CONTRACT NO: HK/2015/01

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 3)

ENVIRONMENTAL PERMIT NO. EP-122/2002/E

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JUNE 2016 -

CLIENTS:

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Environmental Team Leader

DATE:

| 3 July 2016



Ref.: AACWBIECEM00_0_8308L.16

13 July 2016

By Post and Fax (2691 2649)

AECOM Asia Company Limited

11/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories Hong Kong

Attention: Mr. Conrad Ng

Dear Mr. Ng,

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

Monthly Environmental Monitoring and Audit Report (June 2016) for EP122/2002/E

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for June 2016 received by e-mail on 13 July 2016.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.6 of the captioned Environmental Permit.

Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,

David Yeung

Independent Environmental Checker

c.c. CEDD Mr. Stephen Lo by fax: 2577 5040

AECOM Mr. Francis Leong / Mr. Stephen Lai by fax: 2691 2649

Lam Mr. Raymond Dai by fax: 2882 3331

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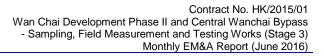
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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report June 2016 specific for Environmental Permit no. EP-122/2002/E. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of June 2016. The cut-off date of reporting is the last day of each reporting month.
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting month, the principal work activities of the contracts are included as follows:
 Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
 - Structural works for tunnel construction
 - Roadworks
 - Drainage works
 - Seawall modification

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

Nil

Noise Monitoring

- iv. Continuous noise monitoring was conducted at ACL3 City Hall.
- v. No action or limit level exceedance was recorded at ACL3 City Hall in the reporting period.
- vi. Due to safety concern, the location of the continuous noise monitoring station at City Hall was finely adjusted to the roof of the City Hall, Low Block on 1 May 2013.

Air Quality Monitoring

vii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at ACL1 – City Hall and ACL2a – Contractor HK/2012/08 Site Office.



- viii. No action or limit level exceedances was recorded at ACL 1 - City Hall and ACL2a -Contractor HK/2012/08 Site Office in the reporting month.
- ix. Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air quality monitoring station ACL1 - City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.
- Due to the large scale renovation works at People's Liberation Army Headquarter, a Proposal х. for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4th November, 2013.
- The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army xi. Headquarter (ACL2) was approved by EPD on 27 November 2013.
- According to the approved proposal for relocation of Air Quality Monitoring station, the action xii. and limit levels of ACL2a shall adopt the reference monitoring result from the baseline air monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- xiii. The air quality monitoring at ACL2a - Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

Water Quality Monitoring

- xiv. As confirmed by WDII RSS, the dredging works, seawall modification works and other associated works undertaken at Central Reclamation Phase III by Contractor HK/2012/08 was commenced in late September 2014. According to the approved EM&A manual under EP-122/2002/E, water quality monitoring shall be implemented at the Central Reclamation Phase III works area accordingly to asses any potential water quality impact during the construction period.
- Water quality monitoring at M5B and Culvert J were conducted three days per week during XV. reporting period starting from 26 September 2014. The action and limit level exceedance of water quality monitoring are summarized in Table 1.
- Due to the hoisting of Amber Rainstorm Signal, the water quality monitoring events on 6 June xvi. 2016 during ebb tide was cancelled.
- Six action level exceedances of dissolved oxygen were recorded on 18 and 30 June 2016 xvii. during flood tide and 8, 10, 18 and 30 June 2016 during ebb tide in the reporting month. After the investigation, the exceedances were concluded as non-project related. The details of recorded exceedance can be referred to the Section 5.3.

Table 1 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract	Water	Mid-flood			Mid-ebb				
No.	quality monitoring	D)	S	S	D)	S	S
	station	AL	LL	AL	LL	AL	LL	AL	LL
HK/2012/08	M5B ²	2	0	0	0	4	0	0	0
	Culvert J ¹	-	-	-	-	-	-	-	-
Total		2	0	0	0	4	0	0	0



Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3) Monthly EM&A Report (June 2016)

Remarks¹: Action or limit level are not applicable to reference station Culvert J.

Remarks²: Turbidity measurement are reported as reference.

Complaints, Notifications of Summons and Successful Prosecutions

xviii. No environmental complaint was received in this reporting month.

Site Inspections and Audit

xix. The Environmental Team (ET) conducted weekly site inspection for Contract no. HK/2012/08 and Contract no. HY/2009/18 in this reporting period. The Contractors rectified major observation and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

xx. In the coming reporting month, the principal work activities of the contract is anticipated as follows:

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

- Structural works for tunnel construction
- Roadworks
- Drainage works
- Seawall modification

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

NIL

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1 INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed take up the role as the Environmental Team (ET) under Contract HK/2015/01 Wan Chai Development Phase II and Central Wan Chai Bypass Sampling, Field Measurement and Testing works (Stage 3) to implement the Environmental Monitoring and Audit (EM&A) programme under Environmental Permit EP-122/2002/E and as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Central Reclamation Phase III Studies, Site Investigation, Design and Construction (Register No.: AEIAR-040/2001) since 27 December 2015.
- 1.1.2. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-122/2002/E, during the period of June 2016. The cut-off date of reporting is the last day 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 Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (Register No. AEIAR-040/2001) has been approved on 31 August 2001.

2.2 Scope of the Project and Site Description

- 2.2.1. The design and construction of Central Reclamation Phase III involves the permanent reclamation and construction and operation of a trunk road and its road tunnel that is shown at *Figure 2.1*.
- 2.2.2. The key purpose of the study area encompasses the area of Victoria Harbour to the southeast of the new Outlying Islands Ferry Piers and north of Edinburgh Place and Lung Wui Road. The area extends eastward to Fenwick Pier Street and the Fleet Arcade, and includes the existing GPO, Star Ferry Piers, Queens Pier, City Hall, PLA Headquarters, Hong Kong Red Cross Headquarters building and the Tamar Site. The scope of the Central Reclamation, Phase III includes:
 - Reclamation and seawalls, roads and associated services, North Island Line
 Protection Works and Advance Trunk Road Tunnel (ATRT) for the CWB;
 - Reprovisioning of Star Ferry Pier, public landing steps, wallah wallah moorings, and motor boat/launch operators' kiosks;
 - External cooling water systems which consist of the cooling water pumping shells for future developments, and the reprovisioning of existing cooling water pumping stations and associated pipework systems and E&M works;
 - Reprovisioning of existing Leisure and Cultural Services Department (LCSD)'s facilities;
 - Provision of a flood relief path, stormwater culvert extensions, upgrading of hinterland stormwater drainage resulting from the reclamation, demolition of the existing waterfront structures and necessary landscaping;
 - The Hong Kong Station Extended Overrun Tunnel (EOT) and associated ventilation structures entrusted for construction within the CRIII works;
 - Reprovisioning of the Government Heliport at the Wan Chai PCWA and reprovisioning of the Wan Chai PCWA at Chai Wan Basin.
- 2.2.3. 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 four 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
DP1	Reclamation works	Schedule 2, Part I, A.7
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1
DP3	Central-Wanchai bypass (CWB)	Schedule 2, Part I, C.1
DP4	The North Island Line (NIL) Protection Works within CRIII	Schedule 2, Part I, A.7

- 2.2.4. Contract HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West as part of the Project works by the Civil Engineering and Development Department (CEDD) is associated with Designated Project 1(DP1) and Designated Project (DP2).
- 2.2.5. Contract HY/2009/18 –Central Wan Chai Bypass (CWB) Central Interchange as part of the Project works by the Highways Department is associated with Designated Project (DP2).

2.3 Project Organization and Contact Personnel

- 2.3.1 Civil Engineering and Development Department is the overall project controllers for the Central Reclamation Phase III Project. 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.
- 2.3.2 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 2.2*:

Table 2.2 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	3922 3388	3912 3010
China State- Leader JV	Contractor under Contract	Project Director	C. N. LAI	9106 5806	2877 1522



Party	Role	Post	Name	Contact No.	Contact Fax
	no. HK/2012/08		Mr. Eddie Chung	9189 8118	
		Site Agent	Mr. Keith Tse	9037 1839	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. HO	9856 5669	
Leighton	Contractor under Contract (Asia) under Hy/2009/18	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
Contractor (Asia) Limited		Construction Manager	Mr. Darren Grant	2823 1460	
		Environmental Office	Mr. Chris Chan	3973 0885	
		Environmental Supervisor	Ms. Christy So	3973 1065	
RAMBOLL ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

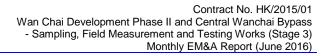
- 2.3.3 In this reporting month, the principal work activities of the contract is included as follows:

 <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West</u>
 - Structural works for tunnel construction
 - Roadworks
 - Drainage works
 - Seawall modification

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

- NIL
- 2.3.4 In coming reporting month, the principal work activities of the contract is anticipated as follows:

 <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West</u>
 - Structural works for tunnel construction
 - Roadworks





- Drainage works
- Seawall modification

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

NIL

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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-122/2002/D	1 Sep 2009	Superseded
Environmental Permit	EP-122/2002/E	24 Sep 2015	Valid

3.1.2. The current status on licences and/or permits on environmental protection pertinent for Contract no. HK/2012/08 showed in *Table 3.2.*

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	-	-	-	-
Construction Noise Permit	GW-RS0192-16	4 Mar 2016	9 Mar 2016 to 8 Sep 2016	Valid
Construction Noise Permit	GW-RS0355-16	13 Apr 2016	15 Apr 2016 to 12 Oct 2016	Valid
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Valid
Dumping Permit (Type 1- Open Sea Disposal)	EP/MD/16-173	11 Feb 2016	21 Aug 2016	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 2- Confined Marine Disposal)	-	-	-	-

3.1.3. The current status on licences and/or permits on environmental protection pertinent for Contract no. HY/2009/18 showed in *Table 3.3.*

Table 3.3 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1415-15	24 Dec 2015	1 Jan 2016 to 30 Jun 2016	Valid
Registration as a Chemical Waste Producer	N/A	N/A	N/A	N/A
Dumping Permit (Type 1- Open Sea Disposal)	N/A	N/A	N/A	N/A
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	N/A	N/A	N/A	N/A
Dumping Permit (Type 2- Confined Marine Disposal)	N/A	N/A	N/A	N/A
Approval of Tree Survey Report	N/A	N/A	N/A	N/A
Approval of Coral Translocation Report	N/A	N/A	N/A	N/A

Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3) Monthly EM&A Report (June 2016)

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under				
Waste Disposal	Account No.: 7011587	11 Oct 2010	Account approved	Valid
Ordinance (Land)			αρρίστου	

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



4 MONITORING REQUIREMENTS

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The continuous noise monitoring station for the Project is 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 Continuous Noise Monitoring Stations

District	Station	Description
Central	ACL3	City Hall

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. Continuous 24-hour noise monitoring shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
 - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
 - One set of measurements between 2300 and 0700 hours on next day on every day.
- 4.1.3. 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

- 4.1.4. 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 agrees to within 1.0 dB.
- 4.1.5. 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.

4.1.6. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.

4.2 Air Quality Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air quality 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.

Table 4.2 Air Quality Monitoring Stations

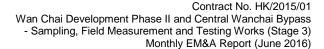
Station ID	Description
ACL1	City Hall
ACL2a	Contractor HK/2012/08 Site Office

AIR QUALITY 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;



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Lam Geotechnics Limited

- 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. 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.
- 4.2.9. 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.

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- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.
- 4.2.11. Current calibration certificates of equipment are presented in *Appendix 4.2*.



4.3 Water Quality Monitoring

WATER QUALITY MONITORING STATIONS

4.3.1 The water quality 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 Water Quality Monitoring Stations

Station ID	Description	Easting	Northing			
Cooling Wate	Cooling Water Intakes					
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters	835169	816052			
Culverts (Reference Station)						
Culvert J	Culvert J Outfall Location	835082	816071			

WATER QUALITY PARAMETERS

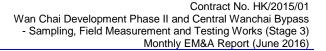
- 4.3.2. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 4.3.3. In association with the water quality parameters, other relevant 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

4.3.4. 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 4.4* 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 4.4 Marine Water Quality Monitoring Frequency and Parameters

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



Notes:

- 1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.5. 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
- 4.3.6. 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).
- 4.3.7. 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

4.3.8. 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

4.3.9. 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

4.3.10. 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

4.3.11. 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

4.3.12. 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.

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MONITORING POSITION EQUIPMENT

4.3.13. 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

- 4.3.14. 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.
- 4.3.15. 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.
- 4.3.16. 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.
- 4.3.17. Current calibration certificates of equipments are presented in Appendix 4.2.

LABORATORY MEASUREMENT / ANALYSIS

4.3.18. 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.

5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in Figure 2.1 and Figure 4.1. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are:
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West.
 - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

5.1.1 Due to safety concerned, the location of the continuous noise monitoring station at City Hall was finely adjusted to the roof of the City Hall, Low Block on 1 May 2013.

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West and Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange

5.1.2 The proposed division of noise monitoring stations is summarized in *Table 5.1* below.

Table 5.1 Continuous Noise Monitoring Stations for Contract no. HK/2012/08-and

Contract no. HY/2009/18

Location ID	District	Description
ACL3	Central	City Hall

Remarks: Continuous noise monitoring results and graphical presentation for ACL3 during restricted hours and night time period are for information only.

- 5.1.3 No action or limit level exceedance was recorded at ACL3 City Hall in the reporting period.
- 5.1.4 Continuous noise monitoring results measured in this reporting period are reviewed and summarized. Details of continuous noise monitoring results and graphical presentation can be referred to <u>Appendix 5.2.</u>

5.2 Air Quality Monitoring Results

- 5.2.1 Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air quality monitoring station ACL1 City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.
- 5.2.2 Due to the large scale renovation works at People's Liberation Army Headquarter, a Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4th November, 2013.
- 5.2.3 The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- 5.2.4 According to the approved proposal for relocation of Air Quality Monitoring station, the action and limit levels of ACL2a shall adopt the reference monitoring result from the baseline air monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- 5.2.5 The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

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

5.2.6 The proposed division of air quality monitoring stations are summarized in *Table 5.2* below.

Table 5.2 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description
ACL1	City Hall
ACL2a	Contractor HK/2012/08 Site Office

- 5.2.7 No action or limit level exceedance was recorded in the reporting month.
- 5.2.8 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

5.2.9 The proposed division of air quality monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Air Quality Monitoring Station for Contract no. HY/2009/18

Station	Description
ACL1	City Hall

5.2.10 No action or limit level exceedance was recorded in the reporting month.

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5.2.11 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.

5.3 Water Quality Monitoring Results

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

5.3.1 The proposed division of water quality monitoring stations are summarized in *Table 5.4* below.

Table 5.4 Water Quality Monitoring Station for Contract no. HK/2012/08

Station ID	Description				
Cooling Water Intakes					
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters				
Culverts (Reference Station)					
Culvert J	Culvert J Outfall Location				

- 5.3.2 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 6 June 2016 during ebb tide was cancelled.
- 5.3.3 Six action level exceedances of dissolved oxygen were recorded on 18 and 30 June 2016 during flood tide and 8, 10, 18 and 30 June 2016 during ebb tide in the reporting month. After the investigation, the exceedances were concluded as non-project related.
- 5.3.4 No marine works was conducted under Contract HK/2012/08 on 8 June 2016 during ebb tide while nearby culvert discharge was observed. Low SS level was recorded during monitoring period. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedances were not related to Project.
- 5.3.5 No marine works was conducted under Contract HK/2012/08 on 10 June 2016 during ebb tide while nearby culvert discharge was observed. Low SS level was recorded during monitoring period. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedances were not related to Project.
- 5.3.6 Removal of seawall blocks was conducted under Contract HK/2012/08 on 18 June 2016 during ebb tide. Contractor mitigation measures including deployment of localized silt curtain was in place. The construction area was located at downstream at M5B monitoring station. Low SS level was recorded during monitoring period. In view of the above, it was considered that the exceedance was not related to Project.
- 5.3.7 Removal of seawall blocks was conducted under Contract HK/2012/08 on 18 June 2016 during flood tide. Contractor mitigation measures including deployment of localized silt curtain



was in place. Low SS level was recorded during monitoring period. In view of the above and no exceedance was recorded on subsequent monitoring, it was considered that the exceedance was not related to Project.

- 5.3.8 Handling of rockfill by derrick barge was conducted under Contract HK/2012/08 on 30 June 2016 during ebb tide. Contractor mitigation measures including deployment of localized silt curtain was in place. The construction area was located at downstream at M5B monitoring station. Low SS level was recorded during monitoring period. In view of the above, it was considered that the exceedance was not related to Project.
- 5.3.9 Handling of rockfill by derrick barge was conducted under Contract HK/2012/08 on 30 June 2016 during flood tide. Contractor mitigation measures including deployment of localized silt curtain was in place. Low SS level was recorded during monitoring period. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not related to Project.
- 5.3.10 Water quality monitoring results measured in this reporting period are reviewed and summarized. Detail of water quality monitoring results and graphical presentation can be referred in *Table 5.5* and *Appendix 5.4*

Table 5.5 Summary of Water Quality Monitoring Exceedance in Reporting Month

Contract Water quality		Mid-flood			Mid-ebb				
No.	monitoring station	DO		SS		DO		SS	
		AL	LL	AL	LL	AL	LL	AL	LL
HK/2042/00	M5B ²	2	0	0	0	4	0	0	0
HK/2012/08	Culvert J ¹	-	-	-	-	-	-	-	
Т	otal	2	0	0	0	4	0	0	0

Remarks¹: Action or limit level are not applicable to reference station Culvert J.

Remarks²: Turbidity measurement are reported as reference.

5.4 Waste Monitoring Results

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

5.4.1 Inert and non-inert C&D wastes were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.6*



Table 5.6 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	175 14	7536 49588	TM38 TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	100	1450	SENT Landfill
Non-inert C&D materials recycled, m3	NIL	NIL	NIL
Chemical waste disposed, kg	NIL NIL		NIL
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (Bulk volume)	0 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 2) , m ³	0 (Bulk volume)	0 (Bulk volume)	South of The Brothers

Contractor no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange

5.4.2 Inert and non-inert C&D wastes were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.7*

Table 5.7 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	NIL	NIL	NIL
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	NIL	NIL	NIL
Non-inert C&D materials recycled, m3	NIL	NIL	NIL
Chemical waste disposed, kg	NIL	NIL	NIL



6 Compliance Audit

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

6.1 Noise Monitoring

- Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West
- 6.1.1 No action or limit level exceedance was recorded at ACL3 City Hall in the reporting month.

 Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 6.1.2 No action or limit level exceedance was recorded at ACL3 City Hall in the reporting month.

6.2 Air Quality Monitoring

- Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West
- 6.2.1. No action or limit level exceedance was recorded in the reporting month.
 - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
- 6.2.2. No action or limit level exceedance was recorded in the reporting month.

6.3 Water Quality Monitoring

- <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at</u> Wan Chai West
- 6.3.1 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring events on 6 June 2016 during ebb tide was cancelled.
- 6.3.2 Six action level exceedances of dissolved oxygen were recorded on 18 and 30 June 2016 during flood tide and 8, 10, 18 and 30 June 2016 during ebb tide in the reporting month. After the investigation, the exceedances were concluded as non-project related
- 6.4 Review of the Reasons for and the Implications of Non-compliance
- 6.4.1 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 Summary of action taken in the event of and follow-up on non-compliance
- 6.5.1 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. This section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 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. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting month.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, structural works for tunnel construction, roadworks, drainage works and seawall modification were performed in June 2016 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel and backfilling works at Wan Chai East and culvert construction, tunnel construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were road works and ventilation building construction at Central Interchange, temporary reclamation removal works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, ELS works and tunnel works at TS3; bridge construction, piling and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North and North Point area.
- 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 water, 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

8.1.1 During this reporting month, four weekly site inspections were carried out on 7, 14, 21 and 28

June 2016 for Contract no. HK/2012/08. No observation was found during the reporting period.

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
160526_	1 26/5/2016	Stockpile from road works from Lung Wo Road shall be covered	Stockpile was observed removed at Lung Wo Road works area.	

8.1.2 During this reporting month, five weekly site inspections were carried out on 2, 10, 17, 23 and 30 June 2016 for Contract no. HY/2009/18. No observation was found during the reporting month-

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.1.1 No environmental complaint was received in this reporting month.
- 9.1.2 The details of cumulative complaint log and updated summary of complaints are presented in <u>Appendix 9.1</u>
- 9.1.3 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	
July 2013 – May 2016	3	
June 2016	0	
Total	3	

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	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	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*. The construction programmes of individual contracts are provided in *Appendix 10.1*.

Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

Contract	Key Construction Works	Recommended Mitigation Measures
No.		
HK/2012/08	Structural works for	Dust control during dust generating works;
	tunnel construction	Implementation of proper noise pollution
	• Roadworks	control; and
	Drainage works	Provision of protection to ensure no runoff
	Seawall modification	out of site area or direct discharge into
		public drainage system.
HY/2009/18	• NIL	• NIL