	20-Apr 13:25 19:56			Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-ebb	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime)  Impact WQM Mid-ebb Mid-flood  Noise (daytime)	20-Apr 13:25 19:56	Noise (daytime)		Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime) Impact WQM Mid-flood	20-Apr 13:25 19:56			Mid-flood	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr
	26-Apr	Noise (daytime)  Impact WQM Mid-ebb Mid-flood  Noise (daytime)	20-Apr 13:25 19:56 27-Apr	Noise (daytime)		Mid-flood Mid-ebb	22-Apr		23-Apr	24hr TSP Impact WQM Mid-flood	24-Apr	1hr TSP	25-Apr

#### 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

			Measure	Measurement Nois		Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dl	B(A), (30-min)	
03/03/15	10:26	Cloudy	74.7 77.0 69.5		72	71	75	
10/03/15	13:10	Fine	72.7 75.0 69.0		72	63	75	
16/03/15	11:01	Cloudy	71.6 74.0 66.5		72	72	75	
24/03/15	16:36	Fine	72.2 74.5 68.0		72	72	75	

Location: M2b - Noon-day gun area

ſ			Measure	ement Noi	se Level		Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
L				69.7 71.0			Unit: dl	B(A), (30-min)	
Ī	03/03/15	11:08	Cloudy	69.7	71.0	67.5	68	66	75
ſ	09/03/15	15:13	Fine	68.9 70.0		66.0	68	63	75
	17/03/15	8:00	Cloudy	66.6 68.3 6		64.0	68	67	75
ſ	26/03/15	11:00	Cloudy	69.0	69.5	66.0	68	63	75

Location: M3a - Tung Lo Wan Fire Station

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10 L		Leq	Leq	Leq
			CE C   CC E   CA			Unit: dl	B(A), (30-min)	
03/03/15	13:00	Cloudy	65.6 66.5 64.0		64.0	69	66	75
10/03/15	9:00	Fine	65.5 66.5 63.0		63.0	69	66	75
17/03/15	8:40	Cloudy	69.3 70.5 67.1		67.1	69	60	75
26/03/15	13:00	Cloudy	65.4	66.5	64.0	69	65	75

Location: M4b - Victoria Centre

			Measur	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90		Leq	Leq	Leq	
							B(A), (30min)	
03/03/15	13:44	Cloudy	67.5	69.5	64.0	67	54	75
10/03/15	9:37	Fine	66.1	67.5	62.5	67	66	75
17/03/15	9:15	Cloudy	66.8	68.5	63.0	67	67	75
26/03/15	13:40	Cloudy	67.0	68.0	65.0	67	67	75

Location: M5b - City Garden

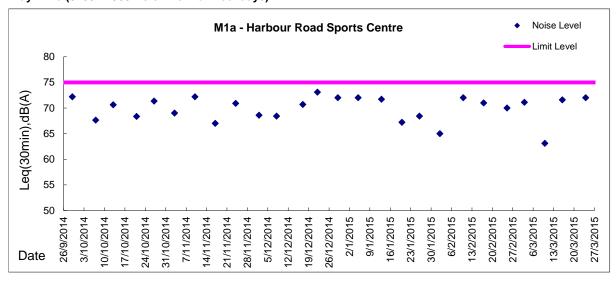
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			60.7 74.5 65.0		Unit: d	B(A), (30min)		
03/03/15	14:27	Cloudy	68.7 71.5 65.0		68	60	75	
10/03/15	10:19	Fine	73.1 75.5 65.5		68	71	75	
17/03/15	9:58	Cloudy	65.9 67.5 64.0		68	66	75	
26/03/15	14:20	Cloudy	70.6 74.0 65.5		68	67	75	

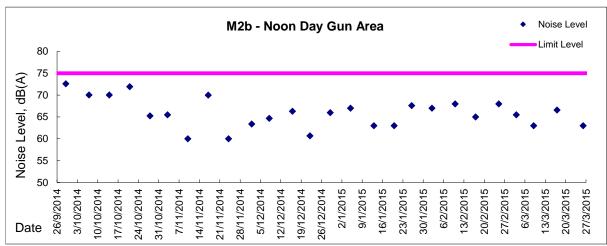
Location: M6 - HK Baptist Church Henrietta Secondary School

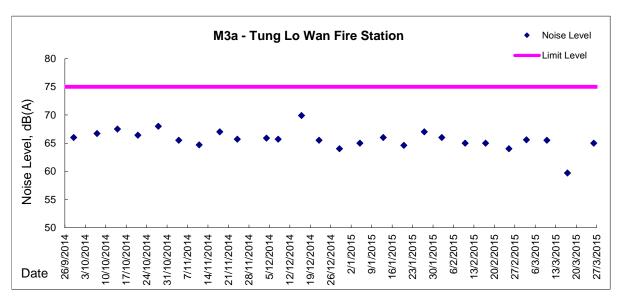
			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10		L90	Leq	Leq	Leq
						Unit: dl	B(A), (30-min)	
03/03/15	15:10	Cloudy	72.2 73.0 70.5			71	67	70
10/03/15	11:10	Fine	72.7 73.5 71.0		71.0	71	68	70
17/03/15	10:37	Cloudy	72.1 73.5 70.0		71	67	70	
26/03/15	15:00	Cloudy	72.2 73.0 70.0		71	67	70	



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

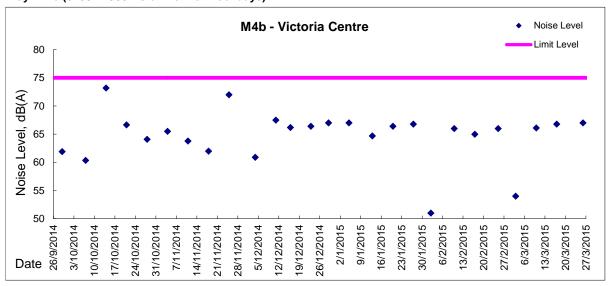


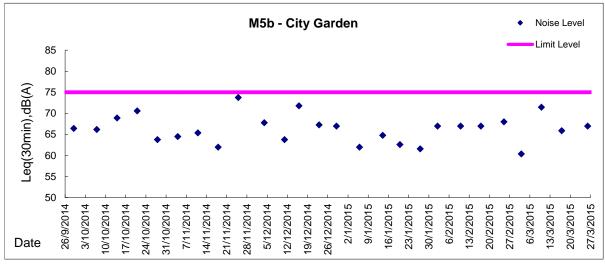


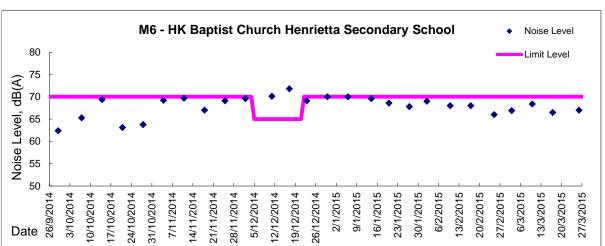




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)







#### 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 ( $\mu$ g/m3) - 176.7 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter paper				e, hr	Sampling	Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Feb-15	8:00	Cloudy	011178	2.7179	2.8091	5947.61	5971.61	24.00	1.06	1.06	1.06	1530	59.6
6-Mar-15	8:00	Cloudy	011237	2.7676	2.9321	5974.62	5998.62	24.00	1.17	1.17	1.17	1686	97.6
12-Mar-15	8:00	Cloudy	071317	2.7549	2.8357	6001.63	6025.63	24.00	1.12	1.12	1.12	1612	50.1
18-Mar-15	8:00	Cloudy	011432	2.7822	2.9268	6028.64	6052.64	24.00	1.13	1.13	1.13	1628	88.8
24-Mar-15	13:00	Rainy	011280	2.7658	2.9488	6079.76	6103.76	24.00	1.12	1.12	1.12	1609	113.7
27-Mar-15	8:00	Fine	011264	2.7523	2.9336	6103.76	6127.76	24.00	1.11	1.11	1.11	1603	113.1

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 23 March 2015 to 24 March 2015.

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
2-Mar-15	8:07	Cloudy	011203	2.7282	2.7376	5971.61	5972.61	1.00	1.12	1.12	1.12	67	140.5
2-Mar-15	9:10	Cloudy	011239	2.7663	2.7701	5972.61	5973.61	1.00	1.12	1.12	1.12	67	56.8
2-Mar-15	10:20	Cloudy	011241	2.7537	2.7590	5973.62	5974.62	1.00	1.12	1.17	1.14	68	77.4
7-Mar-15	8:05	Cloudy	009663	2.8562	2.8679	5998.63	5999.63	1.00	1.12	1.12	1.12	67	174.4
7-Mar-15	9:07	Cloudy	009665	2.8624	2.8727	5999.63	6000.63	1.00	1.12	1.12	1.12	67	153.6
7-Mar-15	10:09	Cloudy	011269	2.8091	2.8161	6000.63	6001.63	1.00	1.12	1.12	1.12	67	104.4
13-Mar-15	8:05	Cloudy	011379	2.7521	2.7577	6025.63	6026.63	1.00	1.12	1.12	1.12	67	83.5
13-Mar-15	9:07	Cloudy	011377	2.7318	2.7370	6026.63	6027.63	1.00	1.17	1.17	1.17	70	74.0
13-Mar-15	10:09	Cloudy	011375	2.7485	2.7611	6027.63	6028.63	1.00	1.12	1.12	1.12	67	187.8
19-Mar-15	8:05	Cloudy	011429	2.7594	2.7648	6052.64	6053.64	1.00	1.10	1.10	1.10	66	81.6
19-Mar-15	9:07	Cloudy	011426	2.7625	2.7684	6053.64	6054.64	1.00	1.10	1.10	1.10	66	89.1
19-Mar-15	10:09	Cloudy	011427	2.7737	2.7791	6054.64	6055.64	1.00	1.10	1.10	1.10	66	81.6
24-Mar-15	8:05	Rainy	009674	2.8578	2.8746	6076.76	6077.76	1.00	1.12	1.12	1.12	67	251.0
24-Mar-15	9:07	Rainy	011274	2.7832	2.7926	6077.76	6078.76	1.00	1.12	1.12	1.12	67	140.5
24-Mar-15	10:09	Rainy	011277	2.7736	2.7779	6078.76	6079.76	1.00	1.12	1.12	1.12	67	64.3
28-Mar-15	8:02	Fine	011584	2.7415	2.7489	6127.76	6128.76	1.00	1.11	1.11	1.11	67	111.0
28-Mar-15	9:12	Fine	011582	2.7197	2.7281	6128.76	6129.76	1.00	1.11	1.11	1.11	67	126.0
28-Mar-15	10:24	Fine	011580	2.7187	2.7307	6129.76	6130.76	1.00	1.11	1.11	1.11	67	180.0



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level ( g/m3) - 169.5 Limit Level ( g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Feb-15	8:00	Cloudy	011177	2.7513	2.8111	15656.73	15680.73	24.00	1.07	1.07	1.07	1540	38.8
6-Mar-15	8:00	Cloudy	011230	2.7669	2.8473	15683.74	15707.74	24.00	1.07	1.07	1.07	1544	52.1
12-Mar-15	8:00	Cloudy	011316	2.7541	2.8172	15710.75	15734.75	24.00	1.20	1.25	1.23	1765	35.8
18-Mar-15	8:00	Cloudy	011431	2.7712	2.8299	15737.75	15761.75	24.00	1.06	1.06	1.06	1523	38.5
23-Mar-15	8:00	Cloudy	011256	2.7719	3.0167	15764.75	15788.75	24.00	1.07	1.07	1.07	1537	159.2
27-Mar-15	8:00	Fine	011281	2.7729	2.9750	15791.75	15815.75	24.00	1.19	1.19	1.19	1710	118.2

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
2-Mar-15	8:05	Cloudy	011202	2.7164	2.7233	15680.73	15681.73	1.00	1.07	1.07	1.07	64	107.5
2-Mar-15	9:10	Cloudy	011238	2.7717	2.7765	15681.73	15682.73	1.00	1.07	1.13	1.10	66	72.8
2-Mar-15	10:20	Cloudy	011240	2.7563	2.7623	15682.73	15683.73	1.00	1.07	1.07	1.07	64	93.5
7-Mar-15	8:05	Cloudy	011220	2.7964	2.8060	15707.74	15708.74	1.00	1.07	1.07	1.07	64	149.2
7-Mar-15	9:10	Cloudy	009664	2.8609	2.8655	15708.74	15709.74	1.00	1.07	1.07	1.07	64	71.5
7-Mar-15	10:15	Cloudy	011270	2.7941	2.8001	15709.74	15710.74	1.00	1.07	1.07	1.07	64	93.3
13-Mar-15	8:02	Cloudy	011380	2.7451	2.7484	15734.75	15735.75	1.00	1.01	1.01	1.01	61	54.3
13-Mar-15	9:04	Cloudy	011378	2.7358	2.7418	15735.75	15736.75	1.00	1.07	1.01	1.04	63	95.9
13-Mar-15	10:15	Cloudy	011376	2.7534	2.7645	15736.75	15737.75	1.00	1.07	1.01	1.04	63	177.4
19-Mar-15	8:05	Cloudy	011430	2.7716	2.7764	15761.75	15762.75	1.00	1.18	1.18	1.18	71	68.0
19-Mar-15	9:10	Cloudy	011428	2.7646	2.7722	15763.75	15764.75	1.00	1.18	1.18	1.18	71	107.7
19-Mar-15	10:30	Cloudy	011258	2.7582	2.7666	15764.75	15765.75	1.00	1.18	1.18	1.18	71	119.0
24-Mar-15	8:05	Rainy	011272	2.7797	2.7878	15788.75	15789.75	1.00	1.07	1.07	1.07	64	126.2
24-Mar-15	9:07	Rainy	011275	2.7811	2.7850	15789.75	15790.75	1.00	1.07	1.07	1.07	64	60.8
24-Mar-15	10:09	Rainy	011278	2.7654	2.7701	15790.75	15791.75	1.00	1.07	1.07	1.07	64	73.2
28-Mar-15	8:05	Fine	011583	2.7153	2.7214	15815.75	15816.75	1.00	1.07	1.07	1.07	64	95.5
28-Mar-15	9:07	Fine	011581	2.7144	2.7209	15816.75	15817.75	1.00	1.07	1.07	1.07	64	101.7
28-Mar-15	10:09	Fine	011579	2.7268	2.7355	15817.75	15818.75	1.00	1.07	1.07	1.07	64	136.1



Location: CMA3a - CWB PRE Site Office Area

 $\begin{array}{c} \text{Report on 24-hour TSP monitoring} \\ \text{Action Level (} & \text{g/m3) - 171} \\ \text{Limit Level (} & \text{g/m3) - 260} \end{array}$ 

Date	Sampling	Weather	Filter paper	Filter Weight, g		Elapse Time	pse Time, hr Sar		Flow Rate, m <sup>3</sup> /min		min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
28-Feb-15	8:00	Cloudy	011066	2.7573	2.8771	3098.42	3122.42	24.00	1.32	1.32	1.32	1904	62.9
6-Mar-15	8:00	Cloudy	009667	2.8594	3.0218	3125.42	3149.42	24.00	1.32	1.32	1.32	1908	85.1
12-Mar-15	8:00	Cloudy	010085	2.7702	2.8626	3152.43	3176.43	24.00	1.38	1.38	1.38	1986	46.5
18-Mar-15	8:00	Cloudy	010081	2.7710	2.9407	3179.44	3203.44	24.00	1.31	1.31	1.31	1889	89.9
25-Mar-15	8:00	Cloudy	011361	2.7593	2.9742	3209.56	3233.56	24.00	1.33	1.32	1.33	1909	112.6
27-Mar-15	8:00	Fine	011265	2.8298	2.9443	3233.56	3257.56	24.00	1.32	1.32	1.32	1901	60.2

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 23 March 2015 to 25 March 2015.

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
2-Mar-15	9:50	Cloudy	011165	2.7091	2.7162	3122.42	3123.42	1.00	1.24	1.24	1.24	74	95.4
2-Mar-15	11:00	Cloudy	011254	2.7988	2.8069	3123.42	3124.42	1.00	1.24	1.24	1.24	74	108.8
2-Mar-15	13:00	Cloudy	011221	2.7952	2.8070	3124.42	3125.42	1.00	1.24	1.24	1.24	74	158.5
7-Mar-15	8:16	Cloudy	010072	2.7817	2.7929	3149.42	3150.42	1.00	1.24	1.24	1.24	75	150.0
7-Mar-15	9:19	Cloudy	010086	2.7831	2.7945	3150.42	3151.42	1.00	1.24	1.24	1.24	75	152.7
7-Mar-15	10:25	Cloudy	010071	2.7527	2.7647	3151.42	3152.42	1.00	1.24	1.24	1.24	75	160.7
13-Mar-15	9:49	Cloudy	010084	2.7770	2.7870	3176.44	3177.44	1.00	1.25	1.25	1.25	75	133.8
13-Mar-15	13:00	Cloudy	010082	2.7631	2.7727	3177.44	3178.44	1.00	1.25	1.25	1.25	75	128.5
13-Mar-15	14:19	Cloudy	010083	2.7870	2.7979	3179.44	3180.44	1.00	1.25	1.25	1.25	75	145.9
19-Mar-15	9:08	Cloudy	011336	2.7292	2.7421	3203.44	3204.44	1.00	1.30	1.30	1.30	78	165.7
19-Mar-15	10:12	Cloudy	011334	2.7546	2.7603	3204.44	3205.44	1.00	1.15	1.15	1.15	69	82.4
19-Mar-15	13:00	Cloudy	011332	2.7684	2.7791	3205.44	3206.44	1.00	1.22	1.22	1.22	73	145.6
24-Mar-15	8:03	Rainy	011358	2.7533	2.7686	3206.56	3207.56	1.00	1.24	1.24	1.24	74	205.4
24-Mar-15	9:08	Rainy	011434	2.7718	2.7802	3207.56	3208.56	1.00	1.24	1.24	1.24	74	112.8
24-Mar-15	10:12	Rainy	011363	2.7698	2.7758	3208.56	3209.56	1.00	1.24	1.24	1.24	74	80.6
28-Mar-15	9:12	Fine	011449	2.7454	2.7504	3257.56	3258.56	1.00	1.24	1.24	1.24	74	67.5
28-Mar-15	10:14	Fine	011447	2.7656	2.7706	3258.56	3259.56	1.00	1.16	1.16	1.16	70	71.7
28-Mar-15	13:00	Fine	011445	2.7551	2.7660	3259.56	3260.56	1.00	1.27	1.27	1.27	76	142.8



Location: CMA4a - SPCA

 $\begin{array}{ccc} \text{Report on 24-hour TSP monitoring} \\ \text{Action Level (} & \text{g/m3)} - & \text{171.2} \\ \text{Limit Level (} & \text{g/m3)} - & \text{260} \end{array}$ 

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Feb-15	8:00	Cloudy	011050	2.7442	2.8283	19924.84	19948.84	24.00	1.27	1.27	1.27	1829	46.0
6-Mar-15	8:00	Cloudy	009666	2.8639	3.0203	19951.84	19975.84	24.00	1.27	1.27	1.27	1832	85.4
13-Mar-15	15:23	Cloudy	010077	2.7607	2.9610	19986.80	20010.80	24.00	1.33	1.32	1.32	1906	105.1
18-Mar-15	8:00	Cloudy	010076	2.7731	2.9057	20010.80	20034.80	24.00	1.26	1.26	1.26	1814	73.1
24-Mar-15	14:03	Rainy	011360	2.7365	2.8866	20040.80	20064.80	24.00	1.32	1.33	1.32	1907	78.7
27-Mar-15	8:00	Fine	011454	2.7744	2.9604	20064.80	20088.80	24.00	1.27	1.27	1.27	1826	101.8

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 12 and 23 March 2015 to 13 and 24 March 2015 respectively.

 $\begin{array}{cccc} \text{Report on 1-hour TSP monitoring} \\ \text{Action Level (} & \text{g/m3)} - & \text{312.5} \\ \text{Limit Level (} & \text{g/m3)} - & \text{500} \end{array}$ 

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
2-Mar-15	9:50	Cloudy	011164	2.7285	2.7365	19948.84	19949.84	1.00	1.27	1.27	1.27	76	105.0
2-Mar-15	10:55	Cloudy	011229	2.7606	2.7675	19949.84	19950.84	1.00	1.27	1.27	1.27	76	90.5
2-Mar-15	13:00	Cloudy	011231	2.7605	2.7657	19950.84	19951.84	1.00	1.27	1.27	1.27	76	68.2
7-Mar-15	8:05	Cloudy	011051	2.7517	2.7599	19975.85	19976.85	1.00	1.27	1.27	1.27	76	107.4
7-Mar-15	9:15	Cloudy	010073	2.7647	2.7763	19976.85	19977.85	1.00	1.27	1.27	1.27	76	151.9
7-Mar-15	10:24	Cloudy	010074	2.7535	2.7621	19977.85	19978.85	1.00	1.27	1.27	1.27	76	112.6
13-Mar-15	10:57	Cloudy	010075	2.7678	2.7771	19983.80	19984.80	1.00	1.01	1.01	1.01	61	153.2
13-Mar-15	13:00	Cloudy	010078	2.7509	2.7623	19984.80	19985.80	1.00	1.33	1.33	1.33	80	143.3
13-Mar-15	14:09	Cloudy	010078	2.7661	2.7772	19985.80	19986.80	1.00	1.33	1.33	1.33	80	139.6
19-Mar-15	8:56	Cloudy	011337	2.7377	2.7439	20034.80	20035.80	1.00	1.26	1.26	1.26	76	82.0
19-Mar-15	10:01	Cloudy	011335	2.7595	2.7699	20035.80	20036.80	1.00	1.26	1.26	1.26	76	137.6
19-Mar-15	13:00	Cloudy	011333	2.7485	2.7575	20036.80	20037.80	1.00	1.26	1.26	1.26	76	119.1
24-Mar-15	8:56	Rainy	011359	2.7530	2.7705	20037.80	20038.80	1.00	1.32	1.32	1.32	79	220.5
24-Mar-15	10:04	Rainy	011433	2.7759	2.7820	20038.80	20039.80	1.00	1.32	1.32	1.32	79	76.9
24-Mar-15	13:00	Rainy	011362	2.7393	2.7455	20039.80	20040.80	1.00	1.32	1.32	1.32	79	78.1
28-Mar-15	8:59	Fine	011450	2.7408	2.7455	20088.80	20089.80	1.00	1.27	1.27	1.27	76	61.8
28-Mar-15	10:11	Fine	011448	2.7586	2.7665	20089.80	20090.80	1.00	1.27	1.27	1.27	76	104.0
28-Mar-15	13:00	Fine	011446	2.7592	2.7688	20090.80	20091.80	1.00	1.27	1.27	1.27	76	126.3



Location: CMA5b - Pedestrian Plaza

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

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Feb-15	8:00	Cloudy	011176	2.7328	2.8185	4385.67	4409.67	24.00	0.84	0.84	0.84	1207	71.0
7-Mar-15	16:00	Cloudy	011313	2.7523	2.8776	4426.53	4450.53	24.00	0.98	0.91	0.95	1363	91.9
12-Mar-15	8:00	Cloudy	011226	2.7794	2.9260	4450.53	4474.53	24.00	0.99	1.02	1.01	1447	101.3
20-Mar-15	8:05	Cloudy	011255	2.7722	2.9866	4490.44	4514.44	24.00	0.97	0.97	0.97	1394	153.8
24-Mar-15	16:25	Rainy	011266	2.8100	3.0370	4517.44	4541.44	24.00	0.98	0.99	0.98	1417	160.2
27-Mar-15	8:00	Fine	011453	2.7733	2.9018	4541.44	4565.44	24.00	0.84	0.83	0.84	1203	106.8

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 6, 18 and 23 March 2015 to 7, 20 and 24 March 2015 respectively.

Report on 1-hour TSP monitoring Action Level ( g/m3) - 332 Limit Level ( g/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
2-Mar-15	10:40	Cloudy	011228	2.7792	2.7810	4409.67	4410.67	1.00	0.98	0.98	0.98	59	30.6
2-Mar-15	13:00	Cloudy	011232	2.7690	2.7801	4410.67	4411.67	1.00	0.98	0.98	0.98	59	188.6
2-Mar-15	14:02	Cloudy	011234	2.7534	2.7638	4411.67	4412.67	1.00	0.98	0.98	0.98	59	176.7
7-Mar-15	10:35	Cloudy	011353	2.7368	2.7422	4423.53	4424.53	1.00	0.84	0.84	0.84	50	107.0
7-Mar-15	13:00	Cloudy	011320	2.7508	2.7687	4424.53	4425.53	1.00	0.91	0.91	0.91	55	326.8
7-Mar-15	14:20	Cloudy	011318	2.7547	2.7638	4425.53	4426.53	1.00	0.91	0.91	0.91	55	166.1
13-Mar-15	8:15	Cloudy	011300	2.7952	2.7987	4474.53	4475.53	1.00	0.56	0.56	0.56	33	104.9
13-Mar-15	11:00	Cloudy	011374	2.7248	2.7333	4475.53	4476.53	1.00	0.84	0.84	0.84	51	168.2
13-Mar-15	13:00	Cloudy	011297	2.7682	2.7717	4476.53	4477.53	1.00	0.41	0.41	0.41	25	141.3
19-Mar-15	16:00	Cloudy	011329	2.7358	2.7444	4487.44	4488.44	1.00	0.82	0.82	0.82	49	174.1
19-Mar-15	17:00	Cloudy	011324	2.7359	2.7382	4488.44	4489.44	1.00	0.82	0.82	0.82	49	46.6
20-Mar-15	7:00	Cloudy	011260	2.7782	2.7811	4489.44	4490.44	1.00	0.82	0.82	0.82	49	58.6
24-Mar-15	8:00	Rainy	011191	2.7160	2.7273	4514.44	4515.44	1.00	0.98	0.98	0.98	59	192.0
24-Mar-15	13:00	Rainy	011437	2.7495	2.7635	4515.44	4516.44	1.00	0.98	0.98	0.98	59	237.8
24-Mar-15	14:20	Rainy	011357	2.7582	2.7723	4516.44	4517.44	1.00	0.98	0.98	0.98	59	239.5
28-Mar-15	13:00	Fine	011442	2.7380	2.7446	4565.44	4566.44	1.00	0.90	0.90	0.90	54	121.7
28-Mar-15	14:05	Fine	011439	2.7607	2.7726	4566.44	4567.44	1.00	0.90	0.90	0.90	54	219.4
28-Mar-15	15:10	Fine	011529	2.7357	2.7504	4567.44	4568.44	1.00	0.90	0.90	0.90	54	271.0

Remark: Due to interruption of electricity, the 1hr TSP monitoring was rescheduled from 19 March 2015 to 19 and 20 March 2015.



Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring Action Level - 187.3 g/m3 Limit Level - 260 g/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	t, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Feb-15	8:00	Cloudy	011174	2.7333	2.7983	19488.83	19512.83	24.00	1.06	1.06	1.06	1527	42.6
6-Mar-15	8:00	Cloudy	011227	2.7749	2.8572	19515.84	19539.84	24.00	1.06	1.06	1.06	1531	53.8
12-Mar-15	8:00	Cloudy	011315	2.7783	2.8852	19542.87	19566.87	24.00	1.51	1.57	1.54	2221	48.1
18-Mar-15	8:00	Cloudy	011371	2.7265	2.8432	19569.87	19593.87	24.00	1.05	1.05	1.05	1509	77.3
24-Mar-15	15:05	Rainy	011356	2.7494	2.8874	19599.87	19623.87	24.00	1.06	1.07	1.06	1531	90.2
27-Mar-15	8:00	Fine	011452	2.7451	2.9185	19623.87	19647.87	24.00	1.06	1.06	1.06	1524	113.8

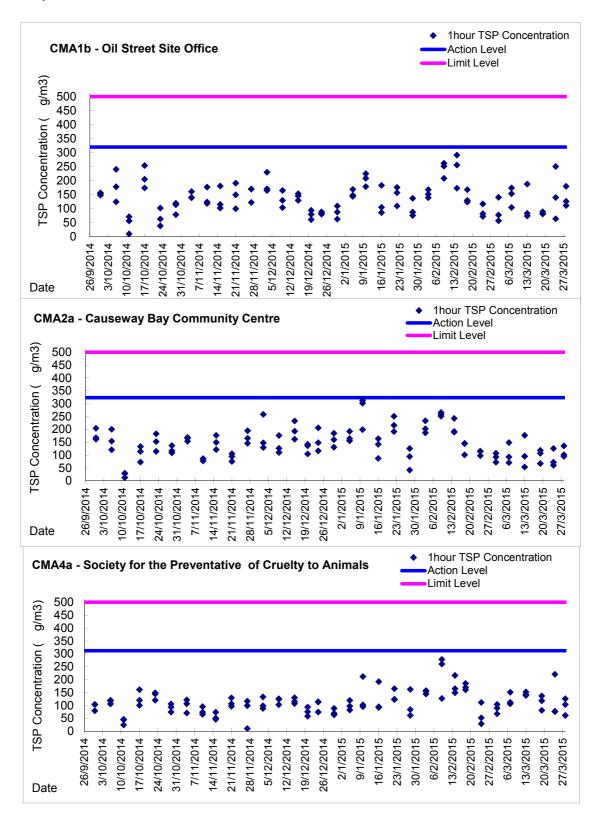
Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 23 March 2015 to 24 March 2015.

Report on 1-hour TSP monitoring Action Level - 300.1  $\mu$  g/m<sup>3</sup> Limit Level - 500  $\mu$  g/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
2-Mar-15	10:30	Cloudy	011242	2.7552	2.7603	19512.83	19513.83	1.00	1.06	1.06	1.06	64	80.2
2-Mar-15	13:00	Cloudy	011222	2.7863	2.7968	19513.83	19514.83	1.00	1.06	1.06	1.06	64	165.0
2-Mar-15	14:10	Cloudy	011224	2.7882	2.7946	19514.84	19515.84	1.00	1.06	1.06	1.06	64	100.6
7-Mar-15	10:15	Cloudy	011355	2.7637	2.7681	19539.84	19540.84	1.00	1.06	1.06	1.06	64	69.0
7-Mar-15	13:00	Cloudy	011332	2.7511	2.7527	19540.87	19541.87	1.00	1.06	1.06	1.06	64	25.1
7-Mar-15	14:06	Cloudy	011319	2.7365	2.7413	19541.87	19542.87	1.00	1.06	1.06	1.06	64	75.2
13-Mar-15	8:05	Cloudy	011302	2.7685	2.7741	19566.88	19567.88	1.00	1.06	1.06	1.06	64	87.7
13-Mar-15	9:15	Cloudy	011299	2.7775	2.7817	19567.88	19568.88	1.00	0.81	0.81	0.81	49	86.4
13-Mar-15	10:25	Cloudy	011372	2.7172	2.7244	19568.88	19569.88	1.00	0.94	0.94	0.94	56	128.0
19-Mar-15	13:00	Cloudy	011331	2.7415	2.7496	19593.87	19594.87	1.00	1.05	1.05	1.05	63	128.9
19-Mar-15	14:05	Cloudy	011328	2.7358	2.7437	19594.87	19595.87	1.00	1.05	1.05	1.05	63	125.7
19-Mar-15	15:10	Cloudy	011326	2.7509	2.7632	19595.87	19596.87	1.00	1.05	1.05	1.05	63	195.7
24-Mar-15	8:00	Rainy	011259	2.7643	2.7793	19596.87	19597.87	1.00	1.06	1.06	1.06	64	235.7
24-Mar-15	13:00	Rainy	011271	2.7903	2.7969	19597.87	19598.87	1.00	1.06	1.06	1.06	64	103.7
24-Mar-15	14:02	Rainy	011436	2.7486	2.7535	19598.87	19599.87	1.00	1.06	1.06	1.06	64	77.0
28-Mar-15		Fine	011444	2.7508	2.7547	19647.87	19648.87	1.00	1.06	1.06	1.06	63	61.6
28-Mar-15	14:05	Fine	011441	2.7689	2.7732	19648.87	19649.87	1.00	1.06	1.06	1.06	63	67.9
28-Mar-15	15:10	Fine	011531	2.7357	2.7416	19649.87	19650.87	1.00	1.06	1.06	1.06	63	93.1

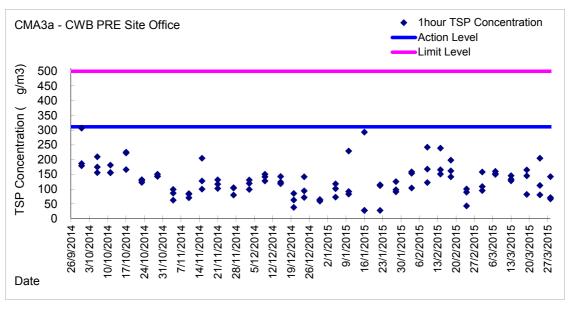


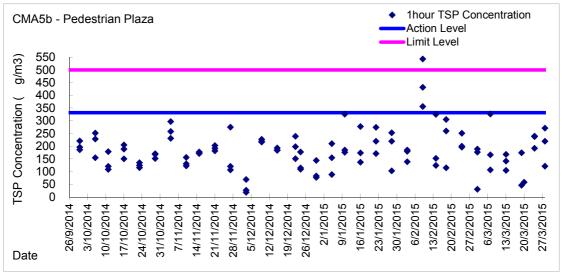
**Graphic Presentation of 1 hour TSP Result** 

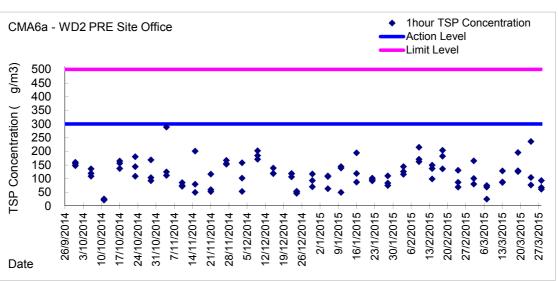




#### **Graphic Presentation of 1 hour TSP Result**

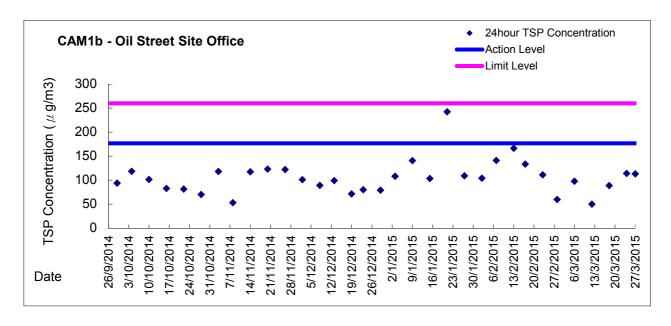


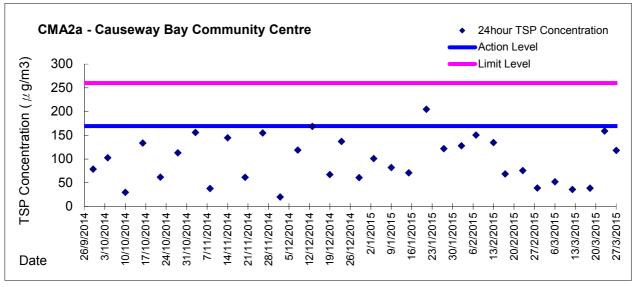


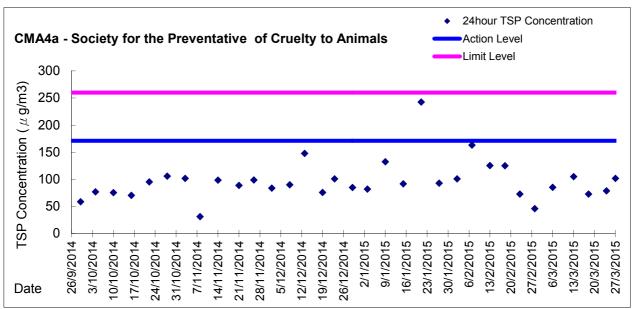




#### **Graphic Presentation of 24 hour TSP Result**

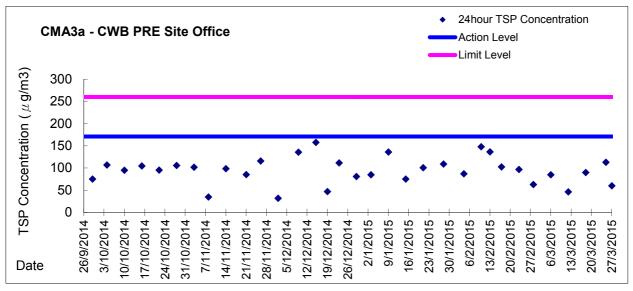


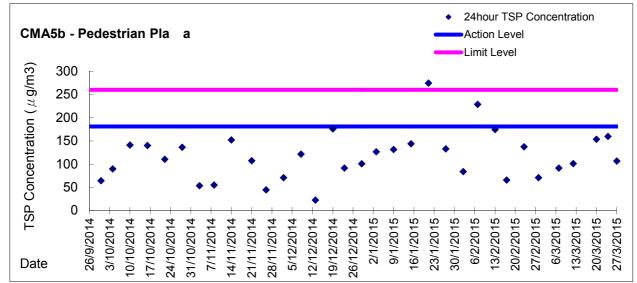


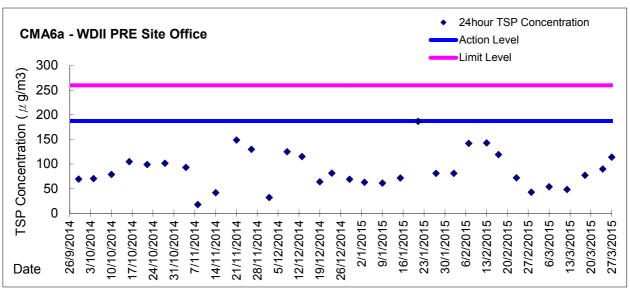




**Graphic Presentation of 24 hour TSP Result** 







#### 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	Samplin	ng Depth	Wat	er Temp	erature		рН			Salini	,	D	O Satur	ation		DO			Turbid	,		led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	NTU ilue	Average	Mg Value	g/L Average
00/0/0045	11:25		Middle	-	18.30	18.30	10.05	8.15	8.15	0.45	31.91	31.91	04.04	80.6	80.6		6.25	6.26	0.00	3.25	3.25	0.05	3	0.50
28/2/2015	11:27	Cloudy	Middle	-	18.40	18.40	18.35	8.15	8.15	8.15	31.91	31.91	31.91	80.5	79.5	80.3	6.24	6.17	6.23	3.26	3.25	3.25	4	3.50
2/3/2015	16:05	Cloudy	Middle	-	18.60	18.60	18.60	8.20	8.20	8.20	32.13	32.13	32.13	82.9	82.8	82.6	6.40	6.40	6.38	5.62	5.58	5.59	4	4.50
2/3/2015	16:07	Cloudy	Middle	-	18.60	18.60	18.60	8.20	8.20	8.20	32.13	32.13	32.13	82.6	82.2	82.0	6.38	6.35	0.36	5.55	5.59	5.59	5	4.50
5/3/2015	18:48	Cloudy	Middle	-	18.10	18.10	18.10	8.31	8.31	8.29	32.24	32.24	32.25	80.5	78.5	78.5	6.27	6.12	6.12	3.54	3.60	3.60	2	2.50
3/3/2013	18:50	Cloudy	Middle	-	18.10	18.10	10.10	8.26	8.26	0.29	32.25	32.25	32.23	77.6	77.2	70.5	6.05	6.02	0.12	3.62	3.64	3.00	3	2.50
7/3/2015	18:48	Claudy	Middle	-	18.40	18.40	40.40	7.91	7.91	7.91	32.48	32.48	32.56	84.0	84.2	83.6	6.53	6.53	0.40	2.94	3.01	2.79	3	3.00
7/3/2015	18:49	Cloudy	Middle	-	18.40	18.40	18.40	7.90	7.90	7.91	32.64	32.64	32.00	83.1	83.2	83.0	6.45	6.46	6.49	2.62	2.58	2.79	3	3.00
9/3/2015	7:45	Fine	Middle	-	18.60	18.60	18.60	8.22	8.22	8.22	32.48	32.48	32.48	76.5	77.5	77.7	5.89	5.98	5.99	4.82	4.82	4.82	2	6.00
9/3/2013	7:47	1 1110	Middle	-	18.60	18.60	10.00	8.22	8.22	0.22	32.48	32.48	32.40	77.9	78.8	11.1	6.00	6.07	5.55	4.81	4.83	4.02	10	0.00
11/3/2015	10:05	Cloudy	Middle	-	18.40	18.40	18.35	8.14	8.14	8.14	32.43	32.43	32.39	81.2	81.1	80.9	6.31	6.29	6.28	6.56	6.60	6.66	6	5.00
11/6/2010	10:07	Cloudy	Middle	-	18.30	18.30	10.00	8.14	8.14	0.14	32.35	32.35	02.00	80.7	80.7	00.0	6.27	6.26	0.20	6.65	6.81	0.00	4	0.00
13/3/2015	7:45	Cloudy	Middle	-	17.90	17.90	17.90	8.16	8.16	8.18	32.32	32.32	32.33	82.9	82.9	82.1	6.43	6.43	6.39	4.17	4.18	4.17	4	3.50
13/3/2013	7:47	Cloudy	Middle	-	17.90	17.90	17.90	8.19	8.19	0.10	32.34	32.34	32.33	81.5	80.9	02.1	6.37	6.32	0.39	4.18	4.16	4.17	3	3.50
16/3/2015	14:45	Cloudy	Middle	-	20.40	20.40	20.40	8.08	8.08	8.08	32.11	32.11	32.13	75.2	74.4	73.9	5.63	5.56	5.53	6.38	6.40	6.51	4	4.50
10/3/2013	14:47	Oloudy	Middle	-	20.40	20.40	20.40	8.07	8.07	0.00	32.15	32.15	32.13	73.7	72.3	70.5	5.51	5.41	0.00	6.82	6.45	0.51	5	4.50
18/3/2015	16:40	Cloudy	Middle	-	20.80	20.80	20.85	8.03	8.03	8.03	32.02	32.02	32.03	79.5	77.9	78.2	5.89	5.77	5.80	7.90	7.96	7.99	2	2.00
13/3/2010	16:42	o.ouuy	Middle	-	20.90	20.90	20.00	8.02	8.02	0.00	32.03	32.03	02.00	78.3	77.2	7 0:12	5.80	5.72	0.00	7.97	8.14	7.00	2	2.00
20/3/2015	19:00	Fine	Middle	-	20.90	20.90	21.05	8.05	8.05	8.05	31.72	31.72	31.72	64.0	63.6	63.6	4.73	4.70	4.70	2.99	2.96	2.87	3	2.50
20/0/2010	19:02	1 1110	Middle	-	21.20	21.20	21.00	8.04	8.04	0.00	31.71	31.71	01.72	63.5	63.2	00.0	4.69	4.67	4.70	2.77	2.76	2.01	2	2.00
23/3/2015	7:45	Fine	Middle	-	19.70	19.70	19.65	8.10	8.10	8.10	32.14	32.14	32.15	67.7	68.3	67.7	5.12	5.17	5.13	4.08	4.13	4.13	7	6.50
	7:47		Middle	-	19.60	19.60		8.09	8.09	50	32.15	32.15		67.9	66.9	±:	5.14	5.07	50	4.14	4.15	0	6	2.50
25/3/2015	8:10	Fine	Middle	-	18.90	18.90	18.90	8.14	8.14	8.14	32.56	32.56	32.56	68.2	68.7	68.8	5.13	5.17	5.18	0.65	0.65	0.66	3	3.00
	8:12		Middle	-	18.90	18.90		8.14	8.14		32.55	32.55		69.1	69.3		5.20	5.21		0.67	0.66		3	
27/3/2015	11:15	Cloudy	Middle	-	20.30	20.30	20.30	8.12	8.12	8.12	32.39	32.39	32.39	66.1	67.0	66.4	4.94	5.00	4.96	2.63	2.63	2.64	5	6.00
,=0.0	11:17	,	Middle	-	20.30	20.30		8.11	8.11		32.38	32.38		66.4	66.0		4.97	4.93		2.64	2.64		7	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pH -			Salinit	ty	С	O Satur	ation		DO ma/L			Turbid		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/2/2015	10:30	Cloudy	Middle	2.5	18.30	18.30	18.30	8.22	8.22	8.22	32.24	32.24	32.25	70.4	71.3	72.7	5.47	5.53	5.64	2.94	2.95	2.95	2	3.00
20/2/2013	10:32	Cloudy	Middle	2.5	18.30	18.30	10.30	8.22	8.22	0.22	32.25	32.25	32.23	74.0	75.0	12.1	5.74	5.82	3.04	2.95	2.96	2.95	4	3.00
2/3/2015	17:22	Cloudy	Middle	3.0	17.90	17.90	17.90	8.30	8.30	8.31	32.55	32.55	32.54	81.6	80.9	80.4	6.38	6.32	6.28	4.41	4.46	4.46	3	3.00
2/0/2010	17:24	O.Guay	Middle	3.0	17.90	17.90		8.31	8.31	0.01	32.53	32.53	02.01	80.1	79.0	00	6.26	6.17	0.20	4.47	4.51		3	0.00
5/3/2015	16:56	Cloudy	Middle	3.0	18.10	18.10	18.10	8.31	8.31	8.31	32.48	32.48	32.48	82.6	83.3	83.2	6.42	6.48	6.47	4.31	4.32	4.31	3	2.50
	16:59	,	Middle	3.0	18.10	18.10		8.31	8.31		32.48	32.48		83.4	83.4		6.49	6.49	_	4.32	4.30		2	
7/3/2015	16:30	Cloudy	Middle	2.5	18.80	18.80	18.80	8.23	8.23	8.23	32.52	32.52	32.53	82.1	82.1	82.3	6.30	6.30	6.32	3.88	3.89	3.90	4	4.00
	16:32	ŕ	Middle	2.5	18.80	18.80		8.23	8.23		32.54	32.54		83.0	82.0		6.37	6.29		3.89	3.92		4	
9/3/2015	10:00	Fine	Middle	3.0	19.90	19.90	19.95	8.20	8.20	8.20	32.65	32.65	32.65	84.2	84.2	83.8	6.31	6.31	6.28	5.13	5.11	5.14	4	5.00
	10:02		Middle	3.0	20.00	20.00		8.20	8.20		32.64	32.64		83.6	83.2		6.27	6.24		5.14	5.16		6	
11/3/2015	9:10	Cloudy	Middle	2.5	18.00	18.00	18.00	8.24	8.24	8.24	32.49	32.49	32.50	84.7	84.1	84.1	6.60	6.55	6.56	5.78	5.78	5.75	4	4.50
	9:12		Middle	2.5	18.00	18.00		8.24	8.24		32.50	32.50		84.0	83.7		6.55	6.52		5.76	5.66		5	
13/3/2015	11:10	Cloudy	Middle	2.5	18.40	18.40	18.45	8.10	8.10	8.14	32.45	32.45	32.45	81.7	81.8	81.6	6.31	6.32	6.30	5.97	5.92	5.92	6	5.00
	11:12		Middle	2.5	18.50	18.50		8.18	8.18		32.45	32.45		81.8	81.1		6.32	6.26		5.90	5.90		4	
16/3/2015	14:20	Cloudy	Middle	3.0	20.40	20.40	20.40	8.09	8.09	8.09	32.24	32.24	32.26	79.7	80.7	79.4	5.95	6.02	5.93	4.16	4.19	4.17	4	4.00
	14:22		Middle	3.0	20.40	20.40		8.09	8.09		32.28	32.28		78.7	78.6		5.87	5.86		4.16	4.16		4	
18/3/2015	15:57	Cloudy	Middle	2.5	21.00	21.00	21.10	8.10	8.10	8.10	32.27	32.27	32.21	80.1	79.8	79.3	5.91	5.89	5.85	5.41	5.35	5.30	3	4.00
	15:59		Middle	2.5	21.20	21.20		8.10	8.10		32.15	32.15		79.4	77.9		5.85	5.74		5.23	5.22		5	
20/3/2015	17:09	Fine	Middle	2.5	21.00	21.00	15.78	8.11	8.11	8.11	31.60	31.60	31.60	65.3	65.1	64.3	4.84	4.82	4.76	3.75	3.74	3.73	4	4.50
	17:11		Middle	2.5	0.00	21.10		8.11	8.11		31.60	31.60		64.1	62.7		4.74	4.64		3.72	3.72		5	
23/3/2015	10:14	Fine	Middle	3.0	19.90	19.90	19.95	8.20	8.20	8.21	32.75	32.75	32.75	73.9	74.2	73.7	5.52	5.57	5.52	6.89	6.89	6.88	8	7.50
	10:16		Middle	3.0	20.00	20.00		8.21	8.21		32.75	32.75		73.7	73.0		5.52	5.47		6.89	6.84	<u> </u>	7	<u> </u>
25/3/2015	10:10	Fine	Middle	3.0	19.70	19.70	19.65	8.15	8.15	8.17	32.71	32.71	32.72	78.8	80.3	78.8	5.95	6.06	5.95	3.84	3.78	3.78	6	5.50
	10:12		Middle	3.0	19.60	19.60		8.19	8.19		32.72	32.72		79.0	77.2		5.96	5.83		3.74	3.74		5	
27/3/2015	10:35	Cloudy	Middle	3.0	20.00	20.00	20.00	8.17	8.17	8.18	32.39	32.39	32.39	70.4	70.6	70.3	5.29	5.30	5.28	2.17	2.26	2.21	4	3.50
	10:37		Middle	3.0	20.00	20.00		8.18	8.18		32.39	32.39		70.1	70.2		5.26	5.27		2.26	2.14		3	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pH -			Salini	,	С	OO Satur	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
			r	n	Va	lue	Average	Va	ılue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/2/2015	10:51	Cloudy	Middle	2.5	18.10	18.10	18.10	8.21	8.21	8.21	32.25	32.25	32.26	76.4	76.6	76.5	5.87	5.89	5.90	3.37	3.45	3.48	3	4.00
20/2/2010	10:53	Cioday	Middle	2.5	18.10	18.10		8.21	8.21	0.2.	32.26	32.26	02.20	76.8	76.2	7 0.0	5.90	5.93	0.00	3.48	3.63	0.10	5	
2/3/2015	17:38	Cloudy	Middle	3.0	18.00	18.00	18.00	8.27	8.27	8.28	32.31	32.31	32.31	78.3	78.0	77.9	6.11	6.09	6.08	4.24	4.01	3.97	4	4.00
2/0/2010	17:40	Oloddy	Middle	3.0	18.00	18.00	10.00	8.28	8.28	0.20	32.31	32.31	02.01	77.8	77.4	11.0	6.07	6.04	0.00	3.87	3.76	0.01	4	4.00
5/3/2015	16:35	Cloudy	Middle	3.0	17.70	17.70	17.70	8.27	8.27	8.27	32.60	32.60	32.60	84.8	84.4	84.6	6.65	6.63	6.64	3.77	3.80	3.79	2	2.00
0/0/2010	16:37	Oloddy	Middle	3.0	17.70	17.70	17.70	8.27	8.27	0.27	32.60	32.60	02.00	84.7	84.6	04.0	6.64	6.63	0.04	3.80	3.77	0.70	<2	2.00
7/3/2015	16:59	Cloudy	Middle	2.5	18.20	18.20	18.25	8.23	8.23	8.23	32.49	32.49	32.49	80.8	80.7	80.5	6.26	6.26	6.24	4.25	4.29	4.37	4	4.50
170/2010	17:01	oloudy	Middle	2.5	18.30	18.30	.0.20	8.23	8.23	0.20	32.48	32.48	02.10	80.5	80.0	00.0	6.24	6.20	0.2 .	4.48	4.46		5	1.00
9/3/2015	10:30	Fine	Middle	3.0	19.40	19.40	19.40	8.22	8.22	8.22	32.54	32.54	32.55	81.7	82.1	81.8	6.21	6.23	6.21	4.93	4.93	4.92	5	4.50
3/3/2010	10:32	1 1110	Middle	3.0	19.40	19.40	10.40	8.22	8.22	U.LL	32.55	32.55	02.00	82.0	81.4	01.0	6.22	6.18	0.21	4.92	4.90	4.02	4	4.00
11/3/2015	9:34	Cloudy	Middle	2.5	17.30	17.30	17.30	8.22	8.22	8.22	32.62	32.62	32.62	81.2	81.1	81.4	6.42	6.40	6.43	4.38	4.30	4.28	3	3.50
11/0/2010	9:36	Cioday	Middle	2.5	17.30	17.30		8.22	8.22	0.22	32.62	32.62	02.02	81.5	81.8	0	6.43	6.45	0.10	4.15	4.28	20	4	0.00
13/3/2015	11:35	Cloudy	Middle	2.5	17.80	17.80	17.85	8.17	8.17	8.17	32.47	32.47	32.47	80.3	80.5	80.3	6.27	6.29	6.27	4.67	4.68	4.63	6	5.50
10/0/2010	11:37	Cicacy	Middle	2.5	17.90	17.90		8.17	8.17	0.11	32.47	32.47	02.11	80.3	80.0	00.0	6.27	6.26	0.2.	4.59	4.57		5	0.00
16/3/2015	14:06	Cloudy	Middle	3.0	20.30	20.30	20.40	8.07	8.07	8.07	32.47	32.47	32.42	79.7	78.1	78.9	5.95	5.82	5.88	4.28	4.16	4.19	3	3.00
10/0/2010	14:08	oloudy	Middle	3.0	20.50	20.50	20.10	8.07	8.07	0.07	32.36	32.36	02.12	78.9	78.8	7 0.0	5.89	5.87	0.00	4.15	4.15	0	3	0.00
18/3/2015	16:09	Cloudy	Middle	2.5	20.40	20.40	20.40	8.09	8.09	8.09	32.20	32.20	32.20	77.1	77.9	78.0	5.74	5.81	5.81	4.57	4.66	4.62	4	5.00
	16:11	,	Middle	2.5	20.40	20.40		8.09	8.09		32.20	32.20		77.6	79.3		5.78	5.90		4.68	4.58		6	
20/3/2015	16:56	Fine	Middle	2.5	21.70	21.70	21.75	8.10	8.10	8.11	31.57	31.57	31.50	74.7	74.1	73.5	5.44	5.40	5.35	5.06	4.93	4.92	3	3.00
	16:58		Middle	2.5	21.80	21.80		8.11	8.11	• • • • • • • • • • • • • • • • • • • •	31.43	31.43		72.6	72.4		5.29	5.28		4.86	4.84		3	
23/3/2015	9:45	Fine	Middle	3.0	19.30	19.30	19.30	8.18	8.18	8.17	32.26	32.26	32.26	69.9	69.3	69.8	5.33	5.28	5.32	6.54	6.54	6.54	10	10.50
	9:47		Middle	3.0	19.30	19.30		8.16	8.16		32.26	32.26		70.2	69.7		5.35	5.31		6.54	6.54		11	
25/3/2015	10:30	Fine	Middle	3.0	19.60	19.60	19.60	8.19	8.19	8.19	32.49	32.49	32.50	74.0	74.2	74.0	5.59	5.61	5.59	4.73	4.72	4.72	6	6.00
	10:32		Middle	3.0	19.60	19.60		8.19	8.19		32.51	32.51		75.6	72.2		5.46	5.68		4.71	4.71		6	
27/3/2015	10:15	Cloudy	Middle	3.0	20.30	20.30	20.35	8.14	8.14	8.15	32.37	32.37	32.38	73.0	73.5	72.6	5.45	5.49	5.42	1.66	1.65	1.64	4	3.50
	10:17		Middle	3.0	20.40	20.40		8.15	8.15		32.39	32.39		71.2	72.8	. =*	5.32	5.42		1.64	1.60		3	



# Water Monitoring Result at P3 - APA Mid-Flood Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp	erature		pH -			Salini	ty	С	O Satur	ation		DO mg/L			Turbid		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/2/2015	10:46	Cloudy	Middle	2.5	18.00	18.00	18.00	8.22	8.22	8.22	32.29	32.29	32.29	77.4	77.4	77.5	6.04	6.03	6.04	2.89	2.88	2.88	3	3.50
20/2/2013	10:48	Cloudy	Middle	2.5	18.00	18.00	10.00	8.22	8.22	0.22	32.29	32.29	32.29	77.4	77.8	11.5	6.03	6.06	0.04	2.87	2.86	2.00	4	3.30
2/3/2015	17:34	Cloudy	Middle	3.0	18.00	18.00	18.00	8.27	8.27	8.27	32.33	32.33	32.34	80.0	79.2	78.6	6.24	6.18	6.13	3.12	3.03	3.03	<2	- <2
2/3/2013	17:36	Cloudy	Middle	3.0	18.00	18.00	10.00	8.27	8.27	0.27	32.34	32.34	32.34	78.0	77.2	70.0	6.08	6.02	0.13	3.00	2.96	3.03	<2	\Z
5/3/2015	16:40	Cloudy	Middle	3.0	17.80	17.80	17.80	8.29	8.29	8.29	32.63	32.63	32.64	84.5	84.9	84.7	6.61	6.65	6.63	3.60	3.63	3.64	2	3.00
3/3/2013	16:42	Oloudy	Middle	3.0	17.80	17.80	17.00	8.29	8.29	0.23	32.64	32.64	32.04	84.6	84.8	04.7	6.62	6.64	0.03	3.64	3.68	3.04	4	3.00
7/3/2015	16:55	Cloudy	Middle	2.5	18.20	18.20	18.25	8.22	8.22	8.22	32.54	32.54	32.54	78.5	79.0	78.7	6.09	6.13	6.10	8.70	8.76	8.78	13	13.50
7/3/2013	16:57	Cloudy	Middle	2.5	18.30	18.30	10.23	8.22	8.22	0.22	32.54	32.54	32.34	78.6	78.7	70.7	6.09	6.10	0.10	8.81	8.85	6.76	14	13.30
9/3/2015	10:21	Fine	Middle	3.0	19.10	19.10	19.15	8.20	8.20	8.20	32.47	32.47	32.48	79.4	78.7	79.1	6.05	5.99	6.03	5.45	5.46	5.44	5	4.50
3/3/2013	10:23	TING	Middle	3.0	19.20	19.20	10.10	8.20	8.20	0.20	32.48	32.48	32.40	79.1	79.3	73.1	6.03	6.04	0.03	5.46	5.40	5.44	4	4.50
11/3/2015	9:28	Cloudy	Middle	2.5	17.60	17.60	17.55	8.22	8.22	8.22	32.67	32.67	32.67	79.6	79.7	79.7	6.26	6.26	6.27	4.22	4.02	4.06	3	2.50
11/0/2010	9:30	Oloudy	Middle	2.5	17.50	17.50	17.00	8.22	8.22	0.22	32.67	32.67	02.01	79.8	79.7	70.7	6.27	6.27	0.27	4.00	3.98	4.00	2	2.00
13/3/2015	11:27	Cloudy	Middle	2.5	17.80	17.80	17.80	8.16	8.16	8.16	32.40	32.40	32.42	78.6	78.1	78.8	6.15	6.11	6.16	5.35	5.33	5.34	3	3.50
13/3/2013	11:29	Oloudy	Middle	2.5	17.80	17.80	17.00	8.16	8.16	0.10	32.43	32.43	32.42	78.8	79.5	70.0	6.16	6.22	0.10	5.31	5.36	3.34	4	5.50
16/3/2015	14:09	Cloudy	Middle	3.0	19.70	19.70	19.75	8.07	8.07	8.07	32.36	32.36	32.33	75.7	74.5	74.5	5.72	5.62	5.63	4.15	4.28	4.19	2	2.50
10/0/2010	14:11	Oloudy	Middle	3.0	19.80	19.80	10.70	8.07	8.07	0.07	32.30	32.30	02.00	73.9	74.0	74.0	5.59	5.58	0.00	4.16	4.15	4.10	3	2.00
18/3/2015	16:06	Cloudy	Middle	2.5	20.30	20.30	20.35	8.09	8.09	8.09	32.18	32.18	32.18	77.4	77.6	77.4	5.78	5.80	5.78	4.57	4.40	4.44	4	4.50
10/0/2010	16:08	Cidady	Middle	2.5	20.40	20.40	20.00	8.09	8.09	0.00	32.18	32.18	02.10	77.4	77.1		5.78	5.76	0.10	4.40	4.40		5	1.00
20/3/2015	17:00	Fine	Middle	2.5	21.20	21.20	21.25	8.11	8.11	8.11	31.54	31.54	31.52	63.0	63.7	63.8	4.65	4.71	4.71	5.08	5.07	5.06	4	3.50
23/3/2013	17:02		Middle	2.5	21.30	21.30	21120	8.11	8.11	0.11	31.50	31.50	01102	64.4	64.1	00.0	4.75	4.73		5.03	5.04	0.00	3	0.00
23/3/2015	9:53	Fine	Middle	3.0	19.30	19.30	19.30	8.15	8.15	8.15	32.32	32.32	32.32	70.4	69.1	69.9	5.36	5.26	5.32	7.29	7.30	7.33	7	7.00
	9:55		Middle	3.0	19.30	19.30		8.15	8.15	50	32.32	32.32		70.2	70.0	22.0	5.34	5.32	5.52	7.35	7.36		7	
25/3/2015	10:26	Fine	Middle	3.0	19.60	19.60	19.55	8.21	8.21	8.20	32.39	32.39	32.45	72.9	72.8	72.7	5.52	5.51	5.51	2.57	2.58	2.58	3	3.50
	10:28	-	Middle	3.0	19.50	19.50		8.19	8.19		32.50	32.50		72.6	72.5		5.50	5.49		2.58	2.57		4	
27/3/2015	10:20	Cloudy	Middle	3.0	20.10	20.10	20.10	8.16	8.16	8.17	32.44	32.44	32.43	70.7	70.4	70.5	5.30	5.27	5.28	1.35	1.35	1.38	3	3.50
2.75/2010	10:22	0.000,	Middle	3.0	20.10	20.10	200	8.17	8.17	J	32.42	32.42	52.10	70.5	70.2		5.28	5.26	0.20	1.36	1.45		4	0.00



# Water Monitoring Result at P4 - SOC Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pН			Salinit	ty	D	O Satur	ation		DO ma/L			Turbid		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/2/2015	10:40	Cloudy	Middle	2.5	18.00	18.00	18.00	8.22	8.22	8.22	32.29	32.29	32.29	73.8	74.1	73.8	5.76	5.79	5.76	3.25	3.29	3.27	3	3.50
20/2/2013	10:42	Cloudy	Middle	2.5	18.00	18.00	10.00	8.22	8.22	0.22	32.29	32.29	32.29	73.8	73.5	73.0	5.76	5.74	3.70	3.27	3.26	3.21	4	3.30
2/3/2015	17:30	Cloudy	Middle	3.0	17.90	17.90	17.90	8.31	8.31	8.31	32.47	32.47	32.48	82.0	82.1	82.0	6.40	6.41	6.41	4.88	4.85	4.84	4	5.00
2/0/2010	17:32	Cidady	Middle	3.0	17.90	17.90		8.31	8.31	0.01	32.48	32.48	02.10	82.2	81.8	02.0	6.42	6.39	0	4.82	4.82		6	0.00
5/3/2015	16:45	Cloudy	Middle	3.0	18.00	18.00	18.00	8.31	8.31	8.31	32.46	32.46	32.47	84.8	85.0	85.1	6.61	6.62	6.63	5.69	5.64	5.65	4	4.00
	16:47	,	Middle	3.0	18.00	18.00		8.31	8.31		32.47	32.47		85.1	85.3		6.63	6.64		5.63	5.62		4	
7/3/2015	16:45	Cloudy	Middle	2.5	18.40	18.40	18.45	8.23	8.23	8.23	32.53	32.53	32.54	83.2	84.8	84.3	6.41	6.55	6.51	4.58	4.57	4.59	6	5.50
	16:47		Middle	2.5	18.50	18.50		8.23	8.23		32.54	32.54		84.5	84.8		6.53	6.55		4.62	4.58		5	
9/3/2015	10:14	Fine	Middle	3.0	19.40	19.40	19.40	8.20	8.20	8.20	32.51	32.51	32.51	83.1	83.0	83.2	6.31	6.30	6.32	5.76	5.76	5.67	5	5.00
	10:16		Middle	3.0	19.40	19.40		8.20	8.20		32.51	32.51		83.4	83.4		6.33	6.33		5.63	5.54		5	
11/3/2015	9:23	Cloudy	Middle	2.5	17.60	17.60	17.60	8.24	8.24	8.24	32.58	32.58	32.58	84.9	84.9	85.3	6.66	6.47	6.65	4.36	4.37	4.38	4	4.50
	9:25		Middle	2.5	17.60	17.60		8.24	8.24		32.58	32.58		85.7	85.7		6.73	6.73		4.38	4.39		5	
13/3/2015	11:21	Cloudy	Middle	2.5	17.90	17.90	17.90	8.17	8.17	8.17	32.38	32.38	32.38	78.2	78.9	78.6	6.12	6.19	6.15	5.48	5.38	5.38	4	4.00
	11:23		Middle	2.5	17.90	17.90		8.17	8.17		32.38	32.38		79.1	78.1		6.19	6.10		5.33	5.31		4	<u> </u>
16/3/2015	14:12	Cloudy	Middle	3.0	19.80	19.80	19.85	8.09	8.09	8.10	32.27	32.27	32.27	81.7	81.4	80.9	6.15	6.11	6.09	6.22	6.29	6.17	6	5.50
	14:14		Middle	3.0	19.90	19.90		8.10	8.10		32.26	32.26		80.6	80.0		6.07	6.01		6.17	6.01		5	
18/3/2015	16:03	Cloudy	Middle	2.5	20.50	20.50	20.50	8.08	8.08	8.08	32.18	32.18	32.17	81.3	80.0	79.4	6.06	5.95	5.91	5.89	5.89	5.89	4	4.00
	16:05		Middle	2.5	20.50	20.50		8.07	8.07		32.15	32.15		78.6	77.7		5.86	5.78		5.89	5.88		4	<del>                                     </del>
20/3/2015	17:03	Fine	Middle	2.5	20.90	20.90	20.95	8.11	8.11	8.11	31.62	31.62	31.61	66.9	66.2	65.8	4.96	4.91	4.88	5.28	5.28	5.24	5	4.50
	17:05		Middle	2.5	21.00	21.00		8.11	8.11		31.60	31.60		65.4	64.8		4.85	4.80		5.25	5.13		4	<u> </u>
23/3/2015	10:00	Fine	Middle	3.0	19.10	19.10	19.30	8.20	8.20	8.20	32.61	32.61	32.58	70.8	71.3	71.3	5.37	5.40	5.40	7.15	7.19	7.15	7	7.00
	10:02		Middle	3.0	19.50	19.50		8.20	8.20		32.55	32.55		71.7	71.4		5.43	5.41		7.19	7.08		7	<del>                                     </del>
25/3/2015	10:18	Fine	Middle	3.0	19.50	19.50	19.45	8.22	8.22	8.22	32.61	32.61	32.65	74.2	74.5	73.9	5.62	5.64	5.59	3.08	3.09	3.17	5	4.50
	10:20		Middle	3.0	19.40	19.40		8.22	8.22		32.68	32.68		73.9	73.0		5.60	5.50		3.32	3.18		4	<u> </u>
27/3/2015	10:25	Cloudy	Middle	3.0	20.00	20.00	20.05	8.18	8.18	8.19	32.42	32.42	32.42	70.5	71.1	70.7	5.29	5.33	5.30	1.96	1.91	1.89	3	2.50
	10:27		Middle	3.0	20.10	20.10		8.19	8.19		32.42	32.42		70.6	70.5		5.30	5.29		1.87	1.83		2	



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

Date	Time	Weater	Samplin	g Depth	Wat	ter Temp	erature		рН			Salini	ty	С	O Satur	ation		DO			Turbid	,		ed Solids
		Condition	r	n	Va	ulue °C	Average	Va	lue -	Average	Va	ppt lue	Average	Va	llue %	Average	Va	mg/L lue	Average	Va	NTU ilue	Average	Mg Value	g/L Average
00/0/0045	10:36		Middle	2.5	18.00	18.00	10.05	8.24	8.24		32.28	32.28	00.00	77.0	76.8		6.00	5.99	0.00	3.70	3.74		3	
28/2/2015	10:38	Cloudy	Middle	2.5	18.10	18.10	18.05	8.24	8.24	8.24	32.28	32.28	32.28	77.5	78.1	77.4	6.04	6.09	6.03	3.70	3.54	3.67	4	3.50
2/3/2015	17:26	Cloudy	Middle	3.0	17.90	17.90	17.90	8.32	8.32	8.32	32.53	32.53	32.53	82.4	81.5	81.1	6.43	6.36	6.33	4.69	4.67	4.65	4	4.00
2/0/2010	17:28	Cloudy	Middle	3.0	17.90	17.90	17.00	8.32	8.32	0.02	32.53	32.53	02.00	80.6	80.0	01.1	6.29	6.24	0.00	4.64	4.61	4.00	4	4.00
5/3/2015	16:51	Cloudy	Middle	3.0	18.10	18.10	18.10	8.32	8.32	8.32	32.60	32.60	32.60	83.7	84.1	84.0	6.51	6.54	6.53	5.30	5.23	5.24	2	2.00
	16:53	,	Middle	3.0	18.10	18.10		8.32	8.32		32.60	32.60		83.9	84.2		6.53	6.55		5.22	5.22		2	
7/3/2015	16:40	Cloudy	Middle	2.5	18.40	18.40	18.40	8.22	8.22	8.22	32.55	32.55	32.55	80.9	81.5	81.3	6.26	6.30	6.29	5.08	5.00	4.95	6	6.00
770/2010	16:42	Cloudy	Middle	2.5	18.40	18.40	10.40	8.22	8.22	0.22	32.55	32.55	02.00	81.3	81.6	01.0	6.29	6.31	0.20	4.88	4.84	4.00	6	0.00
9/3/2015	10:07	Fine	Middle	3.0	19.40	19.40	19.45	8.20	8.20	8.20	32.39	32.39	32.39	80.3	80.3	80.0	6.09	6.09	6.07	4.28	4.29	4.33	8	8.00
	10:09	-	Middle	3.0	19.50	19.50		8.20	8.20		32.39	32.39		80.0	79.2		6.08	6.00		4.34	4.39		8	
11/3/2015	9:17	Cloudy	Middle	2.5	17.90	17.90	17.85	8.25	8.25	8.25	32.61	32.61	32.62	83.8	84.0	84.1	6.57	6.58	6.58	6.40	6.28	6.26	8	7.00
	9:19	•	Middle	2.5	17.80	17.80		8.25	8.25		32.62	32.62		84.1	84.3		6.58	6.59		6.16	6.18		6	
13/3/2015	11:15	Cloudy	Middle	2.5	18.00	18.00	18.05	8.20	8.20	8.20	32.46	32.46	32.46	83.2	83.7	82.9	6.48	6.52	6.46	8.14	8.24	8.20	9	10.00
	11:17	,	Middle	2.5	18.10	18.10		8.20	8.20		32.46	32.46		83.6	80.9		6.52	6.30		8.25	8.16		11	
16/3/2015	14:16	Cloudy	Middle	3.0	20.00	20.00	20.05	8.09	8.09	8.09	32.27	32.27	32.27	83.8	81.2	81.9	6.29	6.10	6.15	5.75	5.75	5.66	5	4.50
	14:18		Middle	3.0	20.10	20.10		8.09	8.09		32.27	32.27		81.2	81.3		6.11	6.11		5.66	5.48		4	
18/3/2015	16:00	Cloudy	Middle	2.5	20.50	20.50	20.60	8.10	8.10	8.10	32.19	32.19	32.19	73.0	72.7	72.8	5.43	5.41	5.42	5.57	5.56	5.58	5	6.00
	16:02		Middle	2.5	20.70	20.70		8.10	8.10		32.19	32.19		72.9	72.7		5.42	5.41		5.58	5.61		7	
20/3/2015	17:07	Fine	Middle	2.5	21.10	21.10	21.15	8.12	8.12	8.12	31.57	31.57	31.57	66.6	66.1	66.1	4.90	4.89	4.89	4.64	4.62	4.63	3	3.00
	17:09	-	Middle	2.5	21.20	21.20		8.12	8.12		31.57	31.57		66.1	65.7		4.89	4.86		4.59	4.67		3	
23/3/2015	10:05	Fine	Middle	3.0	19.50	19.50	19.55	8.23	8.23	8.23	32.77	32.77	32.74	70.3	72.0	71.2	5.31	5.44	5.37	7.96	7.97	7.97	7	7.50
	10:07		Middle	3.0	19.60	19.60		8.23	8.23		32.71	32.71		71.2	71.2		5.37	5.37		7.98	7.97		8	
25/3/2015	10:13	Fine	Middle	3.0	19.60	19.60	19.55	8.21	8.21	8.22	32.79	32.79	32.79	80.7	82.1	81.2	6.10	6.20	6.14	3.89	3.93	3.94	5	4.50
	10:15		Middle	3.0	19.50	19.50		8.23	8.23		32.79	32.79		82.0	80.1		6.18	6.06		3.97	3.97		4	
27/3/2015	10:30	Cloudy	Middle	3.0	20.10	20.10	20.10	8.19	8.19	8.19	32.41	32.41	32.41	67.3	67.9	67.8	5.05	5.09	5.09	1.64	1.64	1.65	4	4.00
	10:32	Í	Middle	3.0	20.10	20.10		8.19	8.19		32.41	32.41		67.9	68.1		5.10	5.11		1.65	1.65		4	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp	perature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspend	ded Solids
			ľ	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/2/2015	11:00	Cloudy	Middle	3.0	18.10	18.10	18.15	8.27	8.27	8.27	32.29	32.29	32.30	78.8	78.9	79.1	6.13	6.14	6.15	2.94	2.78	2.84	4	4.50
29/2/2010	11:02	Cidady	Middle	3.0	18.20	18.20	10110	8.27	8.27	0.2.	32.30	32.30	02.00	79.2	79.3		6.16	6.17	0.10	2.78	2.86	2.0 .	5	
2/3/2015	15:45	Cloudy	Middle	3.0	18.20	19.20	18.50	8.26	8.26	8.26	32.25	32.25	32.25	87.8	87.5	87.0	6.82	6.80	6.75	5.63	5.63	5.65	4	4.50
2/0/2010	15:47	Cidady	Middle	3.0	18.30	18.30	10.00	8.26	8.26	0.20	32.25	32.25	02.20	86.9	85.8	07.0	6.74	6.65	0.70	5.64	5.70	0.00	5	
5/3/2015	17:30	Cloudy	Middle	3.0	18.00	18.00	18.00	8.30	8.30	8.31	32.47	32.47	32.47	79.9	79.4	78.9	6.21	6.19	6.14	5.34	5.35	5.41	3	3.50
5,5,2,7	17:32	,	Middle	3.0	18.00	18.00		8.31	8.31		32.47	32.47		78.6	77.5		6.10	6.04		5.41	5.54		4	
7/3/2015	19:25	Cloudy	Middle	3.5	18.30	18.30	18.30	7.75	7.75	7.76	31.74	31.74	31.88	84.8	81.4	83.1	6.83	6.31	6.50	7.67	7.63	7.57	6	6.00
	19:26	,	Middle	3.5	18.30	18.30		7.76	7.76		32.02	32.02		82.9	83.4		6.42	6.44		7.45	7.52		6	
9/3/2015	7:30	Fine	Middle	3.0	18.40	18.40	18.40	8.22	8.22	8.22	32.47	32.47	32.48	84.7	84.9	84.7	6.55	6.56	6.54	5.62	5.62	5.62	6	6.50
	7:32		Middle	3.0	18.40	18.40		8.22	8.22		32.48	32.48		84.8	84.2		6.55	6.51		5.62	5.63		7	
11/3/2015	9:47	Cloudy	Middle	3.0	17.90	17.90	17.85	8.26	8.26	8.26	32.53	32.53	32.55	77.8	77.5	77.8	6.07	6.05	6.07	8.15	8.15	8.15	8	7.50
	9:48		Middle	3.0	17.80	17.80		8.26	8.26		32.57	32.57		77.8	78.1		6.07	6.09		8.14	8.14		7	
13/3/2015	7:25	Cloudy	Middle	3.0	17.80	17.80	17.75	8.16	8.16	8.18	32.69	32.69	32.66	81.0	80.5	80.5	6.34	6.29	6.30	3.74	3.73	3.75	3	3.00
	7:27	r	Middle	3.0	17.70	17.70		8.19	8.19		32.62	32.62		80.2	80.4		6.28	6.29		3.77	3.76		3	
16/3/2015	14:24	Cloudy	Middle	3.0	19.70	19.70	19.75	8.09	8.09	8.09	32.31	32.31	32.27	74.8	74.2	74.1	5.65	5.60	5.60	5.12	5.11	5.09	3	3.50
	14:26		Middle	3.0	19.80	19.80		8.09	8.09		32.23	32.23		74.1	73.2		5.59	5.54		5.07	5.06		4	<u> </u>
18/3/2015	16:15	Cloudy	Middle	3.0	19.80	19.80	19.85	8.08	8.08	8.09	32.16	32.16	32.17	81.3	81.6	81.0	6.13	6.16	6.11	8.84	8.93	<u>8.92</u>	6	5.50
	16:17		Middle	3.0	19.90	19.90		8.09	8.09		32.17	32.17		80.7	80.5		6.08	6.07		8.95	8.95		5	
20/3/2015	17:20	Fine	Middle	3.5	20.90	20.90	20.90	8.13	8.13	8.13	31.61	31.61	31.61	72.0	72.3	71.9	5.35	5.37	5.34	5.47	5.46	5.52	5	4.50
	17:22		Middle	3.5	20.90	20.90		8.13	8.13		31.61	31.61	1	71.9	71.4		5.32	5.30		5.55	5.61	1	4	<u> </u>
23/3/2015	7:25	Fine	Middle	3.5	19.70	19.70	19.70	8.14	8.14	8.14	32.22	32.22	32.22	68.2	68.5	68.2	5.16	5.20	5.17	7.62	7.61	7.65	6	6.50
	7:27		Middle	3.5	19.70	19.70		8.14	8.14		32.22	32.22		68.5	67.7		5.20	5.12		7.68	7.67		7	<u> </u>
25/3/2015	7:45	Fine	Middle	3.0	19.60	19.60	19.60	8.20	8.20	8.21	32.56	32.56	32.57	72.4	72.8	72.4	5.47	5.50	5.47	2.73	2.64	2.67	3	3.50
	7:47		Middle	3.0	19.60	19.60		8.21	8.21		32.58	32.58		72.3	72.1		5.47	5.45		2.64	2.65		4	<u> </u>
27/3/2015	11:00	Cloudy	Middle	3.5	20.10	20.10	20.10	8.19	8.19	8.19	32.57	32.57	32.57	71.5	72.4	71.7	5.35	5.42	5.37	4.05	4.01	4.06	6	6.50
	11:02		Middle	3.5	20.10	20.10		8.19	8.19		32.57	32.57		71.7	71.0		5.37	5.32		4.13	4.05		7	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pH -			Salini	ty	С	O Satur	ation		DO ma/L			Turbid		Suspend	ed Solids
		Corrainori	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/2/2015	14:35	Cloudy	Middle	3.0	18.50	18.50	18.45	8.21	8.21	8.21	32.26	32.26	32.26	81.8	82.0	81.7	6.32	6.34	6.31	5.10	5.09	5.10	5	4.50
20/2/2010	14:37	Oloudy	Middle	3.0	18.40	18.40	10.40	8.21	8.21	0.21	32.26	32.26	02.20	81.5	81.3	01	6.29	6.28	0.01	5.10	5.10	0.10	4	4.00
2/3/2015	16:35	Cloudy	Middle	3.5	18.10	18.10	18.10	8.24	8.24	8.24	32.31	32.31	32.29	85.6	86.6	85.8	6.53	6.74	6.62	6.43	6.38	6.34	4	3.50
	16:37	5.00.00	Middle	3.5	18.10	18.10		8.24	8.24	J	32.27	32.27		85.7	85.4		6.67	6.53		6.27	6.28		3	
5/3/2015	16:00	Cloudy	Middle	3.0	18.00	18.00	18.00	8.30	8.30	8.30	32.52	32.52	32.52	78.3	78.0	78.0	6.10	6.08	6.07	6.31	6.19	6.25	5	5.50
	16:02	·	Middle	3.0	18.00	18.00		8.30	8.30		32.52	32.52		78.0	77.5		6.07	6.03		6.28	6.20		6	
7/3/2015	20:00	Cloudy	Middle	3.0	18.20	18.20	18.20	7.87	7.87	7.87	32.26	32.26	32.61	82.5	82.8	83.2	6.39	6.42	6.44	6.10	6.26	6.23	4	5.00
	20:01		Middle	3.0	18.20	18.20		7.87	7.87		32.96	32.96		83.8	83.6		6.48	6.47		6.35	6.20		6	<u> </u>
9/3/2015	8:15	Fine	Middle	3.5	18.90	18.90	18.90	8.20	8.20	8.20	32.38	32.38	32.38	74.9	75.2	75.3	6.75	6.78	6.78	7.45	7.57	7.53	6	6.50
	8:17		Middle	3.5	18.90	18.90		8.20	8.20		32.37	32.37		75.5	75.4		6.80	6.79		7.58	7.53		7	
11/3/2015	8:35	Cloudy	Middle	3.0	18.00	18.00	18.00	8.21	8.21	8.21	32.72	32.72	32.73	82.0	81.7	81.4	6.39	6.37	6.35	7.76	7.68	7.71	7	7.50
	8:37	·	Middle	3.0	18.00	18.00		8.21	8.21		32.73	32.73		81.1	80.9		6.32	6.31		7.69	7.72		8	
13/3/2015	11:50	Cloudy	Middle	3.5	18.20	18.20	18.20	8.17	8.17	8.17	32.53	32.53	32.53	74.6	74.4	74.2	5.78	5.77	5.75	6.82	6.82	6.82	4	4.50
	11:52		Middle	3.5	18.20	18.20		8.17	8.17		32.53	32.53		74.4	73.4		5.77	5.69		6.83	6.82		5	<u> </u>
16/3/2015	11:20	Cloudy	Middle	3.0	20.20	20.20	20.35	8.12	8.12	8.13	32.53	32.53	32.52	79.7	80.0	79.5	5.95	5.97	5.93	8.01	7.99	7.99	6	6.00
	11:22		Middle	3.0	20.50	20.50		8.13	8.13		32.51	32.51		79.3	78.8		5.91	5.87		7.98	7.96		6	
18/3/2015	15:05	Cloudy	Middle	3.0	21.20	21.20	21.55	8.14	8.14	8.14	32.24	32.24	32.18	85.1	85.8	85.5	6.22	6.27	6.25	6.56	6.47	6.57	9	9.00
	15:07		Middle	3.0	21.90	21.90		8.13	8.13		32.12	32.12		85.4	85.7		6.24	6.27		6.62	6.64		9	
20/3/2015	16:04	Fine	Middle	3.0	22.40	22.40	22.55	8.10	8.10	8.10	31.49	31.49	31.39	63.0	64.4	63.0	4.54	4.65	4.54	10.01	9.98	10.01	8	7.50
	16:06		Middle	3.0	22.70	22.70		8.10	8.10		31.29	31.29		63.6	61.1		4.59	4.38		9.97	10.07		7	1
23/3/2015	8:25	Fine	Middle	3.5	19.70	19.70	19.70	8.15	8.15	8.15	32.12	32.12	32.12	66.6	68.6	67.8	5.05	5.18	5.13	7.50	7.49	7.50	8	8.00
	8:27		Middle	3.5	19.70	19.70		8.15	8.15		32.12	32.12		68.2	67.9		5.16	5.14		7.52	7.50		8	<u> </u>
25/3/2015	9:45	Fine	Middle	3.5	19.80	19.80	19.75	8.20	8.20	8.20	32.65	32.65	32.65	68.5	69.4	68.4	5.16	5.23	5.16	5.30	5.29	5.21	5	6.00
	9:47		Middle	3.5	19.70	19.70		8.20	8.20	<u> </u>	32.65	32.65	<u> </u>	68.2	67.6		5.14	5.09		5.12	5.11	<u> </u>	7	<u> </u>
27/3/2015	9:35	Cloudy	Middle	3.5	20.10	20.10	20.15	8.14	8.14	8.15	32.49	32.49	32.50	68.4	68.1	68.4	5.12	5.10	5.12	3.64	3.64	3.61	6	5.50
	9:37		Middle	3.5	20.20	20.20		8.16	8.16		32.50	32.50		68.2	68.7		5.10	5.14		3.59	3.56		5	<u> </u>



#### Water Monitoring Result at C1 - HKCEC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid	ity	Suspend	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ılue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	22:17	Cloudy	Middle	2.5	19.10	19.10	19.10	7.88	7.88	7.88	32.63	32.63	32.64	80.7	81.4	81.3	6.15	6.20	6.19	3.93	4.18	4.12	6	6.00
26/2/2015	22:18	Cloudy	Middle	2.5	19.10	19.10	19.10	7.88	7.88	7.00	32.64	32.64	32.04	81.6	81.3	01.3	6.21	6.20	0.19	4.23	4.12	4.12	6	6.00
2/3/2015	0:44	Cloudy	Middle	2.0	19.90	19.90	19.90	7.94	7.94	7.95	25.38	25.38	25.39	90.2	90.8	89.7	6.95	7.00	6.91	3.52	3.16	3.25	4	4.00
2/0/2010	0:45	Cloudy	Middle	2.0	19.90	19.90	10.00	7.95	7.95	7.00	25.39	25.39	20.00	89.1	88.6	00.7	6.87	6.83	0.01	3.10	3.23	0.20	4	4.00
5/3/2015	11:33	Cloudy	Middle	3.0	17.90	17.90	17.90	8.29	8.29	8.29	32.46	32.46	32.46	79.1	77.7	77.3	6.18	6.07	6.04	3.62	3.56	3.59	<2	2.00
	11:35	,	Middle	3.0	17.90	17.90		8.29	8.29		32.46	32.46		76.7	75.5		5.99	5.90		3.57	3.60		2	
7/3/2015	11:50	Cloudy	Middle	3.0	18.40	18.40	18.40	8.26	8.26	8.26	32.63	32.63	32.63	84.7	84.7	84.5	6.55	6.55	6.53	5.29	5.13	5.14	5	4.50
	11:52	,	Middle	3.0	18.40	18.40		8.26	8.26		32.63	32.63		84.3	84.1		6.52	6.50		5.08	5.06		4	
9/3/2015	14:45	Fine	Middle	3.0	20.50	20.50	20.60	8.16	8.16	8.16	32.61	32.61	32.55	82.2	82.2	82.2	6.09	6.09	6.09	5.10	5.07	5.08	7	7.00
	14:47		Middle	3.0	20.70	20.70		8.16	8.16		32.49	32.49		82.2	82.1		6.09	6.08		5.07	5.08		7	
11/3/2015	15:00	Cloudy	Middle	2.5	19.10	19.10	19.10	8.24	8.24	8.24	32.70	32.70	32.70	82.4	82.8	82.5	6.40	6.43	6.41	5.38	5.38	5.36	4	5.00
	15:02		Middle	2.5	19.10	19.10		8.24	8.24		32.70	32.70		82.6	82.2		6.41	6.39		5.34	5.34		6	
13/3/2015	15:37	Cloudy	Middle	2.5	18.10	18.10	18.10	8.21	8.21	8.21	32.59	32.59	32.59	81.9	81.9	82.0	6.37	6.37	6.38	5.25	5.12	5.14	3	3.50
	15:39	,	Middle	2.5	18.10	18.10		8.21	8.21		32.59	32.59		81.9	82.1		6.37	6.39		5.11	5.08		4	
16/3/2015	21:58	Cloudy	Middle	2.0	20.10	20.10	20.15	7.96	7.96	7.96	32.77	32.77	32.78	80.4	81.1	80.8	6.00	6.06	6.03	5.44	5.48	5.46	5	5.00
	21:59	•	Middle	2.0	20.20	20.20		7.96	7.96		32.78	32.78		80.7	80.8		6.02	6.03		5.50	5.40		5	
18/3/2015	11:05	Cloudy	Middle	2.5	19.90	19.90	19.95	7.79	7.79	7.87	32.01	32.01	32.02	69.3	70.8	69.8	5.22	5.33	5.25	4.99	4.82	4.85	4	3.50
	11:07		Middle	2.5	20.00	20.00		7.94	7.94		32.02	32.02		70.2	68.8		5.28	5.18		4.81	4.78		3	
20/3/2015	13:54	Fine	Middle	0.6	21.00	21.00	21.05	8.08	8.08	8.09	31.90	31.90	31.90	75.2	75.5	74.8	5.56	5.57	5.52	6.55	6.29	6.36	6	6.00
	13:56		Middle	2.0	21.10	21.10		8.09	8.09		31.89	31.89		74.8	73.5		5.52	5.42		6.29	6.29		6	
23/3/2015	15:00	Cloudy	Middle	2.5	20.60	20.60	20.65	8.14	8.14	8.15	32.35	32.35	32.35	74.9	75.5	74.9	5.56	5.60	5.56	4.30	4.23	4.19	5	5.50
	15:02		Middle	2.5	20.70	20.70		8.15	8.15		32.35	32.35		74.5	74.5		5.54	5.53		4.16	4.05		6	
25/3/2015	15:50	Cloudy	Middle	3.0	19.70	19.70	19.70	8.26	8.26	8.26	32.90	32.90	32.90	71.0	70.5	71.1	5.35	5.31	5.36	3.74	3.64	3.65	5	4.00
	15:52		Middle	3.0	19.70	19.70		8.26	8.26		32.90	32.90		71.3	71.6		5.37	5.39		3.64	3.56		3	<u> </u>
27/3/2015	17:10	Fine	Middle	2.5	21.00	21.00	21.15	8.16	8.16	8.16	32.63	32.63	32.63	74.3	74.3	73.8	5.46	5.45	5.41	1.61	1.56	1.59	6	5.00
	17:12		Middle	2.5	21.30	21.30		8.16	8.16		32.63	32.63		73.7	72.8		5.40	5.33		1.59	1.61		4	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	С	OO Satur	ation		DO ma/L			Turbid NTU	ity	Suspend	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	21:39	Cloudy	Middle	2.5	18.90	18.90	18.90	7.95	7.95	7.96	32.76	32.76	32.76	81.1	81.5	81.8	6.20	6.23	6.25	3.28	3.38	3.23	10	11.00
20/2/2013	21:40	Cloudy	Middle	2.5	18.90	18.90	16.90	7.96	7.96	7.90	32.76	32.76	32.76	82.2	82.3	01.0	6.28	6.29	0.25	3.16	3.09	3.23	12	11.00
2/3/2015	0:12	Cloudy	Middle	2.0	19.20	19.20	19.20	8.06	8.06	8.07	26.23	26.23	26.26	89.6	87.0	86.5	7.03	6.83	6.78	2.10	2.50	2.23	<2	2.00
2/0/2010	0:13	Oloudy	Middle	2.0	19.20	19.20	10.20	8.07	8.07	0.01	26.29	26.29	20.20	84.9	84.3	00.0	6.66	6.61	0.70	2.17	2.14	2.20	2	2.00
5/3/2015	11:47	Cloudy	Middle	3.0	17.80	17.80	17.80	8.31	8.31	8.31	32.53	32.53	32.54	79.7	79.9	79.7	6.25	6.28	6.26	5.57	5.55	5.58	3	3.50
	11:49	,	Middle	3.0	17.80	17.80		8.31	8.31		32.55	32.55		80.0	79.2		6.27	6.22		5.59	5.61		4	
7/3/2015	11:30	Cloudy	Middle	3.0	18.00	18.00	18.00	8.27	8.27	8.28	32.63	32.63	32.63	83.4	84.1	84.0	6.49	6.55	6.54	6.48	6.45	6.45	6	5.50
	11:32		Middle	3.0	18.00	18.00		8.28	8.28		32.63	32.63		84.5	84.0		6.57	6.54		6.43	6.43		5	
9/3/2015	14:24	Fine	Middle	3.0	19.60	19.60	19.65	8.18	8.18	8.18	32.52	32.52	32.52	81.9	81.4	81.2	6.19	6.16	6.13	5.38	5.54	5.53	6	6.00
	14:26		Middle	3.0	19.70	19.70		8.18	8.18		32.52	32.52		80.9	80.4		6.11	6.07		5.59	5.60		6	
11/3/2015	14:41	Cloudy	Middle	2.5	17.70	17.70	17.70	8.29	8.29	8.29	32.76	32.76	32.76	88.1	88.4	88.4	6.89	6.91	6.92	6.90	6.89	6.89	7	6.00
	14:43		Middle	2.5	17.70	17.70		8.29	8.29		32.76	32.76	1	88.5	88.7		6.93	6.94		6.89	6.89		5	
13/3/2015	15:15	Cloudy	Middle	2.5	18.00	18.00	18.05	8.22	8.22	8.22	32.66	32.66	32.65	83.7	83.3	83.2	6.51	6.47	6.46	6.95	6.82	6.83	7	6.00
	15:17		Middle	2.5	18.10	18.10		8.22	8.22		32.64	32.64		83.2	82.7		6.46	6.40		6.82	6.71		5	
16/3/2015	21:25	Cloudy	Middle	2.0	20.30	20.30	20.35	7.92	7.92	7.93	32.59	32.59	32.50	75.6	75.8	75.9	5.67	5.68	5.67	4.53	4.61	4.54	5	6.00
	21:26		Middle	2.0	20.40	20.40		7.93	7.93		32.40	32.40		75.4	76.9		5.61	5.72		4.55	4.47		7	<u> </u>
18/3/2015	11:30	Cloudy	Middle	2.5	19.30	19.30	19.30	8.07	8.07	8.08	32.22	32.22	32.20	85.2	83.5	83.2	6.50	6.37	6.34	3.05	3.06	3.02	6	5.50
	11:32		Middle Middle	2.5	19.30	19.30		8.09	8.09		32.18	32.18		82.1	81.8		6.26	6.24		3.02	2.94		5	
20/3/2015	13:31	Fine	Middle	2.0	22.30	22.30	22.30	8.07	8.07	8.07	31.91	31.91	31.91	83.7	83.0	83.6	6.04	5.99 6.04	6.03	7.08	7.07	7.04	7	7.50
	14:35		Middle	2.0	21.50	21.50		8.14	8.14		32.32	32.32		79.2	77.5		5.77	5.64		3.37	3.45		4	
23/3/2015	14:37	Cloudy	Middle	2.5	21.80	21.80	21.65	8.15	8.15	8.15	32.31	32.31	32.32	76.5	76.0	77.3	5.57	5.53	5.63	3.45	3.45	3.43	6	5.00
	15:30		Middle	3.0	19.70	19.70		8.24	8.24		32.79	32.79	<u> </u>	74.0	75.1		5.58	5.66		2.63	2.79		7	<del></del>
25/3/2015	15:32	Cloudy	Middle	3.0	19.70	19.70	19.70	8.24	8.24	8.24	32.79	32.79	32.79	74.1	74.2	74.4	5.59	5.59	5.61	2.51	2.61	2.64	7	7.00
	16:45		Middle	2.5	20.90	20.90		8.18	8.18		32.53	32.53		73.5	74.1		5.32	5.46		1.60	1.65		2	
27/3/2015	16:47	Fine	Middle	2.5	21.00	21.00	20.95	8.18	8.18	8.18	32.53	32.53	32.53	74.5	74.6	74.2	5.50	5.50	5.45	1.64	1.64	1.63	<2	2.00



#### Water Monitoring Result at P3 - APA Mid-Ebb Tide

Date	Time	Weater Condition	·	g Depth	Wat	er Temp °C	erature		pH -			Salini	у	D	O Satur	ation		DO ma/L			Turbid		Suspend	led Solids
		Condition	r	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	, .	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	21:47	Cloudy	Middle	2.5	18.90	18.90	18.90	7.98	7.99	7.99	32.76	32.76	32.77	81.6	82.4	82.4	6.24	6.30	6.30	3.73	3.63	3.71	4	4.00
20/2/2013	21:48	Cloudy	Middle	2.5	18.90	18.90	10.30	7.99	7.99	7.55	32.78	32.78	32.77	82.8	82.7	02.4	6.32	6.32	0.50	3.72	3.77	5.71	4	4.00
2/3/2015	0:20	Cloudy	Middle	2.0	19.40	19.40	19.40	8.05	8.05	8.05	26.47	26.47	26.47	85.4	85.9	85.7	6.62	6.64	6.63	3.23	3.12	3.09	2	2.50
	0:21	,	Middle	2.0	19.40	19.40		8.05	8.05		26.47	26.47		86.1	85.5		6.64	6.60		3.05	2.95		3	
5/3/2015	11:43	Cloudy	Middle	3.0	17.70	17.70	17.70	8.31	8.31	8.31	32.52	32.52	32.52	78.1	78.2	77.8	6.12	6.13	6.10	5.87	5.65	5.62	3	3.00
	11:45	,	Middle	3.0	17.70	17.70		8.31	8.31		32.52	32.52		77.8	77.2		6.09	6.05		5.48	5.48		3	
7/3/2015	11:35	Cloudy	Middle	3.0	18.10	18.10	18.10	8.27	8.27	8.27	32.69	32.69	32.65	81.9	81.9	81.8	6.39	6.39	6.37	6.13	6.28	6.26	7	6.50
	11:37		Middle	3.0	18.10	18.10		8.27	8.27		32.60	32.60		81.6	81.6		6.35	6.35		6.35	6.29		6	<u> </u>
9/3/2015	14:30	Fine	Middle	3.0	19.70	19.70	19.75	8.17	8.17	8.18	32.53	32.53	32.53	83.3	83.2	83.3	6.28	6.28	6.28	5.01	5.00	4.89	5	5.00
	14:32		Middle	3.0	19.80	19.80		8.18	8.18		32.52	32.52		83.4	83.3		6.29	6.28		4.81	4.75		5	
11/3/2015	14:45	Cloudy	Middle	2.5	17.70	17.70	17.70	8.28	8.28	8.28	32.77	32.77	32.77	83.9	84.3	84.1	6.57	6.59	6.58	7.62	7.52	7.50	6	6.00
	14:47		Middle	2.5	17.70	17.70		8.28	8.28		32.77	32.77		84.1	84.2		6.58	6.59		7.47	7.40		-	
13/3/2015	15:31	Cloudy	Middle	2.5	17.80	17.80	17.80	8.22	8.22	8.22	32.62	32.62	32.62	81.8	81.8	81.7	6.39	6.39	6.38	6.14	6.00	6.04	5	5.00
	15:33		Middle Middle	2.5	17.80	17.80 20.40		7.92	7.92		32.62	32.62		81.5 71.7	81.5 72.0		6.37	6.37		6.00 4.87	6.00		5	
16/3/2015	21:33	Cloudy	Middle	2.0	20.40	20.40	20.40	7.92	7.92	7.92	32.27	32.27	32.29	73.3	73.8	72.7	5.37	5.40	5.45	4.74	4.57	4.75	4	5.00
	11:25		Middle	2.5	19.40	19.40		8.04	8.04		32.19	32.19		76.0	73.2		5.79	5.58		3.63	3.68		7	
18/3/2015	11:27	Cloudy	Middle	2.5	19.30	19.30	19.35	8.08	8.08	8.06	32.18	32.18	32.19	72.6	72.1	73.5	5.53	5.50	5.60	3.70	3.72	3.68	6	6.50
	13:37		Middle	2.0	21.20	21.20		8.07	8.07		31.90	31.90		83.7	84.4		6.04	6.20		5.07	5.06		5	
20/3/2015	13:39	Fine	Middle	2.0	21.40	21.40	21.30	8.08	8.08	8.08	31.89	31.89	31.90	84.6	84.4	84.3	6.22	6.21	6.17	5.21	5.21	5.14	5	5.00
	14:41		Middle	2.5	20.70	20.70		8.15	8.15		32.42	32.42		74.6	73.4		5.42	5.35		4.54	4.36		5	
23/3/2015	14:43	Cloudy	Middle	2.5	20.90	20.90	20.80	8.15	8.15	8.15	32.42	32.42	32.42	74.0	73.5	73.9	5.39	5.36	5.38	4.32	4.30	4.38	6	5.50
25/3/2015	15:35	Cloudy	Middle	3.0	19.70	19.70	19.70	8.25	8.25	8.25	32.80	32.80	32.80	73.4	72.9	72.8	5.53	5.49	5.48	3.14	3.14	3.14	7	6.00
20/3/2010	15:37	Cloudy	Middle	3.0	19.70	19.70	19.70	8.25	8.25	0.20	32.80	32.80	32.00	72.0	72.7	12.0	5.43	5.48	J.40	3.14	3.15	3.14	5	0.00
27/3/2015	16:50	Fine	Middle	2.5	20.80	20.80	20.80	8.18	8.18	8.18	32.49	32.49	32.49	73.5	72.5	73.3	5.41	5.31	5.40	1.83	1.82	1.82	3	3.50
21/3/2013	16:52	1 1116	Middle	2.5	20.80	20.80	20.00	8.18	8.18	0.10	32.49	32.49	32.73	73.3	73.8	70.0	5.40	5.46	5.40	1.81	1.81	1.02	4	3.30



#### Water Monitoring Result at P4 - SOC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid	ity	Suspende	
		Condition	r	n	Va	lue	Average	Va	ılue	Average	Va	llue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	21:59	Claudu	Middle	2.5	19.00	19.00	19.05	8.01	8.01	0.04	32.78	32.78	32.78	83.1	82.8	83.0	6.34	6.31	6.32	3.27	3.25	2.40	4	5.00
28/2/2015	22:00	Cloudy	Middle	2.5	19.10	19.10	19.05	8.01	8.01	8.01	32.78	32.78	32.78	83.3	82.6	83.0	6.35	6.29	0.32	3.06	3.15	3.18	6	5.00
2/3/2015	0:28	Cloudy	Middle	2.0	20.60	20.60	20.55	8.02	8.02	8.02	26.30	26.30	26.32	87.0	88.0	87.6	6.59	6.68	6.64	2.59	2.61	2.60	2	2.50
2/3/2013	0:29	Cloudy	Middle	2.0	20.50	20.50	20.33	8.02	8.02	0.02	26.33	26.33	20.32	87.7	87.6	67.0	6.65	6.64	0.04	2.63	2.57	2.00	3	2.50
5/3/2015	11:39	Cloudy	Middle	3.0	17.70	17.70	17.70	8.31	8.31	8.31	32.58	32.58	32.58	77.7	77.2	76.8	6.09	6.05	6.02	4.57	4.56	4.62	3	2.50
0/0/2010	11:41	Ciouay	Middle	3.0	17.70	17.70		8.31	8.31	0.0 .	32.58	32.58	02.00	76.4	76.0	7 0.0	5.98	5.95	0.02	4.68	4.68		2	2.00
7/3/2015	11:40	Cloudy	Middle	3.0	18.20	18.20	18.15	8.26	8.26	8.26	32.59	32.59	32.60	83.4	84.2	83.8	6.48	6.54	6.51	5.25	5.22	5.16	4	3.50
	11:42		Middle	3.0	18.10	18.10		8.26	8.26	0.20	32.61	32.61		83.9	83.6		6.52	6.49		5.08	5.07		3	
9/3/2015	14:35	Fine	Middle	3.0	19.50	19.50	19.70	8.17	8.17	8.17	32.53	32.53	32.53	82.4	82.3	82.1	6.20	6.19	6.18	4.45	4.34	4.35	6	6.00
	14:37		Middle	3.0	19.90	19.90		8.17	8.17		32.52	32.52		82.1	81.7		6.17	6.14		4.30	4.31		6	
11/3/2015	14:49	Cloudy	Middle	2.5	17.90	17.90	17.90	8.26	8.26	8.26	32.72	32.72	32.72	89.3	88.6	89.2	6.97	6.91	6.95	6.48	6.49	6.57	5	5.00
	14:51	,	Middle	2.5	17.90	17.90		8.26	8.26		32.71	32.71		89.0	89.9		6.96	6.94		6.63	6.67		5	
13/3/2015	15:26	Cloudy	Middle	2.5	17.80	17.80	17.85	8.19	8.19	8.19	32.59	32.59	32.59	83.7	84.2	84.3	6.56	6.58	6.59	5.22	5.10	5.13	3	3.00
	15:28	,	Middle	2.5	17.90	17.90		8.19	8.19		32.59	32.59		84.6	84.5		6.61	6.60		5.08	5.10		3	
16/3/2015	21:42	Cloudy	Middle	2.0	20.20	20.20	20.20	7.93	7.93	7.94	32.62	32.62	32.71	82.8	83.2	83.0	6.17	6.20	6.19	4.76	4.70	4.66	8	8.00
	21:43		Middle	2.0	20.20	20.20		7.94	7.94		32.80	32.80		83.2	82.8		6.20	6.17		4.73	4.46		8	
18/3/2015	11:15	Cloudy	Middle	2.5	20.10	20.10	19.85	8.05	8.05	8.05	32.17	32.17	32.16	73.4	74.2	73.4	5.57	5.63	5.57	4.02	4.00	3.98	6	6.50
	11:17		Middle	2.5	19.60	19.60		8.05	8.05		32.14	32.14		73.3	72.8		5.56	5.52		3.96	3.94		7	
20/3/2015	13:43	Fine	Middle	2.0	21.20	21.20	21.35	8.09	8.09	8.09	32.00	32.00	32.00	73.0	72.8	72.1	5.36	5.34	5.29	5.94	5.96	5.91	6	7.00
	13:45		Middle	2.0	21.50	21.50		8.09	8.09		32.00	32.00		71.4	71.0		5.24	5.21		5.85	5.88		8	
23/3/2015	14:46	Cloudy	Middle	2.5	20.50	20.50	20.60	8.15	8.15	8.15	32.32	32.32	32.32	72.9	75.1	73.3	5.42	5.43	5.42	4.50	4.54	4.50	7	6.50
	14:47		Middle	2.5	20.70	20.70		8.15	8.15		32.32	32.32		72.5	72.6		5.40	5.41		4.55	4.40		6	
25/3/2015	15:40	Cloudy	Middle	3.0	19.60	19.60	19.60	8.25	8.25	8.25	32.85	32.85	32.85	71.6	71.4	71.2	5.40	5.39	5.38	4.08	4.02	4.03	5	5.50
	15:42		Middle	3.0	19.60	19.60		8.25	8.25		32.85	32.85		70.9	70.7		5.34	5.37		4.00	4.00		6	<u> </u>
27/3/2015	16:55	Fine	Middle	2.5	20.80	20.80	20.85	8.18	8.18	8.18	32.38	32.38	32.38	70.5	71.5	72.3	5.24	5.30	5.35	1.86	1.86	1.83	6	5.50
	16:57		Middle	2.5	20.90	20.90		8.18	8.18		32.38	32.38		73.3	73.9		5.41	5.46		1.81	1.80		5	



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH			Salini	ty	D	O Satur	ation		DO ma/L			Turbid		Suspend	led Solids
		Condition	r	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	, .	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	22:11	Cloudy	Middle	2.5	19.10	19.10	19.10	8.03	8.03	8.03	32.76	32.76	32.77	82.7	83.2	83.1	6.30	6.34	6.34	4.01	3.91	3.88	4	4.00
20/2/2013	22:12	Cloudy	Middle	2.5	19.10	19.10	13.10	8.03	8.03	0.03	32.78	32.78	32.11	83.5	83.1	03.1	6.37	6.34	0.54	3.84	3.75	5.00	4	4.00
2/3/2015	0:35	Cloudy	Middle	2.0	19.60	19.60	19.60	8.01	8.01	8.01	26.22	26.22	26.24	85.2	85.7	85.9	6.57	6.59	6.62	2.33	2.31	2.23	<2	<2
	0:36	,	Middle	2.0	19.60	19.60		8.01	8.01		26.26	26.26		86.3	86.5		6.64	6.66		2.19	2.09		<2	
5/3/2015	11:36	Cloudy	Middle	3.0	17.80	17.80	17.85	8.31	8.31	8.31	32.57	32.57	32.57	78.7	79.1	79.0	6.15	6.18	6.16	5.06	5.06	5.07	3	3.00
	11:38	,	Middle	3.0	17.90	17.90		8.31	8.31		32.57	32.57		79.4	78.9		6.20	6.10		5.06	5.09		3	
7/3/2015	11:45	Cloudy	Middle	3.0	18.40	18.40	18.40	8.27	8.27	8.27	32.63	32.63	32.63	84.0	83.9	83.7	6.49	6.49	6.47	4.54	4.55	4.64	6	5.50
	11:47		Middle	3.0	18.40	18.40		8.27	8.27		32.63	32.63		83.6	83.2		6.47	6.44		4.67	4.81		5	<u> </u>
9/3/2015	14:40	Fine	Middle	3.0	20.30	20.30	20.30	8.17	8.17	8.17	32.51	32.51	32.51	81.9	82.1	81.9	6.14	6.16	6.14	6.32	6.22	6.24	6	6.00
	14:42		Middle	3.0	20.30	20.30		8.17	8.17		32.51	32.51		81.4	82.1		6.09	6.15		6.21	6.19		6	
11/3/2015	14:55	Cloudy	Middle	2.5	18.00	18.00	18.00	8.26	8.26	8.26	32.72	32.72	32.72	85.2	85.7	85.5	6.63	6.67	6.65	6.40	6.40	6.37	7	6.50
	14:57		Middle	2.5	18.00	18.00		8.26	8.26		32.72	32.72		85.7	85.5		6.67	6.64		6.38	6.30		-	
13/3/2015	15:21	Cloudy	Middle	2.5	18.10	18.10	18.10	8.22	8.22	8.22	32.58	32.58	32.58	81.0	81.8	82.0	6.37	6.35	6.39	7.19	7.18	7.19	5	5.50
	15:23		Middle Middle	2.5	18.10	18.10		7.94	7.94		32.58	32.58		82.6 74.1	82.7 74.6		6.42	6.43		7.18 5.13	7.20		7	
16/3/2015	21:48	Cloudy	Middle	2.0	20.20	20.20	20.20	7.94	7.94	7.94	32.76	32.76	32.76	75.6	75.4	74.9	5.53	5.57	5.60	5.09	5.11	5.13	6	6.50
	11:11		Middle	2.5	19.30	19.30		8.02	8.02		32.20	32.20		69.2	67.4		5.27	5.11		3.59	3.63		4	
18/3/2015	11:13	Cloudy	Middle	2.5	19.60	19.60	19.45	8.06	8.06	8.04	32.05	32.04	32.12	67.5	67.6	67.9	5.12	5.14	5.16	3.63	3.55	3.60	4	4.00
	13:50		Middle	2.0	21.10	21.10		8.09	8.09		31.92	31.92		71.2	70.1		5.26	5.17		6.89	6.54		6	
20/3/2015	13:52	Fine	Middle	2.0	21.20	21.20	21.15	8.09	8.09	8.09	31.92	31.92	31.92	69.4	71.3	70.5	5.11	5.26	5.20	6.47	6.46	6.59	6	6.00
	14:53		Middle	2.5	20.50	20.50		8.15	8.15		32.31	32.31		70.1	70.3		5.22	5.23		4.27	4.27		6	
23/3/2015	14:55	Cloudy	Middle	2.5	20.60	20.60	20.55	8.15	8.15	8.15	32.30	32.30	32.31	71.0	70.6	70.5	5.28	5.27	5.25	4.29	4.29	4.28	6	6.00
25/2/2015	15:45	Cloudy	Middle	3.0	19.70	19.70	19.65	8.26	8.26	9.26	32.89	32.89	22.90	70.1	70.0	70.5	5.28	5.28	E 21	5.30	5.11	E 11	5	E E0
25/3/2015	15:47	Cloudy	Middle	3.0	19.60	19.60	19.00	8.26	8.26	8.26	32.89	32.89	32.89	71.1	70.8	70.5	5.35	5.32	5.31	5.00	5.03	5.11	6	5.50
27/3/2015	17:05	Fine	Middle	2.5	20.90	20.90	20.85	8.19	8.19	8.19	32.49	32.49	32.49	71.2	72.1	71.8	5.21	5.34	5.30	1.84	1.82	1.82	6	5.50
21/3/2013	17:07	1 1116	Middle	2.5	20.80	20.80	20.03	8.18	8.18	0.13	32.49	32.49	32.43	71.9	72.1	71.0	5.32	5.34	3.30	1.81	1.81	1.02	5	3.30



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

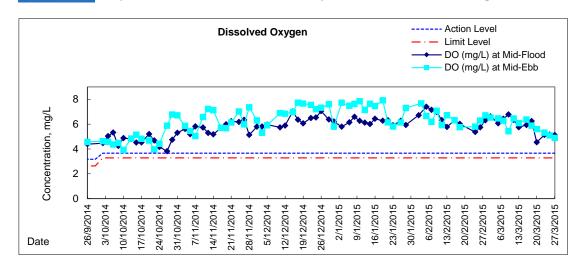
Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	у	D	O Satur	ation		DO ma/L			Turbid		Suspend	ed Solids
		Condition	r	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	, .	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	20:30	Cloudy	Middle	3.5	19.10	19.10	19.10	7.89	7.89	7.90	32.72	32.72	32.73	81.6	82.1	81.9	6.22	6.25	6.24	2.87	2.80	2.82	3	3.00
20/2/2010	20:31	Cidady	Middle	3.5	19.10	19.10		7.90	7.90	7.00	32.74	32.73	02.70	82.0	81.7	01.0	6.25	6.23	0.2 .	2.77	2.82	2.02	3	0.00
2/3/2015	1:47	Cloudy	Middle	3.0	18.40	18.40	18.45	7.87	7.87	7.87	30.05	30.05	30.06	77.5	77.5	77.8	6.06	6.06	6.08	2.19	2.16	2.15	4	4.00
	1:48	•	Middle	3.0	18.50	18.50		7.87	7.87		30.07	30.07		77.8	78.2		6.08	6.11		2.14	2.11		4	
5/3/2015	11:53	Cloudy	Middle	3.0	17.90	17.90	17.85	8.33	8.33	8.34	32.57	32.58	32.58	76.2	76.9	76.4	5.95	6.01	5.97	5.47	5.47	5.44	3	3.50
	11:55		Middle	3.0	17.80	17.80		8.35	8.35		32.58	32.58		76.6	76.0		5.98	5.94		5.44	5.38		4	
7/3/2015	14:40	Cloudy	Middle	3.0	18.50	18.50	18.55	8.26	8.26	8.26	32.65	32.65	32.64	78.3	77.0	77.5	6.03	5.94	5.97	4.94	4.88	4.81	4	5.00
	14:42		Middle	3.0	18.60	18.60		8.26	8.26		32.62	32.62		77.2	77.4		5.95	5.96		4.70	4.70		6	1
9/3/2015	15:05	Fine	Middle	3.5	19.40	19.40	19.50	8.19	8.19	8.19	32.53	32.53	32.57	82.4	82.3	82.1	6.25	6.23	6.22	4.95	4.88	4.90	6	6.50
	15:07		Middle	3.5	19.60	19.60		8.19	8.19		32.60	32.60		82.1	81.5		6.22	6.17		4.87	4.88		7	
11/3/2015	15:25	Cloudy	Middle	3.5	18.20	18.20	18.15	8.27	8.27	8.27	32.73	32.73	32.73	85.2	85.8	85.3	6.61	6.66	6.62	6.15	6.15	6.23		5.50
	15:27		Middle	3.5	18.10	18.10		8.27	8.27		32.73	32.73		85.4	84.8		6.63	6.59		6.27	6.35		5	<u> </u>
13/3/2015	15:45 15:47	Cloudy	Middle Middle	3.5	18.30	18.30	18.30	8.23	8.23 8.23	8.23	32.67	32.67 32.67	32.67	80.9	80.6	80.6	6.27	6.24	6.25	5.61	5.73	5.68	4	5.00
	20:15		Middle	2.5	18.30	19.30		7.63	7.63		32.94	32.79		74.4	76.4		5.53	5.79		4.75	4.55		6	
16/3/2015	20:16	Cloudy	Middle	2.5	19.40	19.40	19.35	7.63	7.63	7.63	32.75	32.75	32.81	78.0	76.0	76.2	5.82	5.73	5.72	4.35	4.39	4.51	8	7.00
	9:05		Middle	3.5	19.90	19.90		8.05	8.05		32.36	32.36		79.6	80.5		5.99	6.05		7.14	7.34		10	
18/3/2015	9:07	Cloudy	Middle	3.5	19.90	19.90	19.90	8.06	8.06	8.06	32.36	32.36	32.36	80.1	80.3	80.1	6.02	6.03	6.02	7.42	7.38	7.32	10	10.00
	14:10		Middle	3.0	20.80	20.80		8.09	8.09		32.10	32.10		69.7	70.5		5.16	5.21		5.21	5.22		5	
20/3/2015	14:12	Fine	Middle	3.0	21.00	21.00	20.90	8.09	8.09	8.09	32.09	32.09	32.10	70.7	70.6	70.4	5.23	5.21	5.20	5.22	5.12	5.19	7	6.00
	15:15		Middle	3.5	20.70	20.70		8.18	8.18		32.58	32.58		71.4	71.9		5.28	5.31		5.38	5.25		8	
23/3/2015	15:17	Cloudy	Middle	3.5	20.90	20.90	20.80	8.18	8.18	8.18	32.58	32.58	32.58	71.5	72.0	71.7	5.25	5.32	5.29	5.27	5.23	5.28	8	8.00
25/3/2015	16:10	Cloudy	Middle	3.5	19.80	19.80	19.80	8.27	8.27	8.27	32.92	32.92	32.92	73.8	73.1	73.6	5.56	5.50	5.54	6.01	5.99	5.96	6	6.00
20/3/2010	16:12	Cloudy	Middle	3.5	19.80	19.80	19.00	8.27	8.27	0.21	32.92	32.92	32.32	73.8	73.5	73.0	5.55	5.53	J.J4	5.93	5.91	J.90	6	6.00
27/3/2015	17:20	Fine	Middle	3.5	20.40	20.40	20.50	8.18	8.18	8.19	32.79	32.79	32.77	62.7	62.2	62.7	4.65	4.62	4.66	3.60	3.62	3.62	9	9.00
21/3/2013	17:22	1 1116	Middle	3.5	20.60	20.60	20.50	8.19	8.19	0.13	32.75	32.75	JZ.11	63.2	62.8	02.7	4.69	4.66	7.00	3.63	3.63	J.U2	9	3.00

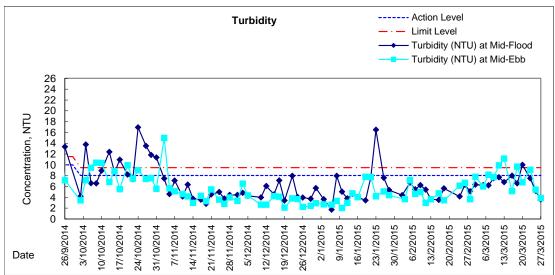


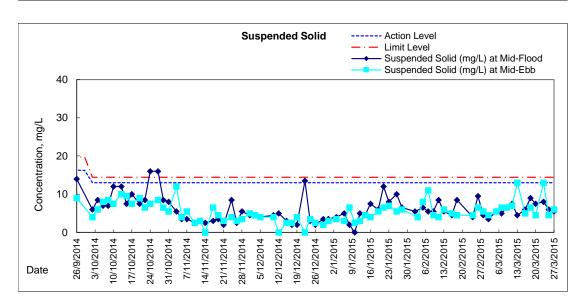
# Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	С	O Satur	ation		DO ma/L			Turbid		Suspend	led Solids
		00114111011	r	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	, .	Average	Va		Average	Va	lue	Average	Value	Average
28/2/2015	19:30	Cloudy	Middle	3.0	19.60	19.60	19.60	7.51	7.51	7.53	32.43	32.43	32.46	89.4	89.5	88.9	6.76	6.76	6.71	3.57	3.55	3.64	5	5.50
20/2/2010	19:31	Cloudy	Middle	3.0	19.60	19.60	10.00	7.54	7.54	7.00	32.49	32.48	02.40	88.5	88.0	00.0	6.68	6.64	0.7 1	3.62	3.80	0.04	6	0.00
2/3/2015	22:25	Cloudy	Middle	2.5	18.70	18.70	18.70	7.92	7.92	7.92	27.67	27.62	27.65	84.8	85.1	85.7	6.46	6.49	6.53	7.85	7.88	7.78	5	4.50
	22:26	,	Middle	2.5	18.70	18.70		7.92	7.92		27.69	27.61		86.4	86.5		6.57	6.58		7.74	7.65		4	
5/3/2015	10:30	Cloudy	Middle	3.0	17.80	17.80	17.75	8.25	8.25	8.26	32.70	32.70	32.71	82.9	83.9	82.6	6.48	6.56	6.46	6.01	6.00	6.00	6	5.50
	10:32		Middle	3.0	17.70	17.70		8.26	8.26		32.71	32.71		83.4	80.2		6.54	6.27		6.00	6.00		5	
7/3/2015	11:00	Cloudy	Middle	3.5	18.30	18.30	18.30	8.24	8.24	8.24	32.65	32.65	32.65	81.0	81.1	81.2	6.27	6.28	6.28	8.22	8.16	<u>8.17</u>	6	6.50
	11:02		Middle	3.5	18.30	18.30		8.24	8.24		32.65	32.65		81.4	81.1		6.30	6.28		8.15	8.15		7	
9/3/2015	13:53	Fine	Middle	3.5	20.90	20.90	21.15	8.10	8.10	8.10	32.42	32.42	32.40	76.1	74.3	73.9	5.59	5.46	5.43	7.60	7.70	7.72	7	6.50
	13:55		Middle	3.5	21.40	21.40		8.10	8.10		32.38	32.38		73.1	71.9		5.37	5.28		7.73	7.83		6	
11/3/2015	14:10	Cloudy	Middle	3.0	18.60	18.60	18.60	8.23	8.23	8.24	32.67	32.67	32.68	83.3	82.5	83.4	6.44	6.38	6.45	9.94	9.95	<u>9.89</u>	6	7.00
	14:12		Middle	3.0	18.60	18.60		8.24	8.24		32.68	32.68		83.9	84.0		6.49	6.50		9.94	9.72		8	<u> </u>
13/3/2015	14:32	Cloudy	Middle	3.5	18.40	18.40	18.45	8.17	8.17	8.17	32.53	32.53	32.54	79.2	79.7	78.8	6.12	6.15	6.08	11.14	11.15	<u>11.15</u>	14	13.00
	14:34		Middle Middle	3.5	18.50	18.50		7.59	7.59		32.54	32.54		79.0	77.1 86.7		6.10	5.95		11.15	11.15		12	
16/3/2015	18:46	Cloudy	Middle	3.0	20.30	20.40	20.35	7.60	7.60	7.60	32.59	32.59	32.57	86.3	85.0	86.0	6.41	6.43	6.37	5.29	5.02	5.13	6	5.00
	11:00		Middle	3.5	20.40	20.60		8.08	8.08		32.25	32.25		78.3	79.8		5.81	5.92		9.86	9.66		7	
18/3/2015	11:02	Cloudy	Middle	3.5	20.80	20.80	20.70	8.08	8.08	8.08	32.24	32.24	32.25	78.7	79.9	79.2	5.83	5.92	5.87	9.58	9.54	<u>9.66</u>	6	6.50
	10:20		Middle	3.5	21.50	21.50		8.09	8.09		32.19	32.19		77.1	77.5		5.60	5.63		6.83	6.78		5	
20/3/2015	10:22	Fine	Middle	3.5	21.90	21.90	21.70	8.09	8.09	8.09	32.19	32.19	32.19	77.1	76.0	76.9	5.60	5.52	5.59	6.74	6.71	6.77	4	4.50
	13:55		Middle	3.5	21.20	21.20		8.14	8.14		32.36	32.36		72.5	72.3		5.29	5.29		9.03	9.04		13	
23/3/2015	13:57	Cloudy	Middle	3.5	21.70	21.70	21.45	8.14	8.14	8.14	32.32	32.32	32.34	72.2	72.9	72.5	5.31	5.36	5.31	9.11	9.12	9.08	13	13.00
25/3/2015	14:58	Cloudy	Middle	3.5	19.90	19.90	19.90	8.18	8.18	8.18	32.74	32.74	32.75	67.0	68.8	67.8	5.03	5.17	5.09	5.37	5.40	5.42	4	4.50
23/3/2013	15;00	Cioudy	Middle	3.5	19.90	19.90	19.90	8.18	8.18	0.18	32.75	32.75	32.75	67.3	67.9	07.8	5.05	5.10	5.09	5.45	5.46	J.4Z	5	4.00
27/3/2015	16:00	Fine	Middle	3.5	21.00	21.00	21.20	8.15	8.15	8.15	32.55	32.55	32.54	66.9	67.4	66.5	4.92	4.94	4.89	3.87	3.87	3.85	6	6.00
21/3/2013	16:02	1 1116	Middle	3.5	21.40	21.40	21.20	8.15	8.15	0.13	32.53	32.53	32.34	66.6	65.2	00.5	4.90	4.79	4.03	3.86	3.80	3.03	6	0.00

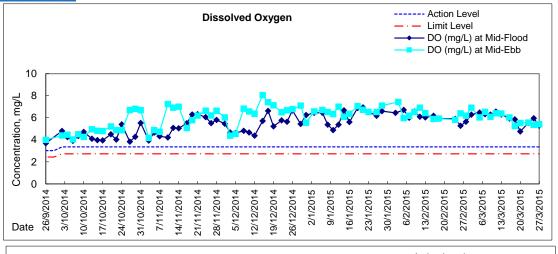
#### Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

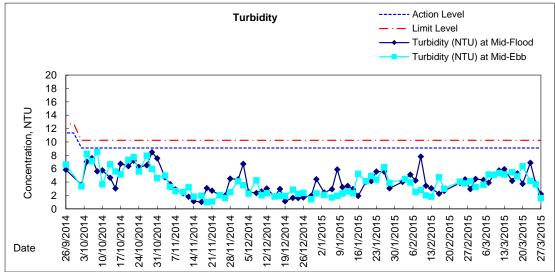


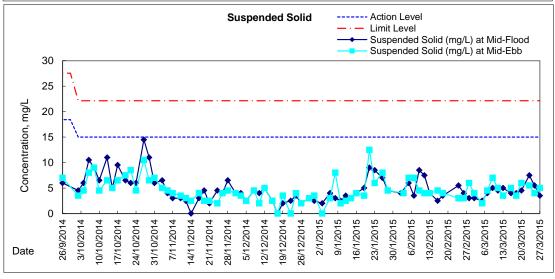




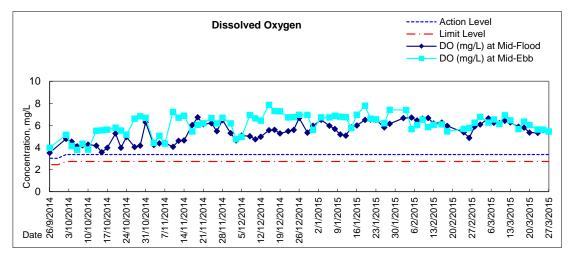
#### Graphic Presentation of Water Quality Result of C1 - HKCEC

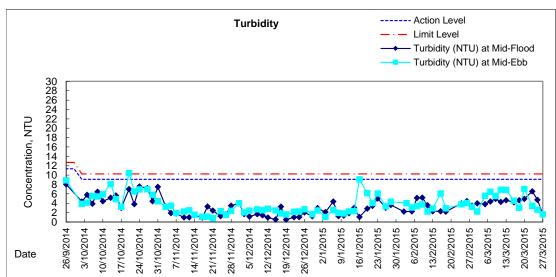


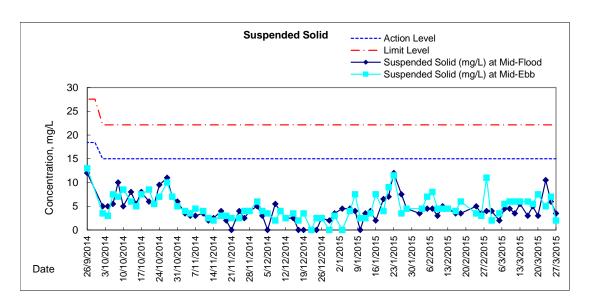




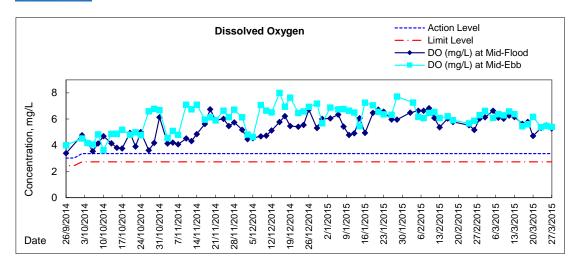
#### Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

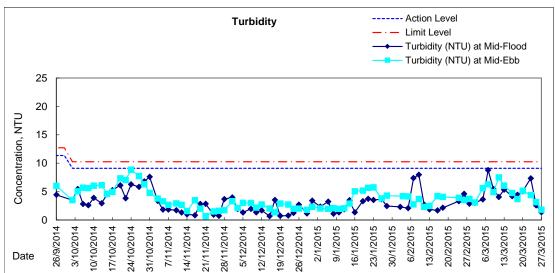


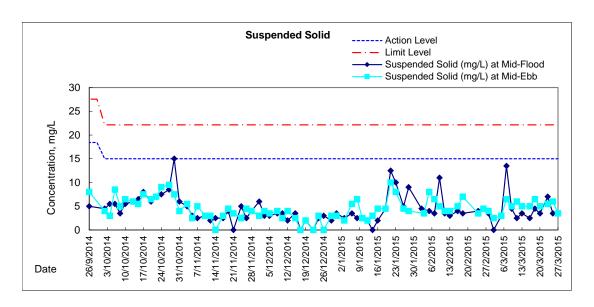




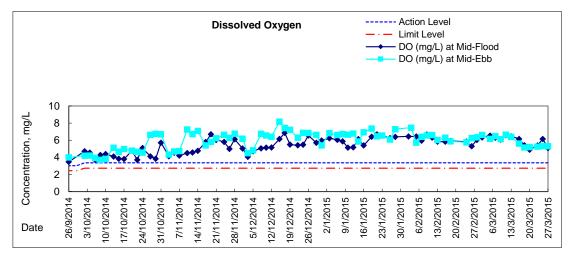


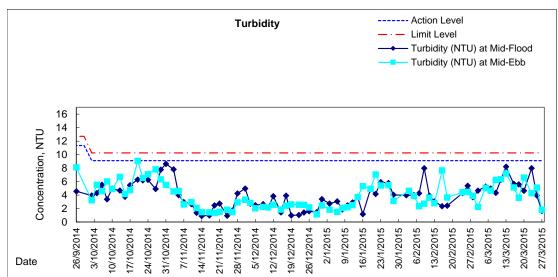


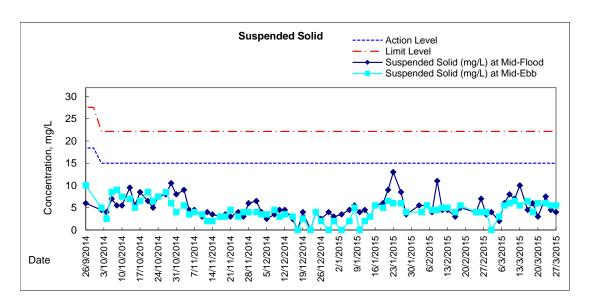




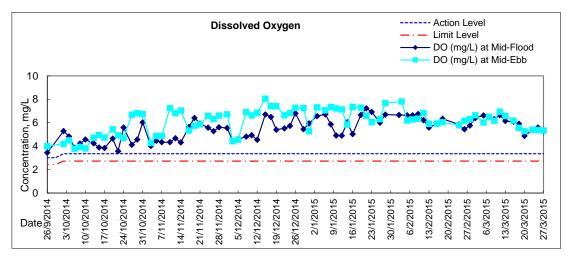
#### Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

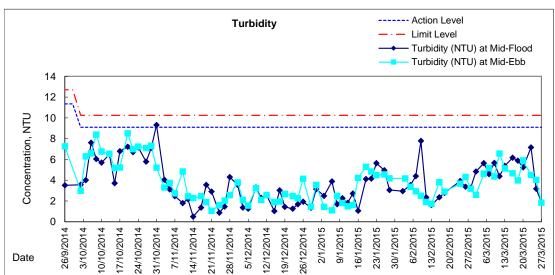


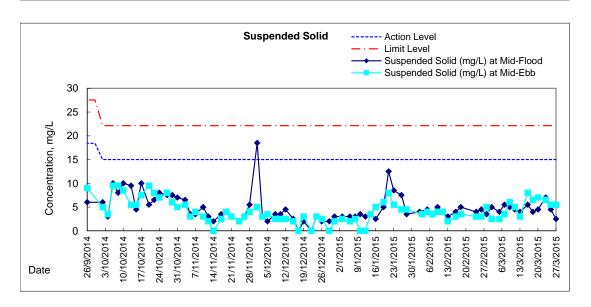




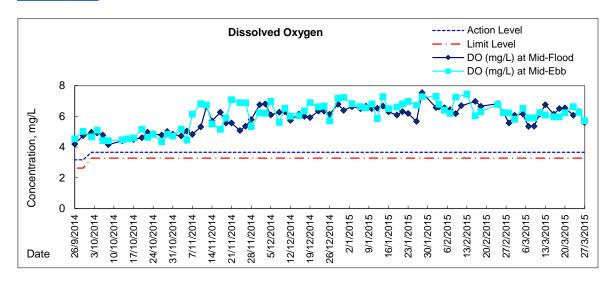
#### Graphic Presentation of Water Quality Result of P4 - SOC

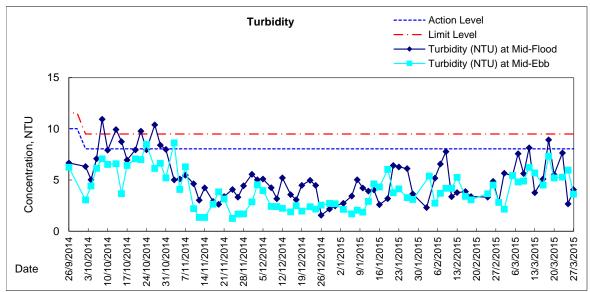


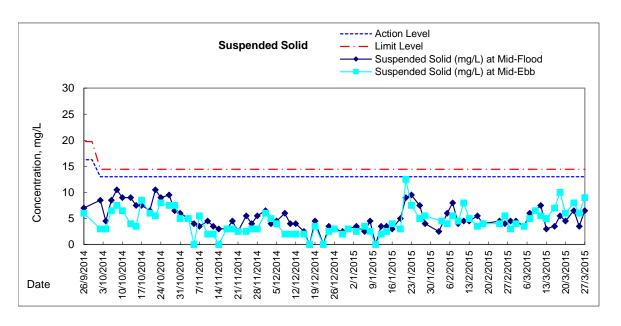




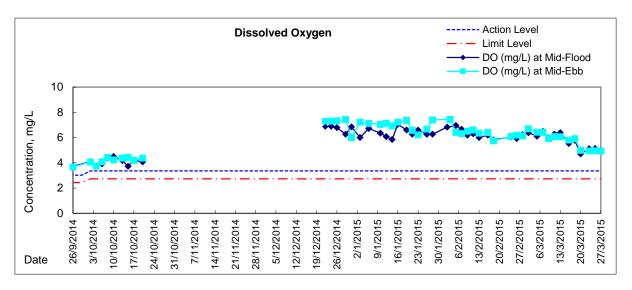
#### Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

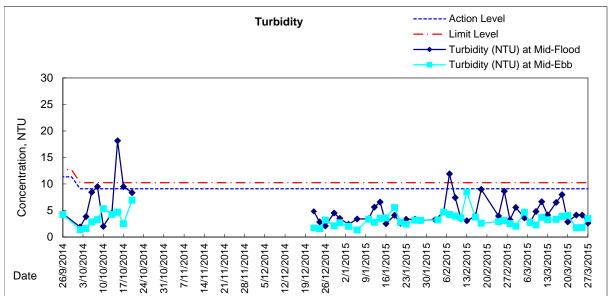


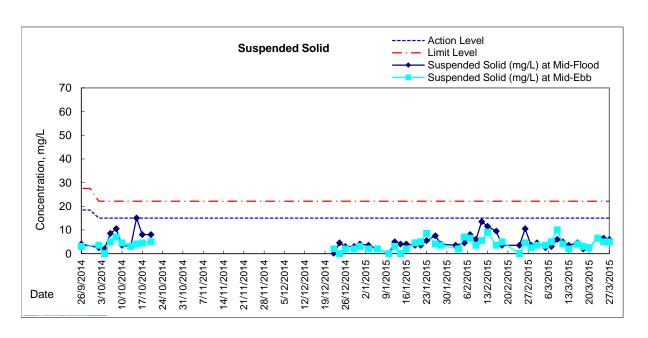




### Graphic Presentation of Water Quality Result of C7 - Windsor House









# Water Monitoring Result at C6 - Excelsior Hotel Mid-Flood Tide

Data	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO	
Date		Condition	r	n	Va	°C ilue	Average	Va	- llue	Average	Va	ppt llue	Average	Va	% lue	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/2/2015	11:15	Cloudy	Middle	1.5	18.40	18.40	18.4	8.29	8.29	8.3	31.68	31.68	31.7	82.8	82.3	82.6	6.43	6.39	6.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/3/2015	15:00	Cloudy	Middle	1.5	18.30	18.30	18.3	8.28	8.28	8.3	31.72	31.72	31.7	81.4	80.5	81.0	6.34	6.27	6.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E/2/204E	-	Clavid	Surface	-	-	-	-			-	-	-	-	70.4	70.0	- 70.4	-	- 0.40	-
5/3/2015	18:35	Cloudy	Middle Bottom	1.5	18.30	18.30	18.3	8.46	8.46	8.5	32.12	32.12	32.1	79.4	78.8	79.1	6.18	6.13	6.16
	-		Surface	-	_	-			-	_		_	-	-	-			_	-
7/3/2015	19:04	Cloudy	Middle	1.5	18.30	18.30	18.3	7.94	7.94	7.9	31.99	32.03	32.0	82.9	84.2	83.6	6.42	6.52	6.47
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/3/2015	7:45	Fine	Middle	1.5	18.50	18.50	18.5	8.34	8.34	8.3	32.08	32.08	32.1	81.7	81.0	81.4	6.32	6.27	6.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
11/3/2015	10:00	Cloudy	Middle	1.5	18.40	18.40	18.4	8.29	8.29	8.3	32.18	32.18	32.2	80.2	80.7	80.5	6.22	6.26	6.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/3/2015	7:35	Cloudy	Middle	1.5	17.90	17.90	17.9	8.20	8.20	8.2	32.71	32.71	32.7	80.5	80.6	80.6	6.29	6.30	6.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/3/2015	- 44.40	Cloudy	Surface	-	-	-		- 0.40	- 0.40	-	- 04.70	- 04.70	- 04.7	70.5	70.0	- 70.0		-	-
16/3/2013	14:40	Cloudy	Middle Bottom	1.5	20.40	20.40	20.4	8.13	8.13	8.1	31.73	31.73	31.7	73.5	72.2	72.9	5.49	5.39	5.44
	_		Surface	<u>-</u>	_	_	<u>-</u>	_	_	_	_	_	_	-	_	<u>-</u>	_	_	_
18/3/2015	16:35	Cloudy	Middle	1.5	20.60	20.60	20.6	8.11	8.11	8.1	31.29	31.29	31.3	76.0	75.6	75.8	5.67	5.64	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	•	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/3/2015	17:34	Fine	Middle	1.5	21.30	21.30	21.3	8.15	8.15	8.2	30.80	30.80	30.8	63.6	63.1	63.4	4.20	4.16	4.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/3/2015	7:40	Fine	Middle	1.5	19.70	19.70	19.7	8.15	8.15	8.2	31.82	31.82	31.8	67.1	67.4	67.3	5.09	5.11	5.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	_	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/3/2015	7:55	Fine	Middle	1.5	19.90	19.90	19.9	8.21	8.21	8.2	31.26	31.26	31.3	67.3	67.9	67.6	5.11	5.16	5.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/3/2015	11:07	Cloudy	Surface Middle	1.5	20.40	20.40	20.4	8.19	8.19	8.2	31.73	31.73	31.7	70.0	70.0	70.0	5.23	5.24	5.24
21/3/2013	-	Cioudy		1.5	20.40	20.40	20.4	8.19	8.19	8.2	-	31.73	- 31.7	70.0	70.0	70.0	5.23	5.24	5.24
			Bottom	_	_	_		_	_		-	_		-	-		_		



# Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Flood Tide

		<u> </u>			1														
Date	Time	Weater Condition		g Depth	Wat	er Temp °C	perature		pH -			Salinit ppt	ty	D	O Satur %	ation		DO mg/L	
		55311071	n	n I	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	ilue	Average
	11:40		Surface	1.0	18.20	18.20	18.2	8.23	8.23	8.2	31.56	31.56	31.6	76.5	76.2	76.4	5.95	5.94	5.95
28/2/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:42		Bottom	4.0	18.10	18.10	18.1	8.26	8.26	8.3	31.97	31.97	32.0	78.7	78.3	78.5	6.14	6.11	6.13
	15:30		Surface	1.0	18.80	18.80	18.8	8.20	8.20	8.2	29.70	29.71	29.7	69.7	70.3	70.0	5.44	5.49	5.47
2/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:32		Bottom	4.0	18.30	18.30	18.3	8.32	8.32	8.3	31.46	31.46	31.5	76.1	76.0	76.1	5.92	5.92	5.92
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		<u> </u>	



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

Date	Time	Weater Condition		ng Depth n		°C	erature		pH -			Salini ppt			O Satur %			DO mg/L	
	44.4=					lue	Average		lue	Average		lue	Average		lue	Average		lue	Average
28/2/2015	11:45	Cloudy	Surface	1.0	18.10	18.10	18.1	8.25	8.25	8.3	31.77	31.77	31.8	82.2	81.6	81.9	6.42	6.37	6.40
26/2/2015		Cloudy	Middle																
	11:47		Bottom	4.0	18.00	18.00	18.0	8.25	8.25	8.3	31.98	31.98	32.0	79.9	79.2	79.6	6.24	6.18	6.21
0/0/0045	-	0	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E/0/0045	-	Oleveti	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
23/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
27/3/2015	-	Cloudy	Middle	-	ı	ı	-	-	ı	-	_	-	-	i	-	-	-	1	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

	IVIIU-EL																		
Date	Time	Weater	Samplin	g Depth	Wat		erature		рН			Salinit	у		O Satur	ation		DO	
		Condition	r	n	Va	°C llue	Average	Va	lue -	Average	Va	ppt llue	Average	Va	% alue	Average	Va	mg/L lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	ı	-	-
28/2/2015	21:15	Cloudy	Middle	1.0	19.30	19.30	19.3	7.95	7.95	8.0	31.28	31.28	31.3	80.2	81.1	80.7	6.18	6.20	6.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/3/2015	1:13	Cloudy	Middle	1.0	19.80	19.80	19.8	7.92	7.92	7.9	25.02	25.02	25.0	70.6	71.3	71.0	5.47	5.52	5.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/3/2015	13:00	Cloudy	Middle	1.5	18.00	18.00	18.0	8.48	8.48	8.5	32.21	32.21	32.2	87.6	86.5	87.1	6.84	6.76	6.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
7/3/2015	14:54	Cloudy	Middle	1.5	18.70	18.70	18.7	8.34	8.34	8.3	31.88	31.88	31.9	80.2	80.2	80.2	6.19	6.19	6.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/3/2015	15:20	Fine	Middle	1.5	19.90	19.90	19.9	8.27	8.27	8.3	31.41	31.41	31.4	79.9	79.8	79.9	6.03	6.02	6.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/3/2015	15:36	Cloudy	Middle	1.5	18.30	18.30	18.3	8.27	8.27	8.3	32.09	32.09	32.1	78.4	77.7	78.1	6.10	6.04	6.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/3/2015	17:45	Cloudy	Middle	1.5	18.60	18.60	18.6	8.20	8.20	8.2	31.91	31.91	31.9	86.1	86.1	86.1	6.66	6.66	6.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/3/2015	20:40	Cloudy	Middle	1.5	19.90	19.90	19.9	7.89	7.89	7.9	23.69	23.72	23.7	69.0	68.7	68.9	5.46	5.43	5.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/3/2015	9:15	Cloudy	Middle	1.5	20.20	20.20	20.2	8.12	8.12	8.1	31.62	31.62	31.6	71.7	72.8	72.3	5.39	5.47	5.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/3/2015	14:22	Fine	Middle	1.5	21.20	21.20	21.2	8.14	8.14	8.1	31.44	31.44	31.4	61.9	62.0	62.0	4.55	4.56	4.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/3/2015	15:30	Cloudy	Middle	1.5	21.40	21.40	21.4	8.15	8.15	8.2	31.52	31.52	31.5	65.0	66.4	65.7	4.78	4.87	4.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/3/2015	16:45	Cloudy	Middle	1.5	19.20	19.20	19.2	8.24	8.24	8.2	31.79	31.79	31.8	62.3	63.0	62.7	4.72	4.77	4.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/3/2015	18:50	Fine	Middle	1.5	20.80	20.80	20.8	8.16	8.16	8.2	31.47	31.47	31.5	60.6	60.5	60.6	4.45	4.44	4.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

5.	Time	Weater	Samplin	ng Depth	Wat	er Temp	perature		pН			Salini	ty	С	OO Satur	ration		DO	
Date		Condition		n		<u>°C</u> lue	Average	Va	lue	Average	Va	ppt alue	Average		% alue	Average	Va	mg/L llue	Average
	20:44		Surface	1.0	19.20	19.20	19.2	7.95	7.95	8.0	28.33	28.33	28.3	56.1	56.3	56.2	4.38	4.39	4.39
28/2/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:46		Bottom	4.0	19.20	19.20	19.2	7.93	7.93	7.9	28.34	28.34	28.3	62.3	63.1	62.7	4.86	4.92	4.89
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u> </u>	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u>.</u>	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0/2/2045	-	Ei	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/3/2015	-	Fine	Middle Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-		-		-	-	-			-	-	-	-	-
11/3/2015	-	Cloudy	Middle	-	-	-	_			_	-						-		
11,0,2010	_	. Cidady	Bottom	_			_		-	_	_	_	_	-	_	_	-	_	
	_	<u> </u>	Surface	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
13/3/2015	_	Cloudy	Middle	_	_	-	_	-	-	-	-	-	_	-	-	-	-	-	_
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
18/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



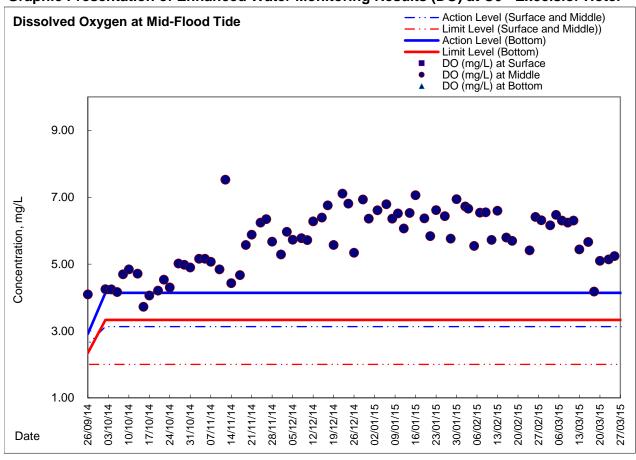
# Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

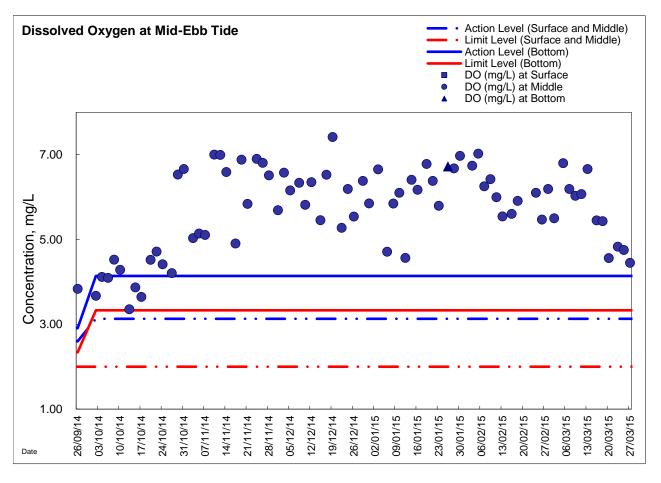
-	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty		OO Satur	ation		DO	
Date		Condition	r	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt alue	Average	Va	% alue	Average	Va	mg/L llue	Average
	20:48		Surface	1.0	19.20	19.20	19.2	7.90	7.90	7.9	28.16	28.16	28.2	56.1	56.8	56.5	4.38	4.44	4.41
28/2/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:50		Bottom	4.0	19.20	19.20	19.2	7.89	7.89	7.9	28.14	28.14	28.1	70.1	69.8	70.0	5.43	5.41	5.42
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	_	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u>.</u>	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u> </u>	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u>.</u>	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u> </u>	Bottom Surface	-	-	-	-	-	-	-	-	-	-		-	-	-	_	-
16/3/2015	-	Cloudy	Middle	-	-	-	-	-		-	-	-	-		-	-	-	-	-
10/0/2010	_	Oloudy	Bottom	-							-	-	_					_	
	_	<u> </u>	Surface	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
18/3/2015	_	Cloudy	Middle	-	_	-	-	-	-	-	_	_	-	-	-	-	-	_	-
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	_	-	-	-	_	-	-	-	-	_	-	-	-	_	-
20/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/3/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/3/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u> </u>	<u>l</u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>			<u>l</u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		l	<u> </u>

Remarks:



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

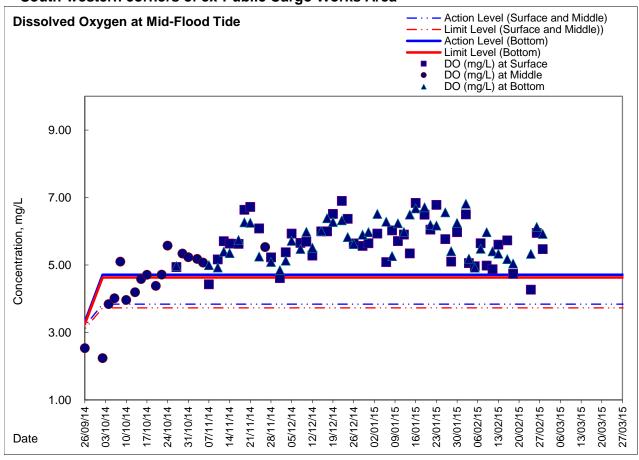


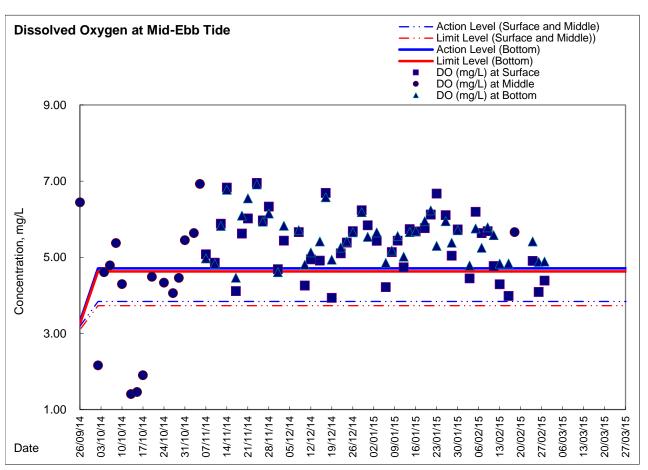




## Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW

- South-western corners of ex-Public Cargo Works Area

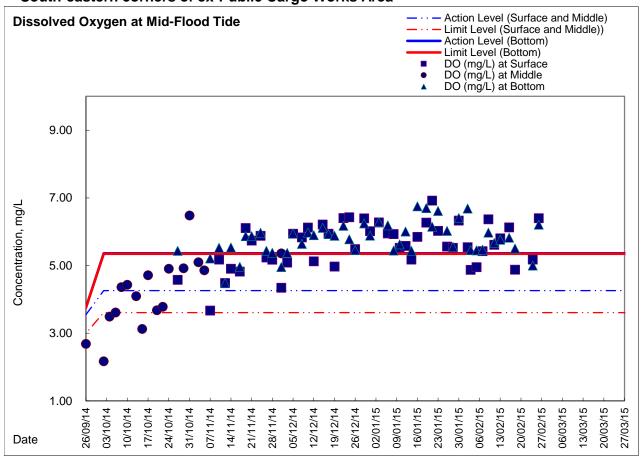


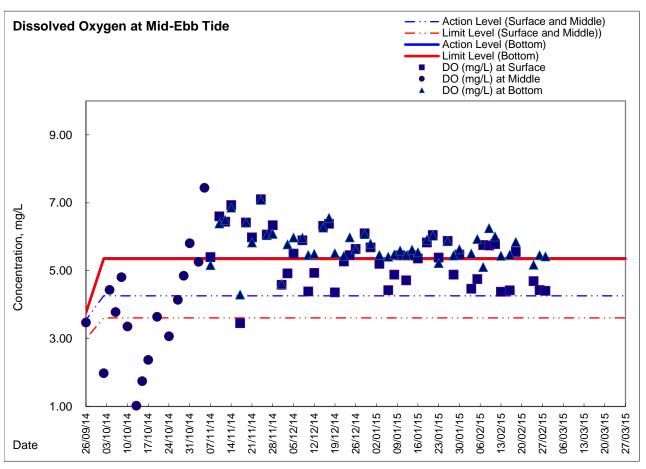




#### Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE

- 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	۵۱			
Normal Day 07:00-19:00	5/3/2015 12:01 71	10/3/2015 18:31 69	16/3/2015 13:01 71	21/3/2015 7:31 67	26/3/2015 14:01 72
	5/3/2015 12:31 70	11/3/2015 7:01 65	16/3/2015 13:31 72	21/3/2015 8:01 67	26/3/2015 14:31 71
· · · · · · · · · · · · · · · · · · ·	5/3/2015 13:01 72	11/3/2015 7:31 55	16/3/2015 14:01 73	21/3/2015 8:31 71	26/3/2015 15:01 71
28/2/2015 7:01 64	5/3/2015 13:31 73	11/3/2015 8:01 68	16/3/2015 14:31 71	21/3/2015 9:01 70	26/3/2015 15:31 71
28/2/2015 7:31 49	5/3/2015 14:01 75	11/3/2015 8:31 72	16/3/2015 15:01 70	21/3/2015 9:31 70	26/3/2015 16:01 72
28/2/2015 8:01 67	5/3/2015 14:31 76	11/3/2015 9:01 72	16/3/2015 15:31 71	21/3/2015 10:01 71	26/3/2015 16:31 72
28/2/2015 8:31 70	5/3/2015 15:01 75	11/3/2015 9:31 73	16/3/2015 16:01 69	21/3/2015 10:31 71	26/3/2015 17:01 73
28/2/2015 9:01 73	5/3/2015 15:31 76	11/3/2015 10:01 73	16/3/2015 16:31 68	21/3/2015 11:01 71	26/3/2015 17:31 71
28/2/2015 9:31 73	5/3/2015 16:01 76	11/3/2015 10:31 74	16/3/2015 17:01 69	21/3/2015 11:31 67	26/3/2015 18:01 70
28/2/2015 10:01 75	5/3/2015 16:31 76	11/3/2015 11:01 70	16/3/2015 17:31 70	21/3/2015 12:01 67	26/3/2015 18:31 70
28/2/2015 10:31 74	5/3/2015 17:01 73	11/3/2015 11:31 72	16/3/2015 18:01 69	21/3/2015 12:31 63	27/3/2015 7:01 65
28/2/2015 11:01 73	5/3/2015 17:31 72	11/3/2015 12:01 55	16/3/2015 18:31 59	21/3/2015 13:01 69	27/3/2015 7:31 65
28/2/2015 11:31 72	5/3/2015 18:01 72	11/3/2015 12:31 67	17/3/2015 7:01 64	21/3/2015 13:31 71	27/3/2015 8:01 68
28/2/2015 12:01 72	5/3/2015 18:31 69	11/3/2015 13:01 74	17/3/2015 7:31 44	21/3/2015 14:01 71	27/3/2015 8:31 72
28/2/2015 12:31 67	6/3/2015 7:01 65	11/3/2015 13:31 72	17/3/2015 8:01 67	21/3/2015 14:31 70	27/3/2015 9:01 72
28/2/2015 13:01 72	6/3/2015 7:31 63	11/3/2015 14:01 70	17/3/2015 8:31 70	21/3/2015 15:01 70	27/3/2015 9:31 73
28/2/2015 13:31 74	6/3/2015 8:01 70	11/3/2015 14:31 71	17/3/2015 9:01 70	21/3/2015 15:31 70	27/3/2015 10:01 73
28/2/2015 14:01 74	6/3/2015 8:31 75	11/3/2015 15:01 72	17/3/2015 9:31 70	21/3/2015 16:01 70	27/3/2015 10:31 71
28/2/2015 14:31 75	6/3/2015 9:01 75	11/3/2015 15:31 72	17/3/2015 10:01 69	21/3/2015 16:31 72	27/3/2015 11:01 70
28/2/2015 15:01 74	6/3/2015 9:31 74	11/3/2015 16:01 72	17/3/2015 10:31 68	21/3/2015 17:01 70	27/3/2015 11:31 68
28/2/2015 15:31 74	6/3/2015 10:01 73	11/3/2015 16:31 72	17/3/2015 11:01 69	21/3/2015 17:31 69	27/3/2015 12:01 52
28/2/2015 16:01 74	6/3/2015 10:31 74	11/3/2015 17:01 73	17/3/2015 11:31 68	21/3/2015 18:01 66	27/3/2015 12:31 62
28/2/2015 16:31 72	6/3/2015 11:01 73	11/3/2015 17:31 73	17/3/2015 12:01 55	21/3/2015 18:31 66	27/3/2015 13:01 68
28/2/2015 17:01 72	6/3/2015 11:31 71	11/3/2015 18:01 74	17/3/2015 12:31 56	23/3/2015 7:01 64	27/3/2015 13:31 71
28/2/2015 17:31 75	6/3/2015 12:01 60	11/3/2015 18:31 64	17/3/2015 13:01 68	23/3/2015 7:31 67	27/3/2015 14:01 71
28/2/2015 18:01 67	6/3/2015 12:31 63	12/3/2015 7:01 65	17/3/2015 13:31 70	23/3/2015 8:01 67	27/3/2015 14:31 69
28/2/2015 18:31 65	6/3/2015 13:01 75	12/3/2015 7:31 61	17/3/2015 14:01 70	23/3/2015 8:31 71	27/3/2015 15:01 70
2/3/2015 7:01 64	6/3/2015 13:31 76	12/3/2015 8:01 65	17/3/2015 14:31 69	23/3/2015 9:01 71	27/3/2015 15:31 72
2/3/2015 7:31 49	6/3/2015 14:01 76	12/3/2015 8:31 69	17/3/2015 15:01 70	23/3/2015 9:31 69	27/3/2015 16:01 74
2/3/2015 8:01 67	6/3/2015 14:31 76	12/3/2015 9:01 72	17/3/2015 15:31 67	23/3/2015 10:01 69	27/3/2015 16:31 74
2/3/2015 8:31 72	6/3/2015 15:01 76	12/3/2015 9:31 72	17/3/2015 16:01 70	23/3/2015 10:31 72	27/3/2015 17:01 71
2/3/2015 9:01 73	6/3/2015 15:31 77	12/3/2015 10:01 70	17/3/2015 16:31 71	23/3/2015 11:01 70	27/3/2015 17:31 72
2/3/2015 9:31 75	6/3/2015 16:01 75	12/3/2015 10:31 71	17/3/2015 17:01 70	23/3/2015 11:31 68	27/3/2015 18:01 72
2/3/2015 10:01 73	6/3/2015 16:31 77	12/3/2015 11:01 69	17/3/2015 17:31 70	23/3/2015 12:01 67	27/3/2015 18:31 68
2/3/2015 10:31 71	6/3/2015 17:01 75	12/3/2015 11:31 65	17/3/2015 18:01 70	23/3/2015 12:31 67	
2/3/2015 11:01 70	6/3/2015 17:31 75	12/3/2015 12:01 47	17/3/2015 18:31 67	23/3/2015 13:01 69	Normal Day 19:00-23:00,
2/3/2015 11:31 71	6/3/2015 18:01 76	12/3/2015 12:31 54	18/3/2015 7:01 64	23/3/2015 13:31 70	Sunday & Holiday
2/3/2015 12:01 66	6/3/2015 18:31 70	12/3/2015 13:01 69	18/3/2015 7:31 67	23/3/2015 14:01 70	<u>07:00-23:00</u>
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5/3/2015 8:31 72	10/3/2015 15:01 71	16/3/2015 9:31 71	20/3/2015 16:01 68	26/3/2015 10:31 76	1/3/2015 8:16 59
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Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)	_		_
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Real-time Noise Data	RTN2a (Hong Kong Electric Centre	<u>e)</u>			
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Real-time Noise Data 1/3/2015 0:56 60	RTN2a (Hong Kong Electric Centre 2/3/2015 2:01 55	r <u>e)</u>   3/3/2015 3:06 55	4/3/2015 4:11 52	5/3/2015 5:16 56	6/3/2015 6:21 62
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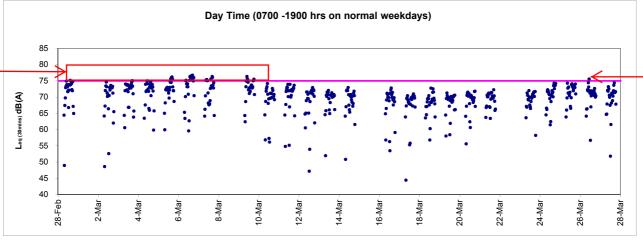
Real-time Noise Data	RTN2a (Hong Kong Electric Cent				
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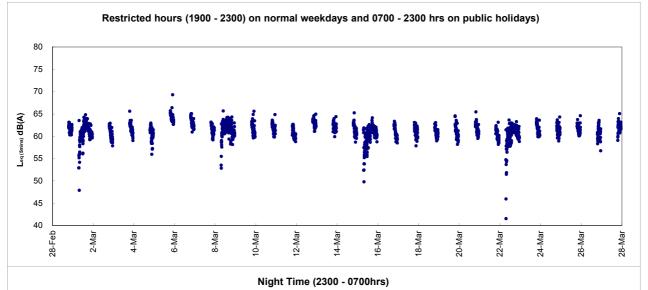
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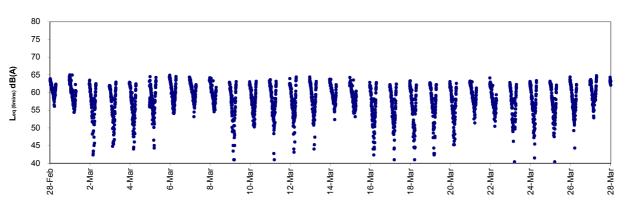
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22/3/2015 2:41 57	23/3/2015 3:46 58	24/3/2015 4:51 51	25/3/2015 5:56 56	26/3/2015 23:01 62	
22/3/2015 2:46 58 22/3/2015 2:51 57	23/3/2015 3:51 58 23/3/2015 3:56 58	24/3/2015 4:56 50 24/3/2015 5:01 50	25/3/2015 6:01 56 25/3/2015 6:06 57	26/3/2015 23:06 63 26/3/2015 23:11 63	
22/3/2015 2:56 57	23/3/2015 4:01 58	24/3/2015 5:06 57	25/3/2015 6:11 56	26/3/2015 23:16 63	
22/3/2015 3:01 57 22/3/2015 3:06 57	23/3/2015 4:06 58 23/3/2015 4:11 54	24/3/2015 5:11 56 24/3/2015 5:16 51	25/3/2015 6:16 58 25/3/2015 6:21 57	26/3/2015 23:21 63 26/3/2015 23:26 63	
22/3/2015 3:11 57	23/3/2015 4:16 57	24/3/2015 5:21 55	25/3/2015 6:26 61	26/3/2015 23:31 63	
22/3/2015 3:16 56 22/3/2015 3:21 56	23/3/2015 4:21 58 23/3/2015 4:26 58	24/3/2015 5:26 54 24/3/2015 5:31 56	25/3/2015 6:31 60 25/3/2015 6:36 60	26/3/2015 23:36 63 26/3/2015 23:41 64	
22/3/2015 3:26 56	23/3/2015 4:31 40	24/3/2015 5:36 55	25/3/2015 6:41 61	26/3/2015 23:46 64	
22/3/2015 3:31 57 22/3/2015 3:36 56	23/3/2015 4:36 58 23/3/2015 4:41 40	24/3/2015 5:41 55 24/3/2015 5:46 56	25/3/2015 6:46 61 25/3/2015 6:51 62	26/3/2015 23:51 63 26/3/2015 23:56 64	
22/3/2015 3:41 57	23/3/2015 4:46 58	24/3/2015 5:51 56	25/3/2015 6:56 62	27/3/2015 0:01 63	
22/3/2015 3:46 56 22/3/2015 3:51 57	23/3/2015 4:51 58 23/3/2015 4:56 58	24/3/2015 5:56 57 24/3/2015 6:01 57	25/3/2015 23:01 64 25/3/2015 23:06 63	27/3/2015 0:06 63 27/3/2015 0:11 63	
22/3/2015 3:56 54	23/3/2015 5:01 52	24/3/2015 6:06 57	25/3/2015 23:11 64	27/3/2015 0:16 63	
22/3/2015 4:01 56 22/3/2015 4:06 54	23/3/2015 5:06 50 23/3/2015 5:11 50	24/3/2015 6:11 58 24/3/2015 6:16 59	25/3/2015 23:16 64 25/3/2015 23:21 63	27/3/2015 0:21 63 27/3/2015 0:26 63	
22/3/2015 4:11 56	23/3/2015 5:16 53	24/3/2015 6:21 60	25/3/2015 23:26 63	27/3/2015 0:31 63	
22/3/2015 4:16 52 22/3/2015 4:21 55	23/3/2015 5:21 38 23/3/2015 5:26 52	24/3/2015 6:26 59 24/3/2015 6:31 61	25/3/2015 23:31 63 25/3/2015 23:36 63	27/3/2015 0:36 63 27/3/2015 0:41 62	
22/3/2015 4:26 55	23/3/2015 5:31 52	24/3/2015 6:36 61	25/3/2015 23:41 62	27/3/2015 0:46 61	
22/3/2015 4:31 56	23/3/2015 5:36 55	24/3/2015 6:41 62	25/3/2015 23:46 63	27/3/2015 0:51 61	
22/3/2015 4:36 56 22/3/2015 4:41 56	23/3/2015 5:41 52 23/3/2015 5:46 54	24/3/2015 6:46 61 24/3/2015 6:51 63	25/3/2015 23:51 62 25/3/2015 23:56 62	27/3/2015 0:56 61 27/3/2015 1:01 61	
22/3/2015 4:46 55	23/3/2015 5:51 55	24/3/2015 6:56 63	26/3/2015 0:01 63	27/3/2015 1:06 61	
22/3/2015 4:51 56 22/3/2015 4:56 54	23/3/2015 5:56 57 23/3/2015 6:01 57	24/3/2015 23:01 63 24/3/2015 23:06 63	26/3/2015 0:06 62 26/3/2015 0:11 62	27/3/2015 1:11 61 27/3/2015 1:16 61	
22/3/2015 5:01 50	23/3/2015 6:06 57	24/3/2015 23:11 63	26/3/2015 0:16 62	27/3/2015 1:21 61	
22/3/2015 5:06 54 22/3/2015 5:11 53	23/3/2015 6:11 56 23/3/2015 6:16 59	24/3/2015 23:16 63 24/3/2015 23:21 63	26/3/2015 0:21 61 26/3/2015 0:26 61	27/3/2015 1:26 60 27/3/2015 1:31 59	
22/3/2015 5:16 53	23/3/2015 6:21 60	24/3/2015 23:26 63	26/3/2015 0:31 62	27/3/2015 1:36 59	
22/3/2015 5:21 55 22/3/2015 5:26 55	23/3/2015 6:26 59 23/3/2015 6:31 60	24/3/2015 23:31 63 24/3/2015 23:36 62	26/3/2015 0:36 61 26/3/2015 0:41 62	27/3/2015 1:41 58 27/3/2015 1:46 59	











After checking with Contractor HY/2009/19, trench excavation and sheet piling works were undertaken at the concerned location during the recorded period and noise mitigation measures including erection of noise blanket was implemented by the Contractor. Meanwhile, breaking works and excavation works was observed at the non-CWB Project construction site next to the monitoring station across March 2015 and considered as the major noise contribution and as such, the exceedances were considered to be non Project related and contributed by nearby non-CWB Project construction works.

## Appendix 6.1

**Event Action Plans** 

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

EVENT		AC	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>	Submit noise mitigation proposals to IEC and ER;     Implement noise mitigation proposals.     (The above actions should be taken within 2 working days after the exceedance is identified)

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>	Discuss amongst ER, ET, and Contractor on the potential remedial actions;     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.  (The above actions should be taken within 2 working days after the exceedance is identified)	<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 Dian for Construction Air Quality

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



**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 agree 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	Identify source/reason of exceedance;     Repeat odour patrol to confirm finding.	<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	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	<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

#### Lam Geotechnices Limited

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5190	7-Mar-15	Mid-ebb	WSD19	DO(mg/l)	6.28	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.17	8.04	9.49	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	13.00	14.43	Remarks/ Other Obs:	Despite transfer of soil from land to barge 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 at monitoring station was generally in order. In view of the construction area was located at the downstream of WSD19 monitoring station and no exceedance was recorded in the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5191	11-Mar-15	Mid-flood	RW21-P789	DO(mg/l)	6.07	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.15	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	7.50	13.00	14.43	Remarks/ Other Obs:	No marine construction activity was conducted under contract HK/2009/02 on the monitoring date. Silt curtain at monitoring station was generally in order. In view of no marine activities conducted on the monitoring date and the exceedance was not continuous, it was considered that the exceedance was not project related.
X_W5192	11-Mar-15	Mid-ebb	WSD19	DO(mg/l)	6.45	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	9.89	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	7.00	13.00	14.43	Remarks/ Other Obs:	Despite transfer of soil from land to barge 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 at monitoring station was generally in order. In view of the construction area was located at the downstream of WSD19 monitoring station and no exceedance was recorded in the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5193	13-Mar-15	Mid-ebb	WSD19	DO(mg/l)	6.08	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.15	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	13.00	13.00	14.43	Remarks/ Other Obs:	Despite transfer of soil from land to barge 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 at monitoring station was generally in order. In view of the construction area was located at the downstream of WSD19 monitoring station and no exceedance was recorded in the subsequent monitoring, it was considered that the exceedance was not project related.

#### Lam Geotechnices Limited

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5194	18-Mar-15		WSD19	DO(mg/l)	5.87	3.66		Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
									station.
				Turbidity	9.66	8.04	9.49	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedances. Checking with
				, , ,				taken:	Contractor works and review previous monitoring data.
				SS	6.50	13.00	14.40	Remarks/ Other Obs:	No marine construction activity was conducted under contract LIV/2042/00 on the
				33	0.50	13.00	14.43	Remarks/ Other Obs.	No marine construction activity was conducted under contract HK/2012/08 on the monitoring date. Despite silt screen cleaning was conducted under contract HK/2009/01
									during monitoring period, Contractor cleaning procedure was considered in order and away
									from the intake location and was considered not contributing the turbidity exceedance. In view of no exceedance was recorded in the subsequent monitoring, it was considered that
									the exceedance was not project related.
X W5195	18-Mar-15	Mid-flood	RW21-P789	DO(mg/l)	6.11	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				, , ,					station.
				Turbidity	8.92	8.04	9.49	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedances. Checking with
				,				taken:	Contractor works and review previous monitoring data.
				ss	5.50	13.00	14.43	Remarks/ Other Obs:	No marine construction activity was conducted under contract HK/2009/02 on the
									monitoring date. Silt curtain at monitoring station was generally in order. In view of no
									marine activities conducted on the monitoring date and the exceedance was not continuous,
									it was considered that the exceedance was not project related.
X_W5196	20-Mar-15	Mid-flood	WSD19	DO(mg/l)	4.54	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
									station.
				Turbidity	10.01	8.04	9.49	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedances. Checking with
								taken:	Contractor works and review previous monitoring data.
				SS	7.50	13.00	14.43	Remarks/ Other Obs:	Despite removal of rock armour 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 at monitoring station was generally in order. In view of the exceedance was not continuous, it was considered that the exceedance was not project
									related.
X_W5197	23-Mar-15	Mid-ebb	WSD19	DO(mg/l)	5.31	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
									station.
				Turbidity	9.08	8.04	9.49	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedances. Checking with
								taken:	Contractor works and review previous monitoring data.
				SS	13.00	13.00	14.43	Remarks/ Other Obs:	Despite transfer of soil from land to barge 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 at monitoring station was generally in order. In view of the construction area was located at the downstream of WSD19 monitoring station and no
									exceedance was recorded in the subsequent monitoring, it was considered that the
									exceedance was not project related.
									!

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 <sup>th</sup> 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	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	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 <sup>th</sup> 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	Ou	tcome	Status
100504	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.		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 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.	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.	′	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.  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.  It is considered as invalid from the EP and CNP point of view.	Closed
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 works area adjacent to the Harbour Height during the period from 0700 to 2200.		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.  No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.  It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	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.  Follow-up action had been immediately carried out to	Closed
						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	ŕ	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
						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 Department	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
					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,	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:	Closed
		Block 10, City		20.0	<u> </u>	• It was referred to the filling operation at North Point	



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 spotlight 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.	Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;  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;  Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;  No starting work on 7 Dec 2010 at 0630hours.  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;  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;  The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.  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;  No further complaint was received after implementation of proposed measures	
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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Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outco	ome	Status		
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.	2) T	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	North Point	An odour nuisance suspected	<u> </u>	The complaint was received by ET on 13 Jun 2011. During	Closed		
	0.00.2011	Victoria Centre Management  Office  Note To State To Stat	point - Channel T at Watson	tl	he weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.				
				related to CWB under Contract	2) A d C	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.			
							tl tl tl	n order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at he outfall of the channel by Contractor. ET confirmed with he Resident Site Staff that a silt curtain was installed at he outfall of the channel to prevent muddy water washing but to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.	
						n C	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.		
					s u lo ro a	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 ow 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 he water channel.			



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status		
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, nylonwire 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.	3)	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.	1)	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 23/07	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways 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 Saturday, Sunday and public	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.  As a mitigation measure to minimize the noise nuisance in	
	holiday.		3)	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)	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 conducted at Causeway Bay	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		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	North Point	Noise nuisance from the excavation works for the	1)	It was referred by AECOM to ET on 28 July 2011	
		no.1-304615409		Highways Department adjacent to the Victoria Centre was conducted from 7am	2)	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.	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	
	08/08/2011				4)	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.	
					Rer	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  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)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.				
		2)	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	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.	Closed
		Garden		August 2011.		<ul> <li>The pump is located on the site area of HY/2009/19</li> <li>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.</li> </ul>	
						<ul> <li>An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project</li> </ul>	

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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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					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.  3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.  4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.  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.	
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         <ul> <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> </ul> </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	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	Keep in view for three months from the date of complaint recevied



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					2)	CNP was checked by the police officer.  ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.	
					3)	Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.	
					4)	Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour	
					5)	This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
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.	3)	RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations.	Closed
					4)	HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	



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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	Interim Report was submitted to EPD on 20 June 2014.

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LOG NO.	Complaint	and Received by	Сопратан		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	
		ICC Case Ref:		The complaint is regarding to	1)	case was submitted to EPA via email on 18 June 2014.  Construction noise impact referred by RSS was received	Final report
140723	21/07/2014	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.		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.	(Issue1) issued on 31 July 2014.  Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.
					3)	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	
					4)	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."	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  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.	
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.	Interim investigation report submitted to EPD on 23 October 2014.
					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.	Updated interim investigatio n with
					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.	supplement ary information submitted
					From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.	to EPD on
					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.	November 2014

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 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).	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.	2011.
					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 onsite. 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 onsite 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.



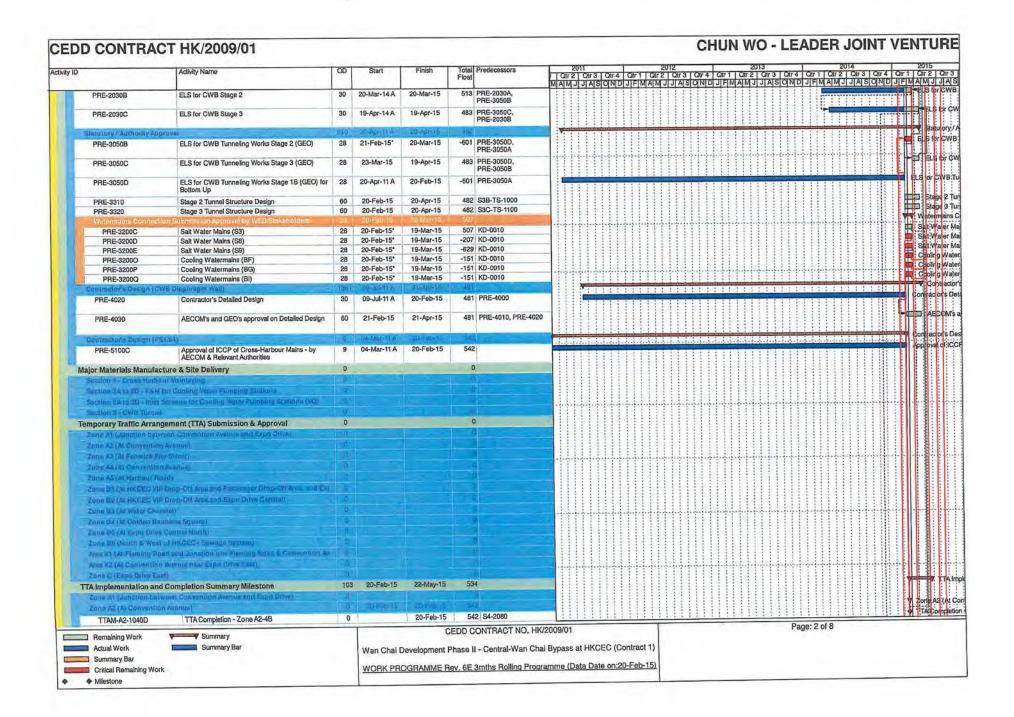
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141121	Not Specified	EPD Ref: H08/RS/28263-14 EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	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.  EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14.  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.	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 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	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.	

## Appendix 10.1

**Construction Programme of Individual Contracts** 

ID	Activity Name	OD	Start	Place	1 -	Un .							_	110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	W C	- 1		IDE	nu	OIN	II V	ENT	1
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KD-0300	Completion of Section 3 of Works - CWB, Slip	0	241 m-15	11-Mar-15*								11							111	111			M	
KD-0400B	Hoads 2 & 3 & Works in Area 8			11-Mar-15		0 KD-0305, PRE-4050			11						Hi		11			Ш			• Cor	
12000	Completion of Outstanding Works for Section 4 - Salt Watermains	0		02-Apr-15	50	TTAM-86-1030B, TTAM-A2-1040D, TTAM-A3-1090B, TTAM-A5-1050B,																	-	DIT
KD-0610	Completion of Section 6A of Works - GoVt Offices cooling water discharge	0		20-Feb-15*	-12	TTAM-86-1090B. 2 TTAM-C2-1100B. TTAM-X3-1000B, KD-0615, TTAM-C2-1100B	-																Comp	ile
KD-0620	Completion of Section 6B of Works - Great Eagle Centre cooling water discharge	0		20-Feb-15*	-122	TTAM-C2-1100B, TTAM-X2-1020B, TTAM-C2-1100B																	omp	let
KD-0630	Completion of Section 6C of Works - China Resources Bidg cooling water discharge	0		20-Feb-15*	-122	TTAM-C2-1100B, TTAM-X2-1020B, KD-0635, TTAM-C2-1100B																	• Comp	lei
KD-0800	Completion of Section 8 of Works - Works in Area 6	0		20-Feb-15*	-105	KD-0805					Ш											111		
KD-1200	Completion of Section 12 of Works - Works in Area	0		20-Feb-15*		KD-1205																	Comp	
KD-1300	Completion of Section 13 of Works - Works in Area 11	0		20-Feb-15*	-29	KD-1305	H			H	H	H	HH	1		H	H	#		H.		44	Comp	
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KD-0405B	Completion of Outstanding Works for Section 4 - Salt Watermains & Works in Area 3	0		20-Feb-15	542	\$11-4030, \$4-2520, \$4-4060, \$4-4000, \$4-1500, \$4-4070, \$4-4050, \$4-2500,																	Gompl	
KD-0615	Completion of Section 6A of Works - Gov't Offices cooling water discharge	0		18-Jun-15	-241	S4-4080, S4-4010, S6-1030, S6A-2010, S6A-2030B	$^{\dagger\dagger}$	111	H	+##	111	H	H		+	#	H	++-	HH		HH	111	+	4
KD-0625	Completion of Section 6B of Works - Great Eagle Centre cooling water discharge	0		18~Jun-15	-241	S6B-2000, S6-1030, S6B-2020B												Ш					H	1
KD-0635 KD-0805	Completion of Section 6C of Works - China Resources Bldg cooling water discharge	0		18-Jun-15	-241	S6C-2000, S6-1030, S6C-2020B																		÷
	Completion of Section 8 of Works - Works in Area 6	0		22-May-15	-196	S8-3000	111		Ш	H					111					111				4
KD-1205	Completion of Section 12 of Works - Works in Area 10	0		28-Feb-15*	0	TTAM-A4-1050C, S12-1000, TTAM-A4-1020B, VO106-1000,																ſ	Comp	let
KD-1305	Completion of Section 13 of Works - Works in Area 11	0		28-Feb-15*	0	VO106-1000A S3A-TS-1050, S13-1000, S13-3000, S13-2000, VO106-2000, VO105-2000A																	<b>≂</b> Coirp	let
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TTAM-A3-1050	TTA Completion - Zone A3-2C (Sewer)	0		26-Apr-15	400	TTAM-A3-1030			111						111						T
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TTAM-A3-1090B	TTA Completion - Zone A3-5C - Salt Water	0		26-Mar-15		S8-1050 S4-2520, S4-2120							III			m	m		Tit		r
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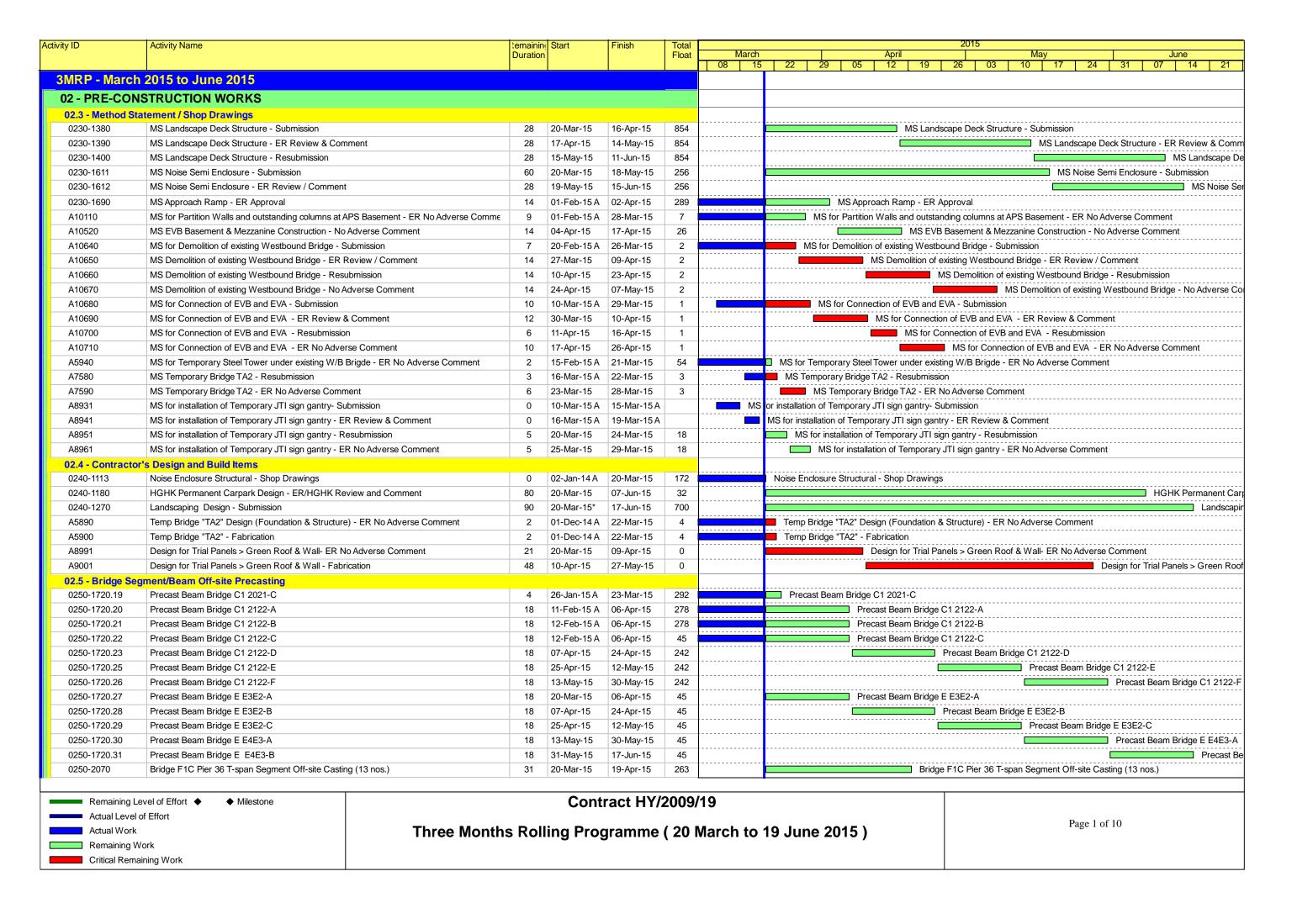
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	rks for Sections 2A, 2B, 2C & 2D (LV Switch Board at H orks - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8		27-Jun-14 A	25-Jul-15	458												111		111	V-	-	-	-	#
	Works (Stage 1 : Ch2947 - CH3045)	12	19-Jan-15-A	10/22/15	211											11			111	111		4-4	ΝВ	Pur
Pipe Prie Wall F		0						TIT	TI										111	111				
	amatlan Works (Matrine Champige : CH0 - CHT20)				D		111					11							111	111	1111			
	dation Works (CH2917 - CH3005 / CH0 - CH120)	1			- 1							11				11			411					
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A STATE OF THE PARTY OF THE PAR	valion Works (Ch2947 - Ch 3045)	0			-		1111	***	hit	hir	111	7		11			111	m			Till			П
	Works at Stage 1A (For Top Slab Construction CH2947 - C	0		2000						H										111				П
Excavation	Works at Stage 1A & 1B (For Bottom Slab Construction : C)	0		-				111										111	111	111				П
	el Structure Works (Bay 1 to Bay 7 Ch2847 - Ch 9045)	17	TE-MOTER	10-6-9-16	206												111	111	111	111			tage	e 1 -
	cture at Stage 1A (Top Slab Construction : CH2947 - CH2986	_			183				ment.			4.4.	.4.4.				+++	4-1-5				-	uhr	ne S
Tunnel Siru S3A-TS-2	cture it Stege 1A & 1B (CH2947 - CH3045) 2080 Backfilling to formation level for Stage 1B (CH 80 to	30	19-Jan-15 A 19-Jan-15 A	10 May 15 10-Mar-15		3 S3A-TS-1060,											H						uh n ar ki	filin
	CH 120)	00		77.000	1.45	S3A-TS-2000											111							Ш
Stopp 2 Book	Works (Stage 2 - Ch3045 - Ch3129) amation Works (Marins Chalouge : Ch120 - CH225)	ASE	A+Druk 42	45-Jun 15-	4.00																			
Stage 2 - Four	idation Works (Baltom Up Method - CH3045 - CH3129   CH1	1270	22-010-16A	125-2100-115	dia		Juli										1.1.1.	1.1.		V			111	▼ .S ]- •€
S3B-FW-104	(~-5,0mPD)	170	27-Jun-14 A	10-Jun-15	386	S3B-FW-1040B, S3B-TS-2000A															V		П	
The state of the later of the l	Value Warss (For Bottom Stati Constitution : CH8045 - CH	20	19-Dec-14 A	27-May-15	330	9 S3C-EW-1010E	-111								Ш		Ш							: 12 H
S3B-EW-100	10			1 101	-10	9 S3B-EW-1000E	- 11								Ш									- 6
S3B-EW-100	Ch3129	35	06-Nov-14 A	27-May-15	33.	SSD-EW-1000E										Ш		11						Ш
Silings 2 1000 S3B-TS-103	ne) Strifeture Works (Bay 7 to Stay 1)   C.48(645 - C.43128) 30   Bay 9 Base Slab	14	27-Jan-15 A	05-Mar-15	-14	1 S3B-TS-1020		itit	ttt	111	TT	111	tit	111	111		111	TT					3 4 2	9 La
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S3B-TS-105	7, 8 & 9	15	03-1-60-1374	15-Mai-16	1	S3B-TS-1020, S3B-TS-1030									111	111	111	11						Ш
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S3B-TS-106 S3B-TS-107	The state of the s	14	16-Mar-15 21-Mar-15	29-Mar-15 03-Apr-15	-14	1 S3B-TS-1050,	- 11	1111	111	111							111	11	111				11 94	
335-13-107		1	300000			S3B-TS-1060			144	111	ļ.ļ.ļ.	1.1.1.	ļ.ļ.ļ.	1	1.1.1.	14.	444	4.4.	ļ.i				27.77	i.
S3B-TS-108	Construction of Exhaust Duct (CH2988 - CH3045)	45	11-Jun-15	25-Jul-15	38	6 S3B-FW-1040C						Ш					111	11					3	
																								_
Remaining Work	Summary			C	EDD C	CONTRACT NO. HK	2009/01										Pag	ge: 4	of 8					
Actual Work	Summary Bar		Wan Chai D	evelopment F	hase I	I - Central-Wan Cha	Bypass	at HKC	EC (Co	ntract	1)													
Summary Bar																								
Critical Remainir	ng Work		WORK PRO	GRAMME R	ev. 6E	3mths Rolling Progr	amme (D	ata Date	on:20	-Feb-1	5)													

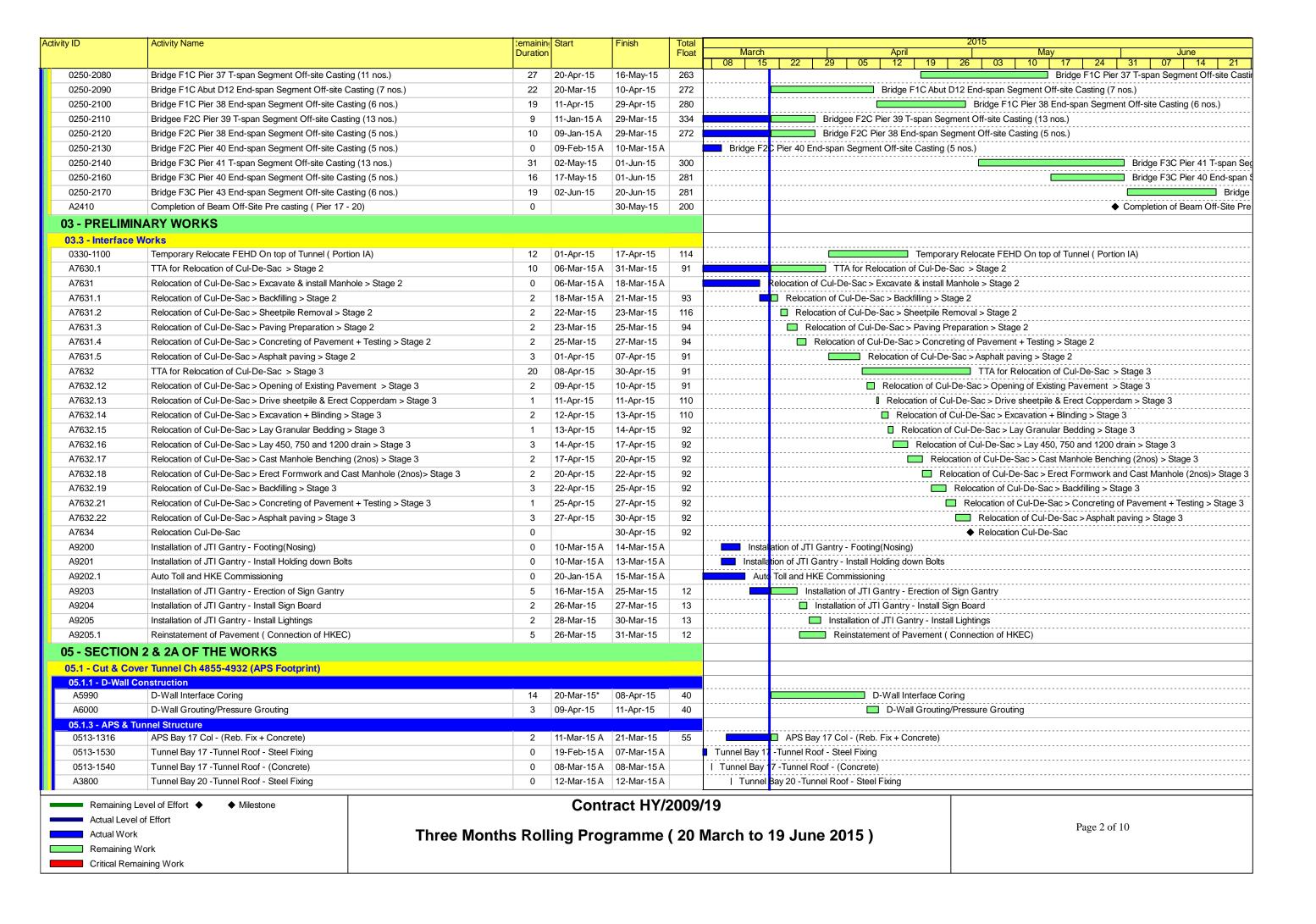
-	- IIIIAU	T HK/2009/01					CHUN WO - LEADER JOINT VEI
		Activity Name	OD	Start	Finish	Total Predecessor Float	2011 2012 2013 2014 Ct 1 Otr 2
	B-TS-1090	Backfilling at Northern Side from -10mPD to -2mPD (Slip Road 2 - 4700cu.m)	70	04-Apr-15	12-Jun-15	-141 S3B-TS-106 S3B-TS-107	THE
	B-TS-1100	Backfilling at Southern Side from -10mPD to -2mPD (Slip Road 3 - 4000cu.m)	21	22-May-15	11-Jun-15	-140 S3B-TS-106 S3B-TS-107 S3B-TS-200	
	B-TS-1110	Bay 7 & 8 Wall and OHVD Base Slab	10	30-Mar-15	08-Apr-15	459 S3B-TS-106	
	B-TS-1120	Bay 9 Wall and OHVD Base Slab	10	04-Apr-15	13-Apr-15	459 S3B-TS-107 S3B-TS-1110	
	B-TS-1130	Bay 7 & 8 OHVD Wall Stern and Bay 7 & 8 Top Slab	10	09-Apr-15	18-Apr-15	484 S3B-TS-1110	
S3B	B-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	
	3-TS-1160	Construction of Slip Road 2 & 3 Base Slab	14	13-Jun-15	26-Jun-15	-141 S3B-TS-109 S3B-TS-1100	
	3-TS-2000A	Construction of Exhaust Duct (CH3045 - CH3129) Including waterproofing works	48	04-Apr-15	21-May-15	-140 S3B-TS-1076	
WE THE	meding blanks (Si	nge 3 - Chravan - Chrasia)	100	121000 HA	(Busines)	400	
Sac	C-MW-1400	Removal of Remaining Type II & I Material during	45	12-May-15	25-Jun-15	-242 S3C-EW-101	
		Stage 3 Excavation Outfull and Seawall Construction	0		1	0	
	nalilian Works		0			0	
	Demolition Works		0			0	
	Demolition Works		0			-0	
		(sion and Reprovision)	D			0	
	3 - Formantion We					n	
	a escavation wo avalien Works at 3	Na (Gn3129 - Gn3245)	Lips	To The House	Shortle :	-30	
	3C-EW-1010	Excavation to -4.0 mPD (approx 26,600m3)	SIB	12-Dec-14 A	25 hm 15	-242	
		including strut/waling installation	96	18-Dec-14 A	31-Mar-15	-236 S3C-FW-104 PRE-2030C, S3C-EW-100	
S	3C-EW-1010B	Installation of Dewatering Well (45nos.) and Pumping Test	45	12-Dec-14 A	06-Apr-15	-242 PRE-2000H, S3C-FW-105 S3C-FW-104 S3C-EW-101	
S	3C-EW-1010E	Excavation to -16mPD (approx 55,000m3)	80	07-Apr-15	25-Jun-15	-242 S3C-EW-101 S3C-EW-101	
Exen	avallon Works at S	Stage 3A & 3B (For Bottom Slab Construction : Cf	0 1			33C-EW-101	
Sloge	t - Tunnet Streete	m Works (Buy 1) to Buy 20   Chartes - Closess	1 31	Un-tray U		100	
Tünr	nel Structum at St	age 3A (Top Slab Construction : CH3185 - EH3246)	0		-	0	
		aga 3A & 3B (CH3129 - CH3244)	56	Q6 May-15	02% lol: 15	355	
S	3C-TS-2000	Bay 11 Slip Road 3 Sump Pit Base Slab	14	06-Jun-15	19-Jun-15	329 S3C-MW-140 S3C-EW-1010 S3B-EW-1030	
S	3C-TS-2000F	Bay 11 CWB Base Slab	14	27-May-15	09-Jun-15	330 S3C-EW-1030	
	3C-TS-2090A	Bay 20 CWB & Slip Road 2 Base Slab and Slip Road 3 Wall	14	19-Jun-15	02-Jul-15	355 S3C-EW-1010	
S3	3C-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, S9-1 S9-1040A	408,
tion 4 of		Water Mains, Works in Area 3	8	20-Mar-15		10	
	III) SIT Welcomain			20-Walf-15	26-Mar-15	598	
emaining	g Work	▼ Summary			CE	DD CONTRACT !!	LIV/popp(s)
ctual Wo	ork =	Summary Bar			velopment Ph		Chai Bypass at HKCEC (Contract 1)
Critical Re Milestone			2	WORK PROC	RAMME Rev	, 6E 3mths Rolling	rogramme (Data Date on:20-Feb-15)

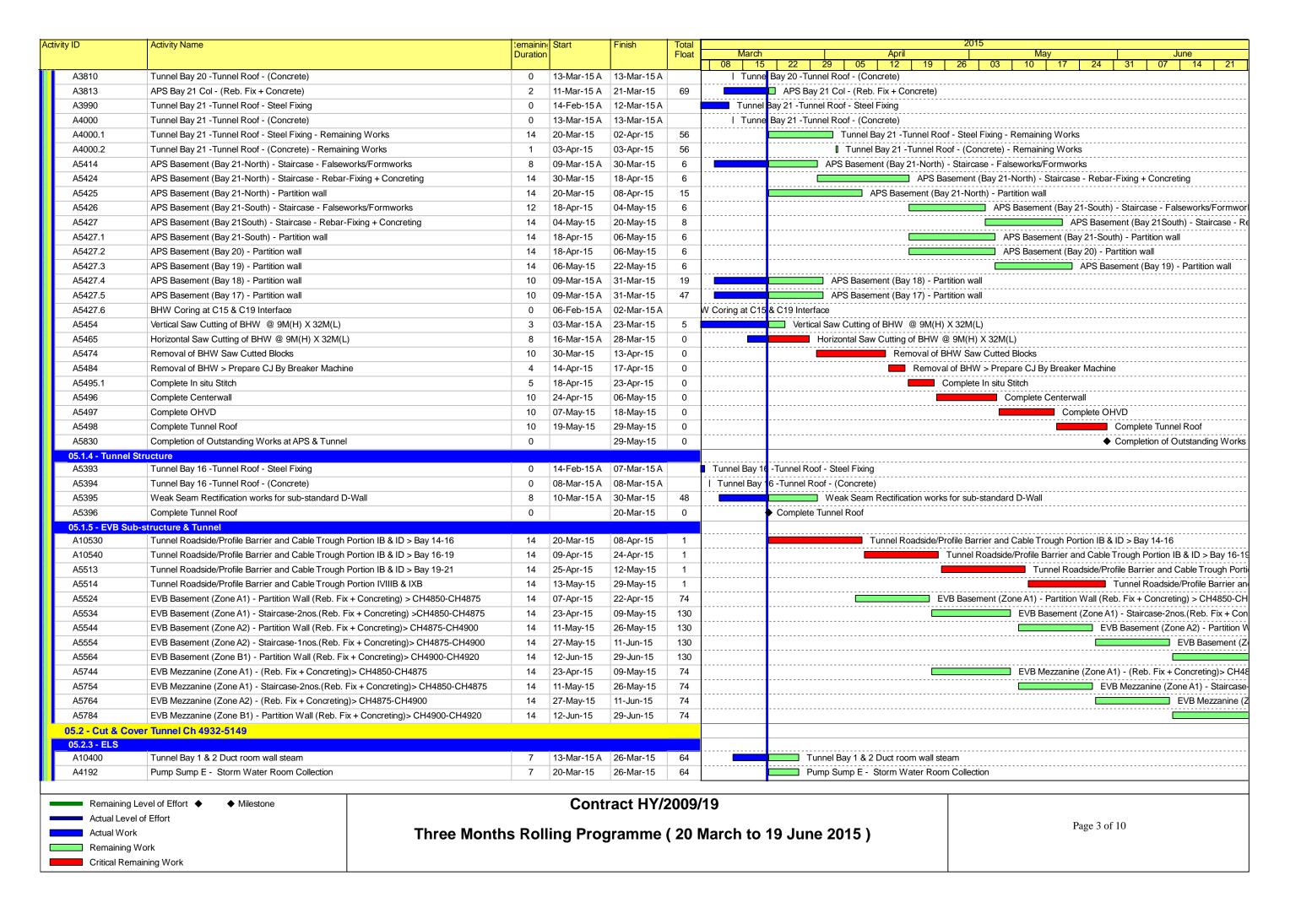
	T HK/2009/01	OD	Start	Finish	Total	Predecessors	2011	2012		N WO			2014		2015
	Talling Talling				Float		MAMJJASOND	Qtr 1 Qtr 2 Qt J F M A M J J	3 Qtr 4 Qtr AS OND JF	MAMJJ	tr 3 Otr 4 AIS ON D	JFM A	MJ JAS	Qtr 4 C	FMAM
S4-1520	Connection to Existing Mains (S8B)	7	20-Mar-15	26-Mar-15	-207	S4-1510, TP-1210,			*****		1111		1111	titt	Tist Con
SB (OMASO) Sait Watermain	na & Bower	375	NAME OF	and American	-502	TP-1200, PRE-3200D									V 59 (
Testing and Commission \$4-2520	Connection to Existing Mains (S9)	7	20-Mar-15	26-Mar-15	507	S4-2510, PRE-3200E,									Test Con
Stormwaler Uminago		0				TP-1110									
	ovisioned Cooling Water Fumping Stations- forks in Area 7 & Pipe Pile Wall P2	0												mm	
	Cooling Water Discharge System (3 nos. Govt T	455	20-Jan-14 A	17-Jun-15	-241							V	++++	++++	
S6A-1100	Over CWB - CHBF (92m)	7	21-May-15	27-May-15	-	S3C-TS-2160, S9-1050					1111			HHI	1
S6A-1200	Zone X1-1 - CHBF (11m)	21	19-Apr-15	09-May-15*	-223	TTAM-X3-1030A, TTAM-X3-1000A, S4-1000									
S6A-1210	Zone X1-2 - CHBF (5m)	21	19-Apr-15	09-May-15*		TTAM-A4-1120B					HIII			1111	1
S6A-1230	Zone X1-3 - CHBF (7m)  Zone X1-4A- CHBF (21m) & S3 (21m) Connection Point	21	02-May-15 20-Jan-14 A	22-May-15* 01-May-15		S S6A-1230 S TTAM-X3-1030A						-			
S6A-1240	Zone C3-1 - CHBF (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-236	TTAM-C3-1000A								1111	
Testing a Commissioning	. Act A.	21	27.4 Say 45	17-symate	-24										V
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. I S6A-2010									
S6A-2030A	Future Connection to Existing Mains (CHBF) at temporary water channel	7	11-Jun-15	17-Jun-15		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-3200O									
ection 6B of the Works -	Cooling Water Intake & Discharge System (Gre	344	22-Jun-14 A	17-Jun-15	-24	The state of the s							V		
S6B-1100	Over CWB - CHBG (92m)	7	21-May-15	27-May-15	4	1 S3C-TS-2160, S9-1050			HIIII			1111	1.1	1111	
S6B-1220	Zone C3-1 - CHBG (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-23	6 TTAM-C3-1000A									
S6B-2000	CCTV & Pressure Test of CHBG	7	28-May-15	03-Jun-15	-24	1 S6B-1020, S6B-1220,									
305-200	DOTY ATTESSUE FEST OF DELLA	1	LO may 10	oo our to		S6B-1200A, S6B-1210, S6B-1200, S6B-1020A, S6B-1000, S6B-1010,									
S6B-2010	Cleaning & Sterilization of CHBG	7	04-Jun-15	10-Jun-15	-24	S6B-1030, S6B-1050, 1 S6B-2000									
S6B-2020A	Future Connection to Existing Mains (CHBG) at temporary water channel	7	11-Jun-15	17-Jun-15		1 S6B-2010									
S6B-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Maln	0		17-Jun-15	-24	1 S6B-2020A, PRE-3200					HIII				
section 6C of the Works -	Cooling Water Discharge System (China Resou			17-Jun-15	-24							1111		0111	
S6C-1100	Over CWB - CHBI (100m)	7	21-May-15	27-May-15	_	1 S3C-TS-2160, S9-1050 6 TTAM-C3-1000A						1111		11111	
S6C-1600	Zone C3-1 - CHBI (16m) Test and Connection Poin	t 60	22-Jun-14 A	22-May-15	-23	6 1 IAW-03-1000A				<b>₩₩</b>		444	+		
Transport Commercial	w .	1.000	1 Sallation				3 3 3 4 3 4 3 3 4	1 101 101 1 10							1
Remaining Work	Summary			C	EDD C	ONTRACT NO. HK/2	009/01				Pag	e: 6 of 8			
Actual Work	Summary Bar		Wan Chai D	Development F	hase I	I - Central-Wan Chai E	Sypass at HKCEC (Co	ntract 1)							
Summary Bar  Critical Remaining Work			WORK BRO	OCDAMME D	OV SE	3mths Rolling Program	me (Data Date on 20	-Feb-15)							

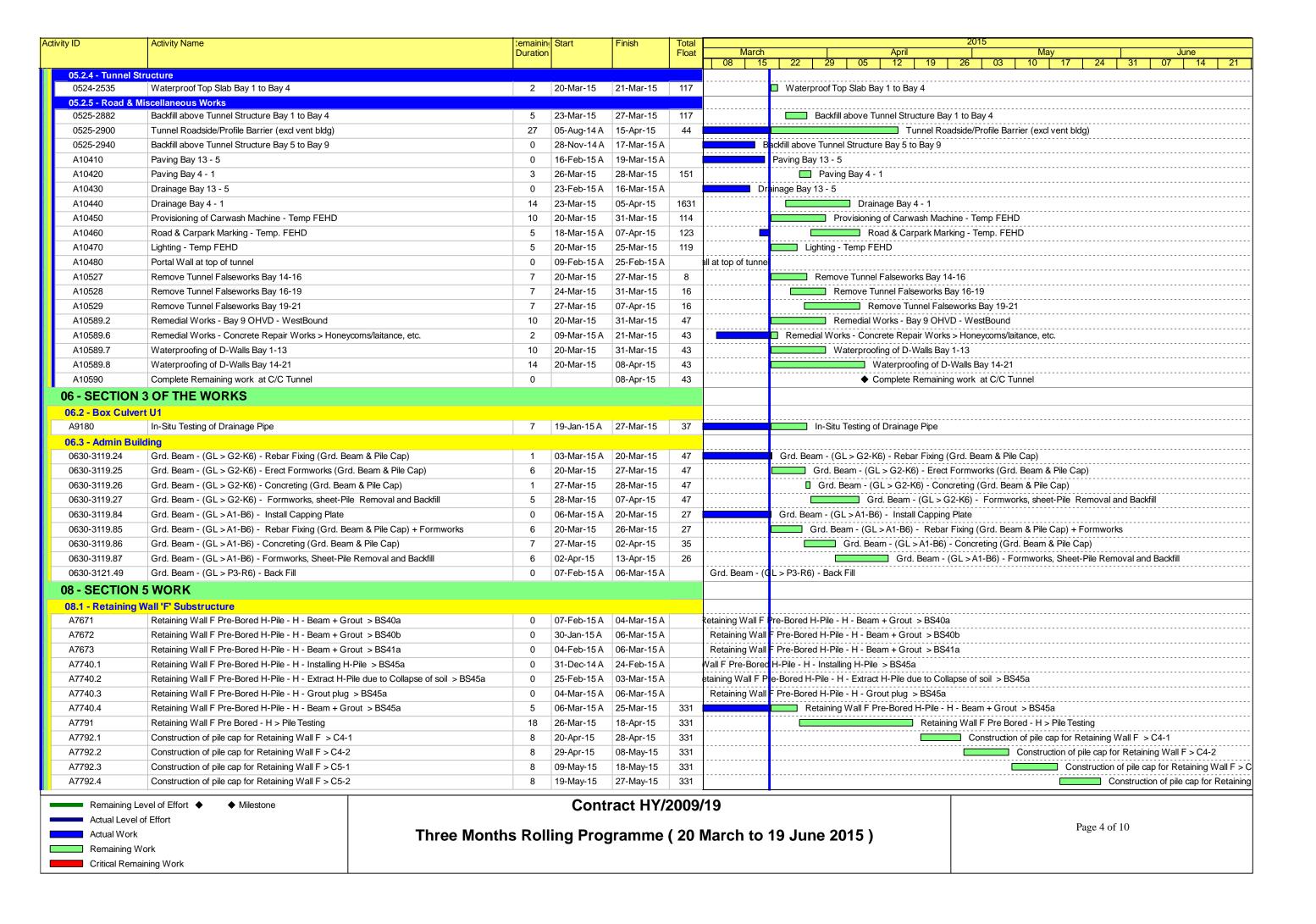
	Activity Name	TOD	Start	T (1)-1-1-	1	ll a				2.2.03	HUN V				II41 A
	- Complete and the comp	00	Start	Finish	Tota Floa	Predecessors	20   Qtr 2	Otra I Otra	Qtr 1 I Qtr	2012   Qtr 3   Otr	Qtr 1   Qtr	2013 2   Otr 2   Co	A 0-11	2014	
S6C-2000	Pressure Test of CHBI	7	28-May-15	03-Jun-15	-241	S6C-1030, S6C-1600, S6C-1040, S6C-1100,	MAMJ	JASOND	JEMAM	JJASON	DJFMAM	JJASO	JD JFM	AMJ JA	SOND J
						S6C-1020A, S6C-1020A, S6C-1020,	1111					111111		11111	1111
S6C-2010	Cleaning & Sterilization of CHBI	7	04-Jun-15	10-Jun-15	-241	S6C-1050, S6C-1300, S6C-2000	1111	111111				HHH			
S6C-2020A	Future Connection to Existing Mains (CHBI) at temporary water channel	7	11-Jun-15	17-Jun-15		S6C-2010	1111					HIII			1111
S6C-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	PRE-3200Q, S6C-2010, S6C-2020A, S6C-2000,									
ommon Works for Sec	ctions 6A, 6B & 6C	30	22-May-15	21-Jun-15	420	TP-1330	44.44								
Distrikumps Guttall Com-	Notation	0	SELEN IF	Er durints	HEU		1111	HIIII							
S6-1030	Connection of the Completed Cooling Mains to Precast Outfall Unit	0		22-May-15	-250	S6C-1600, S6A-1240,									
S6-1040	Reinstatement of Existing Seawall after Connection	30	23-May-15	21-Jun-15	420	S6B-1220, S6-1010 S6-1030									
ction 7 of the Works	- Trial Bored Piles in Area 5	0		31,320,19		00-1000									
ADMS Installation	The policy lives and the same	U	_	_	0		IIII		11111					11111	
Trial Borod (Illina		10			- 3							THIT	TIII	mit	Him
Testing & Commission		0			- 0										
ction 8 of the Works -	Works in Area 6 (Utilities other than Watermains	583	10-Jan-14 A	22-May-15	-228										
S8-1030	Zone A3-5D & A3-4D	23	10-Jan-14 A	19-Mar-15	-228	TTAM-A3-1020									
S8-1040	7000 40 00				220								1111	1111	1111
S8-1050	Zone A3-2D Zone A3-2D	23	19-Mar-15	26-Apr-15		TTAM-A3-1040				HHHH				1111	
S8-2500	CCTV Survey	23	26-Apr-15	15-May-15		TTAM-A3-1060	1111		11111				1111		
\$8-3000	Connection with Upstream Existing Manhole & Abandon Used Pipe	7	15-May-15 16-May-15	16-May-15 22-May-15		S8-1000, S8-1050 S8-2500									
ction 9 of the Works -	Remaindar of the Works	214	07-Sep-14 A	21-Jul-15	000				11111		ШШ				
Spe Duhen Construction	an .	MAD	Transfer IAM	Z Indul-15	390	0							Tiii		
S9-1030	Construction of Precast Bay 1	76	25-Sep-14 A	03-Mar-15	-208	DW3-1020AA.									
S9-1040A	Installation of Sheet Pile / ELS and Construction for	180	07-Sep-14 A	20-Apr-15	120.21	EDE-1010A S3C-FW-1040B									
S9-1040B	Bay 7	300		20.191-10	-220	W-1040B						11111			
33*1U4UB	Installation of Sheet Pile / ELS and Construction for Bay 2	180	11-Oct-14 A	20-Apr-15	1.00	S9-1040A, S3C-FW-1050E,									
S9-1050	Construction of Bay 3 to Bay 6 incl. top slab	75	20-Jan-15 A	05-May-15	-	S9-1030 S9-1020, S3C-TS-1100,			4444.						
S9-1060	waterproofing works  Permanent Diversion of Storm Water to New	100	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO	IRAC JIMA VATAJI		S9-1010									
	Provided Box Culvert	5	06-May-15	10-May-15	107	S9-1050							11111		
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		02	E1 May-16	D-AFIG	30										
1900	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								11111	
S9-2000A	Permanent UU Connection/Change Over	60	21-May-15	20-Jul-15	-	S3C-TS-2160			4-1-4-1-4	4444	44414		1.1.1.1		
S9-2010	Construction of New Road and Surface Drainage	45	07-Jun-15	21-Jul-15		S9-2000							11111		
Manwonia in Arta E	the state of the s	Alei	09-M - TA /	Objects in	1000										
S9-5500A	SSA 6 (SSB)	31	-39 Mary 15	Heat Mary											
59-5500A	Zone X1-1 - S3 (5m)	0		09-May-15	-201	S6A-1200							11111		
Remaining Work	Summary			CEI	DD CO	NTRACT NO. HK/2009	01					Pos	7 01 0		
Actual Work	Summary Bar		W 0-15									rag	je: 7 of 8		
Summary Bar			wan Chai De	elopment Pha	ase II -	Central-Wan Chai Byp	iss at HK	CEC (Contr	act 1)						
Critical Remaining Work						ths Rolling Programm									
Milestone				TANIMINE DEV	OL SI	inis noming Programm	Data D	ate on:20-Fe	BD-15)						

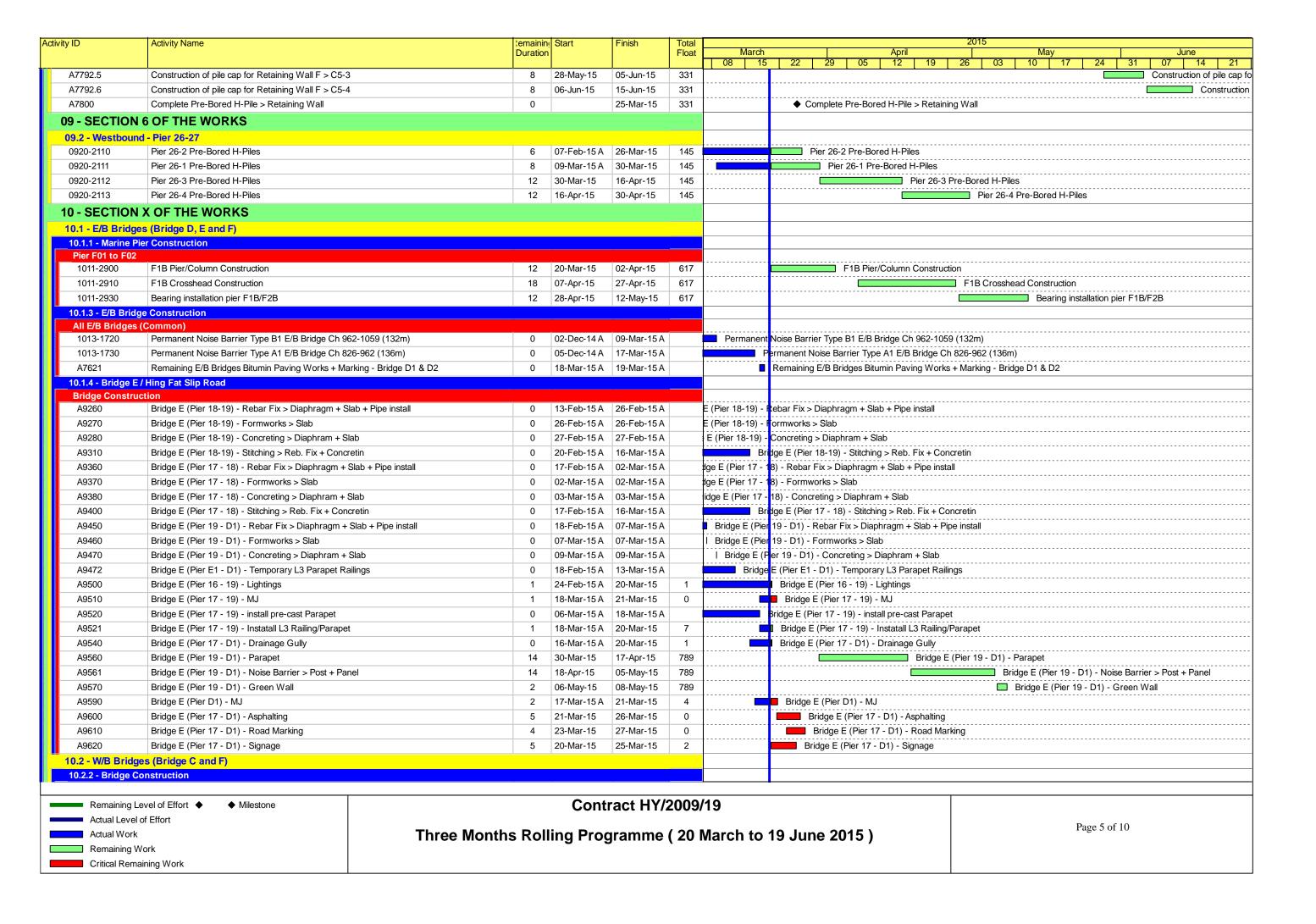
\$9-5500B \$9-5500C \$9-5510 \$9-5530 \$9-5540 \$9-5550 \$9-5600	Activity Name  Zone X1-2 - S3 (5m)  Zone X1-3 - S3 (5m)  Over CWB - S3 (92m)  Pressure Test of S3	0 0	Start	3 434:	Total Predecessors Float	Qtr 2   0	Qtr 3 Qtr	4 Qtr 1	Qtr 2	Ctr 3	Qtr 4	QIT 1 Q	tr 2 Q	ASO	ND J	JIF 1 (	AMJ	JAS	Otr 4	JIFI	MAIL
\$9-5500C \$9-5510 \$9-5530 \$9-5540 \$9-5550	Zone X1-3 - S3 (5m) Over CWB - S3 (92m)	0				MAMJ	MAISICIT	UJJE	MW	0 0		all trade									MININ
\$9-5510 \$9-5530 \$9-5540 \$9-5550	Over CWB - S3 (92m)			09-May-15	442 S6A-1210	_ 1111	1111	1111	111	1111	1111		111		11						4 X X
\$9-5540 \$9-5550				22-May-15	429 S6A-1220	-41111	1111	HIII	111	1111						111	111	11	111		113
\$9-5540 \$9-5550	Pressure Test of S3	0	20.11	27-May-15	79 S6A-1100	- 11111	1111	1111	111	1111	1111	1111	111	111	11	111	111	11	111		1 1
S9-5550		7	28-May-15	03-Jun-15	424 S9-5500A, S9-5500D, S9-5500C, S9-5500B, S9-5510, S9-5520																
	Cleaning & Sterilization of S3	7	04-Jun-15	10-Jun-15	424 S9-5530													ii.	Ш		
S9-5600	Connection to Existing Mains (S3)	7	11-Jun-15	17-Jun-15	424 PRE-3200C, S9-5540		1111	7777	3.1.1.	1111		1111	111	111		111	111	11	111		115
	Over CWB - S5A (30m)	20	27-May-15	12-Jun-15	79 S9-5510 ·		1111	1111	111	1111		1111		111			111	11			12
59-5610	Pressure Test of S5A	7	13-Jun-15	19-Jun-15	65 S9-5600		1111	1111	111	1111	1111	1111	111	111	11	111	111	11	111		111
S9-5700	Over CWB - S5B (30m)	20	27-May-15	12-Jun-15	79 S9-5600	_ 1111	1111	1111	111	111	1111	1111	111	111		111	111	11	111		1 1
S9-5710	Pressure Test of S5B	7	13-Jun-15	19-Jun-15	65 S9-5700	-1-1-1-4	1-4-1-4	4-4-4-1	4-1-4-	· · · · · ·	}-jjj-	4.1.4.				1.	+14		444	ode di	1
S9-7000	One OWD ES (100m)	0	DESCRIPTION OF THE PERSON OF T	27-May-15	503 S6A-1100		1111	1111	111	111	1111		111	111		111	111	11	111		
S9-7000 S9-7010	Over CWB - F3 (100m) Pressure Test of F3	7	28-May-15	03-Jun-15	424 S9-7000, S9-7040,		1111	1111	111	111	1111	1111	111	111	11	111	111	::	111		1
35-7010	Pressure rest of Po		20-may-13	00-001/10	\$9-7050, \$9-7070, \$9-7060																
S9-7020	Cleaning & Sterilization of F3	7	04-Jun-15	10-Jun-15	424 S9-7010	11111	1111	1111	111	111	1111	1111	111	11		111	111	11	111		1
S9-7030	Connection to Existing Mains (F3) at Zone C1-3	7	11-Jun-15	17-Jun-15	424 S9-7020, PRE-3200C		1111	1111						11			111	11	111		11
59-7040	Zone X1-1 - F3 (5m)	0		09-May-15	442 S6A-1200		++++	1111	111	TTT	titi	TIT	ti	Ti	111	111	111		111		1 4
S9-7050	Zone X1-2 - F3 (5m)	0	-	09-May-15	442 S6A-1210	11111	1111	111	111	111		1111		11		111	111		111		0.0
S9-7060	Zone X1-3 - F3 (5m)	0		22-May-15	429 S6A-1220		1111	1111		111		1111		11	111	111	111	11	111		13
\$9-7070	Zone C1-5, C1-7 & C1-9 - Expo Drive East - S3 (20m)	0		27-May-15	503 S6A-1100					III											
ction 11 of the Works - S	CL Protection Works	0			0		1111					111		.1.1.		111			111		11
Foundation Works		01			Λ.		1111			TIT				11	111	111			111		
Ensevation Works		10-			N Comments		1111	3111	1111	111	1111	111		111		111	111		111		
Structural Works		100				1111	1111	3 1 1 1	1111	111	Hill	111				111	111	11	111		
ction 12 of the Works - V	Vorks in Area 10 (other than Section 4)	40	24-Nov-14 A	31-Mar-15	-32		1111	3 1 1 1	1111	111	1111	111			111	111	111				- S
VO106-1000A	Backfilling for Klu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-32 VO106-1000																В
ction 13 of the Works - V	Vorks in Area 11 (other than Section 11)	40	24-Nov-14A	31-Mar-15	-32	11111	1111	1-1-1-	1111	-1-7-1	2721	717			117	1			V		-
S13-3000	Completion of Backfilling to +5.0mPD	0	- Committee Comm	20-Feb-15	8 VO106-2000	- 1111	1111	111	1111	111	1111	111	111	111		111	11	111			Com
VO106-2000A	Backfilling for Klu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-32 VO106-2000														1		В
	andscape Softworks in Areas 2 & 4 Establishment Works in Areas 2 & 4	0			0																
ction 9A of the Works - L	andscape Softworks in Area 9	180	20-Feb-15	18-Aug-15	-3	1111	1111	111		111	1111	111		111	111	111			111	1	
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	20-Feb-15	18-Aug-15	-3 PRE-2130, PS-P4, EDE-1050																П
ction 9B of the Works -	Establishment Works in Area 9	0			0		1111	111		111	1111	111		111		111	11	111			111
ection 10 of the Works - F	Protection and Preservation of Existing Trees	0			0	1111	1111	111	1111	111	41.6	111	111		111	111	: :	: : :	100	(44)	113
Remaining Work Actual Work Summary Bar	Summary Bar		Wan Chai D	C evelopment F	/2009/01 ai Bypass at I	HKCEC (	(Contrac	ot 1)						Page	: 8 of 8	8					

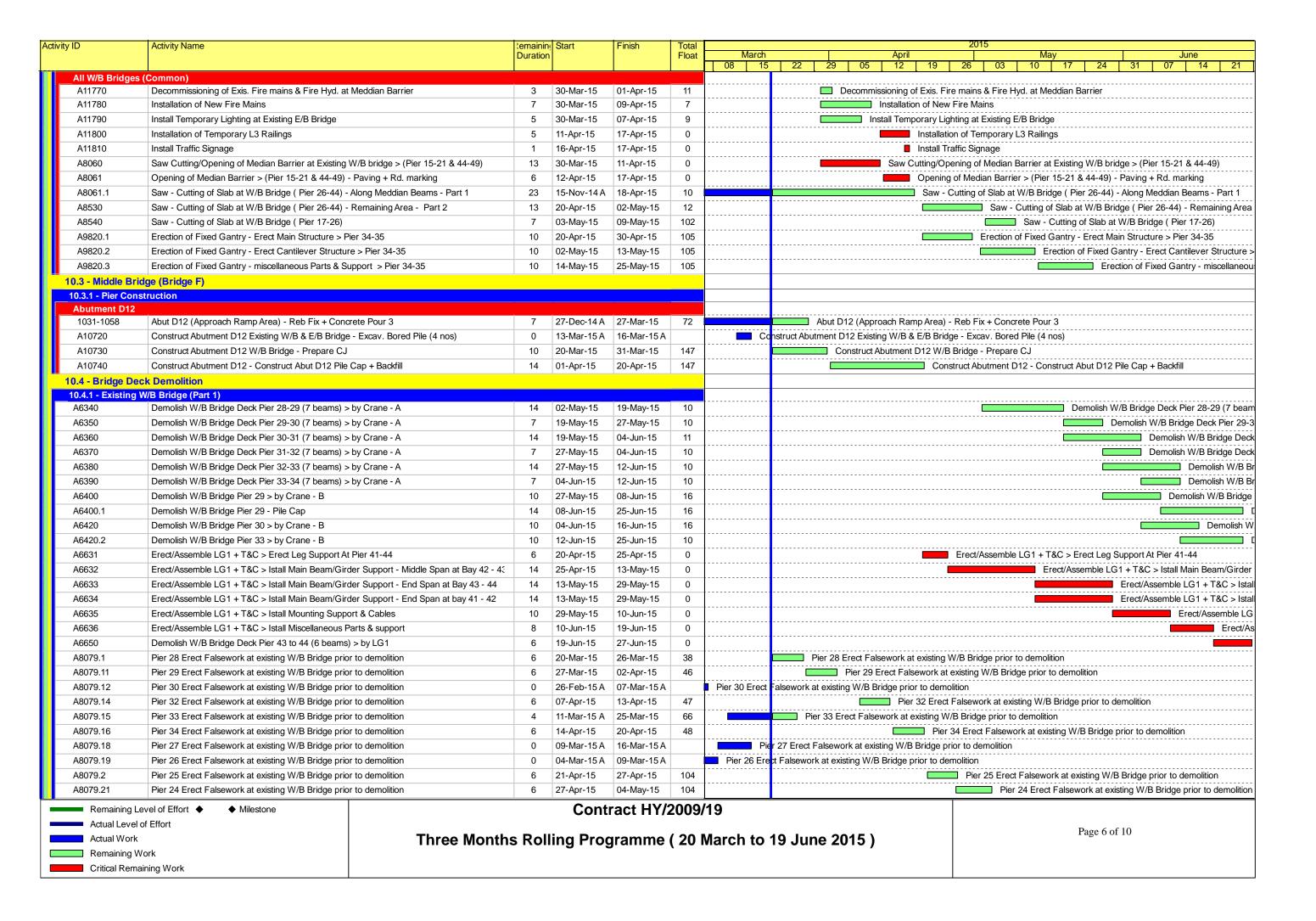


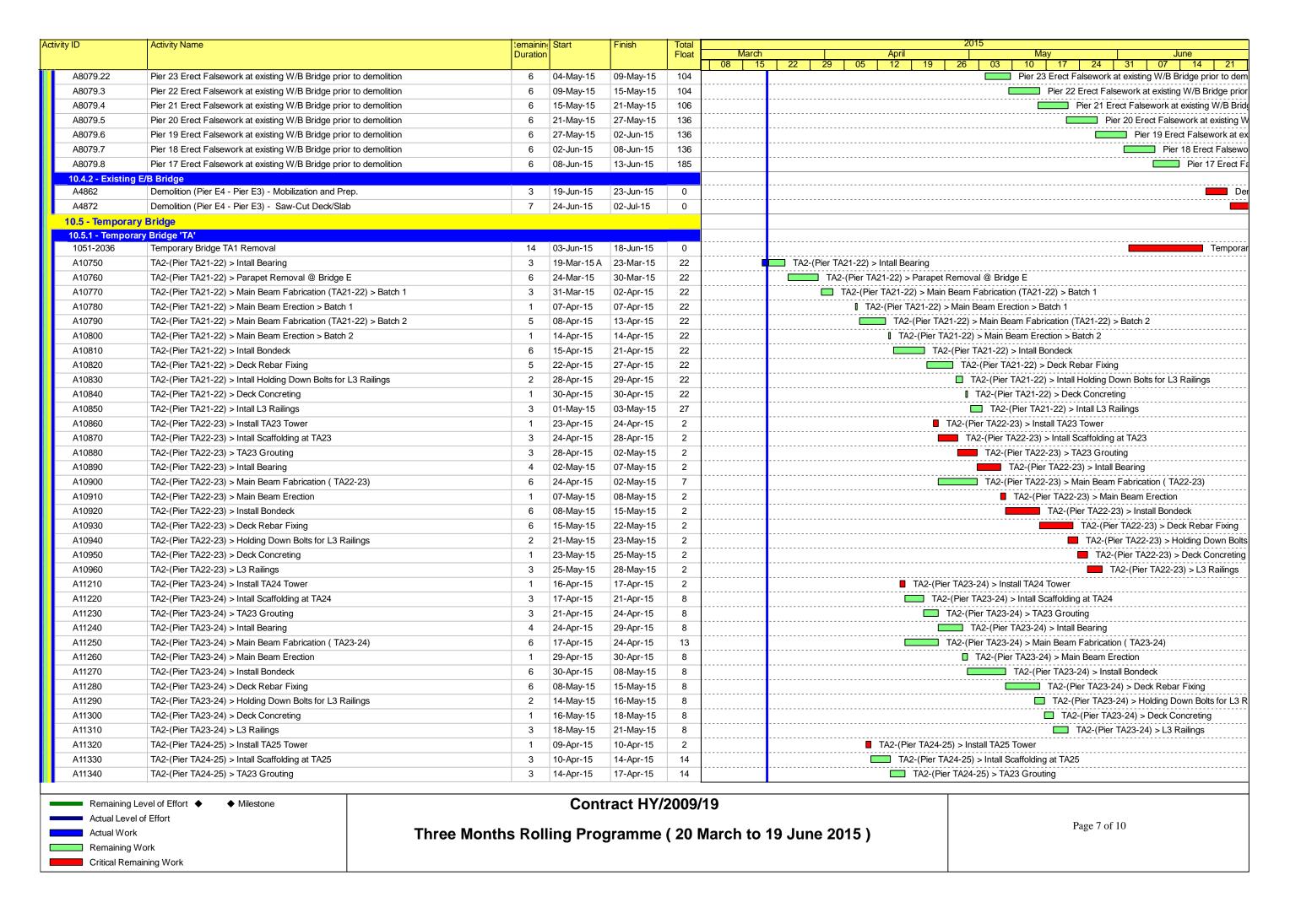


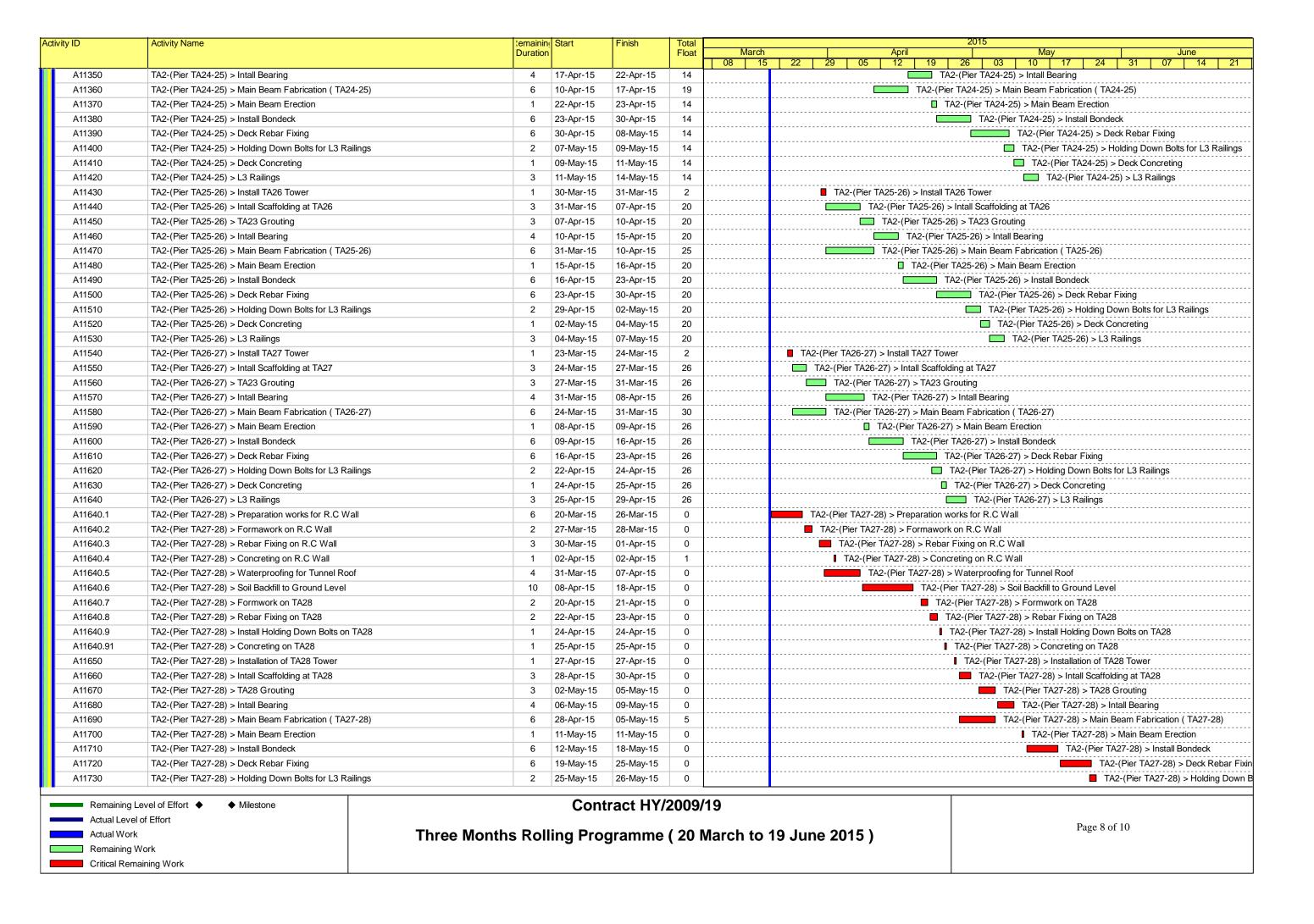


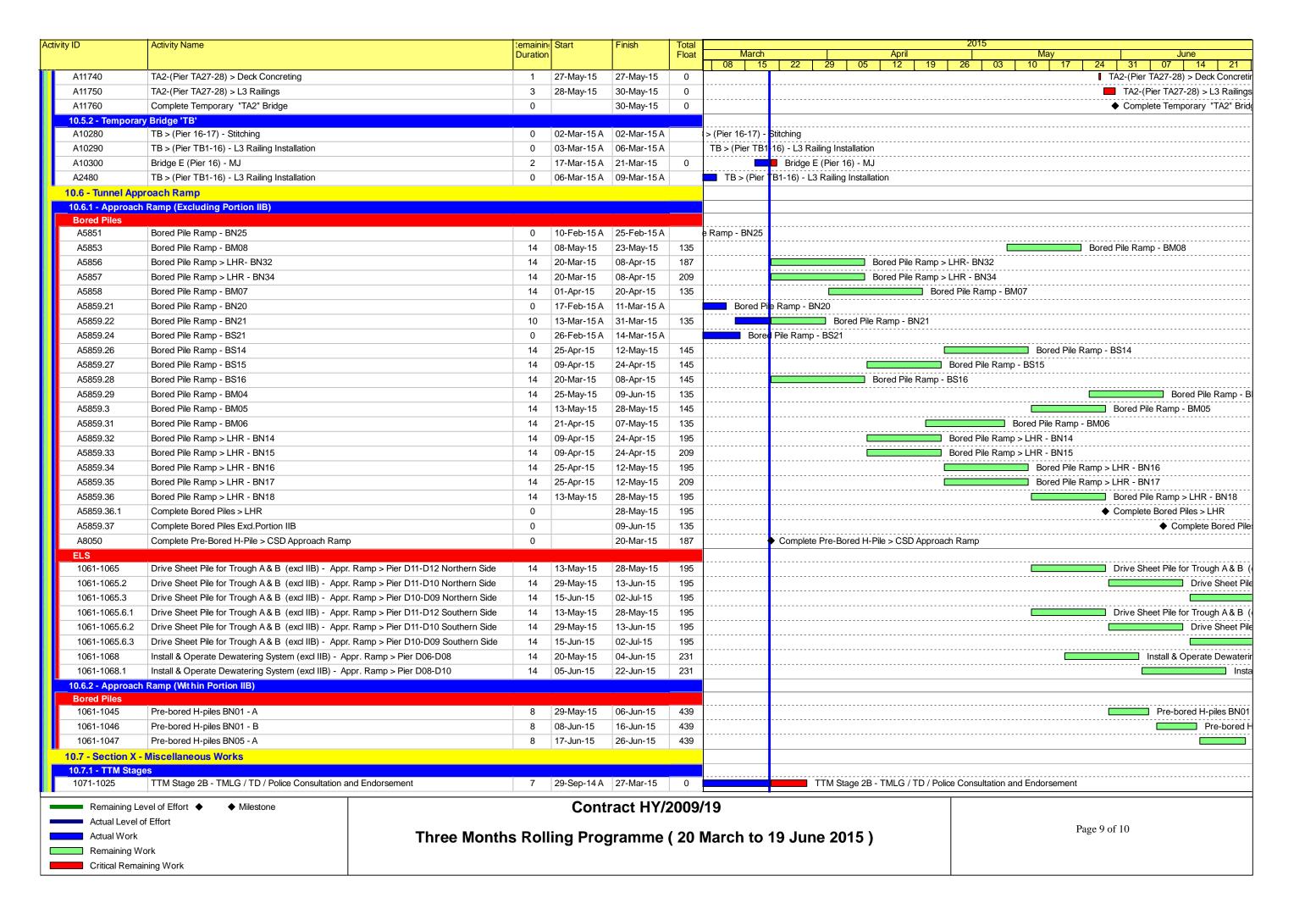












Activity ID	Activity Name	temainin	Start	Finish	Total								201	15							
,			า		Float	March				April				May				June			
						08 15	22	29	05	12		19	26	03	10	17	2	24 3	07	14	21
1071-1030	TTM Stage 2B - TTM Enabling Works	2	28-Mar-15	29-Mar-15	0			TTI	M Stage 2	2B - TTI	M Ena	bling W	Vorks	-				-	-		-
1071-1040	TTM Stage 2B - Divert 3 Lanes to E/B Bridge through 'Bridge From Pier17 to Pier D1'	0		29-Mar-15	0			♦ TTI	M Stage 2	2B - Div	ert 3 L	anes to	o E/B B	ridge th	rough 'E	ridge Fro	om Pie	r17 to Pie	r D1'		
1071-1041	TTM Stage 2B1 - TMLG / TD / Police Consultation and Endorsement	29	20-Mar-15	17-Apr-15	0						<b>T</b> T	M Stag	ge 2B1	- TMLG	/ TD / F	Police Co	nsultat	tion and E	ndorsem	ent	
1071-1042	TTM Stage 2B1 - TTM Enabling Works	2	18-Apr-15	19-Apr-15	0						_	TTM S	Stage 2	31 - TTI	И Enabli	ng Works	S				
1071-1043	TTM Stage 2B1 - Use Existing E/B Lane to Divert 4 W/B Lane	0		19-Apr-15	0						•	TTM S	stage 2	31 - Use	Existing	E/B Lan	ne to D	ivert 4 W	/B Lane		
1071-1045	TTM Stage 2C - TMLG / TD / Police Consultation and Endorsement	71	24-Mar-15	02-Jun-15	0														TTM Sta	ge 2C -	TMLG /
1071-1046	TTM Stage 2C - TTM Enabling Works	2	01-Jun-15	02-Jun-15	0													_	TTM Sta	ge 2C -	TTM En
1071-1047	TTM Stage 2C - Hing Fat Slip Road Divert 4 Lanes to New E/B Bridge through 'TA2' to Rel	0		02-Jun-15	0													•	TTM Sta	ge 2C -	Hing Fat

3-0					La	ayout: CWB - Wo	rking Layo	ut for DWP Rev M								Date Pri	inted 26-Sep-1
ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float					015				2016	
Y/2009/1	5 - Works Pro	gramme Rev. M (DD:20-Sep-12	1			-	1000	Q4		Q1	Q2	Q3		Q4	Q1	Q2	Q3
		Adit - Based on Alternative Meth															
	ent of Breakwater	A STATE OF THE OWNER,	od														
						V.01-11											
S3_54840	Reinstatement wo	100.00000000000000000000000000000000000	7d/wk-1	60d	21-Feb-14 08 A		-85d	Reinstatem	ent works	-west side							
S3_60085	Reinstatement wo	orks east side	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d	Reinstatem	ent work	east side						1	
S3_54845	Completion of Sec	ction 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	0d		30-Sep-14 18	-86d	Completion	of Section	n 3 (KD8) in EV	A Area (Alterna	tive Method)					1
Vorks in T	S1/TS2 - OHVI	D and Cable Trough/Maintenance	Walkway		-	5.		100									1
rs2 - OHVD	and Cable Trough	/Maintenance Walkway															
OHVD Slab a	and Cable Trough C	Construction											-				
S3_6210	TS2 - OHVD/ Cab	ble trough	7d/wk-1	40d	20-May-14 08 A	30-Sep-14 18	-85d	TS2 - OHV	D/ Cable	trough							
S3_6212	Completion of Sec	ction 3 - TS1/TS2 Area (below-6mpd) KD8)	7d/wk-2	0d		30-Sep-14 18	-86d	Completion	of Section	n 3 - TS1/TS2/	krea (below -6n	npd) KD8)					
Vorks in T	S4/ME4 Area (	Portion 14A, 14B, 15, 23)			- 1				-		0. 22, 0.00. 20		-				1
	temoval of Tempor	McDate- Arghentingerer							-								1
	Works at TZ6	ary recommunity										-					
										1							
	eawall and Reclama																
A-2010	Installation of seav	wall blocks (Qty: 245 nos.)	7d/wk-2	6d	15-Sep-14 08 A	26-Sep-14 18	-332d	Installation of	of seawall	blocks (Qty: 24	5 nos.)						
A-2020	Soil Backfilling up	to -2.45mPD (Qty:3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d	I Soil Backfillin	ng up to -	2.45mPD (Qty:3	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	allation for	Mined Tunnel			1				
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	1 Soil backfillin	ng up to g	round level (Qt	y:2,000 cu.m.)		1				
A-2050	Site dearance		7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d	Site dearar	nce	1							
A-2060	Handover to MTR	3	7d/wk-2	Od		30-Sep-14 18	-305d	Handover t	O MTR	1							
Removal of	Temporary Reclama	ation at TS4/ME4		1					-	- 1			+		-		1-
Stage 5 (2c	ones A, D & F - TS4-	-D33 to B-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	ontal cutt	ng (Oty: 62 pcs	1		į				
	one C - P4, ME4-D12		7.550			-0.500 (0.7)				og (my) og pa	7						
			70.40													Î	
A-3011	(Zones C )	f temporarly reclamation and seawall blocks	7d/wk-2		31-Aug-14 08 A	02-Oct-14 18	-353d			emporarly reclar		wall blocks (Zo	nes C )				
A-3030	D-Wall vertical cu	itting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall ve	rtical cutt	ng (Qty: 15 pcs.	.)					1	
A-3040	D-Wall horizontal	cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d	D-Wall h	orizontal	cutting (Qty: 20	pcs.)						
Summa	ary Bar	1 of 18								Prep	ared by William	Caluza					
Actual L	Level of Effort	China Sta	te Constru	ction En	gineering (Hon	g Kong) Ltd			Date 26-Sen	1st submission	Revision	Checked	Approved				
Actual V							. 200.22	201000	20-Sep	Tat additiiSSX	AT.			.000	中國建築	工程(善港	)有阻公
	ing Work Remaining Work	Contract No. HY/2009/15 - Central	Wan Chai E	By Pass -	Tunnel ( Cause	eway Bay Typ	hoon Sh	elter Section)						DOUGO	CHINA STATE CONSTI	RUCTION ENGINEERIN	G (HONG KONG
	Vernaming AADLK		MODICO	DDOCD	AMME REV.												

ty ID	Activity Name		Calendar	Original Duration	Start	Finish	Total			20	115			2016	
Stanp 7 /2m	nes C & F . ME4.Do	6 to D01, SCL1 & TS4-D251		Duranon			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
															1
A-4000	Marine removal of (Zones C & E)	temporarly reclamation and seawall blocks	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine remova	of temporarly re	clamation and seav	vall blocks (Zone	sC&E)			
A-3090	Hole coring (Qty: 4	4 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty	44 nos)						
A-4010	D-Wall vertical cut	ting (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d	■ D-Wall vertice	cutting (Qty: 27	pcs.)					
A-4020	D-Wall horizontal of	outting (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 (Zo	ne I - TS4-D01 to TS	4-D08)										1			-
A-3050	Remaining remova	al of temporary reclamation (Zone I)	7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 18	-342d	Pamainian rama	val of tames area.	an elemention (7 and					
A-3060								1		reclamation (Zone	1)	1		1	
	Hole coring (Qty: 2		7d/wk-2	5d	02-Oct-14 08	06-Oct-14 18	-342d	Hole coring (Q	y: 25 nos)						1
A-3070	D-Wall vertical cut	ling (Qty: 14 pcs.)	7d/wk-2	3d	07-Od-14 08	09-Oct-14 18	-342d	D-Wall vertical	cutting (Qty: 14 p	pcs.)				0.00	1
A-3080	D-Wall horizontal o	cutting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d	D-Wall hore	zontal cutting (Qt	y: 24 pcs.)					
Stage 8 (Zoi	nes 6 & K-TS4-D2	4 to TS4-D15)		-										1	
A-4040	Relocation of RHK	YC floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d	Relocation of RH	KYC floating pont	toon					į
A-4050	Hole coring (Qty: 2	7 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d	Hole coring (Qt	r. 27 nos)						1
A-4060	Marine removal of	temporary reclamation and seawall blocks	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine rem	oval of temporary	reclamation and se	eawall blocks (Zo	ne G & K)			1
A-4070	(Zone G & K) D-Wall vertical cutt	ting (Qty: 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d		tical cutting (Qty:		1				
A-4080		outting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d							*	
	one J - TS4-D09 to 1	26,000	7 W W 2	74	20-04-14-00	01-1400-14 16	-3520	D-yvaii no	rizontal cutting (C	(ty: 25 pcs.)				5	
Stage 10 (Zo	one a - 154-Dus to 1	(54-1/14)													
A-4090	Land removal of te	emporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d	Land remova	of temporary re	clamation (Zone J)				ì	
A-5000	Hole coring (Qty: 3	2 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d	Hole coring	(Qty: 32 nos)						
A-5010	Marine removal of	temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d	Marine rer	noval of tempora	ry reclamation (Zor	ne J)				
A-5020	D-Wall vertical cutt	ling (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d	D-Wall v	ertical cutting (Qt	y: 20 pcs.)					
A-5030	D-Wall horizontal c	cutting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d	D-Wall	orizontal cutting	(Oty: 26 nes.)					1
Stage 13 - Ph	nase 3 Mooring				111111111111111111111111111111111111111	1000000				, -, -, p-,					
A-5050	Final trimming of se	ea bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d	Final trim	ming of sea bed I	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 e	xisiting seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d	Reinst	tement of exisitin	g seawall (Zones I	& J)				
Stage 12 - Re	e-provisioning of Je	itty													
S6_5258		e Crane (until permanent re-provision of Jetty	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d		Provision of Me	obile Crane (until pe	ermanent re-prov	rision of Jetty is	completed)		
A-6010		d consent for commencement of	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submissi	on and consent fo	or commencement	of superstructure				
2.21.	superstructure	2 of 18			0.0						5.5	1		<u> </u>	1
Summar	ry Bar evel of Effort	150						- D	ate	epared by William ( Revision	Checked Ac	proved			
Actual V		China Sta	te Construc	tion Eng	gineering (Hong	Kong) Ltd			Sep 1st submis		The state of the				
Remaini		Contract No. HV/2000/45 Contract	Man Chai D	, Dann	Tunnel / Cours	way Day To-	hoor Ch	alter Continu				.010		工程(香港)	
	ng vvork Remaining Work	Contract No. HY/2009/15 - Central \	van Chai B	y Pass -	runner ( Cause	way Bay Typi	ioon She	elter Section)				0500	CHINA STATE CONSTR	UCTION ENGINEERING	HONG KONG
		1	NORKS	ROGE	AMME REV.	M									
<ul> <li>Milestone</li> </ul>		1	- UNITO F	. LOUN	THE V.	144									

ID	Activity Name	Calendar	Original	Start	Finish	Total				2015		_	elle -	2016	
A 8012	O. Analisai and A. Analisai an		Duration			Float	Q4		Q1 Q2	Q3		Q4	Q1	Q2	Q3
A-6012	Submission of performance report	7d/wk-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d	Submis	ssion	of performance report	1	-			-55	QU
A-6020	Erection of working platform for jetty beams and reinstate the floating portoon	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d	■ Ered	ction	of working platform for jetty beam	and reinstate	the floating	portoon			
A-6040	BA10 submission for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d	I BA1	10 sul	bmission for authorized signatory a	and subcontrac	tor				
A-6030	Jetty beams construction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d	<b>=</b> J	Jetty b	peams construction		1				
A-6052	Construction of floating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d		Cor	nstruction of floating pontoon	Ē	II.				
A-6050	BA13 submission + 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d	_		BA13 submission + 14-day cube te	est results					
A-6060	E&M and accessories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d		8	E&M and accessories installation	Ē					
A-6070	Handover to RHKYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d			Handover to RHKYC						1
Stage 11 - Cons	struction of TZ4							-							
A-6080	South side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	Court vide								
						1	The state of the s		ng rockfill and levelling stone (Qty.						
	South side - install seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Od-14 18	-339d			tall seawall blocks (Qty: 255 nos.)						
	South side - general fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Od-14 08	13-Oct-14 18	-339d	South side	e - ge	eneral fill (Qty: 2,000 cu.m.)						
A-7010	North side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d	North	side -	- laying rockfill and levelling stone	(Qty: 1,550 au	.m)				
A-7020	North side - install seawall blocks (Qty. 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d	■ Norti	h side	- install seawall blocks (Qty: 255	nos.)					
A-7030	North side - general fill (Qty:2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	1 Nort	th side	e - general fill (Qty:2,000 cu.m.)						
A-7040	Handover to contract TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d	1 Han	idove	r to contract TS3/SR8						
TS4/ME4, Remo	oval of Temporary Reclamation		-					-		-	-				
526875	Completion of Section 2 (With ME4 option) (KD7)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mplet	tion of Section 2 (With ME4 option	(KD7)					
S26890 (	Completion of Section 7B (ME4) (KD13)	7d/wk-2	Od		17-Nov-14 18	-353d	1	1	tion of Section 7B (ME4) (KD13)		Ť				
S4 - OHVD / C	able Trough							-			-				
S5_6185	TS4 (incl, TS4+) - OHVD Slab - Area C (access through temp.	7d/wk-1	36d	02-Jan-15 08*	00 Feb 15 10	4004				1					
	opening at TZ4)				06-Feb-15 18	195d		ı	TS4 (ind. TS4+) - OHVD	1	1				
	TS4 (incl. TS4+) - Cable Trough (access through temp. opening at TZ4)	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d	Įį.		TS4 (ind. Ts	S4+) - Cable Ti	rough (acce	ss through	temp, opening at	TZ4)	
S5_59850 C	Completion of Section 5 - TS4/ME4 Area (KD10), below -20mPD	7d/wk-2	Od		02-Nov-15 18*	0d		Ш			4	Comple	tion of Section 5 - 1	\$4/ME4 Area (KD	10), below -2
orks in TPC	CWAE Area (Portion 20A, 20B)							11							
ternoval of Ten	nporary Reclamation							1			-	_			
Removal of Tem	nporary Reclamation & Form TZ5					-	1	+		1					
S87870 F	Remove general fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove or	enera	Il fill /sea wall block						
S67675 E	Diaphragm wall saw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d			Ill saw cutting (1st D Wall cut on 2	lun 2014					
	Form TZ5	7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d			m serv coming ( rat to vival) cut on 2.	Sum Zu 14)					
~~~		/ GINNE!	100	20-3ep-14 00	14-00-14-16	-3040	Form TZ5				1				
Summary B								_	Prepared by William						
Actual Leve	China Stat	e Construc	tion Eng	ineering (Hong	Kong) Ltd			26-S	ep 1st submission	Checked	Approved				
Actual Work Remaining \	N							20.0	- Proceedings and 1			THE	中國運算	工程(香港)	有阻公
	[ Table   1   1   1   1   1   1   1   1   1	ran Chai By	Pass -	unnel (Cause	way Bay Typi	noon She	elter Section)					eance		UCTION ENGINEERING	
		VORKS P	ROGR	AMME REV	M										
<ul> <li>Critical Rem</li> <li>Milestone</li> </ul>	naining Work V	VORKS P	ROGR	AMME REV.	М								San Consta	Cilo	TO VOLITION OF

100	Activity Name	Calendar	Original	Start	Finish	Total			2	2015			2016	
S67685	Achievement of KD5	7d/wk-2	Duration		40.0	Float	Q4	Q1	Q2	Q3	Q4	Qt	Q2	Q3
Covers		/d/wk-2	Od		16-Oct-14 18	-323d	Achievement	of KD5	Į.					
S67687	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	DO		27-Oct-14 18	-322d	◆ Complete F	Reinstatement o	of Vertical Seawall (r	near PRE Office)			i	
Reinstate M	lucking Out Access Shaft "C"												_	-
S67240	Start reinstatement works (after completion of TPCWAW OHVD	6d/wk	0d	26-Mar-16 08	1	-102d							Start reinstate	
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								
S67230	Removal of vertical shaft and backfilling	7,17,17		LOUIS NAT	1	1	1		1				Cast slab	opening at top
		6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d								Removal of ve
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d								Reinstatemer
TPCWAE - C	DHVD / Cable Trough			- fire										
S5_7405	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	0d			1		TPCW	AE - Cable Trou	gh (access through	emp opening
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp.	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	0d								
S5_59840	opening at TZ5 & Portion 19)  Completion of Section 5 - TPCWAE Area (KD10), below	7d/wk-2	Od	-500	02-Nov-15 18*	Od	1						AT Area A (access	
	-20mPD	7 GIWK-2	ou		02-1404-15 16	Ud					◆ Compl	etion of Section 5	- TPCWAE Area (I	KD10), below-
Works in I	FPCWAW A rea													1
TPCWAW - 1	Temporary Reclamation						4							
Temporary F	Reclamation -						1					1		-
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d	■ TPCWAW -	place levelling s	tone and tamping, S	South side				
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d								
	nos. @ 50 nos/day)				1230120				block to +4 at Sout		s. @ 50 nos/day	2		
S6_9465	TPCWAW - place levelling stone and tamping, North side	7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	-122d	■ TPCWA	N - place levell	ing stone and tampi	ing, 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	TPCW	VAW - place sea	wall blocks to +4 No	orth side (Qty:672 n	os @ 50 nos/da	у)	ì	
S6_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Nov-14 08	01-Dec-14 18	-122d	TPC	CWAW - Genera	al fill to +2 within the	seawall			1	
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	■ TP	CWAW - place	seawall blocks to +4	at the temporary of	penina		1	
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall.	7d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d			maining General fill t					
	Diaphragm Wall	- 03,1103	1100		10 000 11 10	12.60		TOWNY - Ref	naming General nii	to +4 within the sea	was			1
Diaphragm 1	Wall						1							
S6_9385	Site investigation	7d/wk-1	49d	01-Dec-14 08	21-Jan-15 18	-113d	1	Site inves	tigation					
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d		Install gu	uide wall				1	į
S6_8955	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d		Curtain	grout along propos	ed dianhranm wall				į
56_9382	Set up bentonite silo/plants and equipments	7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18									
						-112d	II T	Set up be	ntonite silo/plants ar	nd equipments		177.2		1
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d	30-Jan-15 08	14-Apr-15 18	-141d			Diaphragm v	wall construction (34	panels @ 3 par	nels/ week)		
56_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			Install she	ar pins on diaphrag	m wall			
Summa	ry Bar 4 of 18							F	repared by William	Caluza	-		1	1
Actual L	evel of Effort China State	e Construc	tion Eng	ineering (Hon	a Kona) I td			ate	Revision	Checked App	roved			
Actual V	VOIK							Sep 1st subm	ission		ppr	中国連贯	平工程(春港	)有阻公
	ing Work Contract No. HY/2009/15 - Central W	an Chai By	Pass -	Tunnel ( Caus	eway Bay Typl	hoon Shelt	er Section)				ebute		STRUCTION ENGINEERIN	
Mileston		ORKS P	ROGP	AMME REV	М									

S6_9355 S6_8970 S6_9375	Install king posts	-	Duration			Float	0.4					_	-	2016	
		7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	1224	Q4	Q1	1	Q2	Q3	Q4	Q1	Q2	Q3
	Discharge Well Dis to d				2016-3926	-133d			_	Install king	g posts	1			
56_9375	Diaphragm Wall Pile test	7d/wk-1	40d	20-Mar-15 08	03-May-15 18	-129d	1			Diaphra	gm Wall Pile tes	t			
	Carry out contact/fissure grouting	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d	1			Carry out	contact/fissure g	routing			
TPCWAW- EL	.S Works						1		-						
ELS Works								-							
S6_9360	Install dewatering wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d				Install dew	atering wells an	d niezometere			
S6_9365	Install inclinometers inside D-wall	7d/wk-1	20d	15-Apr-15 08	05-May-15 18	-141d					clinometers insid	1			
S6_8975	Carry out pumping tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d									
S6_8980	1st Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1				100000					ut pumping tests				
			10d	06-May-15 08	15-May-15 18	-141d	1			1st La	yer - D Wall co	nc over break if any	& Soft Excavation		
S6_9260	Submit pumping test report	7d/wk-1	1d	06-May-15 08	06-May-15 18	-137d	1			1 Submit	pumping test rep	port			
S6_8985	1st Layer - install lateral support	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d				1st l	Layer - install lat	eral support			
S6_8990	Install vibrating wire strain gauge	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d				Insta	all vibrating wire	strain gauge			
S6_8995	2nd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	18-May-15 08	28-May-15 18	-141d				■ 2nd	Layer - D Wall	conc over break if a	ny & Soft Excavation		
S6_9000	2nd Layer - install lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d				<b>2</b> 2	nd Layer - instal	I lateral support			
\$6_9005	3rd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	31-May-15 08	09-Jun-15 18	-141d				<b>3</b>	rd Layer - D W	all conc over break if	any & Soft Excavat	on	
S6_9010	3rd Layer - install lateral support	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d					1	all lateral support			
S6_9015	4th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	12-Jun-15 08	22-Jun-15 18	-141d					4th Layer - D	Wall conc over break	if any & Soft Excav	ation	
S6_9020	4th Layer - install lateral support	7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d						nstall lateral support	1		
S6_9025	5th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d				-	5th Layer -	D Wall conc over br	eak if any & Soft Ex	cavation	
S6_9030	5th Layer - install lateral support	7d/wk-1	10d	27-Jun-15 08	07-Jul-15 18	-141d	1			1	5th Layer -	install lateral support			
S6_9035	6th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d			- 8		■ 6th Layer	- D Wall conc over	break if any & Soft	Excavation	
S6_9040	6th Layer - install lateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			- 8		6th Lay	er - install lateral sup	pprt	1	
TPCWAW - R	OCK EXCAVATION								-			- Landard			
S6_6180	Rock excavation to formation	7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d						Rock e	xcavation to format	00	
S6_9370	Install tie back anchor to D- Walls (area on west side, near	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d					Inst	all tie back anchor to			- 44\
S6_9415	Portion 11) Install tie back anchor to D- Walls (east area)	7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d						I tie back anchor to I			SII 117
S6_9055	Provide Access to WDII Contractor for demolition of bulkhead at Portion 11	7d/wk-2	Dd		10-Nov-15 18	-133d			1					ontractor for demolit	tion of bulkhe
TPCWAW- CO	T RC Structure								·						non or supplie
TPCWAW-CO															
II OTALIT - OC	STYCKE														
Summary										pared by William					
Actual Le	China Stat	e Construc	tion Eng	ineering (Hon	g Kong) Ltd			Date 26-Sep 1st		Revision	Checked /	Approved			
Actual W	ork			-			42.00	20-3ep.,, 15t	SUITIUDE	ion.	1	nne	中國連第二	程(春港)角	<b>下阻公司</b>
Remainin		an Chai By	Pass -	Tunnel ( Caus	eway Bay Typi	noon Shelte	r Section)							CTION ENGINEERING (H	
Milestone	emaining Work	VORKS D	ROCE	AMME REV.	M										
▼ iviliestone	V	JINO F	ROGRA	NINE KEV	141										

tivity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	F. C S S.	the second	21	015			2016	
S6_9070	TPCWAW Construct tunnel base slab	7d/wk-1	10000000	22 04 45 20	44 5 - 45 45		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		/ d/wk-1	50d	23-Oct-15 08	11-Dec-15 18	-141d						PCWAW Constru	ct tunnel base sla	b;
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 tunn	el wall + OHV
S6_9077	TPCWAW - external waterproofing on top of completed CCT box (incl. screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d						■ TP	CWAW - external	waterproofing
S6_9076	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d							: CWAW King post	
TPCWAW - F	Removal of Temporary Reclamation					1						-	Trickly Italy poor	idad iransici
	Temporary Reclamation													
S6_9140	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion 11 (concurrent activities)	7d/wk-1	30d	17-Feb-16 08	17-Mar-16 18	-120d	1	1					Backfilling/Remov	al of ELS/ Re
S6_9105	Remove general fill/ seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08	30-Mar-16 18	-120d		1					Remove gener	al fill/ seawal
S6_9120	Saw cut diaphragm wall	7d/wk-1	63d	21-Mar-16 08	23-May-16 18	-120d	3	1					Saw	cut diaphrag
S6_7550	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	0d		23-May-16 18	-121d								pletion of Se
TPCWAW -C	Cable Trough/ Maintenance Walkway				12.03.04.04.04	1.45.6.1							♥ Con	ipietion of Se
S6_9085	TPCWAW - Cable Trough (access through temp. opening at Portion 19)	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d		1					TPCWAW - Cal	ole Trough (a
S6_9135	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	7d/wk-2	0d		25-Mar-16 18	-144d		1					Completion of S	ection 5 - TF
Works in V	Nan Chai PCWA (Portion 11)				-									
Initial Works	s & Utilities Works			_		-			_					
S4_2810	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A	17-Oct-14 18	-58d	Installation of	Filesestes						
	The state of the s		100		1.000	1000								
S4_2720	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remov	e existing rock mou	nd					
54_2750	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	Carry ou	Site Investigation f	or BW1/BW2					
S4_2755	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	0d		07-Nov-14 18	-61d	♦ BW1/B\	V2 Engineers confir	mation of provision	nal Barrettes				
Allow Acces	ss to WDII													
S4_2785	Complete Section 4 - Portion 11 (KD9)	7d/wk-2	Od	1	10-Nov-15 18	-132d	1				♠ Comple	ete Section 4 - Por	fon 11 (KD0)	
S4_2775	Return Portion 11 to WDII	7d/wk-1	Od		10-Nov-15 18	-129d								
	and the same of th	/ G/WK-1	oa		10-N0V-15 18	-1290					Return	Portion 11 to WDI	l.	
Works for	Mined Tunnel (Portion 16, 17, 18)													
SR8 (Tunnel	Excavation + Lining)													
From West (	(TPCWAE)													
Heading Ex	xcavation (2d/m, 24h/day work shift, 7d/week, no work on statute	ory holiday)		-			1							
A8676	SR8 Heading Excavation From West, CH 4095- 4107 = 8m	7d/wk-1a	16d	03-Sep-14 08 A	28-Sep-14 18	164d	SR8 Heading Ex	ravation From Wa	et CH 4095- 410	7 = 8m @2d/m				
Panch Curr	@2d/m avation (1.5d-2d/m, 20m separation with heading)	Constant							-1, -11, -1000- +10	- on @zam				
- Harris Statement														
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,	CH 4055- 4065 =	10m				
Summa	ary Bar 6 of 18								pared by William					
	Level of Effort China Stat	e Construc	tion Eng	ineering (Hon	g Kong) Ltd			Date -Sep 1st submiss	Revision ion	Checked App	roved			
Actual V	Work ing Work Contract No. HY/2009/15 - Central V					hoon Shot	Contract Con	F.1. 1.31 SAD11830				中國建築		
	Remaining Work					noon oner	ter Section)				TOUCE	CHINA STATE CONSTRI	OCTION ENGINEERING	(HONG KONG)
<ul> <li>Mileston</li> </ul>	ne V	VORKS P	ROGR	AMME REV.	. M		_							

D	Activity Name	Calendar	Original	Start	Finish	Total	2015 2016
			Duration			Float	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-Oct-14 18	148d	SR8 Bench excavation From West, CH 4065- 4075 = 10m
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-Od-14 08	04-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4075- 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 Bench Excavation:From West, CH 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 Excavation From West, CH 4095- 4100 = 5m
rom East (1	TS4)			-			
Heading Ex	ccavation (2d/m, 24h/day work shift, 7d/week, no work on statu	tory holiday)					
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m
Bench Exca	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 Excavation From East, CH 4147.5- 4135 = 12.5m
A8470	SR8 Bench Excavation From East, CH 4135-4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	Od	SR8 Bench Excavation From East, 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 Bench Excavation From East, CH 4125- 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	SR® Bench Excavation From East, CH 4115- 4100 = 15m
Funnel Linin	ng Works						
From West	- Base Slab (10m/bay, 10m separation with benching excavation	on)			_		
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 West, CH 4015 - 4025 = 10m/bay, base 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 West,CH 4025 - 4035 = 10m/bay, base slab
A8535	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	8d	15-Oct-14 08	22-Oct-14 18	165d	■ SR8, From West,CH 4035 - 4045 = 10m/bay, base slab
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/bay, 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, From West, CH 4055 - 4065 = 10m/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	SR\$, From West, CH 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	■ SR8, From West, CH 4075 - 4085 = 10m/bay, base slab
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 - 4095 = 10m/bay, base slab
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 West, CH 4095 - 4105 = 10m/bay, base slab
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	30-Dec-14 08	07-Jan-15 18	154d	■ SR8, From West, CH 4105 - 4115 = 10m/bay, base slab
77111	- Lining (5m/bay, 10m separation with base slab)		-				
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	Dd	SR8, From Wes, CH 3995 - 4000 = 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 West, CH 4000 - 4005 = 1bay, fining
A8585		7d/wk-1a	9d	14-Oct-14 08	22-Oct-14 18	137d	SR8, From West, CH 4005 - 4010 = 1bay, Ining
	SR8, From West, CH 4005 - 4010 = 1bay, lining						
A8590	SR8, From West, CH 4010 - 4015 = 1bay, lining	7d/wk-1a	9d	23-Oct-14 08	31-Oct-14 18	137d	SR8, From West, CH 4010 - 4015 = 1bay, lining
Summa Actual L	and of Effort				- Korellia		Prepared by William Caluza Date Revision Checked Approved
Actual V	China St	ate Construc	tion En	gineering (Hor	ig Kong) Ltd		26-Sep 1st submission 中國建築工程(香港) 有限
	ning Work Contract No. HY/2009/15 - Central	Wan Chai B	y Pass	- Tunnel ( Caus	seway Bay Typ	hoon St	
Critical	Remaining Work	Samuel Carly		RAMME REV	. 52		

D	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	- 04	0.4	1 22	2015	0.0			2016	
A8595	SR8, From West,	CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d	Q4 SR8, Fr	Q1 om West, CH 40	Q2 015 - 4020 = 1	bay, lining	Q3	Q4	Q1	Q2	Q3
A8600	SR8, From West,	CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d	■ SR8, F	rom West, CH	4020 - 4025 =	1bay, lining					
A8605	SR8, From West,	CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d		From West, CH							
A8610	SR8, From West,	CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d	■ SR8	From West, Cl	H 4030 - 4035	= 1bay, linir	ng				
A8615	SR8, From West,	CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d	I SR	B, From West, C	H 4035 - 4040	0 = 1bay, lini	ing				
A8620		CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d		8, From West,	1						
A8625	SR8, From West,	CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d		R8, From West,	1						
A8630	SR8, From West,	CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d		SR8, From Wes							
A8635	175	CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d									
A8640		CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d		SR8, From We							
			1 - 12 - 12			1	1.00,00		SR8, From W	Trans.	-31					
A8645		CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d		SR8, From V	Vest, CH 4065	- 4070 = 11	bay, lining				
A8647	SR8, From West,	CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d		SR8, From	West, CH 407	0 - 4075 = 1	Ibay, lining				
A8648	SR8, From West,	CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d		SR8, From	West, CH 40	75 - 4080 =	1bay, lining				
A8649	SR8, From West,	CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d		SR8, From	n West, CH 40	080 - 4085 =	= 1bay, lining				
A8651	SR8, From West,	CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d		SR8, Fro	m West, CH 4	1085 - 4090	= 1bay, lining				
A8652	SR8, From West,	CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d		SR8, Fr	om West, CH	4090 - 409	5 = 1bay, lining				1
A8653	SR8, From West,	CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d		■ SR8, F	rom West, Ch	1 4095 - 410	00 = 1bay, linin	g			
A8654	SR8, From West,	CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d		■ SR8,	From West, C	H 4100 - 41	05 = 1bay, lini	ng		-	Į.
From East -	Base Slab (10m/ba	y, 10m separation with benching excava-	tion)							i			_			
A9775	SR8 From East,	CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	0d	■ SI	88 From East,	CH 4149.5- 41	145 = 4.5m,	base slab				1
A9780	SR8 From East,	CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	0d		SR8 From East,	CH 4145 - 4	135 = 10m/	bay, base slab				
A9785	SR8 From East,	CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d		SR8 From Eas	st, CH 4135 -	4125 = 10n	v/bay, base sla	b			Ĭ.
A9786	SR8 From East,	CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d		SR8 From E	ast, CH 4125	- 4115 = 10	Om/bay, base s	lab		Ì	
From East -	Lining (5m/bay, 10	m separation will) base slab)		-					-		1			-		
A9820	From East, SR8 C	H 4149,5 - 4145 = 4,5m,1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	Od		From East, SR8	B CH 4149.5 -	4145 = 4,5	m,1 bay, lining			1	
A9815	From East, SR8 C	H 4145 - 4140 = 1bay, lining	7d/wk-1a	5d	23-Dec-14 08	28-Dec-14 18	6d		From East, SF	8 CH 4145 - 4	4140 = 1bay	lining				ii.
A9810		CH 4140 - 4135 = 1bay, lining	7d/wk-1a	5d	29-Dec-14 08	03-Jan-15 18	6d			SR8 CH 4140		VI. 1			Ī	
A9805		H 4135 - 4130= 1bay, lining	7d/wk-1a	5d	04-Jan-15 08	08-Jan-15 18	6d		From East,							F
7,000	Trom Edat, Ono o	114105-4150- 1003, mmg.	74/10/- 14	- 50	045011-15-05	50-0011-15-10	J.		a Promissi,	510 511 4155	14150-15	ay, ming				
		8 of 18								Prepared by W	filliam Cal-		_			
Summar Actual L	ry Bar evel of Effort							1	Date	Revision		hecked Appr	oved			
Actual V		China	State Construc	tion En	gineering (Hon	ig Kong) Ltd		26-	Sep 1st subm	nission			HAP	中南河	禁工程(善)	性)治阳八
Remaini	ing Work	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	eway Bay Typ	hoon Shelte	r Section)			+		zhit		CONSTRUCTION ENGINE	
	Remaining Work												-			

ast, SR8 CH 4130 - 4125 = 1bay, lining  ast, SR8 CH 4125 - 4120 = 1bay, lining  ast, SR8 CH 4120 - 4115 = 1bay, lining  ast, SR8 CH 4110 - 4110 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, SR8 CH 4110 - 4105 = 1bay, lining  ast, S	7d/wk-1a	5d 5	09-Jan-15 08 14-Jan-15 08 19-Jan-15 08 24-Jan-15 08 29-Jan-15 08 09-Feb-15 08	13-Jan-15 18 18-Jan-15 18 23-Jan-15 18 28-Jan-15 18 02-Feb-15 18 13-Jun-15 18 20-Oct-14 18 08-Nov-14 18	Float 6d 143d 143d 143d 143d 143d 143d 137d 137d 135d 135d		From Eas		120 = 1bay, lining 1315 = 1bay, lining 4110 = 1bay, lining -4105 = 1bay, lining SR8 Tunnel OHVD ar	Q4 nd utility trough	Q1 =, 167= 17 bays @	Q2 10m/bay @ 7d/bay	Q3
ast, SR8 CH 4125 - 4120 = 1bay, lining ast, SR8 CH 4120 - 4115 = 1bay, lining ast, SR8 CH 4116 - 4110 = 1bay, lining ast, SR8 CH 4116 - 4110 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining ast, SR8 CH 4110 - 4105 = 10 ast, SR8 CH 4105 = 10 ast, SR8 CH 4045 - 4045 = 10 ast, SR8 CH 4045 - 4055 = 10 ast, SR8 CH 4055 - 4065 = 10 ast, SR8 CH 4055 - 4065 = 10 ast, SR8 CH 4065 - 4075 = 10 ast, SR8 CH 4065 - 4075 = 10 ast, SR8 CH 4065 = 10 ast, S	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	5d 5	14-Jan-15 08 19-Jan-15 08 24-Jan-15 08 29-Jan-15 08 09-Feb-15 08 07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	18-Jan-15 18 23-Jan-15 18 28-Jan-15 18 02-Feb-15 18 13-Jun-15 18	143d 143d 143d 143d 143d		# From East  From East  From East	st, SR8 CH 4125 - 4 st, SR8 CH 4120 - 4 ast, SR8 CH 4115 - East, SR8 CH 4110	120 = 1bay, lining 1315 = 1bay, lining 4110 = 1bay, lining -4105 = 1bay, lining SR8 Tunnel OHVD ar	nd utility trough	=, 167= 17 bays @	10m/bay @ 7d/bay	
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ast, SR8 CH 4115 - 4110 = 1bay, lining ast, SR8 CH 4110 - 4105 = 1bay, lining aty Trough and Indian	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	5d 5d 120d 120d 20d 20d	24-Jan-15 08 29-Jan-15 08 09-Feb-15 08 07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	28-Jan-15 18 02-Feb-15 18 13-Jun-15 18	143d 143d 137d		1 From E	ass, SR8 CH 4115 -	4110 = 1bay, lining -4105 = 1bay, lining SR8 Tunnel OHVD a	nd utility trough	=, 167≈ 17 bays @	10m/bay @ 7d/bay	
ast, SR8 CH 4110 - 4105 = 1bay, lining  aty Trough  nnel OHVD and utility trough =, 167= 17 bays @ y @ 7d/bay  avation  for (1,5d - 2d/m, 20m separation with heading)  ter Bench From West, CH 4035-4045 = 10m (2d/m)  ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4085-4075 = 10m (2d/m)  ter Bench From West, CH 4085-4075 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	5d 120d 30d 20d 20d	29-Jan-15 08 09-Feb-15 08 07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	02-Feb-15 18 13-Jun-15 18 20-Oct-14 18	143d		■ From E	East, SR8 CH 4110	-4105 = 1bay, lining SR8 Tunnel OHVD a	nd utility trough	=, 167≈ 17 bays @	:10m/bay @ 7d/bay	
ity Trough  nnel OHVD and utility trough =, 167= 17 bays @  7 d/bay  vation  ion (1,5d - 2d/m, 20m separation with heading)  ter Bench From West, CH 4035-4045 = 10m  ter Bench From West, CH 4045-4055 = 10m (2d/m)  ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4065-4075 = 10m (2d/m)  ter Bench From West, CH 4065-4075 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	120d 30d 20d 20d	09-Feb-15 08 07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	13-Jun-15 18	137d		-		SR8 Tunnel OHVD a	nd utility trough	= 167= 17 bays @	10m/bay @ 7d/bay	
nnel OHVD and utility trough =, 167= 17 bays @ y@ 7d/bay  avation  from (1,5d - 2d/m, 20m separation with heading)  ter Bench From West, CH 4035- 4045 = 10m  ter Bench From West, CH 4045- 4055 = 10m (2d/m)  ter Bench From West, CH 4055- 4065 = 10m (2d/m)  ter Bench From West, CH 4065- 4075 = 10m (2d/m)  ter Bench From West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	30d 20d 20d	07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	20-Oct-14 18	135d		-		SR8 Tunnel OHVD a	nd utility trough	=, 167= 17 bays @	10m/bay @ 7d/bay	
nnel OHVD and utility trough =, 167= 17 bays @ y@ 7d/bay  avation  from (1,5d - 2d/m, 20m separation with heading)  ter Bench From West, CH 4035- 4045 = 10m  ter Bench From West, CH 4045- 4055 = 10m (2d/m)  ter Bench From West, CH 4055- 4065 = 10m (2d/m)  ter Bench From West, CH 4065- 4075 = 10m (2d/m)  ter Bench From West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	30d 20d 20d	07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	20-Oct-14 18	135d		Bench From Wes			nd utility trough	= 167= 17 bays @	10m/bay @ 7d/bay	
y @ 7d/bay avation  fron (1,5d - 2d/m, 20m separation with heading)  for Bench From West, CH 4035-4045 = 10m  for Bench From West, CH 4045-4055 = 10m (2d/m)  for Bench From West, CH 4055-4065 = 10m (2d/m)  for Bench From West, CH 4065-4075 = 10m (2d/m)  for Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	30d 20d 20d	07-Aug-14 08 A 20-Oct-14 08 09-Nov-14 08	20-Oct-14 18	135d		Bench From Wes			nd utility trough	= 167= 17 bays @	10m/bay @ 7d/bay	
ion (1,5d - 2d/m, 20m separation with heading)  er Bench From West, CH 4035- 4045 = 10m  er Bench From West, CH 4045- 4055 = 10m (2d/m)  er Bench From West, CH 4055- 4065 = 10m (2d/m)  er Bench From West, CH 4065- 4075 = 10m (2d/m)  er Bench From West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d	20-Oct-14 08 09-Nov-14 08	1			Bench From Wes	+ CH 4035, 4045 -					
ter Bench From West, CH 4035-4045 = 10m  ter Bench From West, CH 4045-4055 = 10m (2d/m)  ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4065-4075 = 10m (2d/m)  ter Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d	20-Oct-14 08 09-Nov-14 08	1			Bench From Wes	+ CH ADSE ADSE					
ter Bench From West, CH 4035-4045 = 10m  ter Bench From West, CH 4045-4055 = 10m (2d/m)  ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4065-4075 = 10m (2d/m)  ter Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d	20-Oct-14 08 09-Nov-14 08	1			Bench From Wes	CH ADSE ADSE				_	
ter Bench From West, CH 4045-4055 = 10m (2d/m)  ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4065-4075 = 10m (2d/m)  ter Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d	20-Oct-14 08 09-Nov-14 08	1			Bench From Wes	+ CH ADSE ADSE					
ter Bench From West, CH 4055-4065 = 10m (2d/m)  ter Bench From West, CH 4065-4075 = 10m (2d/m)  ter Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a 7d/wk-1a	20d	09-Nov-14 08	08-Nov-14 18	135d			- 6404 -6604 110 7	10m				
ter Bench From West, CH 4065-4075 = 10m (2d/m) ter Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a		09-Nov-14 08			EB. Ou	uter Bench From V	West, CH 4045- 40	55 = 10m /2d/m)				
ter Bench From West, CH 4065-4075 = 10m (2d/m) ter Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a			28-Nov-14 18	1254				1				
er Bench From West, CH 4075- 4085 = 10m (2d/m)		20d		10000	135d				- 4065 = 10m (2d/m)				
	7d/wk-1a		29-Nov-14 08	18-Dec-14 18	135d		EB, Outer Bench	n From West, CH 4	065- 4075 = 10m (2d	l/m)			
er Bench From West, CH 4085- 4095 = 10m 1,5d/m)		20d	19-Dec-14 08	09-Jan-15 18	135d		EB, Outer B	Bench From West, C	CH 4075- 4085 = 10m	n (2d/m)			
	7d/wk-1a	15d	10-Jan-15 08	24-Jan-15 18	135d		EB, Oute	er Bench From Wes	t, CH 4085- 4095 = 1	0m 1.5d/m)			
		_										-	
ion (1.5d-2d/m, 20m separation with heading)								+			-	-	
er Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d	20-Oct-14 08*	18-Nov-14 18	120d	ER /	Outer Beach From	: n East, CH 4147.5 -	4145 = 2 5m				
				A PAGE		1							
er Bench From East, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	120d		B, Outer Bench F	From East, CH 4145	5- 4135 = 10m (2d/m)	)			
er Bench From East, CH 4135- 4125 = 10m (2d/m)	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	120d	-	■ EB, Outer Ber	nch From East, CH	4135- 4125 = 10m (2	d/m)			
er Bench From East, CH 4125- 4115 = 10m (2d/m)	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d		EB, Outer	Bench From East,	CH 4125- 4115 = 10r	m (2d/m)			
er Bench From East, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d		EB, O	uter Bench From E	ast, CH 4115- 4105 =	10m (2d/m)			
er Bench From East, CH 4105- 4095 = 10m (1.5d/m)	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	120d		EE EE	3, Outer Bench From	m East, CH 4105- 409	95 = 10m (1.5d	(m)		
avation + Lining)							V-32			1,140		-	
						1							
						1							
ation (2d/m, 24h/day work shift, 7d/week, no work on	statutory holic	day)						1				1	
r Heading From West, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	Od	EB,Inn	er Heading From	West, CH 3992- 40	05 = 13m @3d/m				
r Heading From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	Od	EB EB	Inner Heading Fr	rom West, CH 400	5- 4015 = 10m @2d/r	Ti .			
9 of 1B						8	F	Prepared by William	Caluza			F 4	
ort China Str	ate Construc	tion Eng	nineering (Hon	Kong) I td		-	Date	Revision		oved			
							5-Sep 1st subm	ission		PDF	中国建築	工程(春港)者	丽公
Contract No. HY/2009/15 - Central	Wan Chai By	Pass -	Tunnel ( Cause	eway Bay Typ	hoon Shelt	er Section)				cauto			
	MUBKED	BUCE	AMME DEV	M									
3	vation + Lining)  tion (2d/m, 24h/day work shift, 7d/week, no work on Heading From West, CH 3992- 4005 = 13m @3d/m Heading From West, CH 4005- 4015 = 10m @2d/m  9 of 18 China St.  Contract No, HY/2009/15 - Central	vation + Lining)  tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holion (2d/m, 24h/day work shift, 7d/week, no work on statutory holion reading From West, CH 3992- 4005 = 13m @3d/m 7d/wk-1a  Heading From West, CH 4005- 4015 = 10m @2d/m 7d/wk-1a  9 of 18  China State Construct  Contract No. HY/2009/15 - Central Wan Chai By	Vation + Lining   Vation + Lining   Vation + Lining   Vation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)   Heading From West, CH 3992- 4005 = 13m @3d/m	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992- 4005 = 13m @3d/m 7d/wk-1a 39d 29-Sep-14 08  Heading From West, CH 4005- 4016 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08  9 of 18  China State Construction Engineering (Hong Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Cause Nork	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992-4005 = 13m @3d/m 7d/wk-1a 39d 29-Sep-14 08 07-Nov-14 18  Heading From West, CH 4005- 4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18  China State Construction Engineering (Hong Kong) Ltd  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typi	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992-4005 = 13m @3d/m 7d/wk-1a 39d 29-Sep-14 08 07-Nov-14 18 0d  Heading From West, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d  Observed to the state Construction Engineering (Hong Kong) Ltd  Contract No, HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelt	State   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992-4005 = 13m @3d/m 7d/wk-1a 39d 29-Sep-14 08 07-Nov-14 18 0d EB,Inner Heading From West, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB,Inner Heading From Yest, CH 4005-4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-N	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992- 4005 = 13m @3d/m 7d/wk-1a 39d 29-Sep-14 08 07-Nov-14 18 0d EB, Inner Heading From West, CH 3992- 40 16 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB, Inner Heading From West, CH 4005    By of 18  China State Construction Engineering (Hong Kong) Ltd  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)	Vaction + Lining   Vaction + L	Varion + Lining   Varion + L	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992- 4005 = 13m @3d/m 7d/wk-1a 39d 29-Sep-14 08 07-Nov-14 18 0d EB, Inner Heading From West, CH 3992- 4005 = 13m @3d/m  Heading From West, CH 4005- 4015 = 10m @2d/m 7d/wk-1a 20d 08-Nov-14 08 27-Nov-14 18 0d EB, Inner Heading From West, CH 4005- 4015 = 10m @2d/m  Prepared by William Caluza  China State Construction Engineering (Hong Kong) Ltd  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	tion (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)  Heading From West, CH 3992- 4005 = 13m @3d/m  Heading From West, CH 4005- 4015 = 10m @2d/m  Heading From West, CH 4005- 4015 = 10m @2d/m  China State Construction Engineering (Hong Kong) Ltd  Contract No, HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)

ity ID	Activity Name	Calendar	Original	Start	Finish	Total			2	015			2016	
A8820	EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m	740-4-4-	Duration	00 No. 41 00	142.0	Float	Q4	Q1	Q2	Q3	Q4	Q1		Q3
		7d/wk-1a	20d	28-Nov-14 08	17-Dec-14 18	0d		B,Inner Headir	g From West, , CH	4015- 4025 = 10	n @2d/m			-
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		EB,Inner He	eading From West,	CH 4025- 4035 =	10m @2d/m			
A8810	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	09-Jan-15 08	28-Jan-15 18	0d		EB,Inne	r Heading From We	st CH 4035- 40	45 = 10m @2	d/m		
A8785	EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	29-Jan-15 08	17-Feb-15 18	Od			nner Heading From					
A8790	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 F	N .		2.1		
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					4.00			
A8800	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a							EB,Inner Head		T.			
A8825		24.117.24	20d	02-Apr-15 08	22-Apr-15 18	0d			EB,Inner H	eading From We	st. CH 4075-	4085 = 10m @ 2	2d/m	
4.000	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,Inn	er Heading From	West, CH 40	85- 4095 = 10m	@ 2d/m	
Inner Beno	th 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 Fr	om West, CH 3992-	4005 = 13m (2d	m)			1
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 Be	nch From West,CH	4005- 4015 = 10r	n:			
A8775	EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d			Bench From West,					
A8735	EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	14d								
A8740	EB, Inner Bench From West,CH 4035- 4045 = 10m	7d/wk-1a	15d						nner Bench From W					
A8745		-		18-Feb-15 08	07-Mar-15 18	11d			B, Inner Bench Fro					1
Service .	EB, Inner Bench From West,CH 4045- 4055 = 10m	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d		100	EB, Inner Bench	From West,CH 4	045-4055 =	10m		į
A8750	EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d	- 1		EB, Inner Be	ench From West,	H 4055- 406	5 = 10m	1	
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 We	st,CH 4065-	1075 = 10m		
A8760	EB. Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Dd			EB, In	ner Bench From	West CH 407	5- 4085 = 10m	- 1	
A8761	EB, Inner Bench From West,CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	0d			■ EB	Inner Bench Fro	m West CH 4	085- 4095 = 10m		
From East (	TS4)		-				-			W.15( + 11,0)	11-01-01	000 - 1011		
Inner Head	ing Excavation (3d/m, 24h/day work shift, 7d/week, no work on s	tatutory holic	favl											
A8835	EB, Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @			00.1								_ (		
	30/m	7d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	0d		EB,Inner H	eading From East, C	H 4147.5 to 414	= 2.5m, @ 3	d/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,In	ner Heading From E	ast, CH 4145- 4	35 = 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	Od		- E	B,Inner Heading Fr	om East, CH 413	5- 4125 = 10n	@2d/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	0d			EB,Inner Headin	g 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	Od			EB,Inner He					
A8845	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	Od				Heading From E				
Inner Bonci	h Excayation (1.5d-2d/m, 20m separation with heading)								ED, mile	reading From E	ast, CH 4105	4095 = 10m @2	:d/m	
A8860														
ABBOU	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d	08-Mar-15 08	11-Mar-15 18	11d		1	EB,Inner Bench Fro	m East, CH 4147	5 - 4145 = 2.5	im		
Summa									repared by William (					
Actual L	evel of Effort China State	Construct	ion Eng	ineering (Hone	g Kong) Ltd			ep 1st subm	Revision	Checked Ap	proved			
		an Chai D.	Dana 3	Dunnal / Carre				op (at adol)	aaturi		199	中國連	, 架工程( 唇港	)有阻公
	ing Work Contract No. HY/2009/15 - Central W	an Chai By	Pass -	unnei ( Cause	eway Bay Typh	oon Shelter Secti	on)				mail	CHINA STATE C	ONSTRUCTION ENGINEERIN	NG CHONG KONG
		various linear		AMME REV.	44									

ty ID	Activity Name	Calendar	Original Duration	Start	Finish	Total				21	015				2016	
A8865	EB,Inner Bench From East, CH 4145- 4135 = 10m	7464-4-	The same of	10 11 - 15 00		Float	.Q4	Q1		Q2	Q3	Q4		Q1	Q2	Q3
1,100		7d/wk-1a	15d	12-Mar-15 08	26-Mar-15 18	11d				EB,Inner Bench	From East, CH 4	145- 4135 = 10	0m			
A8870	EB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	28-Mar-15 08	12-Apr-15 18	10d			-	EB,Inner Ben	ch From East, Ch	1 4135- 4125	= 10m			
A8855	EB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	5d				EB,Inner	Bench From Eas	t CH 4125- 4	115 = 10m			
A8875	EB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	09-May-15 08	23-May-15 18	0d					nner Bench From	1				
A9915	EB,Inner Bench From East, CH 4105-4095 = 10m	7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	0d			1				100			
F 607- 208		ru/ww-1d	Jou	24-way-15 06	00-Jun-15 16	ud			1	Ē	B,Inner Bench Fr	om East, CH 4	105-4095	= 10m		
Tunnel Linin														- 0		
From West	Base Slab (10m/bay, 10m separation with benching excav	ation)										-				_
A8900	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 W	est, Base	Slab CH 3990 -	3995 = 1 bay					
A8890	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d		E EB Fr	om West	Base Slah CH	3995 - 4005 = 10	m/hav				
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d		1792								
								- E	From V	Vest, Base Slab	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			EBF	om West, Base S	Slab CH 4015 - 41	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			E E	B From West, Ba	ase Slab CH 4025	- 4035 = 10m	/bay			
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d			-	EB From Wes	t, Base Slab CH	1035 - 4045 =	10m/bay			
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	■ EB From \	West, Base Slab (	H 4045 - 405	5 = 10m/h	214		
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d								17		
A8880									1	EB FID	m West, Base Sla	ib CH 4055 - 4	4065 = 10n	n/bay		
1 10-10	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	5d			1	■ EB)	From West, Base	Slab CH 4065	5 - 4075 =	10m/bay		
A8885	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d				■ E	B From West, B	ise Slab CH 4	075 - 4085	5 = 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	0d					EB From West,	Base Slab CH	4085 - 40	95 = 10m/bay		
From East	Base Slab (10m/bay, 10m separation with benching excava	tion)	-	-				-	-			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			1	■ ER From E	ast, Base Slab CH	41405 414	5 - 4 Em	1		
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d						1			1				
				04-May-15 08	13-May-15 18	16d				EB Fro	m East, Base Slai	CH 4145 - 4	135 = 10m	n/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			1	■ EB	From East, Base	Slab CH 4135	5 - 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	0d			- 1		EB From East, Ba	ise Slab CH 4	125 - 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	Od			- 1		EB From East,	Base Slab CH	4115 - 41	05 = 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	Od			1		EB From Eas	t Base Slah C	H 4105	4005 = 10m/ha	,	
Lining (5m)	/bay, 15m separation with base stab)	A Springer S			13.33.34.14						Lo riom cas	, Dase Siab C	21410347	TUDU - TUTIFOR		
									ì					1		
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d			B From	West, Lining Ch	3990 - 3995 = 1	bay				
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d		100	EB Fre	om West, Lining	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 F	rom West, Linin	g CH 4000 - 400	5 = 1bay				
	Par   11 of 18			100000		. 3			Pos	need by 1500 -	Column	1				
Summa Actual L	evel of Effort	Such Sound						Date		ared by William ( Revision	Caluza Checked Ap	proved				
Actual V	China	State Construc	tion Eng	ineering (Hon	g Kong) Ltd			26-Sep 1st								
	ing Work Contract No. HY/2009/15 - Cen	tral Wan Chai B	Pass -	Tunnel ( Caus	eway Bay Tynh	oon Shelter	Section)				1	172,			程(善港)引	
	Remaining Work			, _iiiie, [ ouds	ay typi	- on onener	Section					IN III	CHINA	STATE CONSTRUCT	ION ENGINEERING (	HONG KON

ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	1 0,			115			2016	
A9050	ER From West Linin	ng CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d	Q4	Q1	EB From West, Lin	Q3	Q4	Q1	Q2	Q3
							1 To 1								
A9055	EB From West, Linin	ng CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			EB From West, I	Lining CH 4010 -	4015 = 1bay			
A9060	EB From West, Linin	ng CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d	E		EB From West	Lining CH 4015	- 4020 = 1bay			
A9070	EB From West, Linin	ng CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			■ EB From We	st, Lining CH 402	0 - 4025 = 1bay			
A9075	EB From West, Linin	ng CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			■ EB From W	lest Lining CH 40	025 - 4030 = 1bay	y .		
A9080	EB From West, Linin	ng CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			EB From	West, Lining CH	4030 - 4035 = 1b	ay		
A9085	EB From West, Linin	ng CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d	İ		■ EB From	West, Lining CH	4035 - 4040 = 1	bay		
A9015	EB From West, Linin	ng CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d	1		■ EB Fro	om West, Lining C	CH 4040 - 4045 =	1bay		
A9020	EB From West, Linin	ng CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			■ EBF	rom West, Lining	CH 4045 - 4050	= 1bay		
A9025	EB From West, Linin	ng CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			■ EB	From West, Linin	g CH 4050 - 405	55 = 1bay		
A9030	EB From West, Linin	ng CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d	1		<b>E</b> E	B From West, Lin	ing CH 4055 - 40	060 = 1bay		
A9035	EB From West, Linin	ng CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d				EB From West, Li	ning CH 4060 - 4	4065 = 1bay		
A9040		ng CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d				EB From West,	1			
A9045		ng CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	Od				EB From Wes	1 3			
A8955		ng CH 4075 - 4080 = 1bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od				EB From We				
A8960		ng CH 4080 - 4085 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od Od						080 - 4085 = 1bay		
			1 - 10007		1,525,500	15-27						Y			
A8970		ng CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d						4085 - 4090 = 1bay		
A8975	EB From West, Lini	ng CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d				EB From	West, Lining CH	4090 - 4095 = 1bay		
A8980	EB From West, Lini	ing CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od				■ EB From	West, Lining Ch	H 4095 - 4100 = 1bay		
A8985	EB From West, Lini	ing CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Dd				■ EB From	m West, Lining C	H 4100 - 4105 = 1ba	,	
A8990	EB From West, Lini	ing CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	Od	Ì			B EB Fro	West, Lining	CH 4105 - 4110 = 1ba	y	
A8995	EB From West, Lini	ing CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d				■ EB Fr	rom West, Lining	CH 4110 - 4115 = 16	ay	
A9000	EB From West, Lini	ing CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d				■ EBF	rom West, Lining	CH 4115 - 4120 = 1	bay	
A9010	EB From West, Lini	ing CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d				■ EB	From West, Linin	g CH 4120 - 4125 =	1bay	
A8965	EB From West, Lini	ing CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Dd	1		1	B 68	From West, Lini	ing CH 4125 - 4130 =	tbay	
A8935	EB From West, Lini	ing CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Dd	Ē			1 E	B From West, Lin	ning CH 4130 - 4135	= 1bay	
A8940	EB From West, Lini	ing CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	0d					EB From West, L	ining CH 4135 - 4140	= 1bay	
A8945	EB From West, Lini	ing CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	i				EB From West, I	Lining CH 4140 - 414	5 = 1bay	
A8950		ing CH 4145 - 4149,5 = 4.5m	7d/wk-1a		14-Sep-15 08	18-Sep-15 18	Od					EB From West,	Lining CH 4145 - 41	49.5 = 4.5m	
	201101111111111111111111111111111111111		1.5.88.18	- 52	1.230.000	300				Denmand by JAME	-		U C TO ANY	1.4.4	
Summ		12 of 18							Date	Prepared by William Revision	Checked A	pproved			
Actual Actual	Level of Effort	Chir	na State Constru	ction En	gineering (Ho	ng Kong) Ltd			26-Sep 1st subr	nission			**********	- 30 / TE 20 \	-
10.0	ining Work	Contract No. HY/2009/15 - Ce	ntral Wan Chai B	ly Page	Tunnel / Carr	PWay Pay Tur	hoon Shelte	er Section)				09/100	中國建築了 CHINA STATE CONSTRU		
	The state of the s	Contract No. 11/2009/13 - Ge	man wan ondi E	y , ass .	, united ( Gaus	- and buy typ	Onelle	occurry					CHINA SIAIE CONSTRU	CHON ENGINEERING	HUNG KUN
Critical  Milesto	Remaining Work	ALL THE COLUMN TO THE COLUMN T	WORKS	PROGE	RAMME REV	/. M									
- willesto	4110		-1	CIEVE	THE PARTY OF	1.40									

ty ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	-			-	015			2016	
OHVD(10m/	/bay) / Utility Trough	-				7.4	Q4	Q1		Q2	Q3	Q4	Q1	Q2	Q3
A9095	EB From West OHVD and utility trough =, 167= 17 bays @	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	Od			- 8				will aim is		
WR Outer Tu	10m/bay @ 7d/bay				02 1107 10 10							EB Fron	n West OHVD an	d utility trough =, 16	67= 17 bays @
									2						
From West (															
Outer Head	ling Excavation (2d/m, 24h/day work shift, 7d/week, no work or	statutory holi	iday)											1	-
A9651	WB, Outer Heading From West, CH 4085- 4092.5 = 7.5m @ 2d/m	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d	WB, Outer	leading From \	West, CH 4085-	4092,5 =	7.5m @ 2d/m			1	
Outer Benc	h Excavation (1.5d-2d/m, 20m separation with heading)							-							
A9680	WB, Outer Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	12-Oct-14 08	26-Oct-14 18	163d	■ WB O	iter Bench Fro	m West, CH 40	25. 4035	- 10m			1	
A9665	WB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	1 11 11 11							1		İ	
2,635					10-Nov-14 18	163d	₩B	Outer Bench I	From West, CH	4035- 40	45 = 10m	1			
A9670	WB, Outer Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d	- v	/B, Outer Bend	ch From West,	CH 4045-	4055 = 10m				
A9675	WB, Outer Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d	-	WB, Outer B	ench From We	st, CH 405	5- 4065 = 10m			į	
A9700	WB, Outer Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d		WB, Oute	er Bench From V	West, CH	4065- 4075 = 1	0m			
A9701	WB, Outer Bench From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d		WB, O	Outer Bench Fro	m West, C	CH 4075- 4082.	5 = 7.5m			
From East (T	TS4)				A								-		
Outer Heati	ing Excavation (2d/m, 24h/day work shift, 7d/week, no work or	etablica bal	abraid				1								
				-											
A9730	WB, Outer Heading From East, CH 4105- 4092.5 = 12.5m @2d/m	7d/wk-1a	25d	30-Aug-14 08 A	30-Sep-14 18	168d	WB, Outer H	leading From 8	East, CH 4105-	4092.5 =	12.5m @2d/m				
Outer Benci	h Excavation (1.5d-2d/m, 20m separation with heading)														
A9740	WB, Outer Bench From East, CH 4136-4135 = 1m	7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d	I WB, Oute	r Bench From	East, CH 4136-	4135 = 1	m				
A9770	WB, Outer Bench From East, CH 4135-4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d	■ WB, O	uter Bench Fro	om East, CH 413	35- 4125	10m	1			
A9745	WB, Outer Bench From East, CH 4125-4115 = 10m	7d/wk-1a	15d	28-Oct-14 08	11-Nov-14 18	168d	■ wa	Outer Bench F	From East, CH	4125- 411	5 = 10m				
A9750	WB, Outer Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d						1			
A9755						- tometrus augus	1		ch From East, C						
	WB, Outer Bench From East, CH 4105-4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d		WB, Outer B	ench From East	t, CH 410	5- 4095 = 10m				1
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	0 19	WB, Ou	uter Bench Fron	n East, CH	4095-4082.5	= 12.5m			
VB (Inner Tu	nnel Excavation + Lining)		*********					1					-		-
From West (1	TPCWAE)						Hi -	+	-						-
Inner Headi	ng Excavation (2-3d/m, 24h/day work shift, 7d/week, no work o	n statutory ho	liday)				-	-					-		
A9130	WB,Inner Heading From West, CH 3993- 4005 = 12m @3d/m			20 0 11 00	10 No. 1110					0.1.1					
		7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	0d			g From West, C			ů.			
A9135	WB,Inner Heading From West,CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	Od		WB,Inner Hea	ading From We	st,CH 400	5- 4015 = 10m	@2d/m		1	
A9140	WB,Inner Heading From West, CH 4015- 4025 = 10m @2d/m	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	0d	1	WB,Inner	r Heading From	West, CH	4015-4025 =	10m @2d/m		-	
Summar	y Bar 13 of 18			10					Prepared by	y William C	Caluza	-			-
Actual Le	evel of Effort China Sta	te Construc	tion En	gineering (Hon	a Kona) I td			Date	Revision		Checked A	pproved			
Actual W	/ork							26-Sep 1st s	submission			ONE	中國連算	工程(喜港)	有阻公司
Remainir  Critical R	ng Work Contract No. HY/2009/15 - Central Remaining Work	Wan Chai By	Pass -	Tunnel ( Caus	eway Bay Typh	noon Sh	elter Section)					childo	CHINA STATE CONSTI	TUCTION ENGINEERING	CHONG KONG) L
- Dinnell N	e '														

	Activity Name	Calendar	Original	Start	Finish	Total Float		2015			2016	
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 Od	Q4	Q1 Q2 Q: WB,Inner Heading From West, CH 4025		Q1	Q2	Q3
A9105				0.510.7710.0								
	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	0d		WB,Inner Heading From West, CH	4035- 4045 = 10m @2d	I/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	0d		WB Inner Heading From West	CH 4045- 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 Heading From W	est, CH 4055- 4065 = 1	10m @ 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	0d		WB Inner Heading From	m West, CH 4065- 407	5 = 10m, @ 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	0d		WB,Inner Heading	From West, CH 4075-	4085 = 10m @ 2d/m		
Inner Benc	h Excavation (1,5d-2d/m, 20m separation with heading)		_									
A9180	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		WB,Inner 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,Inner Bench From West, CH 400	05- 4015 = 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 Inner Bench From West, Ch	1 4015- 4025 = 10m			
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 From West				
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d						
A9160								WB,Inner Bench From V				
	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d		WB,Inner Bench Fro	CASTOR TO DOOR IN			
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od		WB,Inner Bench	From West, CH 4055	- 4065 = 10m		
A9170	WB,Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od		WB,Inner Be	nch From West, CH 40	65- 4075 = 10m		
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	0d		WB,Inner	Bench From West, CH	4075- 4085 = 10m		
	2111											
From East (	TS4)											
	TS4) ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s	tatutory holis	tay)	-								
		tatulory holis	1ay) 20d	14-Jan-15 08	02-Feb-15 18	6d		WB.Inner Heading From East, CH 41	35- 4125 = 10m @2d/r	n		
Inner Head	ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d									
A9210 A9215	ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s  WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08	25-Feb-15 18	6d		WB Inner Heading From East, C	H 4125- 4115 = 10m @	22d/m		
A9210 A9215 A9230	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		WB,Inner Heading From East, C	H 4125- 4115 = 10m @	)2d/m m @2d/m		
A9210 A9215 A9230 A9232	WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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	20d 20d	03-Feb-15 08	25-Feb-15 18	6d	n	WB Inner Heading From East, C	H 4125- 4115 = 10m @	)2d/m m @2d/m		
A9210 A9215 A9230	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		WB,Inner Heading From East, C	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095	)2d/m m @2d/m = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 7d/wk-1a	20d 20d 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 From East, C WB Inner Heading From East WB Inner Heading From	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095	)2d/m m @2d/m = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 7d/wk-1a	20d 20d 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 From East, C WB Inner Heading From East WB Inner Heading From	H 4125-4115 = 10m @ xt, CH 4115-4105 = 10 East, CH 4105-4095 rom East, CH 4095-40	22d/m m @2d/m = 10m @2d/m 185 = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225 Inner Bene	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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  ih Excavation (1.5d-2d/m, 20m separation with heading)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 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 6d		WB,Inner Heading From East, C WB,Inner Heading From East WB,Inner Heading From WB,Inner Heading F	H 4125-4115 = 10m @ st, CH 4(15-4105 = 10) East, CH 4105-4095- rom East, CH 4095-40 ust, CH 4135-4125 = 10	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235	WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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  In Excavation (1.5d-2d/m, 20m separation with heading)  WB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 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 16d		WB Inner Heading From East, C WB Inner Heading From East WB Inner Heading From WB Inner Heading F WB Inner Heading F	H 4125-4115 = 10m @ st, CH 4115- 4105 = 10 East, CH 4105- 4095 from East, CH 4095- 40 sst, CH 4135- 4125 = 10 In East, CH 4125- 4115	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240	WB,Inner Heading From East, CH 4105- 4125 = 10m @2d/m  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 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  from East, CH 4135- 4125 = 10m  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 20d 20d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-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 From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From East  WB,Inner Bench From East	H 4125-4115 = 10m @ st, CH 4115- 4105 = 10 East, CH 4105- 4095 from East, CH 4095- 40 sst, CH 4135- 4125 = 10 In East, CH 4125- 4115	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 4125- 4115 = 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 7d/wk-1a	20d 20d 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 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	6d 6d 6d 16d 16d 11d 6d		WB,Inner Heading From East, C WB,Inner Heading From East WB,Inner Heading From WB,Inner Heading F WB,Inner Bench From Ea WB,Inner Bench From WB,Inner Bench	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095-40 rom East, CH 4095-40 sst, CH 4135-4125 = 10 n East, CH 4125-4115 From East, CH 4115-4 ch From East, CH 4105	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Ioner Bener A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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  MB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 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 4105- 4095 = 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 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	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 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From Ea  WB,Inner Bench  WB,Inner Bench  WB,Inner Bench	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095 rom East, CH 4095-40 sst, CH 4135-4125 = 10 n East, CH 4125-4115 From East, CH 4115-4	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 4125- 4115 = 10m  WB,Inner Bench From East, CH 415- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 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 7d/wk-1a	20d 20d 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 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 12-Jun-15 18	6d 6d 6d 16d 11d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From East  WB,Inner Bench  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095-40 rom East, CH 4095-40 sst, CH 4135-4125 = 10 n East, CH 4125-4115 From East, CH 4115-4 ch From East, CH 4105	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 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 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 4095- 4085 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  China Stat	7d/wk-1a 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 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 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 12-Jun-15 18	6d 6d 6d 16d 11d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From East  WB,Inner Bench  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza	H 4125-4115 = 10m @  st, CH 4115-4105 = 10  East, CH 4105-4095  rom East, CH 4095-40  st, CH 4135-4125 = 10  n East, CH 4125-4115  From East, CH 4115-4  ch From East, CH 4109  Jench From East, CH 4109	22d/m m@2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m 105 = 10m 5- 4095 = 10m		
A9210 A9215 A9230 A9232 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250 Summa Actual L Actual L	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 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 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 4095- 4085 = 10m  China State  China State  October 2007  China State  Oct	7d/wk-1a 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 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	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 27-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 6d 6d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading From  WB,Inner Bench From East  WB,Inner Bench From  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza  Date Revision Check	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095 rom East, CH 4095-40 sst, CH 4135-4125 = 10 In East, CH 4125-4115 From East, CH 4115-4 ch From East, CH 4109 Bench From East, CH 4	22d/m m@2d/m = 10m @2d/m 185 = 10m @2d/m 0m = 10m 105 = 10m 5- 4095 = 10m 095- 4085 = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9247 A9250 Summa Actual V Remain	WB, Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m  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 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 4095- 4095 = 10m  WB, Inner Bench From East, CH 4095- 4095 = 10m  China Statistical Contract No. HY/2009/15 - Central V  Contract No. HY/2009/15 - Central V	7d/wk-1a 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 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	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 22-Apr-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18	6d 6d 6d 6d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading From  WB,Inner Bench From East  WB,Inner Bench From  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza  Date Revision Check	H 4125-4115 = 10m @  st, CH 4115-4105 = 10  East, CH 4105-4095  rom East, CH 4095-40  st, CH 4135-4125 = 10  n East, CH 4125-4115  From East, CH 4115-4  ch From East, CH 4109  Jench From East, CH 4109	22d/m m@2d/m = 10m @2d/m 185 = 10m @2d/m 0m = 10m 105 = 10m 5-4095 = 10m 095-4085 = 10m		

ty ID	Activity Name		Calendar Original Start Finish Total Float O4 O		2015					2016						
Tunnel Lini	ng Works		1	- Garanoll	1	1	Tivat	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3
		, 10m separation with benching excavat	ionl													
A9295		lase Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d						in an			
A9320		lase Slab CH 3995 - 4005 = 10m/bay			1,10,000						West, Base Slab (					
The same			7d/wk-1a	10d	04-Feb-15 08	13-Feb-15 18	30d	1	100		om West, Base Sla					
A9255		lase Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d			■ V	B From West, Bas	e Slab CH 4005 -	4015 = 10m/ba	y .		
A9260	WB From West, B	lase Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d				WB From West,	Base Slab CH 40	15 - 4025 = 10n	n/bay		
A9265	WB From West, B	lase Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d				■ WB From W	est, Base Slab Cl	4 4025 - 4035 =	10m/bay		
A9300	WB From West, B	lase Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 08	09-May-15 18	20d	l i			■ WB Fro	m West, Base Sla	b CH 4035 - 404	45 = 10m/bay		1
A9325	WB From West, B	ase Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d				■ WB	From West, Base	Slab CH 4045 -	- 4055 = 10m/bay	d l	1
A9305	WB From West, B	lase Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d	I F			■ V	VB From West, B	ase Slab CH 40	55 - 4065 = 10m/ba	ay	
A9310	WB From West, B	lase Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	0d					WB From Wes	Base Slab CH	4065 - 4075 = 10n	n/bay	
A9315	WB From West, B	ase Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od					WB From We	est, Base Slab C	H 4075 - 4080 = 5	m	
From East	Base Slab (10m/bay,	10m separation with benching excavati	on)				- 2		-					-	1	-
A9960	WB From East, Ba	ase Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d				■ WB From	East, Base Slab	CH 4135 - 4125	= 10m/bay		
A9955	WB From East, Ba	ase Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d					rom East, Base S	Towns or the			
A9950	WB From East, Ba	ase Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d							- 4105 = 10m/bay		
A9945		ase Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d	Vi.						105 - 4095 = 10m/t		
A9940		ase Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d	l i								
A9941		ase Slab CH 4085 - 4080 = 5m	7d/wk-1a		05-Jul-15 08	14-Jul-15 18	6d	l i			1			4095 - 4085 = 10n	T	
1000	n/bay, 10m separation	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	ru/ww-ra	iou	U3-30F15 U5	14-50415 18	bu		4			MR From E	ast, Base Slab C	H 4085 - 4080 = 5	m	
				1											1	
A9430	WB From West, L	ining CH 3990 - 3995 = 1bay	7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d			■ WB	From West, Lining	CH 3990 - 3995	1bay			
A9470	WB From West, L	ining CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d	I i		■ W	From West, Linin	g CH 3995 - 4000	= 1bay			
A9435	WB From West, L	ining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d	1		■ V	B From West, Lini	ng CH 4000 - 400	05 = 1bay			
A9360	WB From West, L	ining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d	1			WB From West, Li	ning CH 4005 - 4	010 = 1bay			
A9365	WB From West, L	ining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d	-			WB From West, I	ining CH 4010 -	1015 = 1bay			
A9370	WB From West, L	ining CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d	1		1	WB From West,	Lining CH 4015	4020 = 1bay			
A9375	WB From West, L	ining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d	1			WB From We	st, Lining CH 4020	- 4025 = 1bay			
A9380	WB From West, L	ining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d				■ WB From W	est, Lining CH 400	25 - 4030 = 1bay			
A9385	WB From West, L	ining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d	10			■ WB From V	Vest, Lining CH 4	030 - 4035 = 1ba	ay .		
	neu Par	15 of 18						13.		D.	epared by William					_
Summa Actual I	ary Bar Level of Effort								Date		Revision	Checked Ap	proved			
Actual 1		China	State Construc	tion En	gineering (Ho	ng Kong) Ltd			26-Sep	1st submi:	ssion		nae	古田湾等	一把(那件)	<del>3-</del> Rd ≥
Remain	ning Work	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	seway Bay Typi	hoon Shel	ter Section)	-				60 146		工程(唇涎): IRUCTION ENGINEERING	
Critical Critical	Remaining Work	Programme and Parket British										+		ZIMA SIME CONS	INCCITOR ENGINEERING	WICHE NON
<ul> <li>Milesto</li> </ul>	ne		WORKS P	ROGR	AMME REV	/. M				_			-			

WB From West, Lining CH 4035 - 4040 = 1bay		Duration			Float	Q4	Q1	Q2	Q3					
WB From West, Lining CH 4035 - 4040 = 1bay						44	141	UZ.	C(3		24	Q1	Q2	Q3
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d	Ser de		■ WB From	West, Lining Ch	1 4035 - 40	40 = 1bay	-		
WB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d			■ WB Fro	m West, Lining C	H 4040 - 4	045 = 1ba	1		
WB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			■ WB Fr	rom West, Lining	CH 4045 -	4050 = 1b	ay		
WB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d	į.		■ WBF	From West, Linin	g CH 4050	- 4055 = 1	bay		
WB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 0B	27-May-15 18	30d									
WB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d			■ W	B From West, Li	ning CH 40	60 - 4065	= 1bsv		
WB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	5d	Toursey seed	08-Jun-15 18	30d					-3000				
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WB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d	1			■ WB Fro	m West, Lir	ning CH 40	80 - 4085 = 1bay		
WB From West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od				■ WB Fro	m West, L	ining CH 4	085 - 4090 = 1bay		
WB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	0d	1			■ WB Fi	rom West, I	Lining CH	1090 - 4095 = 1ba	у	
WB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	0d				1 WB	rom West,	Lining CH	4095 - 4100 = 1b	ау	
WB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	1			■ WB	From Wes	t, Lining Ci	H 4100 - 4105 = 1b	pay	
WB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d				■ WE	3 From We	st, Lining C	H 4105 - 4110 = 1	bay	
WB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d				s w	B From We	est, Lining	CH 4110 - 4115 =	1bay	
WB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Od				8 V	VB From V	est, Lining	CH 4115 - 4120 =	1bay	
WB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d					WB From \	West, Linin	g CH 4120 - 4125	= 1bay	
WB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od	1				WB From	West, Lini	ng CH 4125 - 4130	0 = 1bay	
WB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	1				WB From	n West, Lin	ing CH 4130 - 413	15 = 1bay	
WB From West, Lining CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	Od					WB Fro	m West, Li	ning CH 4135 - 41	36.5 = 1bay	
bay) / Utility Trough	-	-												-
WB From West OHVD and utility trough =, 153= 16 bays @	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	Od	1					WB From	West OHVD and	utility trough =, 15	3= 16 bays @
10m/bay @ 7d/bay				1										
	740.4.2	Od	1	02 Nov. 15 191	04						KD10 Ce	alian 2: Camplelia	a of Mina d Tomas	Maile (asia 7
Target KD10- 2 Nov 2015)	7 G/WK-2	ou		02-1404-15 16	ou						KD10- SE	clion z. completo	n of Mined Tunne	vvorks (orig. 1
orks with other Contracts														
Handover TZ6 to MTR	7d/wk-2	Od		30-Sep-14 18	-249d	Handover Ta	Z6 to MTR							
Handover TZ4 to CWB(T2)	7d/wk-2	Od		10-Nov-14 18	-290d	♦ Han	dover TZ4 to CWB(T	2)						
Provide access to CWB (CC) Contractor- TS1 & TS2	7d/wk-2	Od		21-Nov-14 18*	-85d	♦ Pr	rovide access to CWB	(CC) Contractor	-TS1 & TS2					
/ork	l Wan Chai B	y Pass -	Tunnel ( Caus	seway Bay Typ	hoon She	Annual Section	Date	Revision		Approved				
2	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4070 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4110 - 4115 = 1bay  WB From West, Lining CH 4110 - 4120 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4125 - 4130 = 1bay  WB From West, Lining CH 4135 - 4136.5 = 1bay  WB From West, Lining CH 4135 - 4136.5 = 1bay  WB From West, Lining CH 4136 - 4136.5 = 1bay  WB From West OHVD and utility trough = 153= 16 bays @ 10m/bay @ 7d/bay  f KD10 - Section 5  KD10 - Section 5  KD10 - Section 5  KD10 - Section 5  KD10 - Section 7  Handover TZ4 to CWB(T2)  Provide access to CWB (CC) Contractor - TS1 & TS2  / Bar  vel of Effort  ork  g Work  Contract No. HY/2009/15 - Central	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4085 - 4080 = 1bay  WB From West, Lining CH 4085 - 4090 = 1bay  WB From West, Lining CH 4085 - 4090 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4105 - 4110 = 1bay  WB From West, Lining CH 4105 - 4110 = 1bay  WB From West, Lining CH 4115 - 4120 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4135 - 4130 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West OHVD and utility trough = , 153 = 16 bays @ 7d/wk-1a  WB From West OHVD and utility trough = , 153 = 16 bays @ 7d/wk-1a  10m/bay @ 7d/bay  1 KD10 - Section 2: Completion of Mined Tunnel Works (orig. 7d/wk-2)  Target KD10 - 2 kov 2015)  To key With other Contracts  Handover T26 to MTR  7 China State Constructs  China State Constructs  China State Constructs  Contract No, HY/2009/15 - Central Wan Chai Bernalining Work	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4095 - 4090 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4110 - 4115 = 1bay  WB From West, Lining CH 4110 - 4115 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4125 - 4130 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West OHVD and utility trough = 153 = 16 bays @ 7d/wk-1a 5d  WB From West OHVD and utility trough = 153 = 16 bays @ 7d/wk-2 0d  WB From West OHVD and utility trough = 153 = 16 bays @ 7d/wk-2 0d  Provide access to CWB (CC) Contrador-TS1 & TS2  7d/wk-2 0d  Provide access to CWB (CC) Contrador-TS1 & TS2  7d/wk-2 0d  Provide access to CWB (CC) Contrador-TS1 & TS2  7d/wk-2 0d  Contract No, HY/2009/15 - Central Wan Chai By Pass - WORLED BROSE  WB COntract No, HY/2009/15 - Central Wan Chai By Pass - WORLED BROSE	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4050 - 4065 = 1bay  WB From West, Lining CH 4050 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining C	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4085 = 1bay  WB From West, Lining CH 4060 - 4085 = 1bay  WB From West, Lining CH 4060 - 4070 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4080 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4125 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4100 = 1bay  Tdwk-1a  5d  3d-Jul-15 08   WB From West, Lining CH 4050 - 4055 = 1 bay	WB From West, Lining CH 4050 - 4055 = 1bay	WB From West, Lining CH 4055 - 4055 = 1bay	Wild From West, Lining CH 4085 - 4090 = 1bay	Will From West, Lining CH 4016 - 4050 = 10ey	Will From West, Lining CH 4054 - 4050 = 1bay	Will From West, Living CH 4056 - 4050 = Toay	Will From West, Living CH 4055 - 4650 = 1bay	

ty ID	Activity Name	Calendar	Original	Start	Finish	Total			20	115				2016	
			Duration			Float	Q4	Q1	Q2	Q3		24	Q1	Q2	Q3
5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined Tunnel	7d/wk-2	0d		31-Mar-16 18*	-124d								Provide access t	o CWB (CC)
ge and	Section Completion													î	
5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	0d		30-Sep-14 18*	-86d	♦ KD8 - Comple	tion of Section 3, (	1326d)						
5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	Od		16-Oct-14 18*	-323d	♦ KD5 - Achie	evernent of Stage	5, (1152d)						
D_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d		17-Nov-14 18*	-353d	♦ KD1:	3 - Completion of S	Section 7B, (1152d)					i .	
D_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	Od		17-Nov-14 18*	-297d	♦ KD7	- Completion of Se	ection 2, (1152d)		Ť.				
CD_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	0d		10-Nov-15 18*	-132d					1.0	KD9 - 0	ompletion of Sec	tion 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	Od		25-Mar-16 18	-144d								KD10 - Completion	on of Section f
CD_5750	KD11 - Completion of Section 5, (1949d)	7d/wk-2	0d		23-May-15 18*	-121d								♦ KD11	- Completion
ortion Ha	andover Date					- 2									
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	Portion l	landover - Portion	IV(4), KD8 +28						
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	0d	-	28-Oct-14 18*	-50d	Portion I	landover - Portion	V (5), KD8 +28					4	
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	Dd	1	28-Oct-14 18*	-50d	◆ Portion l	landover - Portion	VI (6), KD8 +28						
CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	Portion I	Handover - Portion	XIIIB (13B), KD8 +	28					
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	0d	1	28-Od-14 18*	-50d	Portion I	landover - Portion	XXII (22), KD8 +28	3					
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d	1	28-Oct-14 18*	-50d	Portion l	landover - Portion	III (3), KD8 +28		i i				
CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	Dd		15-Dec-14 18*	-79d	۰	Portion Handove	r - Portion XIIIA (13	A), KD7 +28					
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Od	+	15-Dec-14 18*	-79d		Portion Handove	r - Portion VIII (8), h	KD7 +28					
CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	Od	1	15-Dec-14 18*	-79d		Portion Handove	r - Portion XIVA (14	A), KD7 +28					
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	0d	-	15-Dec-14 18*	-79d		Portion Handove	r - Portion XV (15),	KD7 +28					
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	Od	-	15-Dec-14 18*	-79d		Portion Handove	r - Portion XXIII (23	), KD7 +28					
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	Od	-	30-Nov-15 18*	0d						♦ Po	rtion Handover -	Portion XVIII (18), K	D10 +28
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	Od	4	27-Dec-15 18*	Od	3						Portion Hando	ver - Portion XI (11)	KD9 +28
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d								Portion Hai	ndover - Porti
CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d					İ			Portion Har	ndover - Porti
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d								Portion Ha	ndover - Porti
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d	1				+			<ul> <li>Portion Har</li> </ul>	ndover - Porti
	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d	1		1					Portion Ha	
CD_5760	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d								Portion Ha	
CD_5780	Land and activity to be set to the	rurwi-2	Jul .		22-rupi-10 10	-024				Catal					1
Actual Remain	Level of Effort China St. Work ining Work Contract No. HY/2009/15 - Central I Remaining Work	Wan Chai E	By Pass			hoon Sh		Date 26-Sep 1st subn	Prepared by William Revision nission	Checked	Approved	e50Ec		工程(唇港): EUCTION ENGINEERING	

Activity Name	Calendar			Finish			2015				2016		
		Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	Od					į.		•	Portion Hando
Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d							٥	Portion Hando
Portion Handover - Portion X (10), KD11 +28	7d/wk-2	Od		20-Jun-16 18	Od	l II						•	Portion Hando
Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d				1			•	Portion Hando
Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d	l i							Portion Hando
	Portion Handover - Portion VII (7), KD11 +28  Portion Handover - Portion XII (12), KD11 +28  Portion Handover - Portion X (10), KD11 +28  Portion Handover - Portion XXA (20A), KD11 +28	Portion Handover - Portion VII (7), KD11 +28         7d/wk-2           Portion Handover - Portion XII (12), KD11 +28         7d/wk-2           Portion Handover - Portion X (10), KD11 +28         7d/wk-2           Portion Handover - Portion XXA (20A), KD11 +28         7d/wk-2	Duration	Duration	Duration	Duration   Float	Duration   Float   Q4	Duration   Float   Q4   Q1	Duration   Float   Q4   Q1   Q2	Duration   Float   Q4   Q1   Q2   Q3	Duration   Float   Q4   Q1   Q2   Q3   Q4	Duration   Float   Q4   Q1   Q2   Q3   Q4   Q1	Duration   Float   Q4   D1   Q2   Q3   Q4   Q1   Q2

Summary Bar

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

18 of 18

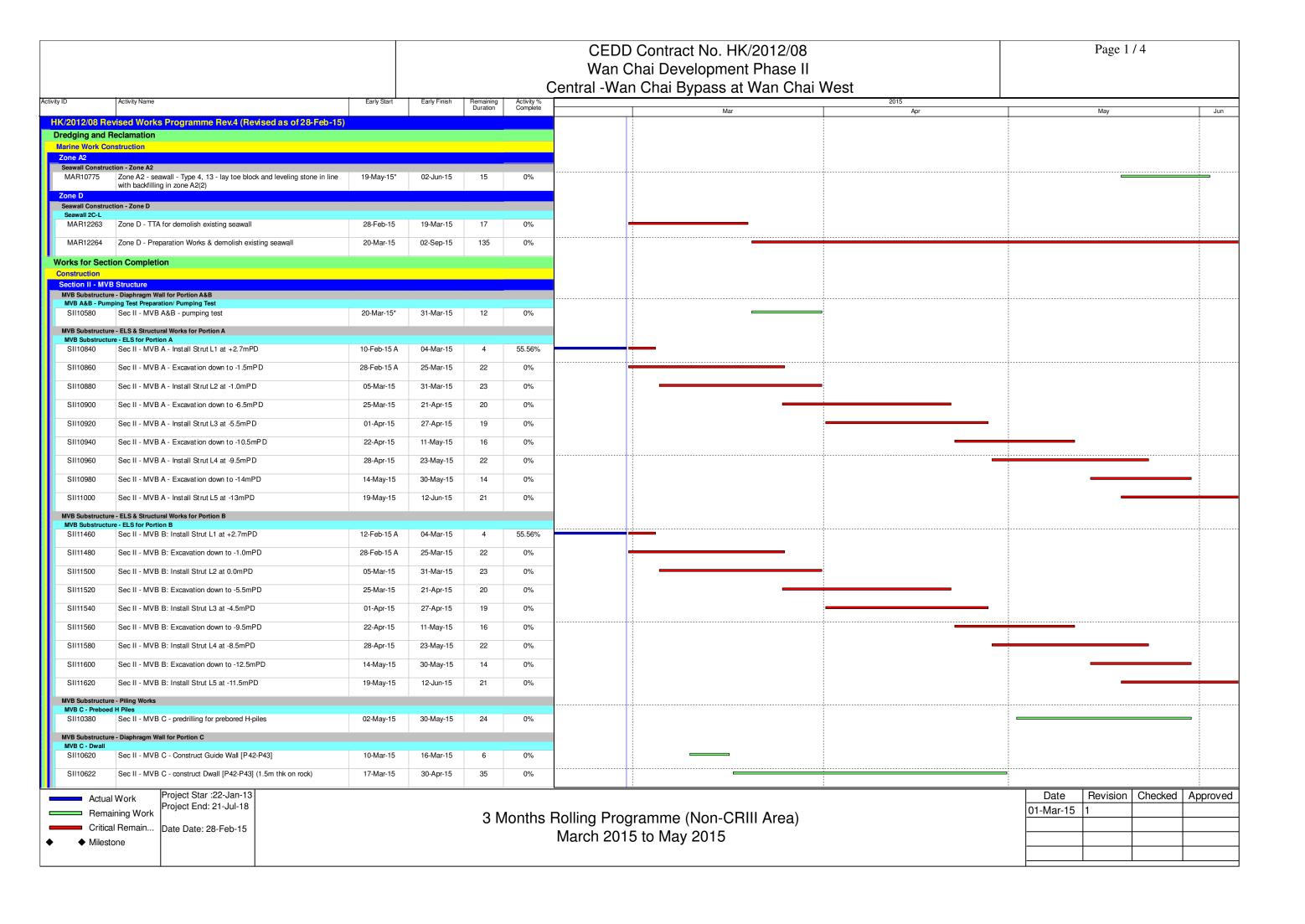
China State Construction Engineering (Hong Kong) Ltd

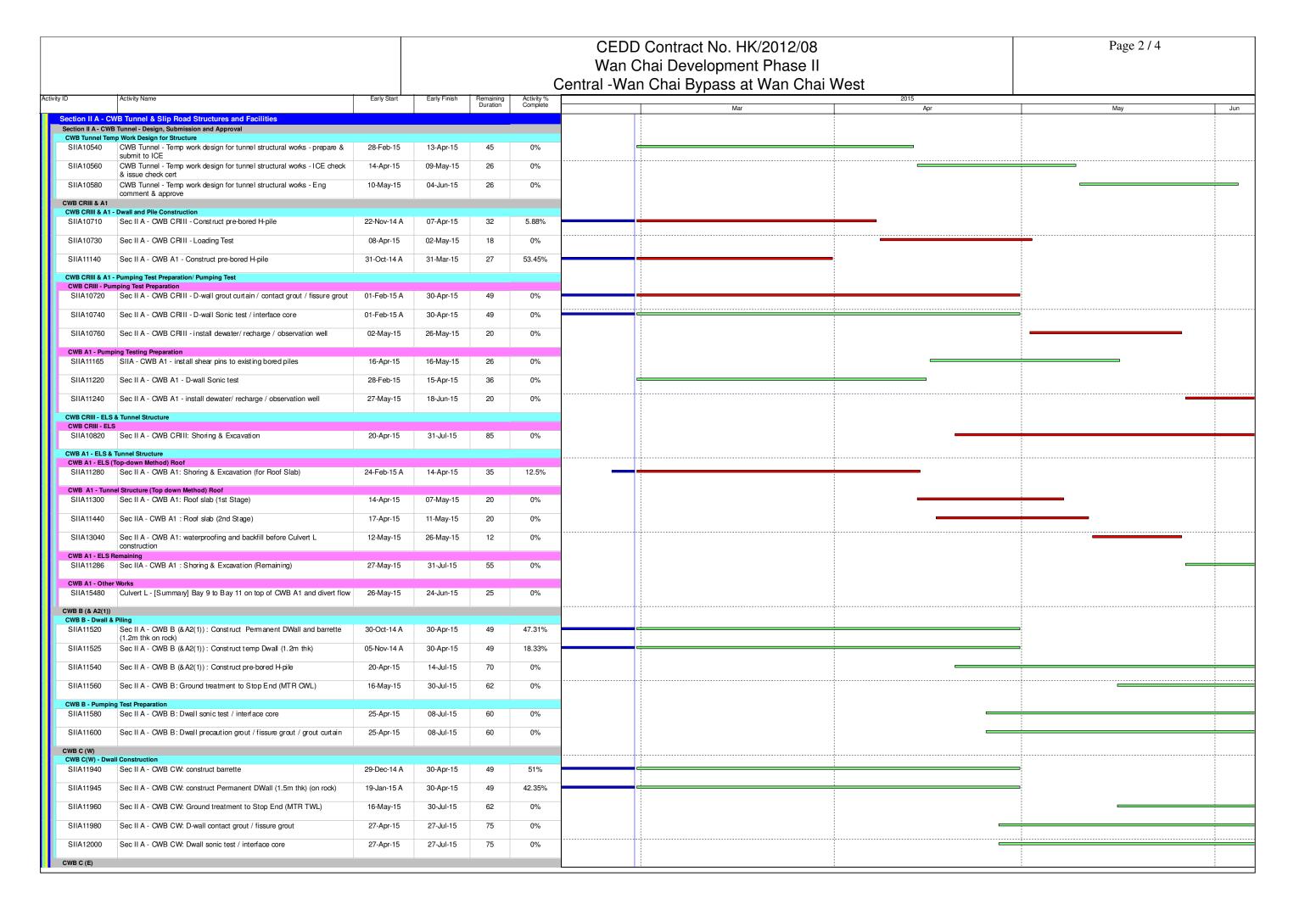
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

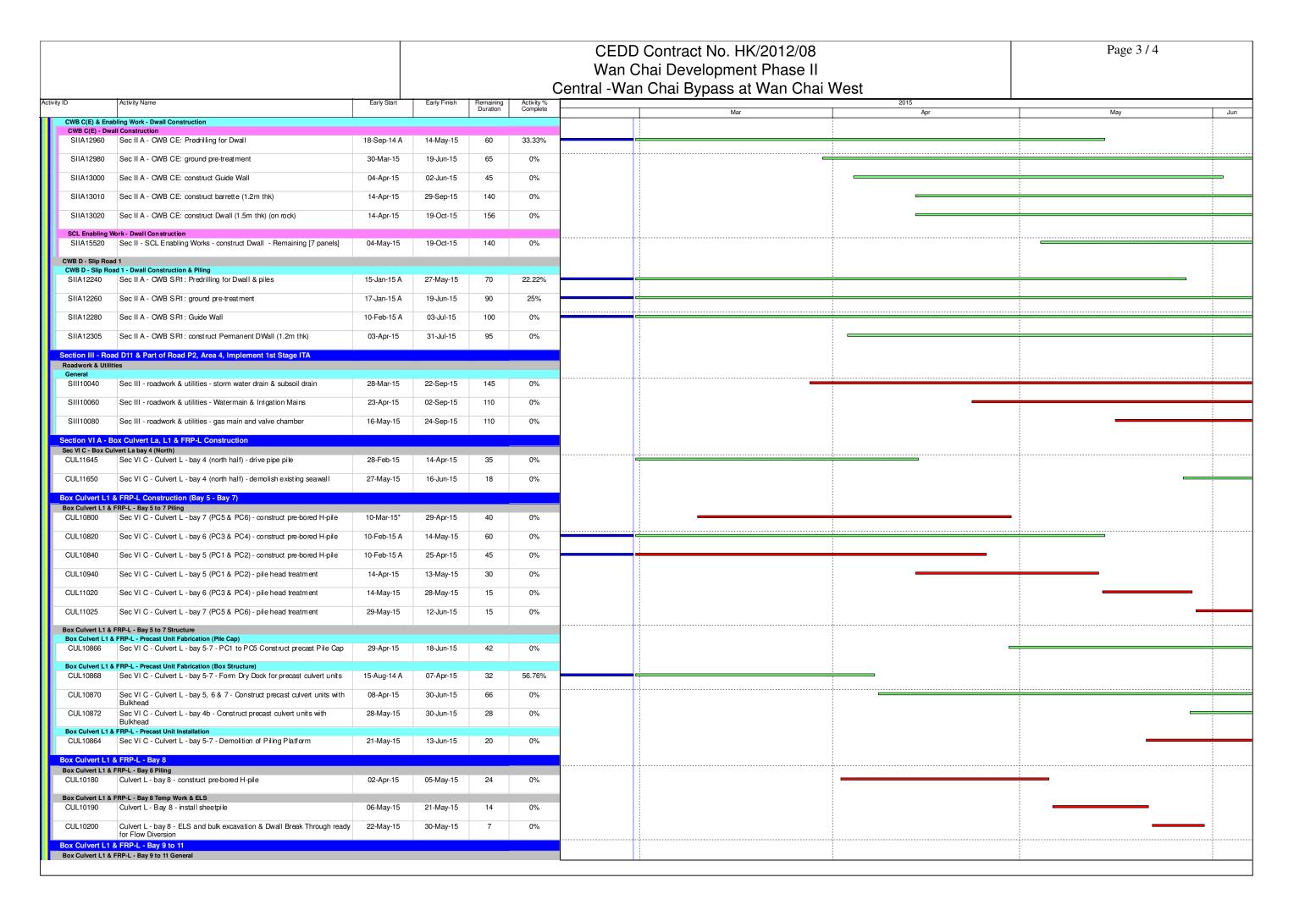
WORKS PROGRAMME REV. M

Date	Revision	Checked	Approved
26-Sep	1st submission		

中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG-LTD.







CUL11690 CWB A1 - [Summary] Tunnel waterproofing and backfill for Culvert L construction  CUL11695 Culvert L - [Summary of Cul L bay 9 to 11] - construct in-situ box culvert  3ox Culvert L1 & FRP-L - Bay 9  CUL11700 Culvert L - bay 9 - construct base slab	Early Start 24-Feb-15 A	Early Finish	I Demoisis a I		Wan Chai Bypass at Wan Chai West	
construction  CUL11695 Culvert L - [Summary of Cul L bay 9 to 11] - construct in-situ box culvert  Box Culvert L1 & FRP-L - Bay 9  CUL11700 Culvert L - bay 9 - construct base slab	24-Feb-15 A		Remaining Duration	Activity % Complete	2015 Mar Apr	May Jun
CUL11700 Culvert L - bay 9 - construct base slab		26-May-15	69	32.35%		
CUL11700 Culvert L - bay 9 - construct base slab	ts 26-May-15	22-Jun-15	23	0%		
, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second			_			
	26-May-15	30-May-15	5	0%		
CUL11820 Culvert L - bay 10 - construct base slab	30-May-15	04-Jun-15	5	0%		
3ox Culvert L1 & FRP-L - Bay 11  CUL11880 Culvert L - bay 11 - construct base slab	28-May-15	02-Jun-15	5	0%		
ox Culvert L1 & FRP-L - Bay 12 to 13						
CUL12354 Culvert L - Bay 12 to 13 Piling  CUL12354 Culvert L - bay 12 - construct pre-bored H-pile (PC9)	18-Apr-15	05-May-15	14	0%		
CUL12356 Culvert L - bay 13 - construct pre-bored H-pile (PC10 & PC11)	06-May-15	01-Jun-15	22	0%		
3ox Culvert L1 & FRP-L - Bay 12 to 13 Temp Work & ELS  CUL12365 Culvert L - Bay 12 - install sheetpile	06-May-15	21-May-15	14	0%		
			7			
·	22-May-15	30-May-15		0%		
ection VI C - Area 3, 6, 8A & 8C Area 8A & 8C - Seawall Modification						
Modification of Seawall  Modification of Seawall - Zone 1						
PRS10000 Sec VIC - Erection of Piling Platform	12-Mar-15*	04-Apr-15	21	0%		
PRS10020 Sec VIC - Piling Rig Mobilisation & Set up	07-Apr-15	17-Apr-15	7	0%	<u> </u>	
PRS10040 Sec VIC - Pipe Pile (1st Stage - Approx. 5 nos.) With Grouting	18-Apr-15	08-May-15	17	0%		
Modification of Seawall - Zone 2 & 4 PRS10120 Sec VIC - Piling Rig Mobilisation & Set Up (Zone 2)	09-May-15	16-May-15	7	0%		
PRS10140 Sec VIC - Pipe Pile (28 nos.) With Grouting (Zone 2)	18-May-15	29-Jul-15	60	0%		-
Modification of Seawall - Zone 3 PRS10200 Sec VIC - Removal of Platform of Bored Pile	09-May-15	16-May-15	7	0%		
PRS10220 Sec VIC - Excavation of Fluid & Rockfill	18-May-15	08-Jun-15	18	0%		
Area 6 - Box Culvert bay 5-6 SVIC10000 Sec VI C - [Summary] Construct Box Culvert Bay 5-6	08-Apr-15	03-Aug-15	94	0%		
Area 3 - Box Culvert bay 4 and Roadwork SVIC10220 Sec VI C - [Summary] Construct Box Culvert Bay 4 in Area 3	01-Jan-15 A	13-Aug-15	135	0%		
ection VII - Remainder Works						
Fenders for Sub-contract and Material Procurement PCU70010 Sec VII - Prepare Sub-contract for removing interim landing steps	28-Mar-15	11-May-15	45	0%		
anding Steps Construction	20 10					
SVII11180 Sec VII - Landing Steps - form temporary access from landing steps to Fleet Acade	09-May-15	01-Jun-15	18	0%		
ection VIII - Landscape Softworks 6oft Landscaping Works						
SVIII10020 Sec VIII - Tree Felling/Transplanting at Portion 2 & 2A	20-Nov-13 A	06-Jun-15	79	12.22%		
ection X - Protection & Preservation of Trees						
Soft Landscaping Works SX10020 Sec X - Protection & Preservation of Trees	31-Jan-13 A	21-Jul-17	875	46.38%		
SX10020 Sec X - Protection & Preservation of Trees	31-Jan-13 A	21-Jul-17	875	46.38%		

## **CHUN WO - CRGL JOINT VENTURE** CEDD CONTRACT HK/2009/02 Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (dd 20-Jan-14) Programme Milestones (Revised up to EOTO No.10 Issued on 29-Nov-13) Section 7 Works (831 days) - Box Culvert N1 & Works at Area 7 (7-May-12) 0 0 Section 7 Works (831 days) - Box Culvert N1 & Works at Area 7 (7-May-12) KDC0110 20-Jan-15 18:00\* -988 Calendar Day Soft Land & Establishment Key Dates 10-Feb-15 18:00 KDC0140 Section 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14) 0 20-Jan-15 18:00\* Calendar Da ection 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14) KDC0150 Section 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15) 0 10-Feb-15 18:00\* Calendar Da ◆ Section 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15) KDF0110 Section 7 Works (831 days) - Box Culvert N1 & Works at Area 7 0 0 11-Apr-15 18:00 -1069 Calendar Day ection 7 Works (8\$1 days) - Box Culver KDF0140 Section 8C Works (1473 days) - Landscape Softworks in Area 8 Section 8C Works (1473 days) - Landscape S 07-Apr-15 18:00 -421 Calendar Day 0 PS0090 Possession of Portion 9 - Western Bulkhead (By HK/2009/01) 0 0 07-May-15 08:00\* -28 Calendar Day PRE0950 Permanent Diversion of Box Culvert M by HK/2009/01 0 0 31-Mar-15 18:00\* -308 Calendar Day Permanent Diversion of Box Culvert M by HK/2009/01 PRF-SUB-1000B Temp Covered Walkway Capping Beam - Design Approval 30 7 19-Jun-13 08:00 A 27-Jan-15 18:00 1377 Calendar Da Temp Covered Walkway Capping Beam - Design Approval PRE-SUB-1010B Temp Covered Walkway Cover System (PS30.5) - Design Approval 7 12-Jun-14 08:00 A 27-Jan-15 18:00 30 Calendar Da Temp Covered Walkway Cover System (PS30.5) - Design Approval CSD for CWB Tu Tunnel Portion 2 - Redesigned CWB Tunnel Structure De sign Submission Approval by AECOM PRE-CSD-2030B Tunnel Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AECOM 60 30 16-Nov-13 08:00 A 19-Feb-15 18:00 -63 Calendar Day PRE-CSD-3000B Tunnel Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO 30 10 08-Jun-13 08:00 A 30-Jan-15 18:00 1374 Calendar Da Tunnel Portion 3&4 - Redesigned Temp D Wall Submission Approval by AECOM & GEO PRE-CSD-3010B Tunnel Fortion 3&4 - ELS Submission Approval by AECOM & GEO Tunnel Portion 3&4 - ELS Submission Approval by AECOM & GEO 30 17-Jan-14 08:00 A 19-Feb-15 18:00 Calendar Da Tunnel Fortion 5 - Temp D-Wall Submission Approval DVAECOM & GEO PRE-CSD-5000B Tunnel Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO 30 15-Aug-13 08:00 A 19-Feb-15 18:00 -252 Calendar Da PRE-CSD-5010A Tunnel Portion 5 - ELS ICE Submission 120 120 21-Jan-15 08:00 20-May-15 18:00 -346 Calendar Da PRE-CSD-6010A Tunnel Portion 6 - ELS ICE Submission 120 21-Jan-15 08:00 20-May-15 18:00 Calendar Da GRP Roof Panel for Temp Covered Walkway (Type 2) GRP Roof Panel for Ternp Covered Walkway (Type 2) PRE-PRO-1100B 60 21 15-Jun-14 08:00 A 10-Feb-15 18:00 1363 Calendar Da S3-0070-1499 Reinstatement of armour rock, retaining walls & new covered walkway along Expo Drive East 25 11-Aug-12 08:00 A 18-Feb-15 18:00 1084 HK Working Da ock, retaining walls & new cove along Expo Dr<mark>i</mark>ve East walkway Section 4A of the Works - Cooling Water Pumping System for Sun Hung Kai Centre (P8) S4A-0900 365 73 16-Feb-14 08:00 A 03-Apr-15 18:00 1311 Outstanding Works Calendar Da Section 4B of the Works - Cooling Water Pumping System for China Resources Building (P9 S4B-0900 Outstanding Works 365 7 01-Oct-13 08:00 A 27-Jan-15 18:00 1377 Calendar Da Outstanding Works 7 21-Nov-13 08:00 A 27-Jan-15 18:00 Calendar D Section 4C of the Works - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (F S4C-0900 Outstanding Works 365 7 21-Nov-13 08:00 A 27-Jan-15 18:00 1377 Calendar Da Outstanding Works S5-0900 Outstanding Works 365 73 06-Mar-14 08:00 A 03-Apr-15 18:00 1311 Calendar Da the Works - Box Culvert N1 & Flood Relief System 34 21-Jan-15 08:00 07-Mar-15 18:00 Civil Works ■ Waterproof applicaion and testing for Roof Top Slab S7-TB-2065 Waterproof application and testing for Roof Top Slab 6 21-Jan-15 08:00 26-Jan-15 18:00 -1022 Calendar Day S7-TB-2080 Formwork Removal & Scaffolding Dismantling 4 04-Mar-15 08:00 07-Mar-15 18:00 HK Working Day Formwork Removal & Scaffolding Dis S7-TB-3000 ABWF Works 60 42 05-Jan-15 08:00 A 03-Mar-15 18:00 -1035 ABWF Works Calendar Day S7-TB-3100 Landscaping Works 30 30 04-Mar-15 08:00 02-Apr-15 18:00 -695 Calendar Da Lands caping Works S7-TB-4000 E&M Installation (with individual testing) 30 18-Dec-14 08:00 A 19-Feb-15 18:00 30 -1069 Calendar Da E&M Installation (with individual testing) 22kV Cable across HHR to Transformer Building by HEC S7-TB-4100 22kV Cable across HHR to Transformer Building by HEC 45 20 29-Oct-14 08:00 A 09-Feb-15 18:00 1364 Calendar Day LV Cable Laying to Ferry Pier S7-TB-4200 LV Cable Laying to Ferry Pier 30 29 02-Jan-15 08:00 A 18-Feb-15 13:30 -1068 Calendar Da S7-TB-4300 Transformer Installation by HEC 30 20-Feb-15 08:00 21-Mar-15 18:00 -1069 Calendar Day Trans former Installation by HEC S7-TB-4400 **Engerization of Transformer** 7 22-Mar-15 08:00 28-Mar-15 18:00 -1069 Calendar Day Engerization of Transform Overall Testi 51 20-Feb-15 08:00 11-Apr-15 18:00 Calendar Da S7-TB-9000 WSD Inspection & Water Cert Approval 14 20-Feb-15 08:00 05-Mar-15 18:00 -1046 W\$D Inspection & Water Cert Approva S7-TB-9100 FSD Inspection & Fire Cert Approval 14 29-Mar-15 08:00 11-Apr-15 18:00 FSD Inspection & Fire Cert Approval Calendar Day Section 8A of the Works - Reprovisioning of Wan Chai Ferry Pier in Area 212 36 10-Sep-13 08:00 A 25-Feb-15 18:00 1348 Calendar Da S8A-BS-4010 E&M Installation 10 10-Sep-13 08:00 A 30-Jan-15 18:00 1374 Calendar Da E&M Installation S8B-FP-01100 Roof Finishes & Misc. ABWF Installation 36 28-Oct-13 08:00 A 25-Feb-15 18:00 1348 ⊒≪Roof Finishes & Misc. ABWF Installation 120 Calendar Da 36 21-Dec-13 08:00 A 25-Feb-15 18:00 1348 S8B-FP-01300 Handrail & Glass Balustrade Installation 45 Calendar Day Handrail & Class Balustrade Installation 427 Date Checked Approved Remaining Work CEDD CONTRACT NO. HK/2009/02 Page 1 of 3 20-Jan-15... 3MRP Actual Work TASK filter: 3-Month Rolling. Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai 20-Sep-1... Revised WP 俊和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE Summary Bar Print on: 23-Jan-15 14:59 East (Contract 2) Critical Remaining Work 3-MONTH ROLLING PROGRAMME (dd 20-Jan-15) Milestone

## CEDD CONTRACT HK/2009/02 **CHUN WO - CRGL JOINT VENTURE** Bay 6 (For OHVD Base Slab & Side Wall, Combined to Bay ! S9B-T1-B6-1120 Wall (Middle Late Cast) - Rebar Fixing 4 06-Feb-15 08:00 10-Feb-15 18:00 HK Working Day Wall (Middle Late Cast) - Rebar Fixing 205 Wall (Middle Late Cast) - Formwork S9B-T1-B6-1130A Wall (Middle Late Cast) - Formwork 3 3 11-Feb-15 08:00 13-Feb-15 18:00 205 HK Working Day 14-Feb-15 18:00 Wall (Middle Late Cast) Concrete S9B-T1-B6-1130B Wall (Middle Late Cast) - Concrete 14-Feb-15 08:00 205 Wall Middle Late Cast) - Curing & Formwork Removal S9B-T1-B6-1140 Wall (Middle Late Cast) - Curing & Formwork Removal 3 15-Feb-15 08:00 17-Feb-15 18:00 259 Calendar Da 225 93 20-Aug-14 08:00 A 21-May-15 18:00 Tunnel portion 2 ELSW excavation (\$2,500m3; 500m3/d) Tunnel Portion 2 - Trim Bored Pile Head, Blinding S9B-T2-2000 Tunnel portion 2 ELSW excavation (62,500m3; 500m3/d) 125 13 20-Aug-14 08:00 A 04-Feb-15 13:30 11 HK Working Day S9B-T2-3000 HK Working Day Tunnel Portion 2 - Trim Bored Pile Head, Blinding 20 19-Jan-15 08:00 A 12-Feb-15 17:33 21 -31 S9B-T2-4000 Strut S5 Removal 7 28-Apr-15 08:00 06-May-15 18:00 -50 HK Working Da Strut S5 Ren Bulk Head Demolition between TP1 & TP2 @ CH3500 & Baseslab Stitching Bulk Head Demolit<mark>on bel</mark>ween TP1 & TP2 @ CH3500 & Baseslab Stitching S9B-T2-4200 14 16-Jan-15 08:00 A 05-Feb-15 18:00 HK Working Day S9B-T2-B1-1010 Base Slab - Waterproofing 4 26-Feb-15 08:00 02-Mar-15 18:00 HK Working Day -50 Rase Slab - Waterproofing S9B-T2-B1-1020 Base Slab - Formwork & Rebar Fixing 14 14 03-Mar-15 08:00 18-Mar-15 18:00 -38 HK Working Day Base Slab - Formwork & Rebar Fixing S9B-T2-B1-1030 Base Slab - Concrete & Curing 5 19-Mar-15 08:00 23-Mar-15 18:00 Calendar Day Base Slab - Concrete & Curing S9B-T2-B2-1010 Base Slab - Waterproofing 4 4 03-Mar-15 08:00 06-Mar-15 18:00 Base Sat - Waterproofing -50 HK Working Day rk & Rebar F S9B-T2-B2-1020 Base Slab - Formwork & Rebar Fixing 14 07-Mar-15 08:00 23-Mar-15 18:00 -28 HK Working Day 📕 Base Slab - Formwor S9B-T2-B2-1030 Base Slab - Concrete & Curing 5 24-Mar-15 08:00 28-Mar-15 18:00 Calendar Da Base Slab - Concrete & Curi -40 S9B-T2-B3-1010 Base Slab - Waterproofing 4 07-Mar-15 08:00 11-Mar-15 18:00 HK Working Day Base Slab - Waterproofing S9B-T2-B3-1020 Base Slab - Formwork & Rebar Fixing 14 19-Mar-15 08:00 08-Apr-15 18:00 HK Working Day ase Slab - Formwork & Rebar F x Base Slab - Concrete & Curing S9B-T2-B3-1030 Base Slab - Concrete & Curing 5 5 09-Apr-15 08:00 13-Apr-15 18:00 -56 Calendar Day S9R-T2-R3-3000 Wall (South) - Waterproofing 4 4 16-May-15 08:00 20-May-15 18:00 -50 HK Working Da S9B-T2-B3-3010 Wall (Middle) - Rebar Fixing 4 16-May-15 08:00 20-May-15 18:00 -47 HK Working Day S9B-T2-B3-3020 Wall (North) - Waterproofing 4 16-May-15 08:00 20-May-15 18:00 -50 HK Working Day S9B-T2-B4-1010 Base Slab - Waterproofing 4 4 12-Mar-15 08:00 16-Mar-15 18:00 -50 HK Working Day Base Slab - Waterproofin S9B-T2-B4-1020 Base Slab - Formwork & Rebar Fixing 14 17-Mar-15 08:00 01-Apr-15 18:00 HK Working Dav S9B-T2-B4-1030 Base Slab - Concrete & Curing 5 02-Apr-15 08:00 06-Apr-15 18:00 Base \$lab - Concrete & Curin 5 -49 Calendar Da Wall (South) - Waterproofing S9R-T2-R4-3000 4 12-May-15 08:00 15-May-15 18:00 -50 HK Working Day S9B-T2-B4-3010 Wall (Middle) - Rebar Fixing 4 12-May-15 08:00 15-May-15 18:00 -47 HK Working Day S9B-T2-B4-3020 4 12-May-15 08:00 15-May-15 18:00 HK Working Day Wall (North) - Waterproofing S9B-T2-B4-3030 Wall (South) - Rebar Fixing 3 16-May-15 08:00 19-May-15 18:00 -38 HK Working Day S9B-T2-B4-3040 Wall (North) - Rebar Fixing 16-May-15 08:00 19-May-15 18:00 -38 HK Working Day S9B-T2-B4-3050 Wall (Middle) - Formwork & Concrete 3 16-May-15 08:00 19-May-15 18:00 HK Working Day S9R-T2-R5-1010 4 17-Mar-15 08:00 20-Mar-15 18:00 Base Slab - Waterproofing HK Working Day Base Slab - Waterproofi 14 02-Apr-15 08:00 22-Apr-15 18:00 S9B-T2-B5-1020 Base Slab - Formwork & Rebar Fixing HK Working Day S9B-T2-B5-1030 5 23-Apr-15 08:00 27-Apr-15 18:00 -70 Calendar Day Base Slab - Concrete 8 Base Slab - Concrete & Curing Wall (S S9B-T2-B5-3000 Wall (South) - Waterproofing 4 07-May-15 08:00 11-May-15 18:00 -50 HK Working Da S9B-T2-B5-3010 Wall (Middle) - Rebar Fixing 4 07-May-15 08:00 11-May-15 18:00 -47 HK Working Day Wall (N S9B-T2-B5-3020 Wall (North) - Waterproofing 4 07-May-15 08:00 11-May-15 18:00 -50 HK Working Day Wall (N Wall Wall Wall Wall (South) - Rebar Fixing 3 12-May-15 08:00 14-May-15 18:00 HK Working Day S9B-T2-B5-3030 3 12-May-15 08:00 14-May-15 18:00 S9R-T2-R5-3040 Wall (North) - Rebar Fixing -34 HK Working Day S9B-T2-B5-3050 12-May-15 08:00 14-May-15 18:00 Wall (Middle) - Formwork & Concrete HK Working Day S9B-T2-B5-3060 Wall (South) - Formwork & Concrete 3 15-May-15 08:00 18-May-15 18:00 HK Working Day 3 15-May-15 08:00 18-May-15 18:00 S9B-T2-B5-3070 Wall (North) - Formwork & Concrete -34 HK Working Day S9B-T2-B5-3080 Wall (Middle) - Curing & Formwork Removal 15-May-15 08:00 17-May-15 18:00 -40 Calendar Day 19-May-15 08:00 21-May-15 18:00 S9B-T2-B5-3090 Wall (South) - Curing & Formwork Removal Calendar Day Wall (North) - Curing & Formwork Removal S9B-T2-B5-3100 3 19-May-15 08:00 21-May-15 18:00 -44 Calendar Day 169 108 31-Oct-14 08:00 A 08-May-15 17:43 -416 84 13 31-Oct-14 08:00 A 02-Feb-15 14:24 -349 I⊸D-wall Construction at TW¢R4 (C88-P94; P101-C105; 6d/Panel) S9B-T34-1430C D-wall Construction at TWCR4 (C88-P94; P101-C105; 6d/Panel) Calendar Day D-wall Construction at Original HHR Flyover Approach Ramp (P132-P143; 8d/Panel) S9B-T34-1640 80 08-Jan-15 08:00 A 10-Apr-15 17:43 Capping Beam Construction Between Tunnel Portion 1 and 3 &4 S9B-T34-1660 Capping Beam Construction Between Tunnel Portion 1 and 3 &4 14 13 21-Jan-15 14:24 A 03-Feb-15 10:42 Calendar Day S9B-T34-1670 Installation of Pump Well, Observation Well, Inclinometer and Piezometers 22 08-Jan-15 14:24 A 12-Feb-15 11:36 Calendar Day Installation of Pump Well, Observation Well, Inclinometer and Pezdmeters S9B-T34-1700 28 10-Apr-15 17:43 08-May-15 17:43 Tunnel Po Tunnel Portion 3 & 4 Pumping test Calendar Day 230 230 24-Apr-15 17:43 05-Feb-16 17:43 S9B-T34-2000 Tunnel Portion 3 & 4 Excavation (198,000m3 soil @1500m3/d; 2000m3 rock @100m3/d) & ELS 230 230 24-Apr-15 17:43 05-Feb-16 17:43 -333 HK Working Day WB Tunnel Struucture (CH3246 - CH340) Tunnel Portion 6 Bored Pile - 13nr. (3 sets @ 12d/pile) 52 52 07-May-15 08:00 09-Jul-15 18:00 -23 HK Working Day S10-T6-1020 Section 11 of the Works - Remainder of Works Date Checked Approved Remaining Work CEDD CONTRACT NO. HK/2009/02 Page 2 of 3 20-Jan-15... 3MRP Actual Work TASK filter: 3-Month Rolling Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai 20-Sep-1... Revised WP 俊和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE Summary Bar Print on: 23-Jan-15 14:59 East (Contract 2) Critical Remaining Work 3-MONTH ROLLING PROGRAMME (dd 20-Jan-15) Milestone

## CEDD CONTRACT HK/2009/02

## **CHUN WO - CRGL JOINT VENTURE**

Activity Name	OD	RD Start	Finish	Total	Calendar	2014			2015			
				Float			Jan		Mar			May
	101	100 07 0 1100 00 1	20.11 45.40.00	100	0 1 1 5		61	62	63	<del></del> '	64	65
	184							<u> </u>		<u>.</u>		
, ,	60									Reclamation (1st	Stage - 5 Nos.)	
	24							1st Stage Rockfilling for Sea		<u> </u>		
1 2 /	38							4				<b>→</b>
, ,												s.) & Rockfilling
	20				Calendar Day			2nd Stage Dredging inc	l. Existing Wan Chai Ferry Pier (20,0	100 m3 @ 1,00 pr	n3/d)	
, ,, , , ,	41				Calendar Day				<b>-</b>			Reclam
Installation of Permanent Seawall & Rockfilling behind seawall	16	16 08-May-15 08:00	23-May-15 18:00	-486	Calendar Day		i		 	i		<b>-</b>
& Establishment Works	2375	587 24-Feb-10 18:00 A	29-Aug-16 18:00	0	Calendar Day	-			1 1 1	; I <mark>I</mark> II.		
Norks - Landscape Softworks in Area 8	90	77 07-Oct-14 08:00 A	07-Apr-15 18:00	-421	Calendar Day	-			1 1 1	;	-	
Carry out landscape soft work on new ferry pier	90	77 07-Oct-14 08:00 A	07-Apr-15 18:00	-421	Calendar Day			<u> </u>	1	Carry	out landscape soft	work on new ferr
Norks - Establishment Works in Area 8	365	365 08-Apr-15 08:00	06-Apr-16 18:00	-421	Calendar Day					: [] []		
Carry out establishment work on new ferry pier	365	365 08-Apr-15 08:00	06-Apr-16 18:00	-421	Calendar Day					<u> </u>		
Vorks - Protection and Preservation of Existing Trees	2375	587 24-Feb-10 18:00 A	29-Aug-16 18:00	0	Calendar Day				;	:		
Protection and preservation of existing trees	2375	587 24-Feb-10 18:00 A	29-Aug-16 18:00	0	Calendar Day	i		i	i		i	
RAMME	992	381 07-May-13 08:00 A	05-Feb-16 17:43	1003	Calendar Day	-			1 1	:		
truction & Remaining Works (Section 9A 9B 10 & 11)	795	381 11-Nov-13 08:00 A	05-Feb-16 17:43	-158	Calendar Day	-			1 1	: [ ]	-	
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<u> </u>	134							Pump Test & Excavation f	br Tunnel Portion 2	: <del> </del>		
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	249		<u> </u>							·	O116 New Trans	amer Ruilding t
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Existing Wan Chai Ferry Pier (20,000m3 @ 1,000m3/d)  Reclamation from -14 mPD to -2.0mPD by Hopper (121,000m3 @ 3,000m3/d)  Installation of Permanent Seawall & Rockfilling behind seawall  8. Establishment Works  Works - Landscape Softworks in Area 8  Carry out landscape soft work on new ferry pier  Works - Establishment Works in Area 8  Carry out establishment work on new ferry pier  Works - Protection and Preservation of Existing Trees  Protection and preservation of existing trees  RAMME  ruction & Remaining Works (Section 9A, 9B, 10 & 11)  s in WCR2  Pump Test & Excav ation for Tunnel Portion 2  CWB Tunnel Portion 2 Construction  s in WCR3  Reclamation at WCR3 & Ferry Pier Demolition (Except Water Channel Maintained for HK/2009)	Fabrication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 5 Nos.)  for Stage Rockfilling for Seawall (24,000m3 @ 1000m3/d)  placing leveling stones to -6.0mPD (1500m2 @ 40m2/d)  Placing leveling stones to -6.0mPD (1500m2 @ 40m2/d)  linstallation of Permanent Seawall (5 nos.) & Rockfilling behind seawall  2nd Stage Dredging incl. Existing Wan Chai Ferry Pier (20,000m3 @ 1,000m3/d)  Reclamation from -14 mPD to -2.0mPD by Hopper (121,000m3 @ 3,000m3/d)  41  Installation of Permanent Seawall & Rockfilling behind seawall  8. Establishment Works  2375  Works - Landscape Softworks in Area 8  Carry out landscape soft work on new ferry pier  305  Carry out establishment Works in Area 8  Carry out establishment work on new ferry pier  305  AMME  Rockamation and Preservation of Existing Trees  Protection and preservation of existing trees  2375  RAMME  Reclamation & Remaining Works (Section 9A, 9B, 10 & 11)  s in WCR2  Pump Test & Excavation for Tunnel Portion 2  CWB Tunnel Portion 2 Construction  261  s in WCR3  Reclamation at WCR3 & Ferry Pier Demolition (Except Water Channel Maintained for HK/2009)  B Foundation for Tunnel Portion 6 - Bored Pile  s in WCR4/TWCR4  B Foundation for Tunnel Portion 3&4 (except Eastern Bulkhead Wall)  457  Pump Test & Excav ation for Tunnel Portion 3&4  Existing Facilities (Section 3, 4A, 4B, 4C, 5, 6, 7, 8A & 8B)  Existing Facilities (Section 7)  VO116 - New Transformer Building to Ferry Pier  249  Wan Chai Ferry Pier & Covered Walkway (Section 8A & 8B)	CR3 Fabrication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 5 Nos.) Fabrication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 5 Nos.) Fabrication of Caisson Seawalls (24,000m3 @ 1000m3/d) Flacing leveling stones to -6.0mPD (1500m2 @ 40m2/d) Flacing leveling stones to -6.0mPD (1500m3 @ 4000m3/d) Flacing leveling stones to -6.0mPD (1500m3 @ 4000m3/d) Flacing leveling stones to -6.0mPD (1500m3/d) Flacing leve	Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear   Sear	Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   Float   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Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   Picut   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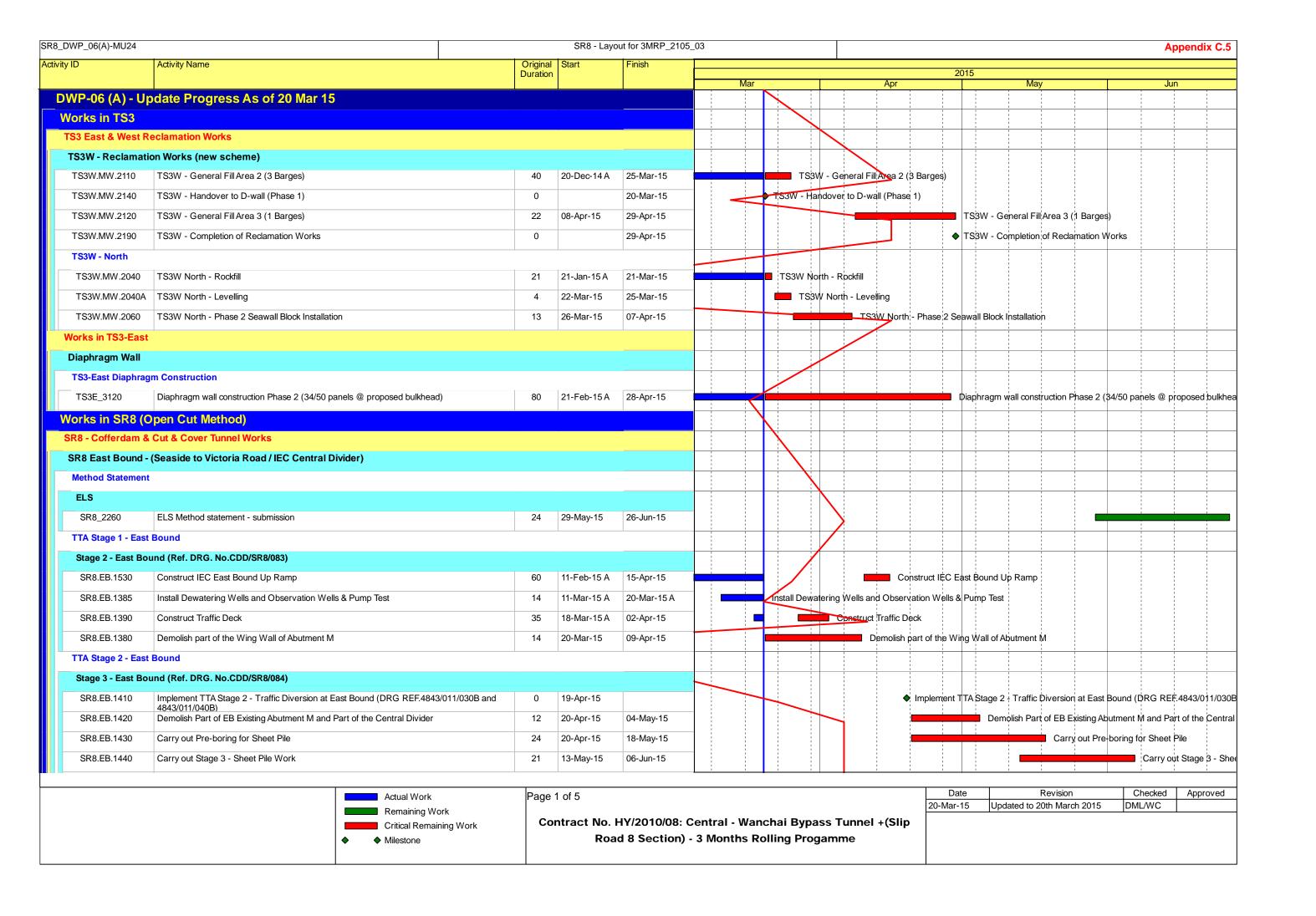
俊和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

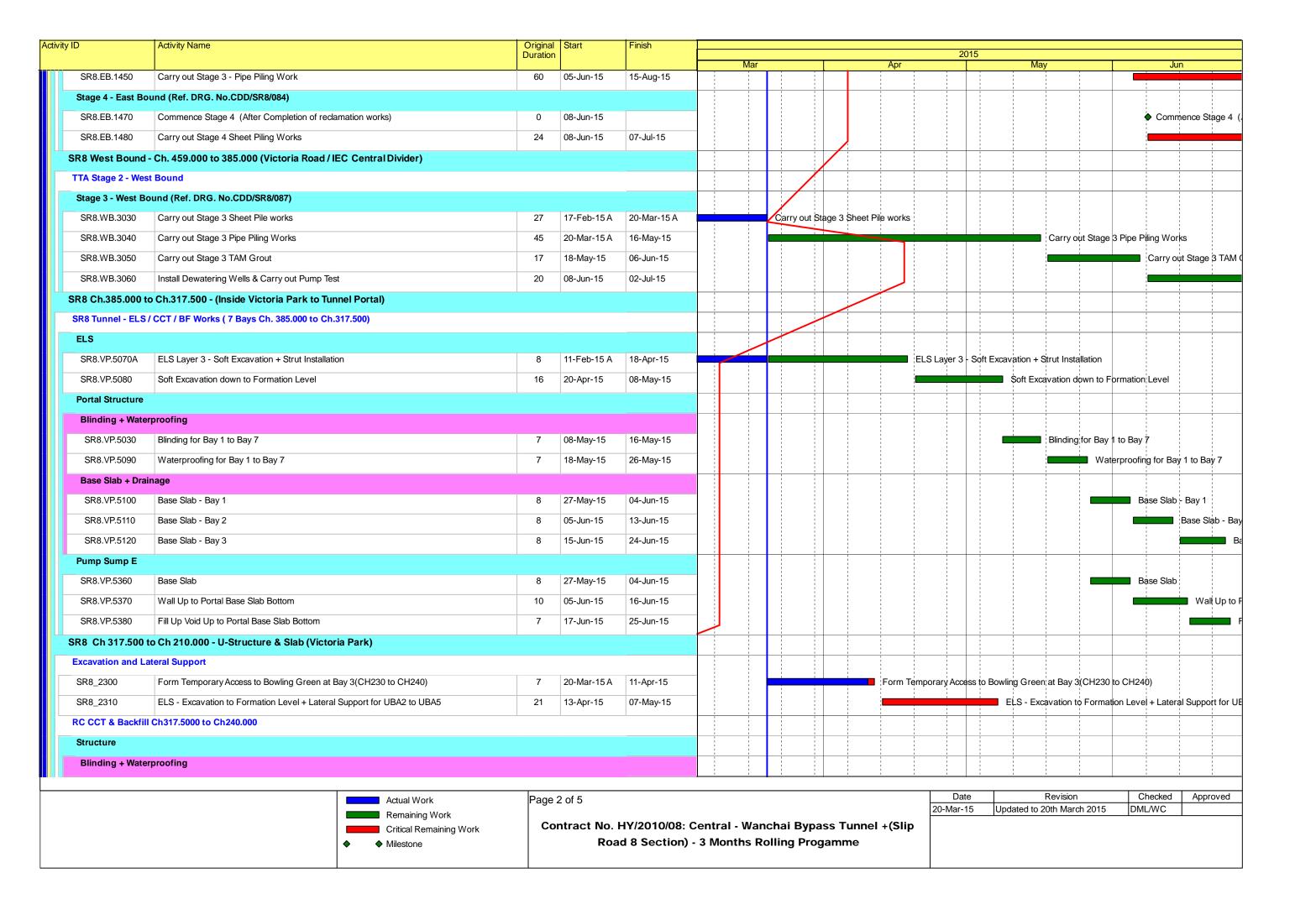


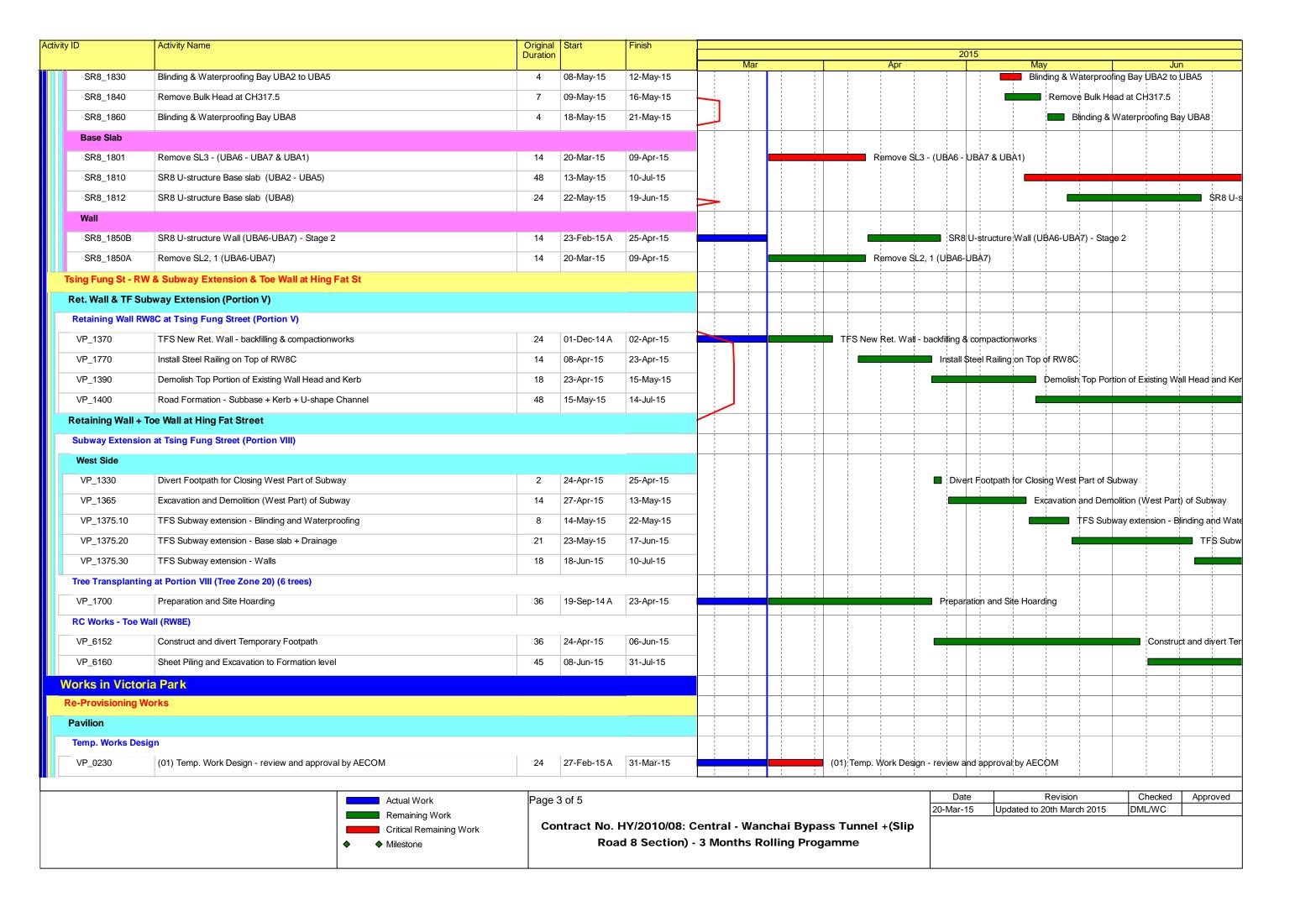
CEDD CONTRACT NO. HK/2009/02
Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai
East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Jan-15)

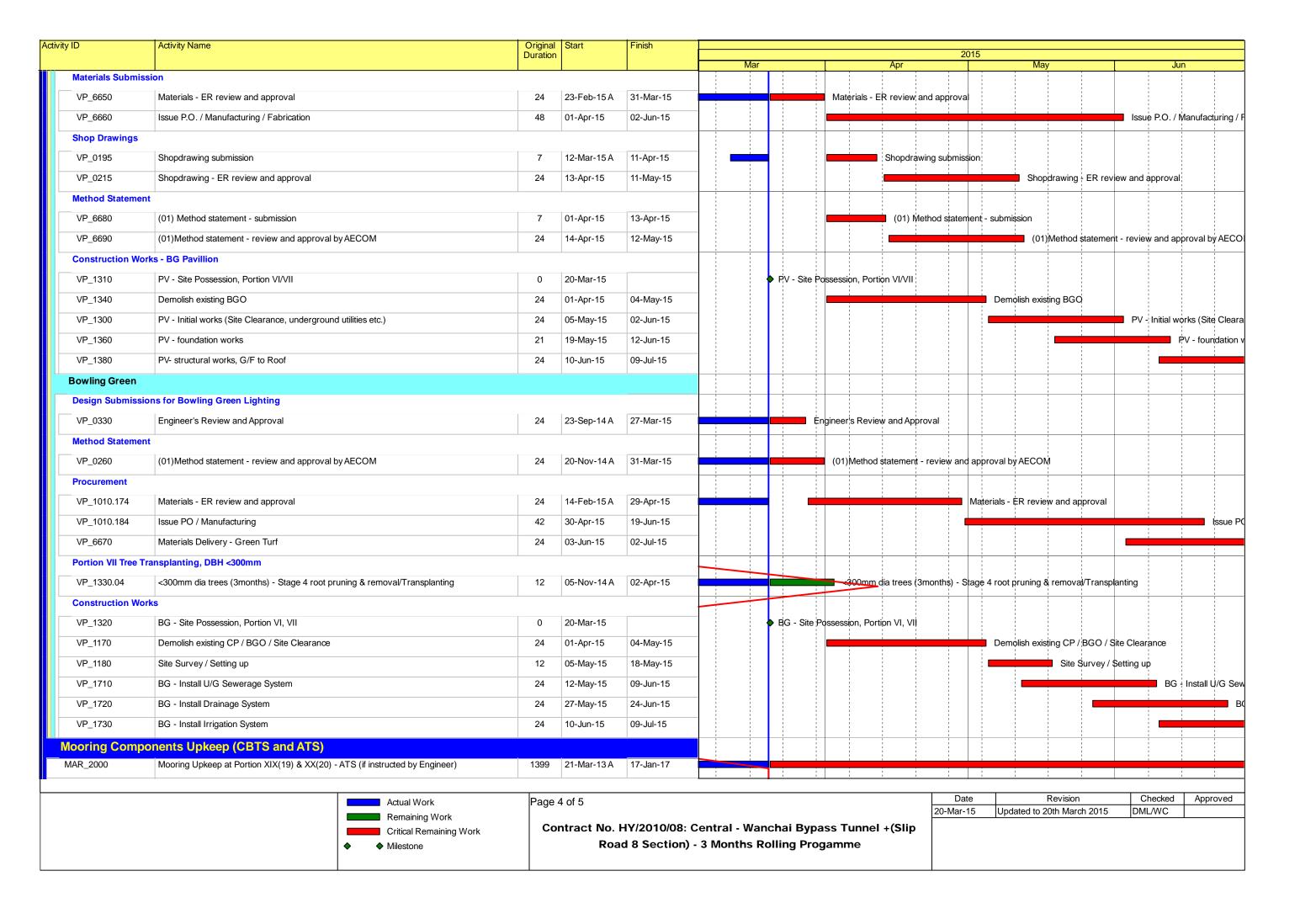
Date	Revision	Checked	Approved	
20-Jan-15	3MRP			
20-Sep-1	Revised WP			TA:
				Prir

Page 3 of 3 ASK filter: 3-Month Rolling. rint on: 23-Jan-15 14:59









Activity ID	Activity Name	Original	Start	Finish										
		Duration							20	15				
						Mar		Apr		M	ay		Ju	ın
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	09-Dec-15										
												1		
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	17-Jan-17										
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Works for Publ	ic Works Regional Laboratory (North Lantau)											i l		
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Maintenance and	Upkeep of New PWRL (Portion XVII)									i i	i	į		
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PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17							سب			
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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	Revision	Checked	Approved
20-Mar-15	Updated to 20th March 2015	DML/WC	
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