

AUES PROJECT NO. TCS/00704/14

CONTRACT NO. MTRC6593-13C – Wan Chai Station Lee Tung Street Subway

7th Quarterly Environmental Monitoring and Audit (EM&A) Summary Report – March 2016 to May 2016

PREPARED FOR KADEN CONSTRUCTION LIMITED

Quality Index

Date	Reference No.	Prepared By	Approved By
18 August 2016	TCS00704/14/600/R0106v2	ALD	Am
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Version	Date	Description
1	15 August 2016	First Submission
2	18 August 2016	Amended against IEC's comment



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By Email and Post

MTR Corporation Limited Fo Tan Railway House No. 9, Lok King Street, Fo Tan Shatin, N.T., Hong Kong

Attn.: Mr. Kenneth Chow / Environmental Engineer II

31 August 2016

Dear Sirs

Consultancy Agreement A130-13 Independent Environmental Checker for CRS and LTS LTS - Verification for Seventh Quarterly Environmental Monitoring and Audit (EM&A) Report (March 2016 to May 2016) (Report No.: TCS00704/14/600/R0106v2)

We refer to the 7th Quarterly EM&A Report (March 2016 to May 2016) received under cover of the email from the Environmental Team, AUES, dated on 17 August 2016.

Further to our comments provided on 17 August 2016 and subsequent revision of the Report by AUES on 18 August 2016, we have no further comment and have verified the captioned report (Report No.: TCS00704/14/600/R0106v2).

Should you have any queries, please feel free to contact the undersigned at 3922 9529.

Yours faithfully AECOM Consulting Services Ltd

Y. W. Fung Independent Environmental Checker

LLMC/wwsc

cc Kaden Consturction Limited (Attn.: Mr. Ronald Fung) via email AUES (Attn.: Ms. Nicola Hon) via email



EXECUTIVE SUMMARY

ES01 This is the 7th Quarterly EM&A Summary Report for the Contract No. *MTRC6593-13C – Wan Chai Station Lee Tung Street Subway* (hereinafter "the Project"), which is a Designated Project to be implemented under Environmental Permit EP-444/2012/A (hereinafter referred as "the EP-444/2012/A" or "the EP"), covering the period from 1 March 2016 to 31 May 2016 (hereinafter "Reporting Period").

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES02 Environmental monitoring activities under the EM&A programme in the Reporting Period are summarized in the following table.

		Reporting Period	
Environmental Aspect	Environmental Monitoring Parameters / Inspection	Number of Monitoring Locations to undertake	Total Occasions
Air Quality	24-hour TSP	1	16
Construction Noise	L _{eq(30min)} Daytime	2	28
Site Inspection /	Weekly inspection with ET, the Contractor and RE		13
Audit	Monthly joint inspection with ET, the Contractor, RE and IEC		3

BREACHES OF ACTION/LIMIT LEVELS

ES03 In this Reporting Period, monitoring results demonstrated that no exceedance of environmental quality criteria recorded in air quality and construction noise. The summary of breach of environmental performance is shown below.

Environmentel	Monitoning	Action	Timit	Event & Action		
Aspect	Parameters	Level	Limit Level	NOE Issued	Investigation	Corrective Actions
Air Quality	24-hour TSP	0	0	0	0	0
Construction Noise	L _{eq(30min)} Daytime	0	0	0	0	0

ENVIRONMENTAL COMPLAINT

ES04 No public complaint was received in the Reporting Period.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES05 No environmental summons or successful prosecutions were recorded in the Reporting Period.

REPORTING CHANGES

ES06 No reporting changes were made in the Reporting Period.

FUTURE KEY ISSUES

- ES07 Construction noise is the key environmental issue during construction work of the Project as there are residential buildings nearby. Noise mitigation measures should be fully implemented in accordance with the EM&A requirement.
- ES08 Special attention should be paid on the potential construction dust impact as the construction site is located near the residential area. The Contractor should fully implement the construction dust mitigation measures properly.
- ES09 The Contractor should prevent muddy water and other water pollutants via site surface water runoff get into public areas and implement water quality mitigation measures properly. Any discharge water should be strictly complied with wastewater discharge license requirement.



TABLE OF CONTENTS

1	INTRODUCTION Project Background Report Structure	1 1 1
2	PROJECT ORGANIZATION AND SUBMISSION Project Organization Summary of Environmental Submissions Construction Progress	2 2 3 4
3	 SUMMARY ENVIRONMENTAL IMPACT MONITORING REQUIREMENTS MONITORING PARAMETERS MONITORING LOCATIONS MONITORING FREQUENCY AND PERIOD MONITORING EQUIPMENT MONITORING METHODOLOGY DERIVATION OF ACTION/LIMIT (A/L) LEVELS DATA MANAGEMENT AND DATA QA/QC CONTROL 	5 5 5 6 7 8 8
4	AIR QUALITY MONITORING RESULTS 24-Hour TSP Air Quality Monitoring Results	9 9
5	CONSTRUCTION NOISE MONITORING RESULTS Noise Monitoring Results	10 10
6	WASTE MANAGEMENT General Waste Management Records of Waste Quantities	11 11 11
7	SITE INSPECTION Findings / Deficiencies During the Reporting Month	12 12
8	ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE Environmental Complaint, Summons and Prosecution	14 14
9	IMPLEMENTATION STATUS OF MITIGATION MEASURES Mitigation Measures Undertake in the Reporting Period	15 15
10	CONCLUSIONS AND RECOMMENDATIONS Conclusion Recommendations	16 16 16



LIST OF TABLES

- TABLE 2-1
 SUBMISSION/SET-UP STATUS OF THE EP REQUIREMENTS
- TABLE 2-2
 STATUS OF ENVIRONMENTAL LICENSES AND PERMITS
- TABLE 3-1
 SUMMARY OF THE MONITORING PARAMETERS OF EM&A REQUIREMENTS
- TABLE 3-2
 AIR AND NOISE MONITORING LOCATIONS
- TABLE 3-3
 AIR QUALITY MONITORING EQUIPMENT
- TABLE 3-4
 CONSTRUCTION NOISE MONITORING EQUIPMENT
- TABLE 3-5
 ACTION AND LIMIT LEVELS FOR AIR QUALITY MONITORING
- TABLE 3-6
 ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE
- TABLE 4-1SUMMARY OF 24-HOUR TSP MONITORING RESULTS
- TABLE 5-1SUMMARY OF NOISE MONITORING RESULTS
- TABLE 5-2ADJUSTMENT OF CONSTRUCTION NOISE LEVEL FOR N1, DB(A)
- TABLE 6-1SUMMARY OF QUANTITIES OF INERT C&D MATERIALS
- TABLE 6-2SUMMARY OF QUANTITIES OF C&D WASTES
- TABLE 7-1SITE OBSERVATIONS
- TABLE 8-1
 STATISTICAL SUMMARY OF ENVIRONMENTAL COMPLAINTS
- TABLE 8-2STATISTICAL SUMMARY OF ENVIRONMENTAL SUMMONS
- TABLE 8-3
 STATISTICAL SUMMARY OF ENVIRONMENTAL PROSECUTION
- TABLE 9-1
 SUMMARY OF ENVIRONMENTAL MITIGATION MEASURES

LIST OF APPENDICES

- APPENDIX A PROJECT SITE LAYOUT PLAN
- APPENDIX B ORGANIZATION OF THE PROJECT
- APPENDIX C MASTER CONSTRUCTION PROGRAMME
- APPENDIX D MONITORING LOCATIONS
- APPENDIX E EVENT AND ACTION PLAN
- APPENDIX F GRAPHICAL PLOTS
- APPENDIX G METEOROLOGICAL INFORMATION
- APPENDIX H WASTE FLOW TABLE
- APPENDIX I IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURES (ISEMM)



1 INTRODUCTION

PROJECT BACKGROUND

- 1.01 **KADEN CONSTRUCTION LIMITED** (hereinafter 'KCL') has been awarded by the MTR Corporation Limited (MTRCL) of the Contract No. *MTRC6593-13C – Wan Chai Station Lee Tung Street Subway* (hereinafter "the Project"), which is a Designated Project to be implemented under Environmental Permit EP-444/2012 (hereinafter referred as "the EP-444/2012" or "the EP").
- 1.02 The Project includes redevelopment of the Lee Tung Street area to improve pedestrian networking by enhancing the accessibility, connectivity and circulation of human traffic north-south from Queen's Road East area to Wan Chai MTR Station, and providing a safe and attractive means for pedestrian crossing of Johnston Road. The Project site layout plan is shown in *Appendix A* and works under the Project comprise:
 - (i) Construction of a pedestrian subway link between Urban Renewal Authority's Redevelopment at Site H15 (the Development) and Wan Chai Station (WAC);
 - (ii) Construction of two ventilation shafts; and
 - (iii) Modification works of some of the station concourse.
- 1.03 The Project is expected to take about 36 months. In order to effectively implement the environmental protection measures as stipulated in the Particular Specification (PS) of Project, an Environmental Monitoring and Audit Plan (EMAP) which enclosed in the Project Profile (PP) was prepared to guide the setup of the environmental monitoring and audit (EM&A) programme of the Project. The construction of the Project was commenced on 28 August 2014.
- 1.04 Action-United Environmental Services and Consulting (AUES) has been commissioned by KCL as the independent environmental team (ET) to implement the relevant EM&A programme of the Project.
- 1.05 This is the 7th Quarterly EM&A Summary Report presenting the monitoring results and inspection findings in the Reporting Period from 1 March 2016 to 31 May 2016.

REPORT STRUCTURE

1.06 This Report is structured into the following sections:-

Section 1	Introduction
Section 2	Project Organization
Section 3	Summary of Impact monitoring Requirements
Section 4	Air Quality Monitoring Results
Section 5	Construction Noise Monitoring Results
Section 6	Waste Management
Section 7	Site Inspections
Section 8	Environmental Complaint and Non-Compliance
Section 9	Implementation Status of Mitigation Measures
Section 10	Conclusions and Recommendations



2 PROJECT ORGANIZATION AND SUBMISSION

PROJECT ORGANIZATION

2.01 The project organization is shown in *Appendix B*. The responsibilities of respective parties are:

MTR Corporation Limited (MTRCL)

2.02 MTRCL is the Project Proponent and the Permit Holder of the EP of the development of the Project and will assume overall responsibility for the project. Also, an Independent Environmental Checker (IEC) should be employed by MTRCL to audit the results of the EM&A work conducted by Environmental Team.

Environmental Protection Department (EPD)

2.03 EPD is the statutory enforcement body for environmental protection matters in Hong Kong.

<u>Resident Engineer (RE)</u>

- 2.04 The RE is responsible for overseeing the construction works and for ensuring that the works are undertaken by the Contractor in accordance with the specification and contract requirements. The duties and responsibilities of the ER with respect to EM&A are:
 - Monitor the Contractor's compliance with Contract Specifications, including the effective implementation and operation of the environmental mitigation measures;
 - Inform the Contractor when action is required to reduce impacts in accordance with the Event and Action Plans;
 - Participate in site inspections undertaken by the ET; and
 - Co-operate with the ET in providing all the necessary information and assistance for completion of the complaint investigation works.

Independent Environmental Checker (IEC)

- 2.05 The IEC should advise the ET and RE on environmental issues related to the project. The IEC should audit from an independent viewpoint on the environmental performance during the construction of the project. The IEC should be a person who has relevant professional qualifications in environmental control and at least 7 years' experience in EM&A and environmental management. The duties and responsibilities of the IEC are:
 - Review and audit in an independent, objective and professional manner in all aspects of the EM&A programme;
 - Validate and confirm the accuracy of monitoring results, appropriateness of monitoring equipment, monitoring locations with reference to the locations of the nearby sensitive receivers, and monitoring procedures;
 - Carry out random sample check and audit on monitoring data and sampling procedures, etc;
 - Conduct random site inspection;
 - Review the effectiveness of environmental mitigation measures and project environmental performance;
 - On an as-need basis, verify and certify the environmental acceptability of the construction methodology (both temporary and permanent works), relevant design plans and submissions under the environmental permit. Where necessary, the IEC should agree in consultation with the ET and the Contractor least impact alternative;
 - Check complaint cases and the effectiveness of corrective measures;
 - Verify EM&A report certified by the ET Leader; and
 - Feedback audit results to RE/ET according to the Event/Action Plan.

Environmental Team (ET)

- 2.06 The ET should conduct the EM&A programme and ensure the Contractor's compliance with the project's environmental performance requirements during construction. The ET should plan, organize and manage the implementation of the EM&A programme and ensure that the EM&A works are undertaken to the required standard.
- 2.07 The ET should be led and managed by the ET Leader. The ET Leader should have relevant



professional qualifications in environmental control and possess at least 7 years' experience in EM&A. The ET Leader should be responsible for the implementation of the EM&A programmes in accordance with the EM&A requirements. The duties and responsibilities of the ET include:

- Sampling, analysis and statistical evaluation of monitoring parameters;
- Environmental site surveillance;
- Inspection and audit of compliance with environmental protection, and pollution prevention and control regulations;
- Assess the effectiveness of the environmental mitigation measures implemented;
- Monitor compliance with the environmental protection clauses/specifications in the Contract;
- Review construction programme and comment as necessary;
- Review work methodologies which may affect the extent of environmental impact during the construction phase and comment as necessary;
- Complaint investigation, evaluation and identification of corrective measures;
- Liaison with the IEC on all environmental performance matters, and timely submission of all relevant EM&A proforma for IEC's approval; and
- Advice to Contractor on environmental improvement, awareness and enhancement matters etc.

The Contractor

4.2

- 2.08 The Contractor should report to the RE. The duties and responsibilities of the Contractor are:
 - Comply with the relevant contract conditions and specifications on environmental protection
 - Participate in the site inspections undertaken by the ET;
 - Provide assistance to ET to carry out monitoring;
 - Provide requested information to the ET in the event of any exceedance in the environmental criteria (Action/Limit levels);
 - Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event / Action Plans; and
 - Cooperate with the ET in providing all the necessary information and assistance for completion of the complaint investigation works. If mitigation measures are required following the investigation, the Contractor should promptly carry out these measures.

SUMMARY OF ENVIRONMENTAL SUBMISSIONS

Internet website

2.09 In according with the EP stipulation, the required documents submission status to EPD for retention as listed below:

 EP Condition
 Submission
 Status

 2.3
 Management Organization of Main Construction Companies
 Submitted

 2.7
 Landscape Plan
 Submitted

 3.3
 Baseline Monitoring Report (*TCS00704/14/600/R0010v4*)
 Submitted

 Table 2-1
 Submission/Set-up Status of the EP Requirements

2.10 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project are presented in *Table 2-2*.

 Table 2-2
 Status of Environmental Licenses and Permits

Item	Description	License/Permit Status
1	Air pollution Control (Construction Dust) Regulation	Notified EPD
2	Chemical Waste Producer Registration - Waste	WPN:5213-131-K3099-01
Ζ.	Producers Number	Approved on 14/05/2014
3	Water Pollution Control Ordinance Discharge	License no.: WT00019539-2014
	License	Approved on 16/07/2014
	License	Valid to: 31/07/2019
4	Waste Disposal Regulation - Billing Account	Account no.: 7019837
	for Disposal of Construction Waste	Approved on 30/04/2014

Live



Item	Description	License/Permit Status
5	Construction Noise Permit under Noise Control	GW-RS0923-15 obtained on 11 Sep
	Ordinance	2015
		Valid from 11 Sep 2015 to 10 March
		2016
		GW-RS0970-15 obtained on 14 Sep
		2015
		Valid from 14 Sep 2015 to 12 March
		2016
		GW-RS0164-16 obtained on 11 Mar
		2016
		Valid from 11 Mar 2016 to 10 Sep 2016
		GW-RS0165-16 obtained on 14 Mar
		2016
		Valid from 14 Mar 2016 to 13 Sep
		2016

CONSTRUCTION PROGRESS

2.11 In the Reporting Period, construction activities conducted are listed below. Moreover, the master construction program is enclosed in *Appendix C*.

March 2016

- Construction of mini piles and excavation for primary RC beam of tram deck at Eastbound
- Sheet piling and grouting at Westbound footpath
- Side wall concreting for North Basketball Court
- Block Walls for AFC Audit Room

<u>April 2016</u>

- Construction of main beam for mini piles at Eastbound
- Mini piles and Construction of main beam for mini piles at Westbound footpath
- RC structure for new subway for North Basketball Court
- ABWF for external finishing at WAC Station

<u>May 2016</u>

- Construction of main beam and traffic deck, reinstatement of site area at Eastbound
- Construction of main beam for mini piles and bulk excavation at Westbound footpath
- Modification of steel decking platform at Children Playground
- ABWF for external finishing at WAC Station



3 SUMMARY ENVIRONMENTAL IMPACT MONITORING REQUIREMENTS

3.01 The ET will implement the EM&A programme in accordance with the requirements in EMAP. Details of the EM&A programme are presented in the following sub-sections.

MONITORING PARAMETERS

- 3.02 The EM&A impact monitoring program covers the following environmental aspects:
 - Air Quality; and
 - Construction noise
- 3.03 A summary of the monitoring parameters is presented in *Table 3-1*:

 Table 3-1
 Summary of the Monitoring Parameters of EM&A Requirements

Environmental Issue	Parameters
Air Quality	 24-hour Total Suspended Particulate (hereinafter '24-hour TSP') 1-hour TSP monitoring ^(*)
Construction Noise	• A-weighted equivalent continuous sound pressure level (30min) (hereinafter 'L _{eq(30min})' during the normal working hours

Remarks:

(*) In case 24-hour TSP exceed the air quality criteria to be carried out

MONITORING LOCATIONS

3.04 According to Sections 2.3 and 3.4 of the EMAP attached to the Project Profile (Register No. PP-472/2012), construction noise and air quality monitoring location is required to be set up at Hennessy Building and Chiu Hin Mansion. In early May 2014, site visit was conducted to select suitable locations to carry out relevant noise and air monitoring for the EM&A Programme. It was noted that both Hennessy Building and Chiu Hin Mansion are residential buildings and only the 1/F to 2/F of the buildings could be accessed which are commercial premises. It is not possible to set up the monitoring station at upper floors inside the residential apartment which will cause nuisance to the residents. Finally, two locations at lower floor were selected which access were successfully granted by the premises occupiers. The monitoring stations proposed for the Project are summarized *Table 3-2* and illustrated in *Appendix D*.

Aspect	Monitoring Location	Location ID	Address	Description
Air Quality	Chiu Hin Mansion	A1	balcony at 1/F of Chiu Hin Mansion	ASR close to the Project site
Construction	Hennessey Building	N1	2/F floor of Hennessey Building	NSR facing to the Project site
Noise	Chiu Hin Mansion	N2	balcony at 1/F of Chiu Hin Mansion	NSR facing to the Project site

Table 3-2Air and Noise Monitoring Locations

MONITORING FREQUENCY AND PERIOD

3.05 The requirements of impact monitoring are stipulated in the EMAP and presented as follows.

<u>Air Quality</u>

- 3.06 Frequency of impact air quality monitoring is as follows:
 - 24-hour TSP Once every 6 days during course of works.
- 3.07 In case of non-compliance with the air quality criteria, a more frequent monitoring exercise adopting 1-hour TSP monitoring undertaken when the highest dust impact occurs, as specified in the Event and Action Plan, should be conducted within 24 hours after the result is obtained. This additional monitoring should be continued until excessive dust emission or the deterioration in air quality is rectified.



Construction Noise

3.08 One set of $L_{eq(30min)}$ as 6 consecutive $L_{eq(5min)}$ between 0700-1900 hours on normal weekdays and once every week during course of works. If construction work necessary to carry out at other time periods, i.e. restricted time period (19:00 to 07:00 the next morning and whole day on public holidays) (hereinafter referred as "the restricted hours"), 3 consecutive $L_{eq(5min)}$ measurement will depended CNP requirements to undertake. Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

MONITORING EQUIPMENT

Air Quality Monitoring

- 3.09 The 24-hour TSP 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.* A direct reading dust meter is used to measure 1-hour TSP air quality in case of non-compliance with air quality criteria of the 24-Hour TSP measurement.
- 3.10 The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory. All equipment to be used for air quality monitoring is listed in *Table 3-3*.

Equipment	Model
24-hour TSP	
High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
Calibration Kit	TISCH Model TE-5028A
1- hour TSP	
Destable Dest Mater	TSI Model 8520 DustTrak Aerosol Monitor / Aerocet 531
Portable Dust Meter	Laser Dust Monitor

Table 3-3Air Quality Monitoring Equipment

- 3.11 According to the EMAP, wind data monitoring equipment shall also be provided and set up for logging wind speed and wind direction near the dust monitoring locations. The equipment installation location shall be proposed by the ET and agreed with the IEC. For installation and operation of wind data monitoring equipment, the following points shall be observed:
 - 1) The wind sensors should be installed 10 m above ground so that they are clear of obstructions or turbulence caused by buildings.
 - 2) The wind data should be captured by a data logger. The data shall be downloaded for analysis at least once a month.
 - 3) The wind data monitoring equipment should be re-calibrated at least once every six months.
 - 4) Wind direction should be divided into 16 sectors of 22.5 degrees each.
- 3.12 Although ET was successful granted HVS installation premises, however, the owners rejected to provide premises for wind data monitoring equipment installation.
- 3.13 In this situation, the ET proposed alternative methods to obtain representative wind data. Meteorological information as extracted from "the Hong Kong Observatory King's Park Station" is alternative method to obtain representative wind data. For King's Park Station, it also can provide the humidity, rainfall, and air pressure and temperature etc. meteorological information. In Hong Kong of a lot development projects, weather information extracted from Hong Kong Observatory is common alternative method if weather station installation not allowed.
- 3.14 Although there are other closer weather stations, King's Park Station was selected as it is the nearest weather station that measures all the relevant parameters mentioned above. Moreover, the ET has compared the data among the stations, and concluded that there is minimal difference between meteorological data collected at the King's Park station and other stations.



Construction Noise Monitoring

- 3.15 Sound level meter 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. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m s-1. Furthermore, an acoustic calibrator and sound level meter shall be calibrated yearly.
- 3.16 Noise monitoring equipment to be used for monitoring is listed in *Table 3-4*.

Table 3-4Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	B&K Type 2238 or Rion NL-14
Calibrator	Rion NC-73 / B&K Type 4231/ Cesva CB-5
Portable Wind Speed Indicator	Testo Anemometer

MONITORING METHODOLOGY

24-hour TSP

- 3.17 The equipment used for 24-hour TSP measurement listed in Table 3-3, is a Tisch Environmental, Inc. Model TE-5170 TSP high volume air sampling system, which complied with EPA Code of Federal Regulation, Appendix B to Part 50. The High Volume Air Sampler (HVS) consists of the following:
 - a. An anodized aluminum shelter;
 - b. A 8"x10" stainless steel filter holder;
 - c. A blower motor assembly;
 - d. A continuous flow/pressure recorder;
 - e. A motor speed-voltage control/elapsed time indicator;
 - f. A 7-day mechanical timer, and
 - g. A power supply of 220v/50 hz
- 3.18 The HVS is calibrated in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5028A). The 24-hour TSP Monitoring using the HVS is also processed in accordance with the manufacturer's Operations Manual.
- 3.19 24-hour TSP is collected by the ET on filters of HVS and quantified by a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (ALS), upon receipt of the samples. The ET keeps all the sampled 24-hour TSP filters in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.

Noise

- 3.20 Sound level meter listed in *Table 3-4* comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications, as recommended in Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), which was used for baseline noise monitoring.
- 3.21 The noise measurement is performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq(30min) in six consecutive Leq(5 min) measurements were used as the monitoring parameter.
- 3.22 During monitoring, the sound level meter mounted at the monitoring locations and oriented such that the microphone pointed to the site with the microphone facing perpendicular to the line of sight. The windshield was fitted for the measurement. For the monitoring, N1 and N2 are conducted 1 m from the exterior of the building façade.
- 3.23 Prior construction noise measurement, the accuracy of the sound level meter checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The calibration level from before and after the noise measurement agrees to within 1.0dB.



DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.24 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to EMAP, the air quality and construction noise criteria were set up, namely Action and Limit levels are listed in *Tables 3-5* and *3-6*.

Table 3-5	Action and	Limit Levels	for Air Qu	ality Monitoring

Monitoring Station	Action Lev	vel (µg /m ³)	Limit Level (µg/m ³)		
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
A1	290	162	500	260	

Table 3-6Action and Limit Levels for Construction Noise

Monitoring Station	0700-1900 hours on normal weekdays				
Monitoring Station	Action Level	Limit Level			
N1 and N2	When one documented complaint is received	75 dB(A)			

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the NCA have to be followed.

3.25 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix E*.

DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.26 The all monitoring data were handled by the ET's in-house data recording and management system.
- 3.27 The monitoring data recorded in the equipment were downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data were input into a computerized database properly maintained by the ET. The laboratory results were input directly into the computerized database and checked by personnel other than those who input the data.
- 3.28 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4 AIR QUALITY MONITORING RESULTS

4.01 In the Reporting Period, **16** occasions of 24-hours TSP monitoring was carried out at the proposed location A1.

24-HOUR TSP AIR QUALITY MONITORING RESULTS

4.02 The monitoring results are summarized in *Table 4-1*. The relevant graphical plots are shown in *Appendix F*.

Table 4-1	Summary of 24-hour TSP	Monitoring Results
	J	

Data	A1 - Ba	lcony at 1/F of Chiu Hin I	Mansion	
Date	24-hour TSP (µg/m ³)	ur TSP (µg/m ³) Action Level (µg/m ³)		
1-Mar-16	77			
7-Mar-16	103			
12-Mar-16	76			
18-Mar-16	100			
24-Mar-16	162			
30- Mar-16	51			
5-Apr-16	51	160		
11-Apr-16	50		260	
16-Apr-16	78	102	200	
22-Apr-16	85			
28-Apr-16	65			
4-May-16	51			
10-May-16	57			
16-May-16	56			
21-May-16	90			
27-May-16	18			
Average (Range)		72 (18 - 162)		

- 4.03 As shown in *Table 4-1*, 24-hour TSP monitoring results are fluctuated below Action/ Limit Levels.
- 4.04 In the Reporting Period, dust concentration of the minimum was measured on 27 May 2016 and maximum was measured on 24 March 2016. Moreover, Average value in the Reporting Period is $72 \ \mu g/m^3$.
- 4.05 The summary of meteorological information during the Reporting Period is presented in *Appendix G*.



5 CONSTRUCTION NOISE MONITORING RESULTS

5.01 In the Reporting Period, total **28** occasion of construction noise measurement was conducted at N1 and N2. The sound level meter was set in 1m from the exterior of the building façade at N1 and N2. Therefore, no façade correction (+3 dB(A) is added according to acoustical principles and EPD guidelines.

NOISE MONITORING RESULTS

5.02 The noise measurement results at N1 and N2 are listed in *Table 5-1*. The relevant graphical plots are shown in *Appendix F*.

	L _{eq30min} (dB(A))			
Maggyromant Data	N1	N2		
Measurement Date	2/F floor of Hennessey	Balcony at 1/F of Chiu		
	Building	Hin Mansion		
1-Mar-16	73	67		
8-Mar-16	72	72		
15-Mar-16	66	73		
22-Mar-16	70	73		
30-Mar-16	74	69		
5-Apr-16	65	73		
12-Apr-16	73	69		
19-Apr-16	70	73		
26-Apr-16	75	74		
3-May-16	74	71		
10-May-16	74	69		
17-May-16	70	73		
24-May-16	71	73		
31-May-16	69	74		
Limit Level of Construction Noise	75 d	B(A)		

 Table 5-1
 Summary of Noise Monitoring Results

4.01 Referred to above tables, no noise measurement exceedance was recorded at both N1 and N2. Furthermore, there is no noise complaint (Action Level exceedance) received by the MTRCL and Contractor or EPD in the Reporting Period. The meteorological data during the impact monitoring days are shown in *Appendix G*.



6 WASTE MANAGEMENT

GENERAL WASTE MANAGEMENT

6.01 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

RECORDS OF WASTE QUANTITIES

- 6.02 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste;
 - General Refuse; and
 - Excavated Soil.
- 6.03 The quantities of waste for disposal in this Reporting Period are summarized in *Tables 6-1* and *6-2* and the Summary of Waste Flow Table is shown in *Appendix H*.

Table 6-1 Summary of Quantities of Inert C&D Materials

Type of Weste		Quantity	Disposal	
Type of waste	Mar 16	Apr 16	May 16	Location
Total C&D Materials (Inert) (m ³)	0.03685	0.03399	0.09171	-
Reused in this Contract (Inert) (m ³)	0	0	0	-
Reused in other Projects (Inert) (m ³)	0	0	0	-
Disposal as Public Fill (Inert) (m ³)	0.03685	0.03399	0.09171	TKO 137

Table 6-2 Summary of Quantities of Non-Inert C&D Wastes

Type of Weste		Quantity	Disposal	
Type of waste	Mar 16	Apr 16	May 16	Location
Recycled Metal (m ³)	0	0	0	-
Recycled Paper / Cardboard Packing (m ³)	0	0	0	-
Recycled Plastic (m ³)	0	0	0	-
Chemical Wastes (m ³ /L)	0	0	0	-
General Refuses (m ³)	0.001	0.001	0.001	SENT Landfill

6.04 In the Reporting Period, effluent generated from the Project was discharged in accordance with the Wastewater Discharge License.



7 SITE INSPECTION

7.01 According to the EMAP, weekly site inspection undertaken by the RE, ET and the Contractor to confirm the environmental performance. In the reporting Period, total of thirteen (13) occasions of weekly site inspection were undertaken.

FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

- 7.02 During March 2016, five (5) occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on 2, 11, 16, 23 and 30 March 2016 and the IEC was joined the site inspection on 16 March 2016. No non-compliance was noted. However, four (4) observations and three (3) reminders were recorded by the ET.
- 7.03 During April 2016, **four (4)** occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on **8**, **13**, **20** and **27** April **2016** and the IEC was joined the site inspection on **20** April **2016**. No non-compliance was noted. However, two (2) observations and four (4) reminders were recorded by the ET
- 7.04 During May 2016, **four** (4) occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on 4, 13, 18 and 25 May 2016 and the IEC was joined the site inspection on 18 May 2016. No non-compliance was noted. However, five (5) observations were recorded by the ET.
- 7.05 The detailed findings / deficiencies and follow-up in the Reporting Period listed in *Table 7-1*.

Date	Findings / Deficiencies	Follow-Up Status
2 March 2016	• No adverse environmental issue was observed.	• NA
11 March 2016	• The contractor was advised to improve the roadside shelter for grout mixing to avoid dust impact to the public.	• The grout mixer was removed from site.
	• Free standing chemical without drip tray was observed. The Contractor should provide drip tray for chemical on site to prevent land contamination.	• All free standing chemical cans without drip tray were removed from site.
16 March 2016	• The contractor was advised to carry out maintenance work for the AquaSed to ensure the chemical process can be function properly.	• To be followed up.
23 March 2016	• The contractor was advised to keep the construction material clean at the public road outside the site boundary.	• The construction materials at the public road outside the site boundary was removed.
	• The contractor was reminded to dispose the general refuse regularly.	• Not required for reminder.
30 March 2016	• The contractor was reminded to cover the roadside hoarding entirely.	• Not required for reminder.
	• The contractor was reminded to dispose general refuse regularly.	• Not required for reminder.

Table 7-1Site Observations



Date	Findings / Deficiencies	Follow-Up Status
8 April 2016	• No adverse environmental issue was observed.	• NA
13 April 2016	• The contractor should provide proper tree protection zone for retained trees.	• Proper tree protection zone was provided for retained trees.
	• The contractor was reminded to cover construction storage area with tarpaulin sheets.	• Not required for reminder.
20 April 2016	• The contractor was advised to clear the mud trails on the entry/exit area.	• The mud trails on the entry/exit area were removed.
	• The contractor was reminded to dispose construction waste regularly.	• Not required for reminder.
27 April 2016	• The contractor was reminded to update the EP at the entrance.	• Not required for reminder.
	• The contractor was reminded to provide shoes washing tank at site office near Johnston road.	• Not required for reminder.
4 May 2016	• The Contractor was advised to dispose construction waste and general waste regularly.	• Construction waste was disposed regularly.
13 May 2016	• The Contractor was should provide better cover for the grout mixer to reduce dust impact.	• Item was followed on 18 May 2016.
	• The Contractor should block the gaps of water barriers at area H14 to ensure no construction material is outside the construction area.	• Water barriers was covered properly.
18 May 2016	• The Contractor was should provide better cover for the grout mixer to reduce dust impact.	• The grout mixer was removed from site.
	• The contractor was advised to dispose empty cement bags regularly.	• The empty cement bags was disposed.
25 May 2016	• The contractor was advised to provide proper tree protection zone for retained trees.	• To be follow-up in next reporting period.

7.06 No site inspection was undertaken by external parties i.e. EPD in the Reporting Period.

13



8 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

8.01 In the Reporting Period, no environmental complaint, summons and prosecution are received by either the EPD or MTRCL or the Main Contractor. The statistical summary table of environmental complaint is presented in *Tables 8-1, 8-2* and *8-3*.

 Table 8-1
 Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics						
Reporting Period			Complaint Nature				
	Frequency Cumulative	Air	Noise	Water	Others		
1–31 Mar 2016	0	0	NA	NA	NA	NA	
1- 30 Apr 2016	0	0	NA	NA	NA	NA	
1-31 May 2016	0	0	NA	NA	NA	NA	

 Table 8-2
 Statistical Summary of Environmental Summons

	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others	
1–31 Mar 2016	0	0	NA	NA	NA	NA	
1- 30 Apr 2016	0	0	NA	NA	NA	NA	
1–31 May 2016	0	0	NA	NA	NA	NA	

Table 0-5 Statistical Summary of Environmental Trosecuto
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		Environme	ntal Prosec	ution Stati	stics	
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others
1-31 Mar 2016	0	0	NA	NA	NA	NA
1- 30 Apr 2016	0	0	NA	NA	NA	NA
1–31 May 2016	0	0	NA	NA	NA	NA



9 IMPLEMENTATION STATUS OF MITIGATION MEASURES

9.01 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the EMAP covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix I*.

MITIGATION MEASURES UNDERTAKE IN THE REPORTING PERIOD

9.02 In the Reporting Period, the environmental mitigation measures implemented by the Contractor are listed in *Table 9-1*.

Table 9-1Summary of Environmental Mitigation Measures

Issues	Environmental Mitigation Measures
Air Quality	• Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather;
	• Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers;
	• Cover all excavated or stockpile of dusty material by impervious sheeting or sprayed with water to maintain the entire surface wet;
	• Public areas around the site entrance/exit had been kept clean and free from dust; and
	• Tarpaulin covering of any dusty materials on a vehicle leaving the site.
Noise	Good site practices to limit noise emissions at the sources;
	• Use of quite plant and working methods;
	• Use of site hoarding or other mass materials as noise barrier to screen the working site;
	• Use of shrouds/temporary noise barriers to screen noise from relatively static PMEs; and
	• Limiting as use one construction plant within worksite, where practicable.
Water	• Wastewater were appropriately treated by treatment facilities;
Quality	• Drainage channels were provided to convey run-off into the treatment facilities; and
	• Drainage systems were regularly and adequately maintained.
Waste and Chemical Management	• Excavated material should be reused on site as far as possible to minimize off-site disposal. Scrap metals or abandoned equipment should be recycled if possible;
	• Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner;
	• The Contractor should adopt a trip ticket system for the disposal of C&D materials to any designed public filling facility and/or landfill; and
	• Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.
Landscape and Visual	• Clear demarcation of works area to prevent damages to existing trees in close proximity;
	• Protection of all trees planned to be retained onsite;
	• Preserving all affected trees by transplanting where practical. Tree transplanting application and tree removal application shall be submitted for approval in accordance with ETWB TCW 3/2006; and
	• Screening of construction works by hoardings/noise barriers around Works area in visually unobtrusive colours.
General	• The site was generally kept tidy and clean.

9.03 In addition, mosquito control measures to prevent mosquito breeding on site are conducted in the Reporting Period.



10 CONCLUSIONS AND RECOMMENDATIONS

10.01 This is the 7th Quarterly EM&A Summary Report presenting the monitoring results and inspection findings in the Reporting Period from 1 March 2016 to 31 May 2016.

CONCLUSION

- 10.02 In the Reporting Period, **16** occasions of 24-hours TSP monitoring was conducted at the proposed Monitoring Location A1. The monitoring results are all below the Action/ Limit Level. No Notifications of Exceedances (NOEs) or the associated corrective actions were therefore issued.
- 10.03 In the Reporting Period, a total of **28** occasions of noise measurement was conducted at N1 and N2 and no noise measurement result is higher than 75dB(A) was recorded. Furthermore, no noise complaint (which is an Action Level exceedance) was received.
- 10.04 No environmental complaint, notification of summons or successful prosecution was received in the Reporting Period.
- 10.05 A total of thirteen (13) occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor in the Reporting Period. Moreover, the IEC attended the site inspections on *16 March 2016*, *20 April 2016* and *18 May 2016*. In the Reporting Period, no non-compliance was noted and total 11 observations were recorded by the ET. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was considered as satisfactory in this reporting period.
- 10.06 In the Reporting Period, no joint site inspection was attended by external parties i.e. EPD.

RECOMMENDATIONS

- 10.07 Construction noise is the key environmental issue during construction work of the Project as there are residential buildings nearby. Noise mitigation measures should be fully implemented in accordance with the EM&A requirement.
- 10.08 Also, special attention should be paid on the potential construction dust impact as the construction site is located near the residential area. The Contractor should fully implement the construction dust mitigation measures properly.
- 10.09 The Contractor should also prevent muddy water and other water pollutants via site surface water runoff get into public areas. Any discharge water should be strictly complied with wastewater discharge license requirement. As a reminder, water quality mitigation measures should be properly implemented in accordance with the EM&A requirement.
- 10.10 As a reminder, the Contractor should be regular checking and maintenance wastewater treatment facilities ensure compliance with the currently Discharge License stipulation. A warning sign should be provided all the retained trees as remind the workers prevent scratch the trees. In addition, mosquito control should be kept to prevent mosquito breeding on site.



Appendix A

Project Site Layout Plan





Appendix B

Organization of the Project









Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
MTRCL	Resident Engineer	Mr. Raymond Lee	3547 0002	3547 0090
AECOM	Independent Environmental Checker	Mr. Y. W. Fung	3922 9366	3922 9797
KCL	Project Manager	Mr. Vincent, Kwan Chun Yin	9833 1313	2770 4278
KCL	Site Agent	Mr. Chan Kam Chuen	6462 8910	2770 4278
KCL	Environmental Officer	Ms. Ricci Poon Wai Tin	9533 1115	2770 4278
AUES	Environmental Team Leader	Mr. T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Ms. Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Mr. Ben Tam	2959 6059	2959 6079

Contact Details of Key Personnel for the Project

Legend:

MTRCL (Employer) – MTR Corporation Limited

MTRCL (Resident Engineer) – MTR Corporation Limited

KCL (Main Contractor) – Kaden Construction Limited

AECOM (IEC) – AECOM Consulting Services Limited

AUES (ET) – Action-United Environmental Services & Consulting



Appendix C

Master Construction Programme

	Qtr 3, 2016 Ano	Aut								P										•													1																	
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	ecessor	1	Ľ	32	26	27	28		34	0	29	29	35	36	37				40,41		75,38	44	45	46	41	.32,67		68	70	71	72	73	74	1	11						l		112	111	114	115	42	1		
	Planned Finish Last red Month	Sat 27/8/16	Thu 19/5/16	Wed 4/5/16	Tue 10/5/16	Wed 18/5/16	Thu 19/5/16	En 11/3/16 Set 6/3/16	Sat 3/3/10	Tue 12/7/16	Thu 26/5/16	Mon 23/5/16	Mon 30/5/16	Sat 4/6/16	Tue 12/7/16	Sat 27/8/16	Sat 23/5/15	Fri 5/6/15	Sat 6/6/15	Tue 3/11/15	Tue 19/7/16	Thu 28/7/16	Sat 6/8/16	Wed 10/8/16	Mon 14/3/16	Sat 19/3/16 43	Fri 13/5/16	Wed 6/4/16	Wed 13/4/16	Fri 15/4/16	Sat 16/4/16	Fri 22/4/16	Fri 13/5/16	Mon 16/5/16	Thu 2/6/16	Fri 1/4/16	Fri 1/4/16	Sat 5/3/16	Fri 1/4/16	Tue 7/6/16 The 7/6/16	Fri 15/4/16	Fri 15/4/16	Fri 15/4/16	Tue 22/3/16	Tue 29/3/16	Tue 12/4/16	Mon 11/4/16 Mon 11/4/16			
	anned Start Last Month	Mon 13/4/15	Mon 23/11/15	Sat 12/3/16	Thu 17/3/16	Tue 10/5/16	Wed 18/5/16	Mon 29/2/16	MOR 23/2/10	Thu 19/5/16	Thu 19/5/16	Thu 19/5/16	Mon 23/5/16	Mon 30/5/16	Sat 4/6/16	Mon 13/4/15	Mon 13/4/15	Wed 13/5/15	Sat 6/6/15	Tue 20/10/15	Tue 12/7/16	Tue 19/7/16	Thu 28/7/16	Sat 6/8/16	Mon 25/1/16	Tue 15/3/16	Thu 24/3/16	Thu 24/3/16	Thu 7/4/16	Thu 14/4/16	Sat 16/4/16	Mon 18/4/16	Sat 23/4/16	Ned 27/4/16	Tue 17/5/16	Sat 9/1/16	Sat 9/1/16	Mon 25/1/16	Mon 7/3/16	Tue 3/5/16 Tue 3/5/16	Mon 21/12/15	Mon 21/12/15	Fri 26/2/16	Mon 22/2/16	Wed 23/3/16	Wed 30/3/16	Sat 5/3/16 Sat 5/3/16	A 100 100	Project Summary	Utury 125 Unution
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ramme	Finish %	Fri 9/9/16	Sat 28/5/16	Fri 6/5/16	Mon 16/5/16	Fri 27/5/16	Sat 28/5/16	Fri 11/3/16	Sat 5/3/10	Mon 25/7/16	Sat 11/6/16	Sat 4/6/16	Mon 13/6/16	Sat 18/6/16	Mon 25/7/16	Fri 9/9/16	Sat 23/5/15	Fri 5/6/15	Sat 6/6/15	Tue 3/11/15	Mon 1/8/16	Wed 10/8/16	Fri 19/8/16	Tue 23/8/16	Mon 14/3/16	Sat 19/3/16	Fri 13/5/16	Wed 6/4/16	Wed 13/4/16	Fri 15/4/16	Sat 16/4/16	Fri 22/4/16	Fri 13/5/16	Fri 20/5/16	Tue 7/6/16	Fri 1/4/16	Fri 1/4/16	Sat 5/3/16	Fri 1/4/16	Tue 7/6/16 The 7/6/16	Fri 15/4/16	Fri 15/4/16	Fri 15/4/16	Tue 22/3/16	Tue 29/3/16	Tue 12/4/16	Mon 11/4/16 Mon 11/4/16		p Progress	
Kolling Frog	Start	Mon 13/4/15	Mon 23/11/15	Sat 12/3/16	Thu 17/3/16	Sat 21/5/16	Sat 28/5/16	Mon 29/2/16	91/2/67 UOW	Mon 30/5/16	Sat 4/6/16	Mon 30/5/16	Mon 6/6/16	Tue 14/6/16	Mon 20/6/16	Mon 13/4/15	Mon 13/4/15	Wed 13/5/15	Sat 6/6/15	Tue 20/10/15	Tue 26/7/16	Tue 2/8/16	Thu 11/8/16	Sat 20/8/16	Mon 25/1/16	Tue 15/3/16	Thu 24/3/16	Thu 24/3/16	Thu 7/4/16	Thu 14/4/16	Sat 16/4/16	Mon 18/4/16	Sat 23/4/16	Wed 2//4/16	Sat 21/5/16	Sat 9/1/16	Sat 9/1/16	Mon 25/1/16	Mon 7/3/16	The 3/5/16 The 3/5/16	Mon 21/12/15	Mon 21/12/15	Fri 26/2/16	Mon 22/2/16	Wed 23/3/16	Wed 30/3/16	Sat 5/3/16 Sat 5/3/16		Kolled U	121211
3 MONTINS	Duration	422 days	150 days	43 days	8.2 days	6 days	1 day	11 days	6 days	47 davs	6 days	6 days	6 days	5 days	30 days	422 days	35 days	20 days	1 day	12 days	6 days	8 days	8 days	3 days	40 davs	5 davs	39 days	8 days	6 days	2 days	1 day	5 days	17 days	34 days	15 davs	66 days	66 days	33 days	20 days	30 days	91 days	91 days	39 days	26 days	3 days	11 days	28 days	ofmore		
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	DMP ID		JnR.EBC.SS_0050					0000 811	UZU20	UTIN_UNEU	NA	NA	JnR.0050	JnR.0050	JnR.0050		JnR.TT_0110	JnR.TT_0030	JnR.TT_0120	JnR.TT_0030	JnR.0050	JnR.0050	JnR.0050	JnR.0050	UCUU.AILL	JnR 0020		JnR.WBC_0090	JnR.WBC_0090	JnR.WBC_0100	JnR.WBC_0110	JnR.WBC_0110	JnR.WBC_0130										WWW.AFC_0030	WWW.AFC_0030	WWW.AFC_0030	WWW.AFC_0030	MA	-	Summar Pollod 1	A MANANE
				cking					ath .			9																					cking																Task	L1081400
	ask Name	age 2 ELS (Phase 1 Pump test)	Mini-piles at Eastbound	RC works for Main beam and cross beams for RC dec	Excavation for temporary traffic deck footing	Erect temporary traffic deck	Implementation of TTA to Eastbound Slow Lane	Preparation for Phase 1 Pump Test	Pump Wells & Observatoin Wells at Eastbound Footp	Fump Well & Observation Well at Eastbound Easthound Foothath & Slow Lane	Removal of temporary working platform at Stage 1	Breaking temporary concrete carriageway at slow lane	Excavation to existing UU formation	Temp. UU supports	Excavation to -1.0 mPD	Tram Track RC Decking	RC cross beams	Coring for grout curtain	Reinstate of concrete surround to rails	Grouting for TAM pipes	Excavation to +1.0 mPD underneath Trams Deck	Pre-grouting for Soil Nail	Shotcrete and Soil Nail at +1.0 mPD	Installation of w/s at 1st layer strut S3	Installation of soil naits Weethound Stoulane	tst Phase Pumping Test	Mini-piles at Westbound Slowlane	Drilling for Mini-piles (1no)	Drilling for Mini-piles (2 no)	Rebar and Grout Tubes installation for mini-piles	Grouting for mini-piles	Post-drill for Mini-piles	RC works for Main beam and cross beams for RC dec	Children Playground Trial soil nail	Bulk Excevation to +1.0 mPd	age 3 ELS	RC Structures for Stage 3	Walls 1st pour	Walls 2nd pour and top slab	BWF works inside subway Floor creating	tisting Wan Chai Station (Require work in NTH)	New Audit Room	Installation and divert E&M Service	ABWF Works	Removal of Hoarding	Reinstatement Works	BSIGN EI S Stare 2 - RD/GEO comments on 6 Mar 16			
1	A	1 SI	20	26	27	28	29	30	31	33	34	35	36	37	38	39	40	41	42	13	4	5	9	Lt	2 10	- 00	6	0	-	2	3	4	5	0		9 St	0	6	2	05 A	07 E	80	[3	4	15	10	11/1	4		

C6593-13C LTS MP Rev	.C_BL_Report (May'16)							-Dun-	16_14:41		
Activity ID	Activity Name	Original Start Duration	Finish	BL Project E Start	3L Project Finish	Total Float	Free Float 014 JJJA	2015 SONDJIF IN JUJAS IND	2016 기터 시 기기	ASICINE 14 JU	7 2018
C6593-13C LTS	5 MP Rev.C BL Report (May'16)								*****		
Rey Dates	d Completion										
KD.COMM KD.COMP	Commencement of the Works (14-Apr'14) Completion of the Whole of the Works, No.Cal.Wk. 150 (26-Feb117)	0 14-Apr-14 A 0	29-Mar-18*	14-Apr-14 2	5-Feb-17	-396	0			•	
 Specified Parts of KD.2A 	the Works 2A - SBC Complete backfill, resurfacing, fencing, utilities, lighting and return to LCSD (28-Jun'15)	0	11-Aug-15 A	2	27-Jun-15			•			
KD.28	2B - Complete all works at the 2 new Shop Klosks and hand over to the Employer (1-May'16)	0	06-Jun-17*	2	27-Apr-16	401	296		٥	•	
INF.AFC	Interface Access for AFC, C&C DC in new AFC Audit Room inside WAC, Concourse Level (27-Apr15)	0 03-Jun-16*		27-Apr-15		269	665	•	•		
INF.H15 INF.SAMS	Interface Access for Contract H15, All Levels, No.Cai.WK. 120 (31-Jul'16) Interface Access for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Oct'16)	0 31-Mar-1/- 0 09-Jun-17*		31-Jul-16 10-Oct-16		-102	294		•	•	
Site Area Possessi	on and Return Dates										
WAP.W1	Works Area 6593.W1, Within 3 months from commencement of works (14-Jul'14)	0 14-Jul-14 A		14-Jul-14			••				
WAP.W2 WAP.W3	Works Area 6593.W2, Within 9 months from commencement of works (14-Jan'15) Works Area 6593.W3. No later than 1 month after completion of resinstatement works at Works Area	0 31-May-16* 65 0 02-Apr-17		07-Jul-15 10-Jan-17		-82	000	\$		•	
T Site Area Return Dat			AD 11-14		C Day 40	5	C			•	
WAR.W1	Works Area 6593.W1, Within 36 months from commencement of works (14-Apr17) Works Area 6593.W2, Within 36 months from commencement of works (14-Apr17)	0 0	24-Oct-16*	- 0	0-Uec-10	125	521			•	
WAR.W3	Works Area 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0	19-May-17	2	66-Feb-17	-82	314			•	
Milestone Schedul											
MS.A01	A1 Approval of Preliminary Master Program, ICE, TTA, ELS & Temporay decking (3-Aug'14)	0	21-Oct-14 A	0	12-Aug-14		*	•	****		
MS.A02	A2 Approval of Design of Mined Tunnel ESS; Hoarding phase/plan,TW under TramTrack; QP, SAP, P	MP 0	01-Nov-14 A		01-Nov-14			••			
MS.A03	A3 Satisfactory Implementation of Specified Plans (25-Jan'15) A4 Assessed of social complexity index Trans Transfer StateGates Implementation of PMS (2 Min/HS)	0 0	24-Jan-15 A	NG	24-Jan-15			•			
MS.A05	A5 Approval of WAC D-wall demolition: Satisfactory Implementation of Specified Plans (2-Aug 15)	0	24-Aug-16	0	11-Aug-15	186	582	•			
MS.A06	A6 Satisfactory Implementation of PMS (1-Nov'15)	0	30-Sep-15 A	e	11-Oct-15			•			****
MS.A07	A7 Satisfactory Implementation of Specified Plans (31-Jan'16)	0 0	30-Jan-16 A	0.0	00-Jan-16	00	200		▶		
MS.A08	A8 AIP for T&C of BS and ABWF works, satisfactory implementation of PMS (1-May1b) A9 Satisfactory Implementation of Specified Plans (31-Jul'16)	0 0	30-Jul-16	0.00	0-Jul-16	211	607		•		
MS.A10	A10 AIP of Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation of PMS (30-C	hot' 0	26-Oct-17	N	9-Oct-16	-242	154			•	•
MS.A11	A11 Approval of O&M manual and As-built drawings for the Works (26-Feb117)	0	22-Feb-18	2	2-Feb-17	-361	35			•	•
MS.B01	B1 Excavate to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam construction co	0 10	01-Nov-14 A	0	11-Nov-14			•••			
MS.B02	B2 SBC Excavation satisfactorily completed & Children's Play Area Excavation has reached -1.3mPD	0 0	24-Jan-15 A	0.0	24-Jan-15			•			
MS.B03	B3 SBC Roof slab RC, JnR NFP & EBC 61% cofferdam fram frack support 10%, JnR WBC UU dive B4 SBC return NBC Site entry formed CDA RC base slab. JnR NFP & FBC Cofferdam & traffic deck	Sc 0	11-Aug-15 A	5 0	1-Jul-15			•			
MS.805	B5 NBC cofferdam complete, CPA RC & vent shaft 1.2m above ground complete, Tram Tracks Excav	ati 0	29-Jun-16		11-Oct-15	243	639	>	•		
MS.B06	B6 NBC Excavation to formation complete, JnR All Carriageways & Footpaths & Tram Tracks Excava	tion 0	05-Oct-16	0, 0	0-Jan-16	145	541		•	•	
MS.B07	B7 NBC RC roof slab complete, JnR CW & FP & TT RC construction except temp opening, CPA RC (B8 ABWE Dormon 4 arbitrarial NBC All international complete. Opening through H15 Durial formal //	24- 0	30-Dec-16 31-Mar-17		0-Apr-16 0-101-16	32	364		*	•	
MS.809	B9 ABWF Degree 3 achieved, All road reinstatement in Johnston Road & Hennessy Road complete (3	0 70	04-Jul-17		27-Oct-16	-127	269			•	
MS.B10	B10 All works in Cost Centre B satisfactorily completed (26-Feb'17)	0	19-Oct-17	2	25-Feb-17	-234	162			•	
MS.C01	C1 AIP BS detail design, suppliers & model types of major BS equipment & materials (2-Nov'*4)	0	01-Nov-14 A	0	01-Nov-14			••			
MS.C02	C2 AIP BS shop drawings (25-Jan'15)	0	23-Jan-15 A		23-Jan-15			••			
MS.C03	C3 Order all BS equiptment and materials (3-May15)	0 0	02-May-15 A	5 6	c1-yay-15			*			
MS.C05	C5 Complete all delivery to site for ECS plant room (31-Jul'16)	0	10-Jun-16		9-Mar-16	261	657		•		
MS.C06	C6 Complete all installation, T&C for New Subway (4-Dec'16)	0	21-Jul-17		4-Nov-16	-144	252			•	
MS.C07	C7 Complete and pass all statutory inspections, Operations Team (26-Feb17)	0	29-Mar-18		25-Feb-17	-396	0			\$	
MS.D01	D1 New AFC Audit Room construction completed, including (3-May'15)	0	02-Jun-16	0	25-Apr-15	269	484	•	*		
MS.D02	D2 Old AFC Audit Room and Maxim's/ Circle K kiosks demolished (31-Jan'16)	0 (08-Mar-17		28-Jan-16	-10	205		•	•	
MS.D03	D3 Breakthrought into WAC (31-Jul'16) D4 All works in Cost Centre D satisfactorily completed (28-Auch6)	0 0	29-Sep-17		27-Aug-16	-10/ -215	181		•		•
Milestones E		4	40 P-1 42	c	01 Inn 40	ę				•	
MS.E01	E1-AFC gates and barrier relocation works completed (3-Jam1b) E2_All structural A&A works for TIM completed (20-Ont-16)		10-F6D-17 18-Nov-17		12-Jan-10	-265	131				•
MS.E03	E3-All works in milestone E completed (26-Feb/17)	0.0	14-Mar-18	. 0	09-Feb-17	-381	15			1 8	•
Actual Level of Effo	vt	3C Wan Chai St	ation Lee	Funo Stree	of Subwa	N				1	
Primary Baseline		Master Progra	um (Rev.C)	8						1	
Actual Work	-			0					i i d	Aking	-
Kemaining work	5	ogress vs Program (u	pdated Ending	May 10)						SIN	
Cuticai remaining v	Vork										

Activity ID	and the state of the		Print,	Distant BI Project	Total	Fran			Γ
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T Al Approval of Pre A01_0010	is and General Items								
A01_0010	illestone Schedules Illiniciono Marina Bronnon ICE TTA ELS & Tomorou darbina (3-Aurold 8)								
	Approval of Preliminary Master Program (3-Aug'14)	0	21-Oct-14 A	02-Aug-14		•			
A01_0020	Approval of Specified Plans (3-Aug'14)	0	01-Aug-14 A	01-Aug-14		•••			33
A01_0030	Approval of Independent Checking Engineer (3-Aug'14)	0 0	01-Aug-14 A 27-1im-14 A	01-Aug-14 27-hin-14		×			
A01_0050	Approval of the design of ELS systems for cofferdams & temporary decking (3-Aug'14)	0	03-Mar-15 A	01-Aug-14		•			
T A2 Approval Desig	n of Mined Tunnel ESS; Hoarding phase/plan; QP, SAP, PMP, H&SP, EMP (2-Nov'14)			24 M-14					
A02_0010	Approval for the design of excavation support systems of the mined tunnel section (2-Nov'14)	0 0	76-Jan-15 A	41-VOV-10		••			
AU2 0020	Approvar of all priasing plants & roadruing arrangements (z-twor 1+) Annroval of all method statements for Part B works (2-Nov'14)	0	30-Oct-14 A	30-Oct-14		••			
A02 0040	Engineer's confirmation of satisfactory implementation of Quality Plan (2-Nov'14)	0	01-Nov-14 A	01-Nov-14		**			
A02_0050	Engineer's confirmation of satisfactory implementation of System Assurance Plan (2-Nov'14)	0	01-Nov-14 A	01-Nov-14		••			
A02_0060	Engineer's confirmation of satisfactory implementation of Programming Management System (2-Nov'14)	0	01-Nov-14 A	01-Nov-14		•••	· · · · · · · · · · · · · · · · · · ·		
A02_0070	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (2-Nov'14)	0 0	01-Nov-14 A	01-Nov-14		•••			
AUZ_0080	Engineer's continuation of satisfactory implementation of Environmental Management Plan (2-Nov 14)		A 41-VOV-10	+1-A0X-10		•			
A3 Satisfactory Im A03 0010	plementation of Specified Plans (25-Jan 15) Engineer's confirmation of satisfactory implementation of System Assurance Plan (25-Jan 15)	0	24-Jan-15 A	24-Jan-15		•			1
A03_0020	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (25-Jan'15)	0	24-Jan-15 A	24-Jan-15					
A03_0030	Engineer's confirmation of satisfactory implementation of Quality Plan (25-Jan'15)	0	24-Jan-15 A	24-Jan-15		•••			
A03_0040	Engineer's confirmation of satisfactory implementation of Environmental Management Plan (25-Jan'15)	0	Z4-Jan-15 A	CI-UBC-47		•			
A04_0010	Approval for method of excertaion & support for mined tunnel section beneath tran tracks (3-May/15)	0	21-Apr-15 A	02-May-15		•••			
A04_0020	Engineer's confirmation of satisfactory implementation of Programming Management System (3-May15)	0	02-May-15 A	02-May-15					
A5 Approval of W4	No B-Wall demonstructory implementation or Spectried Flans (2-Aug 15) Approval for method for demolition of WAC Diaphragm Wall (2-Aug'15)	0	21-Jul-15A	01-Aug-15		••			
A05_0020	Engineer's confirmation of satisfactory implementation of Specified Plans (2-Aug'15)	0	30-Sep-15 A	01-Aug-15		•	•		
 A6 Satisfactory Im A06 0010 	plementation of PMS (1-Nov'15) Engineer's confirmation of satisfactory implementation of Programming Management System (1-Nov'15)	0	30-Sep-15 A	31-Oct-15			•		272
A7 Satisfactory Implementation	plementation of Specified Plans (31-Jan'16)								
A07_0010	Engineer's confirmation of satisfactory implementation of Specified Plans (31-Jan'16)	0	30-Jan-16 A	30-Jan-16			••		
A8 AIP for 1&C of A08 0010	BS and ABWF works; Satisfactory Implementation of PMS (1-May 16) Engineer's confirmation of satisfactory implementation of Programming Management System (1-Mav'16)	0	03-Mar-16 A	30-Apr-16			•		ter
A08 0020	Approval in principle of all procedures for Testing & Commissioning of all Building Services (1-May16)	0	27-Apr-17	27-Apr-16	-60	0	>	•	
A08_0030	Approval in principle of all acceptance procedures of all of the ABWF works (1-May'16)	0	27-Apr-17	27-Apr-16	-60	0	•	•	
- A9 Satisfactory Im	plementation of Specified Plans (31-Jul'16)	c	91 In 10	20 Int 40	144				
A09 0010	Engineer's continuation of satisfactory implementation of System Assurance Plan (31-Jul 16)		30-101-10	30-Jul-10	244	D C		*	Ť
	Engineer's continuation of settisfactory implementation of meatur & settery ruler (31-Jun 10) Envineer's confirmation of settisfactory implementation of Quality Plan (31-Jun 198)	0 0	30-101-16 30-101-16	30-Inl-16	211			••	
A09 0040	Engineer's confirmation of satisfactory implementation of Environmental Management Plan (31-Jul'16)	0	30-Jul-16	30-Jul-16	211	0			
A10 AIP Draft O&M	manual & Draft As-built Drawings; Satisfactory Implementation of PMS (30-Oct'16)								
A10_0010	Engineer's contimution of satisfactory implementation of Programming Management System (30-Oct'16)	0 0	29-Oct-16	29-Oct-16	120	362		•	d:
A10 0020	Approval in principle of draft Operating & Maintenance Manuals for the Whole Works (30-Oct16) Approval in principle of draft As-built Drawings for the Whole Works (30-Oct16)	0 0	26-Oct-17	27-Oct-16	-242	0		••	1111
A11 Approval of O.	AM manual and As-built drawings for the Works (26-Feb17)								
A11_0010	Approval of Operating & Maintenance Manual for Whole Works (26-Feb'17) Approval of As-built drawings for Whole Works (26-Feb'17)	0 0	22-Feb-18 22-Feb-18	22-Feb-17 22-Feb-17	-361	0 0		••	
Cost Centre A: Pi	eliminaries and General Items								
T Design, ICE, Subm	aission and Approval								
D.I.T_0010	TTMS - Submission to Members of TMLG for Approval, ref. ITT 6.2 TTMS - Submission to Memoryal Reservencesion if monitored RMO Analizations	4 14-Apr-14 A 55 22-Apr-14 A	17-Apr-14 A 27-Jun-14 A	14-Apr-14 17-Apr-14 22-Apr-14 27-Jun-14					
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D.I.T 0030	A1 - ELS & Temporary Decking - Design, ICE, Submission to BD for Approval	30 14-Apr-14 A	11-Aug-14 A	14-Apr-14 23-May-14					
D.I.T_0040	A1 - ELS & Temporary Decking - Review the submission A1 - ELS & Temporary Decking - Prenaration of re-submission (If Remited)	30 12-Aug-14 A 14 17-Sen-14 A	73-Sep-14 A	24-May-14 28-Jun-14 30-Jun-14 16-Jul-14		n - 4			
D.I.T 0060	A1 - ELS & Temporary Decking - BD Review, Resubmission if required, and Approval (If Require)	14 24-Sep-14 A	03-Mar-15 A	17-Jul-14 01-Aug-14					
D.I.T_0070	A1 - ELS - Verification (based on 4 additinal SI. AD-01 to AD-04), ICE	17 29-Jul-14 A	16-Aug-14 A	29-Jul-14 16-Aug-14					
D.I.T_0080	A1 - ELS - Verification (based on 4 additinal SI. AD-01 to AD-04), ICE, Submission & Approval Independent Charleine Excitance Beneration & Cubmission for Americal	24 18-Aug-14 A	15-Sep-14 A	18-Aug-14 15-Sep-14					
D.I.T 0100	Independent Checking Engineer - Freparation & Sountission for Approvation Independent Checking Engineer - Review the submission	30 24-May-14 A	28-Jun-14 A	24-May-14 28-Jun-14					
D.I.T_0110	Independent Checking Engineer - Preparation of re-submission (if Require)	14 30-Jun-14 A	16-Jul-14 A	30-Jun-14 16-Jul-14					
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Primary Baseline	◆ ◆ Milestone	Master Proora	m (Rev.C)	0					
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 	FSPH (100) Specified Plane (CP, SAP, PKS), HSS, PED - Program (SA) Second Plane (CP, SAP, PKS), HSS, PED - Program (SA, PKS), FED - FED - Program (SAP, PKS), FED - FED - Program (SAP, PKS), FED - FED - Program (SA, PKS), FED -	d Approval (if Require)	14 30-Sep-14 A	22-Oct-14 A	18-Jul-14 02-Aug-14			
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SP.A05_0030	A5 Satisfactory Implementation of Health and Safety Plan	0	01-Aug-15 A		01-Aug-15			
SP.A05_0040	A5 Satisfactory Implementation of Environmental Management Plan	0	01-Aug-15 A		01-Aug-15		•••	
SP.A07_0010	A7 Satisfactory Implementation of Quality Plan	0	30-Jan-16 A		30-Jan-16			
SP.A07_0020	A7 Satisfactory Implementation of System Assurance Plan	0	30-Jan-16 A		30-Jan-16			
SP.A07_0030	A7 Satisfactory Implementation of Health and Safety Plan	0	30-Jan-16 A		30-Jan-16			
SP.A07_0040	A7 Satisfactory Implementation of Environmental Management Plan	0	30-Jan-16 A		30-Jan-16			
SP.A09_0010	A9 Satisfactory Implementation of Quality Plan	0	30-Jul-16*		30-Jul-16	0	0	••
SP.A09_0020	A9 Satisfactory Implementation of System Assurance Plan	0	30-Jul-16*		30-Jul-16	0	0	•••
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SP.A09 0040	A9 Satisfactory Implementation of Environmental Management Plan	0	30-Jul-16*		30-Jul-16	0	0	*
Implementation of	Programming Management System							
PMS.A02_0010	A2 Satisfactory Implementation of Programming Management System	0	01-Nov-14 A		01-Nov-14		*	
PMS.A04 0010	A4 Satisfactory Implementation of Programming Management System	0	02-May-15 A		02-May-15		••	
PMS A06 0010	A6 Satisfactory Implementation of Programming Management System	0	28-Aug-15 A		31-Oct-15			
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PMS.A10_0010	A10 Saustactory Implementation of Programming Management System	0	23-OCI-10		23-OCI-10	•	2	•
Other Submission	s and OSM Manual							
OS.OM_0010	Hoarding Installation Method Statement - Preparation & Submission	30 14-Apr-14 A	23-May-14 A	14-Apr-14	23-May-14			
OS.OM_0020	Hoarding Installation Method Statement - Review & Approval	12 24-May-14 A	07-Jun-14 A	24-May-14	07-Jun-14			
OS.OM_0030	Hoarding Installation Method Statement - Preparation for Re-submission (if required)	12 09-Jun-14 A	21-Jun-14 A	09-Jun-14	21-Jun-14			
OS.OM 0040	Hoarding Installation Method Statement - Re-submission (if required) & Approval	12 23-Jun-14 A	23-Jun-14 A	23-Jun-14	07-Jul-14			
OS.OM 0050	Site Investigation Works Method Statement - Preparation & Submission	30 14-Apr-14 A	23-Mav-14 A	14-Apr-14	23-Mav-14			
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OS.OM 0090	WAC D-wall demolition Design-ICE. Preparation for design submission	90 03-Nov-14 A	18-Feb-15 A	03-Nov-14	18-Feb-15			
OS.OM 0100	WAC D-wall demolition- Review & Approval	60 23-Feb-15 A	A CI-VEM-BU	23-1-60-10	CI-Way-D			
OS.OM_0110	WAC D-wall demolition- Preparation for re-submission (If require)	40 09-May-15 A	26-Jun-15 A	09-May-15	26-Jun-15			
OS.OM_0120	WAC D-wall demolition- Review & Approval (If require)	30 27-Jun-15 A	01-Aug-15 A	27-Jun-15	01-Aug-15			
OS.OM 0121	H15 D-wall demolition Design- ICE, Preparation for design submission	24 31-May-16	28-Jun-16			-147	0	
OS.OM 0122	H15 D-wall demolition- Review & Approval	24 29-Jun-16	27-Jul-16			-147	0	
CS.OM 0123	H15 D-wall demolition- Preparation for re-submission (If require)	12 28-Jul-16	10-Aug-16			-147	0	
OS.OM 0124	H15 D-wall demolition- Review & Approval (If require)	12 11-Aug-16	24-Aug-16			-147	0	
CS.OM 0130	A8 AIP procedures for T&C of BS and ABWF works (1st Batch)	90 31-Mav-16	14-Sep-16	01-Jun-15	15-Sep-15	-293	0	
OS OM 0140	A & ID proceedings for TREC of RS and ARWER under (2) and Barby	00 15-San-16	04-1an-17	16.San-15	05-lan-16	203	/	
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OS.OM_0170	A11 Approval of O&M manual and As-built drawings for the Works	95 27-Oct-17	22-Feb-18	28-Oct-16	22-Feb-17	-293	0	
OS.OM_0180	RC Works- Preparation of Method Statement- Preparation	60 06-Jan-15 A	06-Feb-15 A	08-Jul-14	16-Sep-14			
💼 OS.OM_0190	RC Works - Preparation of Method Statement- Submission & Approval	12 06-Feb-15 A	10-Feb-15A	17-Sep-14	30-Sep-14			
OS.OM_0200	RC Works - Preparation for Re-submission (if required)	12 10-Feb-15A	16-Feb-15 A	03-Oct-14	16-Oct-14			
OS.OM_0210	RC Works - Re-submission (if required) & Approval	12 16-Feb-15 A	16-Feb-15.A	17-Oct-14	30-Oct-14		1	
OS.OM_0220	Sheet pile installation- Preparation of Method Statement- Preparation	42 03-Jun-14 A	03-Jul-14 A	14-Apr-14	07-Jun-14			
OS.OM 0230	Sheet plie installation- Preparation of Method Statement- Submission & Approval	12 03-Jul-14 A	08-Jul-14 A	09-Jun-14	21-Jun-14			
OS.OM 0240	Sheet pile installation - Preparation for Re-submission (if required)	12 08-Jul-14 A	23-Oct-14 A	23-Jun-14	07-Jul-14			
OS.OM_0250	Sheet pile installation - Re-submission (if required) & Approval	12 23-Oct-14 A	14-Nov-14 A	08-Jul-14	21-Jul-14			
OS.OM 0260	Excavation works- Preparation of Method Statement- Preparation	42 22-Aug-14 A	22-Sep-14 A	14-Apr-14	07-Jun-14			
OS.OM 0270	Excavation works- Preparation of Method Statement- Submission & Approval	12 22-Sep-14 A	21-Oct-14 A	09-Jun-14	21-Jun-14		•	
OS.OM_0280	Excavation works- Preparation for Re-submission (if required)	12 21-Oct-14 A	21-Oct-14 A	23-Jun-14	07-Jul-14			
OS.OM_0290	Excavation works- Re-submission (if required) & Approval	12 21-Oct-14 A	21-Oct-14 A	08-Jul-14	21-Jul-14			
OS.OM 0300	Work below tram track Method Statement - Preparation	60 23-Feb-15 A	23-Mar-15 A	08-Jul-14	16-Sep-14		•	
OS.OM_0310	Work below tram track Method Statement - Submission & Approval	12 23-Mar-15 A	09-Apr-15 A	17-Sep-14	30-Sep-14			
OS.OM 0320	Work below tram track Method Statement - Preparation for Re-submission (if required)	12 09-Apr-15 A	27-Apr-15 A	03-Oct-14	16-Oct-14			
CS.OM 0330	Work below tram track Method Statement - Re-submission (if required) & Approval	12 27-Apr-15 A	10-Jun-15 A	17-Oct-14	30-Oct-14			
OS.OM 0340	H15 & WAC Break Through Method Statement - Preparation	48 11-Jun-15 A	20-Jul-15 A	08-Jul-14	16-Sep-14		•	
OS OM 0350	H15 & WAC Break Through Method Statement - Submission & Approval	12 20-lul-15 A	21-Jul-15 A	17-Sen-14	30-Sen-14		-	
OS OM DARD	H15.8. MAC React Through Method Statement - Decomposition for Pacetohories (if required)	12 21-141-15 A	21-10-15 A	03-0-1-14	16.Oct-14			
OS: 0M 0370	HIS & WAC Break Through Mathod Statement - Preparation of recurringing a Annous	12 21-Ini-15 A	21-14-15 A	17-Oct-14	30-Oct-14			
OSC MOSO	In the experimental provide the providence of th	24 25 Aug 12	22 Con 16	11 Aun 15	10 Nov 15	4.47	C	
	DU IN CONSENT OF THE MEAN UPOUND WORS - FIEPERATION BD for concent of H45 hands through under - Submission & Annound	01-20-20 MG	22-Oct-16	10-Nov-16	30-1an-16	141-		
00:0M 0000	DD for consents of this break involution works - submission a Approval	01-da0-07 47	DE Noir 40	04 Eah 40	OD Mar 10	141-		
03.0M 0410	BD for consent of H15 break throughs works - Freperation for we summastor (in required) BD for consent of H15 break throughs works - De-submission (if non-insel). & Annoual	12 07-Mov-16	10-Nov-16	10-Mar-16	12-Mav-16	-147	2.14	
DI to WO:00	in the reliability of the second states a review of the second states of the second states of the second states	01-404-10 21	01-4041-01		14-1VIGY-10	1441		
Actual Level of Effc	ort	C Wan Chai St	ation Lee 7	Cung Stre	et Subwa	V1		
Primary Baselina	Milastone			0				
including and a second se		Master Frogra	Im (Kev.C)					
VOIDEL MOIN								David Cinc
C Remaining Work	Prog	ress vs Program (U	pdated Ending	May'16)				
Critical Remaining V	Work							

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	divity ID	Activity Name	Onginal Start Duration	Finish	BL Project BL P1 Start Finish	h Flor	at Float	014 2015 2016 2016 2016 2016	ASONDUFIA JUJIAS INDUFIA
 A statistic statisti statisti statistic statistic statistic statistic statistic sta	S:0M_0420	Submit and obtain AIP for Method Statement, EDOC Draft, Permanent Materials	60 31-Jul-15 A	10-Oct-15 A	31-Oct-14 12-Ja	an-15			
	Mobilization and Other Permit Applications	her Preliminaries							
	PA_0010	XP Excaviton Permit Application and Permit	70 14-Apr-14 A	10-Jun-14 A	14-Apr-14 11-Ju	1-14			
	PA_0020	TRA Tree Removal Application and Permit	6 14-Apr-14 A	15-Jul-14 A	14-Apr-14 23-Ap	or-14			
0.000 0.00000 0.0000 0.0000	PA 0030	Liason with all utility service providers on diversions Baseline noise monitoring report - Preparation & submission to Findmeer and FPD	30 23-Jun-14 A	28-Jun-14 A	14-Apr-14 23-Mi	av-14			
	PA 0050	Baseline noise monitoring report - repearance & Approval	30 30-Jun-14 A	09-Jul-14 A	24-May-14 28-Ju	m-14			
	PA_0060	Baseline noise monitoring report - Preparation for Re-submission (if Require)	14 23-Jun-14 A	28-Jun-14 A	30-Jun-14 16-Ju	1-14			
	PA_0070	Baseline noise monitoring report - Review and Approval (If Require)	14 30-Jun-14 A	09-Jul-14 A	17-Jul-14 01-Au	14-14			
No.0000 No.00000 No.00000	PA_0080	Baseline air monitoring report - Preparation & submission to Engineer and EPD	30 23-Jun-14 A	28-Jun-14 A	14-Apr-14 23-Ma	ay-14			
	PA_0090	Baseline air monitoring report - Review & Approval	30 30-Jun-14 A	09-Jul-14 A	24-May-14 28-Ju	ID-14			
 	PA_0100	baseline air monitoring report - Preparation for re-submission (ir require) Baseline air monitoring report - Review and Approval (if Require)	14 10-Jun-14 A	11-Jul-14 A	17-Jul-14 01-Au	1-14 10-14		4	
4 Constructions in the construction of t	B : Civil. Structu	ural and ABWF Works for the New Subway (Part A Works)				0			
	Cost Centre B- Mile	estone Schedules							
0.0000 0.00000 0.0000 0.0000	E B1 Excavate to +2.5	of SBC & Children's Play Area Cofferdam completed (2-Nov'14)							
 	MSB01_01	Southern Basket Ball Court: excavate to +2.5mPD (2-Nov'14)	0 0	01-Nov-14 A	01-NG	ov-14		•••	
6400.00 5000.00	MSB01_02	Children's Play Area - Cofferdam construction is completed (2-Nov'14)	0	25-UCI-14 A	0.67	ct-14		ю.	
•••••••••••••••••••••••••••••	MSB02_01	Southern Basket Ball Court: Excavation is satisfactorily completed (25-Jan'15)	0	16-Jan-15 A	24-Ja	n-15		••	
A model	MSB02_02	Children's Play Area: Excavation has reached -1.3mPD (25-Jan'15)	0	24-Jan-15 A	24-Ja	n-15		••	
1 1	 B3 SBC RC Roof, Jn MSB03 01 	R NFP & EBC 67% cofferdam, JnR WBC UU div complete (3-May'15) Southern Basket Ball Court: Roof slab construction has been satisfactorily completed (3-Mav'15)	0	28-Apr-15 A	02-Ma	av-15		•	
• Biology • Biology	MSB03_02	Johnston Road North Footpath and East-bound Carriageway: 67% of cofferdam installation complete (3-h	0	09-May-15 A	27-Ap	or-15		ו••	
 	MSB03_03	Johnston Road West-bound Carriageway - All utility diversions, where required, satisfactorily completed (0	21-Mar-15 A	21-Ma	ar-15		**	
	MSB03_04	10% completed of tram track support (3-May15)	0	29-Apr-15 A	02-Mi	ay-15		•	
000000000000000000000000000000000000	MSB04 01	Site entry, CPA base, JMK NFP & EBC Conterctam & decks complete (Z-Aug 15) Southern Basket Ball Court: Playing surface has been returned to LCSD for use (Z-Aug'15)	0	11-Aug-15 A	27-Ju	in-15		•	
emile (a) Control of the formation of the found of	MSB04_02	Northern Basket Ball Court: Site entry onto Hennessy Road has been formed (2-Aug'15)	0	15-Aug-15 A	31-Ju	1-15		*0	
a model (a) (b) A model (b) A mo	MSB04_03	Children's Play Area: RC construction of the base slab, except at mucking out point, complete (2-Aug'15)	0	17-Jul-15 A	31-Ju	H-15		*	
 	MSB04_04	JnR N-Footpath & E-Bound Carriageway. Cofferdam construction complete & all temp traffic decks insta	0	31-May-16	29-Ju	1-15 27	2 0	*	
0.0000 (20) Control Participation decomposition of the sector of control Participation of control Participation of the sector of control Participation of the sector of control Participation of the sector of control Participation of control Participatio control Participation of control Participation of cont	 B5 NBC cofferdam, 6 MSB05 01 	CPA RC & vent shaft 1.2m above GL. Tram Tracks Excavation to +0.0mPD (1-NoV15) Northern Basket Ball Court: Satisfactorily complete construction of the cofferdam (1-NoV15)	0	18-Dec-16 A	30-00	ct-15		•	•
Marcial Gia Turn Trans-s Tecnandor un compared (13-unit) 0 33-unit Gia 24-onit Gia	MSB05 02	Children's Play Area: RC construction complete include above ground vent shaft structures 1.2m above s	0	10-Jun-16	31-00	ct-15 26	11 18	• •	
 	MSB05_03	Tram Tracks - Excavation to +0.0 mPD is satisfactorily completed (1-Nov'15)	0	29-Jun-16	24-00	ct-15 24	3 0	•	
	B6 NBC Excavation 1	to formation, JnR Excavation complete (31-Jan'16)	c	20 Dec 45 A	-1 00	140		•	
e1 statistic on an of on an of all bits in complete (14/4)/0 0 04/4/15 3/4/4/15 0 <td>MSB06_01</td> <td>Northern basket Ball Court - Excavation to tinal formation has been satisfactonly completed (31-Jan'16) Johnston Road All Carrianewave Footbaths & Tran Tracks: Excavation is completed (31-Jan'16)</td> <td>0 0</td> <td>05-Oct-16</td> <td>30-1a</td> <td>m-16 14</td> <td>5 0</td> <td>•</td> <td>•</td>	MSB06_01	Northern basket Ball Court - Excavation to tinal formation has been satisfactonly completed (31-Jan'16) Johnston Road All Carrianewave Footbaths & Tran Tracks: Excavation is completed (31-Jan'16)	0 0	05-Oct-16	30-1a	m-16 14	5 0	•	•
MS97.01 Monthm Bard Ed. Concretedion of the other monoled (14/4) ¹⁰ ex 1890.02 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 1890.01 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm Bard Ed. Concretedion Of the notice monoled (14/4) ¹⁰ ex 28.00 Monthm B	= B7 NBC RC roof, JnR	R CW & FP & TT RC construction exp temp opening. CPA RC complete (1-May'16)							
 Michael Carlon Sharker K. Construction of a consect of many section consect of many secting consection consection consection consecting c	MSB07_01	Northern Basket Ball Court: RC construction of the roof slab has been completed (1-May16)	0	01-Apr-16 A	30-Ap	or-16		•	
 	MSB07_02	JnR Carriageways, Footpaths & Tram Tracks: RC construction, except at temporary opening completed (Children's Diar Amor DD Construction of above accord undilation shoft at notinee is considered (1. Marvis)	0 0	30-Dec-16 16-1-1-16	30-Ap	or-16 5 vr-16 22	166 166	•	
 WWT to Dream fail of current in share strained or watch in this hear from of the strained or watch in the st	- B8 ABWF Degree1 ac	chieved, NBC All reinstatement, Opening through H15 D-wall complete (31-Jul'16)		2	durane l			•	
 Wisslo, G2 (Inflimentation from Eask of Equival 9. Solur) Wisslo, G2 (Inflimentation from Eask of Endoms) (Al Julfis) Wisslo, G3 (Hill Infliments: The control (Al Julfis) Wisslo, G1 (Hill Kapht) 	MSB08_01	ABWF to Degree 1 has been achieved for works in this cost centre (31-Jul'16)	0	29-Mar-17	28-Ju	l-16 3	0 2	•••	•
Strate All constraints	MSB08_02	Northern Basket Ball Court - All re-surfacing works & playing surface reinstatement completed (31-Jul'16)	0 0	30-Jul-16	28-Ju	II-16 21	1 243		
• Walking Of • Mark To Drogenes have been and accord from the cost canner • Mark To Drogenes have been addited only compared • Mark To To Topic	E R9 ARWE Dorroo3 ac	H15 Interface: The opening unrough H15 diapriragin wall has been tormed (31-30116) chiowed All road reinstatement in Jing & Hennessy Rd commister (30-30116)		/1-IBIN-10	nr-nr	-10 -	2	•	
 All road fragment of money fraged have been satisfactorily completed (MSB09_01	ABWF to Degree 3 has been achieved for works in this cost centre (30-Oct'16)	0	04-Jul-17	27-00	ct-16 -12	0 1		•
 March and an first constraint of the sector of the se	MSB09_02	All road reinstatement works in Johnston Road and Hennessy Road have been satisfactorily completed (0	15-Mar-17	21-00	ct-16 -1	6 111		•
• Degress of completion for ABWF Works • ABWED ABWE Works • ABWED (1)00 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 • ABWED (1)100 <td></td> <td>All works in this cost centre have been satisfactorily completed (26-Feb117)</td> <td>0</td> <td>04-Jul-17</td> <td>25-Fe</td> <td>ab-17 -12</td> <td>7 107</td> <td></td> <td>•</td>		All works in this cost centre have been satisfactorily completed (26-Feb117)	0	04-Jul-17	25-Fe	ab-17 -12	7 107		•
AWK A	The Degrees of complete	tion for ABWF Works	c	20 M - 1 4	.1 00	0	9		
a BWE D3 ABWF Notes - Degree 3 0 0-Jul-17 27-Oci-16 -127 0 0 -127 0 0 -127 0 0 -127 0 0 0 0-Jul-16 27-Oci-16 -127 0 0 0 0-Jul-16 27-Oci-16 -127 0 0 0 0-Jul-16 29 0 0 0-Jul-16 29 0 0 0-Jul-16 29 0 0 0 0-Jul-16 29 0 0 0 0 0-Jul-16 29 0 0 0 0 0-Jul-16 29 0 0 0 0 0-Jul-16 20 0 0 0 0-Jul-16 20 0	ABWF.D2	ABWF Works - Degree 1 ABWF Works - Degree 2	0	01-Jun-17	23-Se	sp-16 -9	4 33		•
ABWE Works Series ABWE Works Series ABWE Month Series S	ABWF.D3	ABWF Works - Degree 3	0	04-Jul-17	27-00	ct-16 -12	7 0		•
ABWE-D1_1020 1: Plastering and parting some part or several or point except on value for any or present or and the several or present of the several or properties of the several or present of the several of the several or present of the several of the severa of the several of the several of the several of the sev	ABWF Works - Degre	001 114 Structure and hildline consulate alone der and unselber month	c	20 Mar 17	of ac	140			
■ ABWF.D1_1030 1.3. Plastering, undercoat painting, floor screeding including plinits & upstands complete 0 29-Mar-17 28-Jul-16 -30 0 •	ABWF.D1 1.020	 I.1- structure and buriding complete, clean, dry and weather proof 2- Blockwalls and partition walls complete, except on plant access route 	0	29-Mar-17	28-Ju	-10 -16 3	000		•
ABWF.DT.1.040 1.4- Equipment delivery routes & access openings available for Designated Contractors or Interface Cont ABWF.DT.1.050 1.5- Cast-In terms & subframe installed; riches, recesses and box outs formed; cable troughts, ducts & in Actual Baveline = a-bull survey accepted Actual Baveline = a-bull survey accepted Actual Work Remaining Work Caster Program (Updated Ending May'16) Progress vs Program (Updated Ending May'16) Progress vs Program (Updated Ending May'16)	ABWF.D1_1.030	1.3- Plastering, undercoat painting, floor screeding including plinths & upstands complete	0	29-Mar-17	28-Ju	1-16 -3	0 0		•
 ABWE-D1.1050 1.6- Cast-in tiens & subframe installed; inclues, recesses and box outs formed; cable toughts, ducts & n ABWE-D1.1050 1.6- Stantenter as subframe installed; inclues, recesses and box outs formed; cable toughts, ducts & n Actual Ravel Actual Ravel Actual Ravel Allestone Allestone Actual Ravel Allestone Allestone Anisetone Anisetone Actual Ravel <	ABWF.D1_1.040	1.4- Equipment delivery routes & access openings available for Designated Contractors or Interface Cont	0	29-Mar-17	28-Ju	1-16 -3	0	•	•
Actual Level of Effort Actual Level	ABWF.D1_1.050	 1.5- Cast-in items & subframe installed; niches, recesses and box outs formed; cable troughs, ducts & n 1.6- Structure as-built survey accented 	0 0	29-Mar-17 29-Mar-17	28-Ju 28-Ju	I-16 3	0 0	• •	• •
Actual work Actual work Actua	Ashiral I must at Case	A A Design Mission	Wan Chai Cta	Han Las T	Ctunot Ctunot C	Jubaron .			
Autual work Remaining work Progress vs Program (Updated Ending May'16)	Actual Level of Effor		Wan Chai Star	I aar uon	ung sureet s	unway			/
Progress vs Program (Updated Ending May'16)	Actual Work		Master Program	n (Kev.C)					
	Ramaining Work	Droam	on Dromond au age	Antod Dading N	And I G			BIII	D KING
	n	1901 1	ndo) maisor r ex een	a guinner noinn	INT ADTA				

C6593-13C LTS MP Re	w.C_BL_Report (May'16)	-					07-Jun-16_14:41
Activity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Float Float	014 2015 2016 2017 2018 11.1045 ND 18 0.11.045 ND 18 0.11.045 ND 18 0.11.045 ND 18 0.046 0.047 0.046 0
ABWF.D1_1.070	1.7- Structural & blockwork E&M openings formed & survey complete	0	29-Mar-17		28-Jul-16	-30 0	
ABWF.D1_1.080	1.8- Movement joints & stitch strips complete	0	29-Mar-17		28-Jul-16	-30 0	•
ABWF.D1_1.090	1.9- Drainage system & discharge connections complete with temporary pumps operational	0	28-Mar-17		27-Jul-16	-29 1	•
ABWF.D1_1.100	1.10- Escalator zones & pits complete; survey reference lines accepted	0	29-Mar-17		28-Jul-16	-30	•
ABWF.D1_1.110	1.11- Earthing mat, earthing rods & earthing pits complete & test results accepted	0	29-Mar-17		28-Jul-16	-30 0	•
ABWF.D1_1.120	1.12- Underground pipework complete including manholes, ductworks & drawpits	0	29-Mar-17		28-Jul-16	-30	
ABWF.UT_1.130	1.13- Civil & building provisions for designated & interfacing contractors complete	-	31-May-16		14-Apr-14	2/2 3/2	
ABWE D2 2.010	2 1- Permanent door frames installed with termorary doors and locks	0	24-Mav-17		15-Sen-16	-86	
ABWF.D2 2.020	2.2- Floor finishes & wall tilling in plant rooms for Designated Contractors complete	0	01-Jun-17		23-Sep-16	-94 0	•
ABWF.D2 2.030	2.3- Glazing & Balustrade support installed	0	13-Apr-17		11-Aug-16	-45 49	
ABWF.D2_2.040	2.4- Metal staircases, cat-ladders & catwalks complete	0	24-May-17		15-Sep-16	-86 8	•
ABWF.D2_2.050	2.5- External louvers installed	0	24-May-17		15-Sep-16	-86 8	•
ABWF.D2_2.060	2.6- Framework for final finishes installed	0	24-May-17		15-Sep-16	-86 8	•
ABWF.D2_2.070	2.7- Water tightness testing to water tanks passed	0	24-May-17		15-Sep-16	-86	•
ABWF Works - Deg	ree 3	•	0.4 1.1 4W		011020		
ABWF.U3 3.010	3.1-All initistres complete including permanent doors, ironmongery		11-Inf-40		21-100-12	0 171-	•
ABWF.D3 3.020	3.2- Balustrade Installed	0	11-Inf-40		2/-Oct-16	- 121-	
ABWF.D3_3.030	3.3- Signage hangers & supports installed	0 0	29-Jun-17		24-Oct-16	-122	•
ABWF.U3 3.040	3.4- Koller Shutters, fire Shutters & Smoke barriers Installed	0 0	11-unr-67		24-001-16	G 771-	•
ABWF.D3 3.050	3.5- Acoustic treatment applied	0 0	/1-unr-62		24-Oct-16	C 721-	•
ABWF.U3_3.060	3.0-Louvres & gniles installed		/1-unc-67		24-001-10		•
ABWF.U3_3.U/U	3./-All openings & Penetrations seared	0	/1-UNC-67		24-OCI-10	c 771-	
E RW 0010	Und Keprovision works I CSD handover Northern Basket Ball Chirt 1	1 00-Mar-17	09-Mar-17	17-Dec-16	17-Dec-16	-64	
DUDO MA	Earce off the site	2 10-Mar-17	11-Mar.17	10-Doc-16	20-Dec-16	5	
RW 0030	Ferros An une site Expose the surface	6 13-Mar-17	18-Mar-17	21-Dec-16	29-Dec-16	5 26	-
EW 0040	Resultación works	14 20-Mar-17	05-Anr-17	30-Dec-16	16-Jan-17	-64	
RW 0050	Hand over to LCSD, additional remedial if require	5 06-Apr-17	11-Apr-17	17-Jan-17	21-Jan-17	-64	
RW 0060	LCSD handover Southern Basket Ball Court 2	1 12-Apr-17	12-Apr-17	23-Jan-17	23-Jan-17	-64 0	
RW 0070	Fence off the site	2 13-Apr-17	18-Apr-17	24-Jan-17	25-Jan-17	-64 0	
📟 RW_0080	Expose the surface	6 19-Apr-17	25-Apr-17	26-Jan-17	04-Feb-17	-64 0	
RW_0090	Resurfacing works	13 26-Apr-17	12-May-17	06-Feb-17	20-Feb-17	-64 0	
RW_0100	Hand over to LCSD, additional remedial if require	5 13-May-17	18-May-17	21-Feb-17	25-Feb-17	-64 1	
Cost Centre B: Pa	Int A Works, Civil and Structural Works for the New Subway						
B.RC_Comp	RC Structure completed for the new subway	0	30-Dec-16		30-Apr-16	-240 0	•
Site Preliminary W	JTKS	0 44 Am 44 C	42 Aur 14 A	144 Aprel 44	42 Apr 14		
OLOO WAS	LCountrationer obt. & Plays Area Economic the Other store of the Plante Area	3 14-Apr-14 A	A 41-14A-01	14-Apr-14	22 Apr 14		
STW 0020	Felice of the Site and P accurate hout Adjuster	2 24 Apr 44 A	26 Apr 14 A	24 Apr 14	25 Apr 14		
SPW 0040	Employ security gears a security occur veryery Removal of existing furniture for SBC & Plavs Area as require	6 28-Ant-14 A	05-Mav-14 A	28-Ant-14	05-Mav-14		
SPW 0050	Trial trenches and extracting UU service in SBC & Plav's area	40 14-Apr-14 A	05-Jun-14 A	14-Apr-14	05-Jun-14		
SPW 0060	Setting up site office & misc.	50 07-Mav-14 A	05-Jul-14 A	07-Mav-14	05-Jul-14		
SPW 0070	Form site access for vehicle	12 07-Jul-14 A	19-Jul-14 A	07-Jul-14	19-Jul-14		
SPW 0080	Diversion of existing utilities & misc. works if require for SBC & Play's Area	24 09-Jun-14 A	07-Jul-14 A	09-Jun-14	07-Jul-14		
SPW 0090	Erect hoarding for SBC	12 16-Jul-14 A	29-Jul-14 A	08-Jul-14	21-Jul-14		
SPW 0100	Ground/ Site Investigation in SBC & Play's Area	18 08-Jul-14 A	28-Jul-14 A	08-Jul-14	28-Jul-14		
SPW 0110	Transplant and tree removal	72 24-Apr-14 A	21-Jul-14 A	24-Apr-14	21-Jul-14		
T Northern Basket Ba	ll Court						
BNBC 0010	Liaison with relevance parties for TTM	80 02-Apr-15 A	02-Jul-15 A	02-Apr-15	13-Jul-15		
NBC 0020		V GI-BNY-II 0	V CI-BNV-II	CI-UNC-67	00-Jul 12		
NBC 0030	Preparation works for NBC site access	V 31 OLA 11 4	A dr-guA-rt	01-10-10	G1-INC-01		
NBC 0040	Implementation of material ferror according for multiple	A 01-QUA-11 C	WCI-BNW-II	34 1-10(-4-1	10-Jul-15		
Deco Dav	resounds of installation factors access and for public Lioandina installation factallation of sits entry on Lionnassi's Dead	A 31-Aug-11 0	15 Aug 15 A	10 101 15	24-161-45		
NBC 0000	Froming installation, installation of site entry of reminessy road. Evinesa 1111 & trial tranch for shart nilas works.	12 17-Aun-15 A	20-Aug-15 A	01-Aun-15	14-Ann-15		
NBC 0080	Phase 3 FI S. Sheat Pilas Installation 1104 no × 24ml	48 24-Aun-15 A	23-Sen-15 A	15-Aug-15	12-Oct-15		
NBC 0090	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	15 30-Sep-15 A	13-Oct-15 A	13-Oct-15	30-Oct-15		
 NBC 0100 	Phase 3 ELS- Pumping Test preparation works	12 09-Oct-15 A	26-Oct-15 A	13-Oct-15	27-Oct-15		
NBC_0110	Phase 3 ELS- Pumping Test	6 27-Oct-15 A	01-Nov-15 A	31-Oct-15	06-Nov-15		
NBC 0120	Phase 3 ELS- Pumping Test Report Preparation and submission to BD	6 02-Nov-15 A	02-Nov-15 A	07-Nov-15	13-Nov-15		
NBC_0130	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m	9 04-Nov-15 A	10-Nov-15 A	14-Nov-15	24-Nov-15		
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		NBC_0140	Bulk excavation & layer 2 strut & preloading [500m ⁴³]	15 11-Nov-15 A	21-Nov-15 A	25-Nov-15 11-Dec-	15		
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 		NBC_0230	Reinstatement and installation of flood light [2nos.]	6 29-Mar-16 A	02-Jun-16	18-May-16 24-May-	-16 101		
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Jnr.TT_0120 Reinstate the fram track surface 0 0.6.Um-15A 0.6.Um-15A <td< td=""><td>Jurr 1012 Rainstate the tram track surface 6 S-May-15 A 6e-Jun-15 A 0e-Jun-15 A 0e-Jun-15</td><td>JnRTT 0120 Reinstate the tram track surface JnRTT 0130 Tarm track concrete decking & reinstatement works completed ready for implementation of TIM Stage 4 0 6 6-3-May-15 A 06-Jun-15 A 06-Jun-16 A</td><td>JnR.TT 0110</td><td>Concreting for concrete decking below tram track [Concrete 60m^A3]</td><td>6 28-Apr-15 A</td><td>23-May-15 A</td><td>24-Jun-15</td><td>30-Jun-15</td><td></td><td></td></td<>	Jurr 1012 Rainstate the tram track surface 6 S-May-15 A 6e-Jun-15 A 0e-Jun-15	JnRTT 0120 Reinstate the tram track surface JnRTT 0130 Tarm track concrete decking & reinstatement works completed ready for implementation of TIM Stage 4 0 6 6-3-May-15 A 06-Jun-15 A 06-Jun-16 A	JnR.TT 0110	Concreting for concrete decking below tram track [Concrete 60m ^A 3]	6 28-Apr-15 A	23-May-15 A	24-Jun-15	30-Jun-15		
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JIR.TT 0140 Znd layer grouting and pipe piles below train track to -17mPD (16m) 50no. x 324mm dia. 450mm C/C (2r 12 28-0x1-15 16 17-Nuv-15 159 0 JORNISC 0010 Implementationewort (TIM Stage 5 3 11-Aug-15A 12-Aug-15A 13-Aug-15 16-Aug-15A 16-Aug-15B 1	JIR.TT_0140 2nd layer grouting and pipe plies below train track to -17mPD (16m) 50n. X 324mm dia. 450mm C/C (2r 12 29-Jun-16 14-Jul-16 26-Oct-15 07-Nov-15 -190 0 JIR.WBC 0000 strainstruction of TIM Stage 5 3 3 11-Jug-15 A 12-Aug-15 A 13-Aug-15 A 13-Aug-15 A 13-Aug-15 A 13-Aug-15 A 13-Aug-15 A 13-Aug-15 B 14-Aug-15 B 14-Aug-15 A 13-Aug-15 B 14-Aug-15 B 14-Aug-15 B 13-Aug-15 B	JIR.TT 0140 Znd layer grouting and pipe plete below tram track to -17m/D (16m) 50no. x 324mm dia. 450mm C/C (2r 12 29-Jun-16 14-Jul-16 26-Oct-15 07-Nov-15 -199 0 JIR.WIGC 0000 Implementationers of miniperval (TIM Stape 5 3 11-Aug-15 A 12-Aug-15 A 13-Aug-15 B 17-Aug-15 A 13-Aug-15 B 13-Aug-15 B 13-Aug-15 B 14-Jul-16 D 0	JnR.TT_0130	Tram track concrete decking & reinstatement works completed ready for Implementation of TTM Stage 4	0	06-Jun-15 A		08-Jul-15		•
Jnr.WIGC 0000 Implementation of TTM Stage 5 3 11-Aug-15 A 12-Aug-15 A 13-Aug-15 [5-Aug-15 A 13-Aug-15 [5-Aug-15 A 14-Aug-15 A Jnr.WIGC 0000 Implementation of TTM Stage 5 12 11-Aug-15 A 12 11-Aug-15 A 13-Aug-15 B 12 Aug-15 B 12 Aug-15 B 12 Aug-15 B 12 Aug-15 B 13 Aug-15 B 13 Aug-15 B 14 Aug-15 B 14 Aug-15 B 14 Aug-15 B 14 Aug-15 B 12 Aug-15 B	Ansates Amontonion	Ontraction of TIM Stage 5 Ontraction of TIM Stage 5 3 11-Aug-15 A 12-Aug-15 A 12-Aug-15 A 12-Aug-15 B	JnR.TT_0140	2nd layer grouting and pipe piles below tram track to -17mPD (16m) 50no. x 324mm dia. 450mm C/C (2 r	12 29-Jun-16	14-Jul-16	26-Oct-15	07-Nov-15	-199 0	
JRKWEC 0020 Inflimench JRKWEC 0020 Inflimench JRKWEC 0030 Phase 2 ELS- Sheet Plies Intellation (20no. x 24m) JRKWEC 0040 Curtain Grouting and remedial works for sheet plies not reaching to design toe level 12 11-Aug-15 A 17-Aug-15 D-Sap-15 B 07-Aug-15 D-Sap-15 D 07-Aug-15 D 07-	JIR.WBC.0020 Train Timeh JIR.WBC.0030 Priar Timeh JIR.WBC.0030 Priar Set ELS- Street Plies Installation [Zono. x 24m] JIR.WBC.0030 Priare 2 ELS- Street Plies Installation [Zono. x 24m] JIR.WBC.0040 Currain Southy and remedial works for sheet plies not reaching to design the level JIR.WBC.0040 Currain Southy and remedial works for sheet plies not reaching to design the level JIR.WBC.0040 Currain Southy and remedial works for sheet plies not reaching to design the level JIR.WBC.0040 Currain Southy and remedial works for sheet plies not reaching to design the level JIR.WBC.0050 Sheet plies completed on Westbound carriageway Actual Level of Effort Beseline Nillestone Willestone Contract C6593-13C Wan Chai Station Lee Tung Street Subway Master Program (Rev.C) 	JR.WBC 0020 Trait Trench 12 11-Aug-15 18-Aug-15 14-Aug-15 28-Aug-15 14-Aug-15 15-Aug-15 16-Aug-15	Johnston Road Wes	tbound carriageway (TIM Stage 5) Implementation of TTM Stage 5	3 11-Aun-15.A	12-Aun-15 A	13-Aun-15	15-Aun-15		/
a JnR.WBC 0030 Phase 2 ELS- Sheet Piles Installation [20no. x 24m] a JnR.WBC 0040 Curtain Grouting and remedial works for sheet piles not reaching to design toe level 3 2 22-Feb-16 A 16-Mar-16 A 07-Sep-15 09-Sep-15	Jnr.WBC. 0030 Phase 2 ELS- Sheet Piles Installation [20no. x 24m] 6 13F-64-16 A 07-Mar-16 A 31-Aug-15 65-Sep-15 1 Jnr.WBC. 0040 Cutain medial works for sheet piles not reaching to design to elevel 3 22-Feb-16 A 16-Mar-16 A 71-Aug-15 05-Sep-15 1 Jnr.WBC. 0000 Sheet piles not reaching to design to elevel 3 22-Feb-16 A 16-Mar-16 A 05-Sep-15 1 Jnr.WBC. 0000 Sheet piles not reaching to design to elevel 3 22-Feb-16 A 16-Mar-16 A 05-Sep-15 1 Jnr.WBC. 0000 Sheet piles not reaching to design to elevel 0 16-Mar-16 A 05-Sep-15 1 Actual Level of Effort 	JnRWBC_0000 Phase 2 ELS- Sheet Piles Installation [Z0no. x 24m] 6 13-Feb-16A 07-Mar-16A 31-Aug-15 05-Sep-15 05 16 JnRWBC_0000 Curtain Grouting and remedial works for sheet piles not reaching to design too level 3 32-Feb-16A 07-Mar-16A 07-Sep-15 09-Sep-15 0 1 JnRWBC_0000 Sheet piles completed on Westbound carringeway 0 16-Mar-16A 07-Sep-15 09-Sep-15 0 <td>JnR.WBC 0020</td> <td>Trial Trench</td> <td>12 11-Aug-15 A</td> <td>18-Aug-15 A</td> <td>31-Aug-15</td> <td>29-Aug-15</td> <td></td> <td></td>	JnR.WBC 0020	Trial Trench	12 11-Aug-15 A	18-Aug-15 A	31-Aug-15	29-Aug-15		
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JnR.WBC_0050 [Sheet piles completed on Westbound carriageway Actual Level of Effort	JnR.WBC_0050 Sheet plies completed on Westbound carriageway 0 16-Mar-16.A 09-Sep-15 11-11-11-11-11-11-11-11-11-11-11-11-11-	 JnR.WEG_0050 [Sheet plies completed on Westbound carriageway Actual Level of Effort Station Let Tung Street Subway Milestone Milestone	JnR.WBC_0040	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	3 22-Feb-16A	16-Mar-16 A	07-Sep-15	09-Sep-15		
	Actual Level of Effort • Baseline Milestone Contract C6593-13C Wan Chai Station Lee Tung Street Subway Primary Baseline • Milestone Master Program (Rev.C) Master Program (Rev.C)	 Actual Level of Effort 	JnR.WBC_0050	Sheet piles completed on Westbound carriageway	0	16-Mar-16 A		09-Sep-15		
Primary Baseline + Milestone Master Program (Rev.C)	Primary Baseline • • Milestone Master Program (Rev.C) Master Program (Rev.C)	Primary Baseline • • Milestone Master Program (Rev.C) Actual Work Actual Work Programs vork Program (Updated Ending May ¹⁶)	 Actual Level of Effor 	t	Wan Chai Sta	tion Lee T	ung Stre	et Subwa	Λ	
		Actual Work Remaining Work Progress vs Program (Updated Ending May'16)	 Primary Baseline 		Master Program	m (Rev C)	0			
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C6593-13C LTS MP Rev	n.C_BL_Report (May'16)						07-Jun-16_14:41	
Activity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 014 2015 2016 2016 UJIASCNDJJFF14 JJJJASS NDJJFF1A JJJJASCNDJJF	2017 2018 A LJUJAS INDJIF IA
JnR.WBC_0060	Coring for minipile No. 3 to reach -56mPD (60m) Installation of Do Brack-ministilla M-3 for short FEA 3 Tread	8 29-Mar-16 A	01-Apr-16 A	17-Aug-15	25-Aug-15			
JAR WRC 0080	Restrictions for ministry to 3	1 18-Anr-16 A	20-Ant-16 A	01-Sen-15	01-Sen-16			
JnR.WBC 0090	Coring for minipile No. 4 to reach -56mPD [60m]	8 01-Apr-16 A	11-Apr-16 A	26-Aug-15	03-Sep-15			
JnR.WBC_0100	Installation of Re-Bar for minipile No.4 [4x 60m T50, 3.7Ton]	5 16-Apr-16 A	16-Apr-16 A	04-Sep-15	09-Sep-15		-	
JnR.WBC_0110	Grouting for miniple No.4	1 18-Apr-16 A	20-Apr-16 A	10-Sep-15	10-Sep-15		-1	
JnR.WBC_0120	Re-Bar Installation for minipile location	4 18-Apr-16 A	02-Jun-16	11-Sep-15	15-Sep-15	-199		
DIR.WBC_0130		Z 03-Jun-16	04-Jun-16	16-Sep-15	17-Sep-15	-199]	
Ine WBC FS 001	estoound carriageway East Side (11M Stage 2A) 0 Timilamentation of TTM Stage 2A	3 18-Dor-14 A	20-Doc-14 A	18-Doc-14	20-Dor-14		/	
Ing WBC FS 002	0 Expose III	12 22-Dac-14 A	07-1an-15 A	22-Dac-14	07-Jan-15			
Interview Interview	0 LIU diversion on JnR Weethound Carrianewav East Side	24 08-lan-15 A	04-Fah-15 A	08-Jan-15	04-Fah-15			
INR WRC FS 004	0 Installation of temporary traffic devicion	3 05-Fah-15 A	07-Fah-15 A	OF Fah-15	07-Fah-15			
INR.WBC.ES 005	0 Traffic decking completed on Westbound Carriageway East Side for TTM Stage 28	0	07-Feb-15 A		07-Feb-15			
Johnston Road We	estbound carriageway West Side (TTM Stage 2B)							
JnR.WBC.WS_001	10 Implementation of TTM Stage 28	3 09-Feb-15 A	11-Feb-15 A	09-Feb-15	11-Feb-15			
JnR.WBC.WS_002	20 Expose UU	12 12-Feb-15A	28-Feb-15 A	12-Feb-15	28-Feb-15			
JUR.WBC.WS_003	30 UU diversion on JnR Westbound Carriageway West Side	18 02-Mar-15 A	21-Mar-15 A	02-Mar-15	21-Mar-15			
JnR.WBC.WS_004	40 UU diversion on JnR Westbound Carriageway Completed	0	21-Mar-15 A		21-Mar-15		••	
JnR.WBC.WS_00	50 Installation of temporary traffic decking	6 23-Mar-15 A	28-Mar-15 A	23-Mar-15	28-Mar-15			
JNR.WBC.WS_006	60 Traffic decking completed on Westbound Carriageway West Side for TTM Stage 3	0	28-Mar-15 A		28-Mar-15		••	
In Johnston Road Sol	uth Footpath (TTM 4)	2 22 lim 45 A	22 time 4E A	DO 1.4 46	44 1.4 4E			
	Implementation of 11M 4	A CT-11U-52 5	Act-nuc-62	GL-INP-60	GL-INC-11	+		
UnR.SFP_0020	Expose UU	12 23-Jun-15 A	06-Jul-15 A	13-Jul-15	25-Jul-15		•	
	UU diversion	9 23-Jun-15 A	06-Jul-15 A	27-14-15	05-Aug-15			
	Phase 2 ELS- Sheet Piles Installation (15no. X 24m)	A d1-00-00 0	15-Dec-15 A	GT-IUL-12	61-QUA-10			
	Curtain Grouting and remedial works for sheet plies not reaching to design toe level	3 10-UBC-15 A	24-Dec-15 A	GL-SUQ-50	GL-BUA-CU			
		0 13-Jan-To A	A of -1 - 20	cL-Bny-on	ct-gue-zt			
T HIS Brock Through	Sheet Pries & Itarric decking completed on South Footpath for 11M Stage 5	0	Z0-Jan-10 A		c1-6nH-71		*	
H15 0010	Installation protection measurement for break through	3 11-Jan-17	14-Jan-17	13-Mav-16	17-Mav-16	-188		
H15 0020	Breaking out to H15 - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m blocks	48 14-Jan-17	15-Mar-17	18-Mav-16	14-Jul-16	-188		
H15 0030	Breaking out to H15 - Installation of temporary steel proping	30 20-Jan-17	28-Feb-17	24-May-16	28-Jun-16	-175	13	
H15_0040	Breaking out to H15 - Construct the portal frame	12 15-Mar-17	29-Mar-17	15-Jul-16	28-Jul-16	-188	0	
H15_0050	Demolish the propping steel members	2 29-Mar-17	31-Mar-17	29-Jul-16	30-Jul-16	-188	0	
Cost Centre B: Par	rt A Works, ABWF Works for the New Subway							
ABWF_0010	Preparation works for Fire Shutter on GL-L	6 30-Dec-16	07-Jan-17	03-May-16	09-May-16	-188	0	
ABWF_0020	Installation of Fire Shutter on GL-L	3 07-Jan-17	11-Jan-17	10-May-16	12-May-16	-188	-	
ABWF_0030	Preparation works for Security Shutter on GL-L	6 30-Dec-16	07-Jan-17	03-May-16 (09-May-16	-188		
ABWF_0040	Installation of Security Shutter on GL-L	3 07-Jan-17	11-Jan-17	10-May-16	12-May-16	-188	•	
ABWF_0050	Preparation works for Flood Gate on GL-L	6 30-Dec-16	07-Jan-17	03-May-16	09-May-16	-188	•	
ABWF 0060	Installation for Flood Gate on GL-L	3 07-Jan-17	11-Jan-17	10-May-16	12-May-16	-188		
ABWF 0070	Completion of Flood Gate, Fire Shutter & Security Shutter on GL-L	0	11-Jan-17	011000	12-May-16	-229	*	
ABWF_0080	Remaining ABWF, tinishing & Site cleaning works	90 04-Jul-17	19-Oct-17	28-Oct-16	16-Feb-17	-181	•	
ABWF.D1 0010	Site Cleaning & dry the internal of Structure & building	72 30-Dec-16	29-Mar-17	03-Mav-16	28-Jul-16	-191		
ABWF.D1 0020	Installation of blockwalls & partition wall except on plant access route	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-191	0	
ABWF.D1 0030	Apply Plastering, undercoat, painting, floor screeding including plinths and upstands	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-26	0	
ABWF.D1_0040	Forming equipment delivery routes and access openings for DC or Interface Contractors	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-26	0	
ABWF.D1_0050	Install Cast-In items, subframe; Form niches, recesses & box outs; Install cable troughs, ducts & risers	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-26		
ABWF.D1_0060	Preparation, submission and approval of Structure as-built survey	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-26		
ABWF.D1_0070	Form Structural & blockwork E&M openings & preparation of survey	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-26	•	
ABWF.D1_0080	Installation of movement joints & stitch strips	72 30-Dec-16	29-Mar-17	03-May-16	28-Jul-16	-26		
ABWF.D1 0090	rorm escatator zones & pits complete; survey reference lines for acceptance	70 00 0-10	28-Mar-17	01-VEW-10	28-Jul-16	07-		
ABWED1 0100	Installation of Earthing mat, earthing roos & earthing pits, test & acceptance Installation of indemning hine work including maniholae durchandle & draundle	72 30-Dec-16	20-Mar-17	03-May-10	28-Jul-16	96		
T ABWF Works - Danre	installation of anonytours pipe work including institutes, auctivoirs a utampite	01-000-00	11-10141-07	ou - Apixino	oi-mono	07-		
ABWF.D2_0010	Permanent door frames installed with temporary doors & locks	42 29-Mar-17	24-May-17	29-Jul-16	15-Sep-16	-185		
ABWF.D2_0020	Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors	36 13-Apr-17	01-Jun-17	12-Aug-16	23-Sep-16	-191	0	
ABWF.D2_0030	Install Glazing & Balustrade support	12 29-Mar-17	13-Apr-17	29-Jul-16	11-Aug-16	-191	•	
ABWF.UZ 0040	Install Metal starrcases, cat-ladders & catwalks	42 29-Mar-17	24-May-17	29-Jul-16	15-Sep-16	-188	1	
ABWF.UZ 0050	Install External jouvers	42 Z9-Mar-17	24-May-17	91-InC-67	15-Sep-16	-188		
Actual Level of Effor	vt o OBaseline Milestone Contract C6593-13C	Wan Chai Sts	T ee. L uoite	nno Stree	of Subwa			
Primary Baseline		M. L. D.		who Sum	er onour			
Actual Work		Master Progra	m (Kev.C)					
		4						00
	argora	ess vs Program (U)	pdated Ending	May 16)				0
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C6593-13C LTS MP Re	v. C_BL_Report (May'16)						07-Jun-16_14:41
Activity ID	Activity Name	Original Start Duration	Finish	BL Project BL Pro Start Finish	oject T	otal I loat F	Free add 1014 2015 2016 2017 2018 add 10148570073.000 2018 add 1014857005.000 10 add
BS PD 0330	Motorized Smoke & Fire damner - Manufacture & fabrication	90 04-Mav-15 A	19-Aun-15 A	04-Mav-15 19-Au	a-15		
BS PD 0340	Motorizad Smoke & Fire damper - menoratione a radioanor Motorizad Smoke & Fire damper - Factory accentance testing	24 20. Aun. 15 A	16-Sen-15 A	20-Aun-15 16-Sei	11.0		
		UCLENUNZ 17	Uniter of		2 4		
BS.PD 0350	Motonized Smoke & Fire damper - Kemediai works (it require)	VCI-dac-/1 oc	21-OCI-12 A	20-10 c1-dac-/1	01-1		
BS.PD_0360	Motonized Smoke & Fire damper - Factory acceptance testing (if require)	24 U2-Nov-15 A	Z8-N0V-15 A	0N-82 G1-VOV-20	CL-7		1
BS.PD_0370	Motorized Smoke & Fire damper - Delivery to site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15 19-Ma	ir-16		
BS.PD_0380	All Major equipment BS equipment & materials - Completed placing orders	0	02-May-15 A	02-Ma	iy-15		
BS.PD_0390	All Major equipment BS equipment & materials - Completed all factory acceptance testing	0	28-Nov-15 A	28-No	v-15		
BS.PD_0400	All Major equipment BS equipment & materials - Completed delivery to ECS room	0	19-Mar-16 A	19-Ma	Ir-16		
Installation of Build	iding Services						
BS.I_0009	Installation of trucking, cable for the whole subway linking between H15 and WAC station	17 30-Dec-16	20-Jan-17	03-May-16 23-Ma	v-16	199	
BS.I_0010	Electrical - Within Stn, Distribution equip. 16 nr, cable tray & trunk 420m, lighting fitting 81nr, earthing tap	49 31-May-16	28-Jul-16	21-Mar-16 23-Ma	ly-16	-55	1 1
BS.I 0020	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth 170m, sign 42nr	50 20-Jan-17	23-Mar-17	24-May-16 22-Jul	-16	199	
BS.I 0030	Electrical - Subway, D.eq.82nr, cable trav&trunk 803m, cable 2200m, light fit 91nr, earth 170m, sign 42nr	60 23-Mar-17	09-Jun-17	23-Jul-16 03-Oc	t-16	199	
BS.1 0040	ECS - Within WAC Stri Gdille 6 nr air duct 115m2 damber 7 nr	30 20-Jan-17	28-Feb-17	24-Mav-16 28-Jur	-16	185	
BS.1 0050	ECS - Subway Pipe/Insul 75m. fan 12m. onlie 45m. airduct 1106m2. paint 60m2. damper 36m. control 4r	42 28-Feb-17	22-Apr-17	29-Jun-16 17-Au	a-16	185	
000100	To Cubicity of Contract and Con	Thank CC MC	79.MANUT7	18 Aun 16 14 Co	10.0	125	
DO00-100	ECUCI-councily: repetition: and fath, game spin andore involute, pain conne, camper component EC Modes - Milkin LHE, Diss EDm, doctoration 7 ar bosts and 4 ar	04 24 Mar 17	20 Anr 17	NUMBER OF STAND	2 4	188	
	To works evident this report to any operation if the new operation of the fee adjacetished as seened	71-101AL-10 17	DE Mais 17	DE Auste at at Co	240	100	
0000 1.50	Professore Sciences Virginia Truthe Editional MOC 241 of the Professore Virginia Virginia Virginia Professore Virginia Virginia Virginia VIV. Professore Sciences Virginia Virginia Professore Virginia VII Virginia VIrgin	11-14-102 17	4.4 Each 47	and be at work by	100	144	
BS.1 0030	Litainage System - Waste - Existing WSC Stri, 30 m pipe, 2 varve, 4 ptr, 1 switch control parel, 1 power	11-112-02 01	11-091-11	11-1-10 01-APM-1-7	01-1	***	
BS.1 0100	Drainage System - Waste - Subway, Pipe DI/CI 257+18m, 7 joint, 6 OTC	18 14-Feb-17	07-Mar-17	10-90 91-00-91	-16	144	
BS.I_0110	Drainage System - Rainwater Discharge, Cl pipe, 8+18m above/below ground, 2 manholes	18 07-Mar-17	28-Mar-17	07-Jul-16 27-Jul	-16	144	
BS.I_0120	Cleansing Water System - Within WAC Station, 137m copper pipe, 3 gate valve, 2 stopcock, 2 water me	54 20-Jan-17	28-Mar-17	24-May-16 27-Jul	-16	192	
BS.I_0130	Cleansing Water System - Subway, 87m copper pipe, 1 gate valve, 1 joint	48 28-Mar-17	31-May-17	28-Jul-16 22-Sej	p-16	192	
BS.I_0140	Installation of Air Handling Unit	110 20-Jan-17	09-Jun-17	24-May-16 03-Oc	t-16	199	
BS.1_0150	Installation of In-line Centrifugal Fan	110 20-Jan-17	09-Jun-17	24-May-16 03-Oc	t-16 -	199	
BS.I_0160	Installation of Smoke Extraction Fan	110 20-Jan-17	09-Jun-17	24-May-16 03-Oc	t-16	199	
BS.I 0170	Installation of Fan Coil Unit	110 20-Jan-17	09-Jun-17	24-May-16 03-Oc	t-16	199	
BS.1 0180	Installation of Motorized Smoke & Fire damper	110 20-Jan-17	09-Jun-17	24-Mav-16 03-Oc	t-16	199	
BS I 0190	Installation & interaction of control system	110 20-Jan-17	09-Jun-17	24-Mav-16 03-Oc	t-16	199	
UCU ISI	Remaining RS Morks	21 09-1un-17	05-Jul-17	04-Oct-16 28-Oct	t-16	196	
INF SAMSO	Interface Access for SMS_Comme_MCS to All Arease All Louiste and Locations (10,004148)	0	00-1un-17	03-00	1.16	102	•
Toting and Com						ŧ	>
	IIISSIOIIIIS T20 CCS : Taete on Viontilation Eaus Air Belsanding Equipment & Sustem Control Males & Sound ato	24 00-lim-17	DB-1-1-17	M-Dot-16 01-Nov	1-16	100	
BS TC 0020	T&C ECOT Feats of Vehinidatori ana, on batanking, Equiprinan a Opatani, Control, Ivose a Cound, acc. T&C - CAT of HV Sur Roande/ TY TV Sur Roande & MOC 1 inhibitor Control atc	24 00-lun-17	OB_IniL17	04-0ct-16 01-Nov	-16 	100	
BS TC 0030	T&C Fire Service - Deformence Test EH & HP Stetem! Arth Fire Alam Stetem	24 00-11m-17	D8-Int-17	04-Oct-16 01-Nov	-16 	100	
BS TC 0040	T&C Flumbing and Prainage - D&D Flume Control System	24 31 Mau-17	28-lim-17	23-San-16 22-Oc	t-16	102	
BS TC 0050	T&C FIV Stetam - Control Stetams	24 00-lim-17	D8-Int-17	04-Oct-16 01-Nov	-16 ·	199	
FSI	ROUCES Operation - Control Operations FSI - International Test	11 08-101-17	21-1ul-17	02-Nov-16 14-Nov	v-16	199	
Statutory Inspect	on and Annroval						
BS SIA 0010	Submit BA14 for completion of headthrough	6 31-Mar-17	08-Apr-17	01-Aug-16 06-Aus	a-16	58	
BS SIA 0020	B.D's acknowledgementiater obtained	24 08-Anr-17	12-Mav-17	08-Aug-16 03-Set	0-16	-58	266
BS.SIA 0030	DSD/ WSD Inspection and Connection	24 28-Jun-17	27-Jul-17	24-Oct-16 19-Nor	v-16	192	
BS SIA 0040	Contraction for electricity and electricity	12 21-101-17	04-Aun-17	15-Nov-16 28-Nov	v-16	199	
BS SIA 0050	Submit Form 1 and Form 2	1 04-Aun-17	05-Aun-17	29-Nov-16 29-Nov	v-16	199	
BS SIA 0060	Submit our rand our s FS Innection / Re-inspection	12 05-Aun-17	19-Aun-17	30-Nov-16 13-Dec	-16	199	
BS SIA 0070	FS Defect Rectification and Approval	12 21-Aug-17	04-Sep-17	15-Dec-16 30-Dec	c-16	199	
BS.SIA 0080	Form 3 Obtained	1 04-Sep-17	05-Sep-17	31-Dec-16 31-Dec	c-16	199	
BS.SIA 0090	BD Inpection/ Re-inspection	6 05-Sep-17	12-Sep-17	03-Jan-17 09-Jar	-17 -	199	
BS.SIA_0100	EMSD-RB Pre-Inspection by MTRC Ops Team	1 12-Sep-17	13-Sep-17	10-Jan-17 10-Jar	1-17	199	
BS.SIA_0110	Remedial Works	24 13-Sep-17	13-Oct-17	11-Jan-17 10-Fet	b-17	199	124
BS.SIA_0120	EMSD-RB Formal Inspection	1 15-Mar-18	15-Mar-18	11-Feb-17 11-Fet	-17	323	
BS.SIA_0130	Remedial Works & Re-Inspection (If Require)	6 16-Mar-18	22-Mar-18	13-Feb-17 18-Fet	b-17	323	•
BS.SIA_0140	EMSD Letter of "No Objection" Obtained/ Ready to Open	6 23-Mar-18	29-Mar-18	20-Feb-17 25-Fet	b-17	323	•
BS.SIA_Comp	Complete & pass all statutory, joint Inspection & handover to Operation Team for the BS of new Subway-	0	29-Mar-18	25-Fet	b-17	396	•
D: WAC Modifie	cation Works (Part B Works)						
Ha WAC Station Mod	ification Works						
WMW_0010	Install New Telephone Booth and associated works (NTH)	60 17-Nov-16	01-Feb-17	12-Oct-15 21-Det	c-15	294	8
WMW_0020	Relocate 4 Advertising Panels (NTH)	21 09-Mar-17	01-Apr-17	29-Jan-16 25-Fet	b-16	305	/
WMW 0030	Finishing, Remedial works & site cleaning	24 02-Sep-17	29-Sep-17	01-Aug-16 27-Au	g-16	323	1
AFC Audit Room		G	20 Den 45 A	06 A.	. 10		
INF.AFCp	Interface Access for AFC, C&C UC in new AFC Audit Koom inside WAC, Concourse Level (3-May15)	0	Z8-Dec-15 A	idy-cz	-10		
Actual Level of Eff	ort	Wan Chai Sta	T an L an T	uno Street S	nhwav		/
Drimany Basolina				e non ne âm	(and a)		
Actual Work		Master Frogra	m (Kev.C)				
				- 11 M			Build King
	1100LI	ess vs Program (uj	odated Ending i	viay 10)			SILVININ
Critical Remaining	Work						

C6593-13C LTS MP R	ew.C_BL_Report (May'16)					-	07-Jun-16_14:41	
Activity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free 2015 2016 2017 2017 2017 2017 2017 2017 2017 2017	7 2018 14S INDJIF 1
WMW.AFC 0010	Preparation works for works in WAC station	10 28-Dec-15 A	02-Jan-16 A	13-Jan-15	23-Jan-15			
WMW.AFC 0020	Internal Hoarding in WAC station (NTH)	12 04-Jan-16 A	09-Jan-16 A	24-Jan-15	06-Feb-15			
WMW.AFC 0030	Construct new AFC/Audit Room next to Entrance B1, B2, ABWF & BS Works (NTH)	60 28-Dec-15 A	02-Jun-16	07-Feb-15	25-Apr-15	-324	0	
Existing AFC Aduit	it Room, Maxim's & Circle K Klosks							
WMW.K 0010	Llaison with MTR/ relevance parties for modification works of existing Klosks & Audit Room	36 03-Jun-16	16-Jul-16	27-Apr-15	09-Jun-15	-324		
WMW.K 0020	Internal Hoarding in WAC station (NTH)	12 18-Jul-16	30-Jul-16	10-Jun-15	24-Jun-15	-324	•	
WMW.K 0030	Modification Works to existing AFC/Audit, Store & Klosk 3 & 5 (NTH)	90 01-Aug-16	16-Nov-16	25-Jun-15	10-Oct-15	-324	J	
WMW.K 0040	Modification to existing Klosk 2 (NTH)	90 17-Nov-16	08-Mar-17	12-Oct-15	28-Jan-16	-324		++++
ABWF Works & N	Misc Works							
WMW.ABWF_0010	ABWF - Plaster & titling 29 m2, baffling ceiling 10 m2, metal cladding 9 m2	70 09-Mar-17	06-Jun-17	29-Jan-16	27-Apr-16	-324	•	
Breaking Out WA	C Station						/	
WMW.BO 0010	Installation protection measurement for break through	2 07-Jun-17	08-Jun-17	03-May-16	04-May-16	-323	-	
WMW.BO 0020	Breaking out WAC Station - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m blocks	54 09-Jun-17	11-Aug-17	05-May-16	09-Jul-16	-323		
WMW.BO 0030	Breaking out WAC Station - Installation of temporary steel proping	30 15-Jun-17	20-Jul-17	11-May-16	16-Jun-16	-304	10	
WMW.BO 0040	Breaking out WAC Station - Construct the portal frame	12 12-Aug-17	25-Aug-17	11-Jul-16	23-Jul-16	-323		
WMW.BO 0050	Demolish the propping steel members	6 26-Aug-17	01-Sep-17	25-Jul-16	30-Jul-16	-323	•	•
Testing and Com	missioning							
WMW.C 0010	Testing and Commissioning	30 03-Apr-17	13-May-17	26-Feb-16	05-Apr-16	-305	19	
WMW.K_Comp	Specified Part 2B - Complete all works at the 2 new Shop Klosks and hand over to the Employer - Progr	0	06-Jun-17		27-Apr-16	401	•	
E. WAC Station	n Imporvement Works (Part C Works)							
Filmprovement Wo	rks to WAC Station						×	
WIW 0010	Modify, provide & install new glass barrier to suit new AFC gates (NTH)	34 17-Nov-16	28-Dec-16	12-Oct-15	20-Nov-15	13	0	
WIW 0020	Provide and install additional AFC gates (NTH)	34 29-Dec-16	10-Feb-17	21-Nov-15	02-Jan-16	13		++++
WIW 0030	Provide builder works for TIMS relocation (NTH)	40 30-Sep-17	18-Nov-17	29-Aug-16	17-Oct-16	-323	•	1
WIW 0040	T&C by Designated Contractor for TIMS (NTH)	40 20-Nov-17	08-Jan-18	18-Oct-16	02-Dec-16	-323	1	
WIW 0050	Make Good builder works for TIMS (NTH)	53 09-Jan-18	14-Mar-18	03-Dec-16	09-Feb-17	-323	1	
WIW_Comp	E3- All works in milestone E completed - Programmed	0	14-Mar-18		09-Feb-17	-397	0	•





Appendix D

Monitoring Locations

Z:\Jobs\2014\TCS00704 (Wan Chi MTR)\600\Quarterly EM&A Summary Report\7th Quarter (Mar 2016 - May 2016)\R0106v2.doc Action-United Environmental Services and Consulting





Appendix E

Event and Action Plan

Z:\Jobs\2014\TCS00704 (Wan Chi MTR)\600\Quarterly EM&A Summary Report\7th Quarter (Mar 2016 - May 2016)\R0106v2.doc Action-United Environmental Services and Consulting



Event and Action Plan for Construction Noise

Enort		Action		
Event	ET	IEC	ER	Contractor
Action Level	 Notify IEC and Contractor. Carry out investigation. 	1. Review the analyzed result submitted by ET.	1.Confirm receipt of notification of exceedance	1. Submit noise mitigation proposals to IEC
	 3. Report the results of investigation to the IEC and Contractor. 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency to check mitigation effectiveness. 	 Review the proposed remedial measures by the Contractor and advise the ER accordingly. Supervise the implementation of remedial measures. 	 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented. 	2. Implement noise mitigation proposals
Limit Level	 Notify IEC, ER, EPD and Contractor, and follow other actions Identify source Repeat measurement to confirm findings Increase monitoring frequency Check Contractor's working procedures to determine possible mitigation to be implemented Inform IEC, ER and EPD the causes and actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, ER informed of the results If exceedance stops, cease additional monitoring 	 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 ET accordingly Supervise the implementation of remedial measures 	 Confirm receipt of notification of exceedances Notify Contractor Require Contractor to propose remedial measures Ensure remedial measures are 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. 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notifications Implement the agreed proposals Revise and resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated



Event and Action Plan for Air Quality

Fvent		Action		
Event	ЕТ	IEC	ER	Contractor
Action Level	l			
Exceedance for one sample	 Identify source; If valid, inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor	 Rectify any unacceptable practice; Amend working methods if appropriate
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and EPD; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial action required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 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; Supervisor implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial Measure properly implemented. 	 Submit proposals for remedial action to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit Level				
Exceedance for one sample	 Identify source; Inform ER 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. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and the Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 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.
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify sources; 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. 	 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 ET accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with 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 	 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.



Appendix F

Graphical Plots



Air Quality



Construction Noise





Appendix G

Meteorological Information



		Meteorological Data downloaded from H	KO in the	Reporting	g Period		
			Total		Kings	Park Station	
Date		Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Mar-16	Tue	Mainly fine. Moderate easterly winds.	0	17.6	11.9	67.5	E/NE
2-Mar-16	Wed	Mainly fine. Moderate easterly winds.	0	17.8	12.2	51.3	E/NE
3-Mar-16	Thu	Fine. Dry in the afternoon. Light to moderate easterly winds.	0	16.9	13.3	80.5	E/NW
4-Mar-16	Fri	Mainly cloudy. Sunny intervals during the day. Light to moderate easterly winds.	0	19.3	8.7	86.6	E/N
5-Mar-16	Sat	Mainly cloudy with a few fog and light rain patches.	Trace	21.1	7.3	85	E/N
6-Mar-16	Sun	Mainly cloudy with a few fog and light rain patches.	0	21	9.7	84	W/SW
7-Mar-16	Mon	Mainly cloudy with a few fog and light rain patches.	0.2	20.6	8.9	85.5	SE
8-Mar-16	Tue	Fresh northerly winds, occasionally strong offshore and on high ground at first.	0	21.8	16.2	82.2	SE
9-Mar-16	Wed	Mainly cloudy with a few fog and light rain patches.	15.5	21	12	91.0	SE
10-Mar-16	Thu	Mainly cloudy with a few fog and light rain patches.	16.8	13.4	21.0	94	N/NW
11-Mar-16	Fri	Moderate to fresh easterly winds	0.1	10.5	15.2	77	Ν
12-Mar-16	Sat	Cloudy to overcast with occasional rain	0.1	12.3	11.1	88	Е
13-Mar-16	Sun	Mainly fine. Moderate easterly winds.	6.8	16.5	4	97.5	N/NW
14-Mar-16	Mon	Fine. Dry in the afternoon. Light to moderate easterly winds.	0.8	14.5	20	85.5	Ν
15-Mar-16	Tue	Mainly cloudy. Sunny intervals during the day. Light to moderate easterly winds.	Trace	14.1	11.7	83	E/NE
16-Mar-16	Wed	Moderate to fresh easterly winds	1.1	14.4	9.7	88	E/NE
17-Mar-16	Thu	Cloudy to overcast with occasional rain	2.2	17.8	13.4	92.5	E/NE
18-Mar-16	Fri	Fine. Dry in the afternoon. Light to moderate easterly winds.	Trace	21.7	16	89	SE
19-Mar-16	Sat	Mainly cloudy with a few fog and light rain patches.	Trace	23.1	8.3	93	Е
20-Mar-16	Sun	Moderate to fresh easterly winds	0.3	21.7	23.2	82.5	E/SE
21-Mar-16	Mon	Moderate to fresh easterly winds	59.6	18.6	19.2	92.5	E/NE
22-Mar-16	Tue	Cloudy to overcast with occasional rain	1.7	18.1	18	92	E/NE
23-Mar-16	Wed	Cloudy to overcast with occasional rain	8.7	19.3	14.5	96.2	E/NE
24-Mar-16	Thu	Cloudy to overcast with occasional rain	33.4	15.6	15.6	95.2	E/NE
25-Mar-16	Fri	Moderate to fresh easterly winds	1.4	13.7	11.5	76	N/NW
26-Mar-16	Sat	Moderate to fresh easterly winds	0	15.3	11.3	67	SE
27-Mar-16	Sun	Moderate to fresh easterly winds	0	17.1	11.7	58	SE
28-Mar-16	Mon	Mainly cloudy with coastal fog.	0	17.2	10.8	54.5	E/NE
29-Mar-16	Tue	Light to moderate southeasterly winds.	Trace	17.8	10.2	60.5	E/NE
30-Mar-16	Wed	Light to moderate southeasterly winds.	Trace	19.9	12.3	78.7	SW
31-Mar-16	Thu	Mainly cloudy with coastal fog.	0	21.3	9.5	84.5	SW



		Meteorological Data downloaded from H	KO in the	Reporting	g Period		
			Total		Kings	Park Station	
Date	2	Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Apr-16	Fri	Mainly cloudy and foggy with a few showers.	0	22.6	5.8	80.7	W/NW
2-Apr-16	Sat	Mainly cloudy and foggy with a few showers.	Trace	22.6	7	84	W/NW
3-Apr-16	Sun	Mainly cloudy and foggy with a few showers.	0	23.3	7.9	82.1	E/SE
4-Apr-16	Mon	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	4.3	24.5	8	81	E/SE
5-Apr-16	Tue	Mainly cloudy and foggy with a few showers.	Trace	25.5	8.5	87.5	E/SE
6-Apr-16	Wed	Mainly cloudy and foggy with a few showers.	0	23.6	8.2	88	SE
7-Apr-16	Thu	Mainly cloudy and foggy with a few showers.	0	24.5	6.7	86.2	E/SE
8-Apr-16	Fri	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	Trace	25.3	6.5	84.7	E/SE
9-Apr-16	Sat	Cloudy with a few showers	Trace	25.6	7.2	85	SE
10-Apr-16	Sun	Cloudy with a few showers	22.1	23.5	9	89.5	SE
11-Apr-16	Mon	Mainly cloudy and foggy with a few showers.	0.4	21.1	10.5	90.5	SE
12-Apr-16	Tue	Mainly cloudy and foggy with a few showers.	11.4	20.1	13	92.5	E/SE
13-Apr-16	Wed	Mainly cloudy and foggy with a few showers.	76.4	22.6	9.6	94.5	E/SE
14-Apr-16	Thu	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	0.7	23	6.4	98	SE
15-Apr-16	Fri	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	3.4	21.4	15.5	98.2	SE
16-Apr-16	Sat	Mainly cloudy and foggy with a few showers.	Trace	24.3	9.7	89	S/SW
17-Apr-16	Sun	Mainly cloudy and foggy with a few showers.	Trace	25.8	9.1	85	S/SW
18-Apr-16	Mon	Cloudy with a few showers	23.1	22.9	7.2	82.2	W/NW
19-Apr-16	Tue	Cloudy with a few showers	Trace	20.7	17.7	84.7	E/SE
20-Apr-16	Wed	Moderate southerly winds.	Trace	21.4	14.1	84.5	SE
21-Apr-16	Thu	Moderate southerly winds.	Trace	24.7	6.1	84.5	W/NW
22-Apr-16	Fri	Cloudy with a few showers	8.3	23.6	9.7	80	E/SE
23-Apr-16	Sat	Cloudy with a few showers and thunderstorms.	2.8	24.7	8	83	E/SE
24-Apr-16	Sun	Cloudy with a few showers and thunderstorms.	41.4	24.8	7.5	88	W/NW
25-Apr-16	Mon	Cloudy with a few showers and thunderstorms.	12.4	25.8	6.5	88	W/NW
26-Apr-16	Tue	Sunny intervals and a few showers. Fog patches at first.	Trace	27.2	9.7	85	S/SW
27-Apr-16	Wed	Mainly cloudy with a few showers	0.9	27.3	7.5	82	W/NW
28-Apr-16	Thu	Mainly cloudy. A few showers later	1.7	26.4	5.5	77.5	W/NW
29-Apr-16	Fri	Mainly cloudy with a few showers	Trace	23.8	12	74	E/NE
30-Apr-16	Sat	Mainly cloudy with a few showers	1.5	21.8	8	79	E/NE



		Meteorological Data downloaded from H	KO in the	Reporting	g Period		
			Tatal		Kings	Park Station	
Date	2	Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-May-16	Sun	Cloudy with a few showers	3.1	21.8	6.8	89.8	W/NW
2-May-16	Mon	Mainly cloudy with showers.	0.3	25.4	7.2	87.2	W/NW
3-May-16	Tue	Mainly cloudy with showers.	30.7	26.7	7	80.7	W/NW
4-May-16	Wed	Mainly cloudy with isolated showers.	Trace	25.7	7.7	83	SE
5-May-16	Thu	Hot with sunny intervals during	0	28	7.5	82.2	S/SW
6-May-16	Fri	Hot with sunny periods and a few showers.	0	28.8	7.5	81	S/SW
7-May-16	Sat	Hot with sunny intervals during	0	29	8	80.5	S/SE
8-May-16	Sun	Hot with sunny periods and a few showers.	0	28.8	8.5	79.2	S/SE
9-May-16	Mon	Hot with sunny periods and a few showers.	0	28.1	8.5	79.2	S
10-May-16	Tue	Cloudy with a few showers	60.3	25.1	7.5	88.5	SW
11-May-16	Wed	Hot with sunny periods and a few showers.	0	25.8	9.5	70	E/SE
12-May-16	Thu	Cloudy with a few showers	Trace	25.1	13	76.7	SE
13-May-16	Fri	Mainly cloudy. Sunny intervals in the afternoon.	Trace	25.7	11.5	77.5	SE
14-May-16	Sat	Cloudy with a few showers	4.7	25.4	9.1	83	E/SE
15-May-16	Sun	Mainly cloudy. Sunny intervals in the afternoon.	1	27.1	8.3	81	E/SE
16-May-16	Mon	Cloudy with a few showers	0.3	24.6	8.2	71.5	N/NE
17-May-16	Tue	cloudy with one or two rain	1.2	23.3	14.7	83	E/SE
18-May-16	Wed	cloudy with one or two rain	0	24.5	14.5	71.5	E/SE
19-May-16	Thu	Cloudy with a few showers	Trace	25.6	8.9	80.7	E/SE
20-May-16	Fri	Mainly fine and hot. Light to moderate east to southeasterly winds.	16.1	25	8.5	91.2	E/SE
21-May-16	Sat	Mainly fine and hot. Light to moderate east to southeasterly winds.	37.6	26.2	8.1	87	E/SE
22-May-16	Sun	Mainly fine and hot. Light to moderate east to southeasterly winds.	0	27.6	6.9	82	E/NE
23-May-16	Mon	Mainly fine and hot. Light to moderate east to southeasterly winds.	Trace	27.3	5.5	74.5	E/NE
24-May-16	Tue	Mainly fine and hot. Light to moderate east to southeasterly winds.	Trace	28.2	9.6	80	SE
25-May-16	Wed	Mainly fine and hot. Light to moderate east to southeasterly winds.	Trace	28	9.6	80	SE
26-May-16	Thu	Mainly cloudy with a few showers. Moderate to fresh easterly winds.	0.1	27.6	12.5	82.5	E/SE
27-May-16	Fri	Mainly fine and very hot.	14.4	27.1	14	88.7	E/SE
28-May-16	Sat	Mainly fine and very hot.	62.9	26.9	8	89.8	E/SE
29-May-16	Sun	Mainly fine and very hot.	0.8	28.9	7.9	82.5	W/SW
30-May-16	Mon	Mainly fine and very hot.	0.1	29.5	9.1	81.5	W/NW
31-May-16	Tue	Mainly fine and very hot.	0	30.1	8	77.2	W/NW



Appendix H

Waste Flow Table

C6593-13C
Subway-
Street
Tung
Lee
Station
Chai
Wan

Monthly Summary Waste Flow Table for 2016

Name of Emp			Month		Jan	Feb	Mar	Apr	May	ηυΓ	Jul	Aug	Sep	Oct	Nov	Dec	Total
oyer: MTR Cc		Total	Quantity Generated	(in m³)	0.01559	0.007	0.03685	0.03399	0.09171								0.18514
Inporation Limi		Broken	Concrete	(in m³)	0	0	0	0	0								0
ited	Ā	Building	Debris	(in m³)	0	0	0	0	0								0
	vctual Quantiti€	Mixed Rock	& Soil	(in m³)	0	0	0	0	0								0
	es of Inert C&L	Bentonite		(in m³)	0	0	0	0	0								0
	Materials Gei	Rubbish		(in m³)	0	0	0	0	0								0
	nerated Month.	Slurry		(in m³)	0	0	0	0	0								0
	Ŋ	Rock		(in m³)	0	0	0	0	0								0
		Soil		(in m³)	0.01559	0	0.03685	0.03399	0.09171								0.17814
		Reused in	this Project	(in m³)	0	0	0	0	0								0
	Actual Qua	Metals		(in m³)	0	0	0	0	0								0
	intities of Non-I	Paper/	cardboard packaging	(in m³)	0	0	0	0	0		-						0
	Inert C&D Was	Plastics		(in m ³) (0	0	0	0	0								0
	stes Generated	Chemical	Waste	(in m3/ Litre)	0	0	0	0	0								0
	d Monthly	Others, e.g.	general refuse	(in m³)	0.001	0.007	0.001	0.001	0.001								0.011
Contract No.: C	Actual Quar	Metals		(in ton)	0	0	0	0	0								0
C65931-13C	ntities of Non-	Paper/	cardboard packaging	(in ton)	0	0	0	0	0								0
	nert C&D Wa	Plastics		(in ton)	0	0	0	0	0								0
	tes Generated	Chemical	Waste	(in Litre)	0	0	0	1.2	0								1.2
	Monthly	Others, e.g.	general refuse	(in ton)	0	0	0	0	0								0



Appendix I

Implementation Schedule for Environmental Mitigation Measures (ISEMM)

Contract No. MTRC6593-13C – Wan Chai Station Lee Tung Street Subway 7th Quarterly Environmental Monitoring and Audit Summary Report – March 2016 to May 2016



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve			
NOISE IMI	NOISE IMPACT								
S.5.1.1	Use of quieter plant	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control Ordinance			
S.5.1.1	 Use of noise enclosure and movable barrier movable barrier can achieve a 5 dB(A) reduction for movable PME and 10 dB(A) reduction for stationary PME; noise enclosure can achieve 15dB(A) reduction for PME; noise enclosure is proposed to be built after open excavation in order to minimize the noise impact due to further excavation work and construction of subway. The enclosure should either be provided with acoustic door for access purpose which should be kept closed during the construction works or should be designed with no direct line of sight from the open side to the NSRs; A typical design barrier with a steel frame of vertical / cantilever type would be adopted and located close to the noise generating part of PME; 	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93, Noise Control Ordinance and EIAO Guidance Note NO. 9/2010			
	 achieve the maximum screening effect (and minimum 10kg/m² for noise enclosure); The length of barrier should generally be at least five times greater than its height and the minimum height of a barrier should be such that no part of the noise source will be visible from the noise sensitive receiver being protected. 								
S.5.1.1	 General Construction Noise Control Measures The Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD shall be adopted; The statutory and non-statutory requirements and guidelines shall be complied with; Approval for the method of working, equipment and noise mitigation measures intended to be used at the site shall be granted from the Project Engineer before commencing any work; 	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control Ordinance			

Contract No. MTRC6593-13C – Wan Chai Station Lee Tung Street Subway 7th Quarterly Environmental Monitoring and Audit Summary Report – March 2016 to May 2016



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve		
	• Working methods to minimize the noise impact on the surrounding NSRs shall be formulated and executed, and the implementation of these methods shall be monitored by experienced personnel with suitable training;							
	• Noisy equipment and noisy activities shall be located as far away from the NSRs as is practical;							
	• Unused equipment shall be turned off;							
	 PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided; 							
	• All plant and equipment shall be maintained regularly; and							
	• Material stockpiles and other structures shall be effectively utilized as noise barriers, whenever practicable.							
AIR QUAL	AIR QUALITY IMPACT							
S.5.1.2	Construction Dust Control Measures	To minimize the dust	Contractor	Work site	Construction	Air Pollution		
	• Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather;	the construction works			Stage	(Construction Dust) Regulation		
	• Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers;					6		
	• Covering of stockpile of excavated dusty materials, if any, with impervious sheeting or spraying with water to maintain the entire surface wet;							
	• Provision of vehicle washing facilities at the entry and exit points of site;							
	• Tarpaulin covering of any dusty materials being transported to and from site by vehicle;							
	• Positioning of construction plant at maximum practicable distance from air sensitive receivers; and							
	• Due to the small size of the works sites and lack of space for stockpiling, excavated materials should be hauled off-site almost immediately. However, in the event of any stockpiled excavated materials, they should be covered with tarpaulin and be removed offsite as soon as practicable to avoid any dust nuisance arising							

Contract No. MTRC6593-13C – Wan Chai Station Lee Tung Street Subway 7th Quarterly Environmental Monitoring and Audit Summary Report – March 2016 to May 2016



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve		
WATER Q	WATER QUALITY IMPACT							
S.5.1.3	Construction Water Quality Impact Measures	To reduce water	Contractor	Work site	Construction	ProPECC PN1/94;		
	• Collection of wastewater into a sedimentation tank for treatment before discharge into the public drainage system;	quality impact induced by the construction work			Stage	Water Pollution Control Ordinance		
	• Provision of silt trap and oil interceptor to remove the oil, lubricants, grease, silt, grit and debris from the wastewater prior to discharge to the public stormwater system. The silt traps and oil interceptors should be cleaned and maintained regularly;							
	• Installation of wheel washing facilities to minimize muddy runoff;							
	• Regular maintenance and inspection of drainage systems and erosion control and silt removal facilities;							
	• Management and monitoring of sewage treatment facilities (if any);							
	• Any foul effluent should not be discharged into any public sewer and stormwater drain, unless an effluent discharge permit is obtained under the WPCO by the Contractor;							
	• Coverage of stockpiles of C&D materials (if any) during rainstorms; and							
	• Site toilet facilities, if needed, should be chemical toilets or should have the sewage discharge directed to a foul sewer.							
WASTE M					I			
S.5.1.4	Construction Waste Management Measures	To adopt waste management measures in the way of avoiding, minimizing, reusing and recycling so as to reduce waste generation	Contractor V	Work site	Construction	Waste Disposal Ordinance (Cap. 354); Waste Disposal (Chemical Waste) (General) Regulation; DEVB TCW No. 6/2010; ETWB TCW No. 19/2005.		
	• Scrap metals or abandoned equipment should be recycled if possible;				Stage			
	• Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner;		of avoiding, minimizing, reusing					
	• The Contractor should adopt a trip ticket system for the disposal of C&D materials to any designated public filling facility and/or landfill. Independent audits of the Contractor and resident site staff will be undertaken to ensure that the correct procedures are being followed;		to					
	• Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes; and							



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
	• All general refuse should be segregated and stored in enclosed bins or compaction units and waste separation facilities for paper, aluminum cans, plastic bottles etc. should be provided to facilitate reuse or recycling of materials and their proper disposal.					
LANDSCA	PE AND VISUAL IMPACT					
S.5.1.5	 Landscape and Visual Measures Clear demarcation of works area to prevent damages to existing trees in close proximity; 	To reduce landscape and visual impact by construction works.	Contractor	Work Site and nearby playground	Construction Stage	EIAO; ETWB TCW No. 3/2006.
	• Protection of all trees planned to be retained onsite;					
	• Preserving all affected trees by transplanting where practical. Tree transplanting application and tree removal application shall be submitted for approval in accordance with ETWB TCW 3/2006; and					
	• Screening of construction works by hoardings/noise barriers around Works area in visually unobtrusive colours.					