

AUES PROJECT NO. TCS/00704/14

CONTRACT NO. MTRC6593-13C – WAN CHAI STATION LEE TUNG STREET SUBWAY

 8^{TH} Quarterly Environmental Monitoring and Audit (EM&A) Summary Report – June 2016 to August 2016

PREPARED FOR KADEN CONSTRUCTION LIMITED

Quality Index

Date	Reference No.	Prepared By	Approved By
20 October 2016	TCS00704/14/600/R0116v2	HAD	Jan.
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Version	Date	Description	
1	17 October 2016	First Submission	
2	20 October 2016	Amended against IEC's comment	
		<u> </u>	



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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

24 October 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 (June 2016 to August 2016) (Report No.: TCS00704/14/600/R0116v2)

We refer to the 8th Quarterly EM&A Report (June 2016 to August 2016) received under cover of the email from the Environmental Team, AUES, dated on 18 October 2016.

Further to our comments provided on 18 October 2016 and subsequent revision of the Report by AUES on 20 October 2016, we have no further comment and have verified the captioned report (Report No.: TCS00704/14/600/R0116v2).

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

Yours faithfully

AECOM Consulting Services Ltd

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 8th 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 June 2016 to 31 August 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.

Environmental Environmental Monitoring		Number of	g Period
Aspect	Parameters / Inspection	Monitoring Locations to undertake	Total Occasions
Air Quality	24-hour TSP	1	16
Construction Noise	L _{eq(30min)} Daytime	2	26
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.

Environmental	Manitanina	Action Limit		Event & Action		
Environmental Aspect	Monitoring Parameters	Level	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.



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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 8th Quarterly EM&A Summary Report presenting the monitoring results and inspection findings in the Reporting Period from 1 June 2016 to 31 August 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



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.

Resident Engineer (RE)

- 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

- 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

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

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

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
4.2	Internet website	Live

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 Producers Number		
3	Water Pollution Control Ordinance - Discharge License	Approved on 14/05/2014 License no.: WT00019539-2014 Approved on 16/07/2014 Valid to: 31/07/2019	
4	Waste Disposal Regulation - Billing Account for Disposal of Construction Waste	Account no.: 7019837 Approved on 30/04/2014	



Item	Description	License/Permit Status
	Construction Noise Permit under Noise Control	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 GW-RS0530-16 obtained on 3 June 2016 Valid from 11 June 2016 to 10 Dec
		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*.

June 2016

- Construction of main beam and traffic deck, resinstatement 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

July 2016

- Excavation at Children Playground, Eastbound Fast Lane and Westbound Slow Lane
- Excavation and pre-grouting at Trams Track Decking
- Floor screeding and Blockworks for store room and LV room at ABWF at LTS Subway
- AFC Audit room ABWF works at WAC station.

August 2016

- Excavation at Children Playground, Eastbound Fast Lane and Westbound Slow Lane
- Excavation and pre-grouting at Trams Track Decking
- Anchor rod for false ceiling at Grid B to E and Blockworks for store room and LV room at ABWF at LTS Subway
- AFC Audit room ABWF works 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:

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*.

Table 3-2 Air and Noise Monitoring Locations

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

MONITORING FREQUENCY AND PERIOD

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

Air Quality

- 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.

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



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*.

Table 3-3 Air Quality Monitoring Equipment

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				
	TSI Model 8520 DustTrak Aerosol Monitor / Aerocet 531			
Portable Dust Meter	Handheld Particle Mass Profiler & Counter / Sibata LD-3A			
	Laser Dust Monitor			

- 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 3-4 Construction Noise Monitoring Equipment

Equipment	Model				
Integrating Sound Level Meter	B&K Type 2238 / Rion NL-14 / Rion NL-52				
Calibrator	Rion NC-73 / B&K Type 4231/ Cesva CB-5 /Quest QC-20				
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 Quality Monitoring

Manitaring Station	Action Level (μg /m³)		Limit Level (μg/m³)		
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
A1	290	162	500	260	

Table 3-6 Action and Limit Levels for Construction Noise

Manitaring 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

Data	A1 - Ba	lcony at 1/F of Chiu Hin	Mansion				
Date	24-hour TSP (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)				
2-Jun-16	21						
8-Jun-16	27						
14-Jun-16	24						
20-Jun-16	26						
25-Jun-16	25						
30-Jun-16	18		260				
7-Jul-16*	97						
12-Jul-16	27	162					
18-Jul-16	18	102					
23-Jul-16	20						
29-Jul-16	43						
4-Aug-16	43						
10-Aug-16	44						
16-Aug-16	26						
22-Aug-16	36						
27-Aug-16	50						
Average (Range)		34 (18 - 97)					

^{*} Rescheduled due to power failure on 6 July 2016

- 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 *30 June 2016* and maximum was measured on *7 July 2016*. Moreover, Average value in the Reporting Period is 34 μg/m³.
- 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 **26** 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*.

Table 5-1 Summary of Noise Monitoring Results

	$L_{eq30min}\left(dB(A)\right)$			
Magazzanant Data	N1	N2		
Measurement Date	2/F floor of Hennessey	Balcony at 1/F of Chiu		
	Building	Hin Mansion		
7-Jun-16	70	73		
14-Jun-16	68	69		
21-Jun-16	68	70		
28-Jun-16	71	72		
5-Jul-16	69	74		
15-Jul-16	71	72		
20-Jul-16	70	70		
26-Jul-16	70	72		
3-Aug-16	70	72		
9-Aug-16	74	70		
16-Aug-16	74	67		
23-Aug-16	68	71		
30-Aug-16	71	68		
Limit Level of Construction Noise	75 d	B(A)		

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 Waste		Quantity	Disposal	
Type of waste	June 16	Jul 16	Aug 16	Location
Total C&D Materials (Inert) (m ³)	0.90981	0.36411	0.12377	-
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)	0.90981	0.36411	0.12377	TKO 137

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

Type of Wests		Quantity	Disposal	
Type of Waste	June 16	Jul 16	Aug 16	Location
Recycled Metal (m ³)	0	0	0	-
Recycled Paper / Cardboard Packing (m³)	0	0	0	-
Recycled Plastic (m ³)	0	0	0	-
Chemical Wastes (m³/L)	0	0	0	-
General Refuses (m ³)	0.001	0.02	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 June 2016, **five (5)** occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on **1, 8, 15, 22 and 29 June 2016** and the IEC was joined the site inspection on **15 June 2016**. No non-compliance was noted. However, five (5) observations and two (2) reminders were recorded by the ET.
- 7.03 During July 2016, **four** (4) occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on 6, 15, 20 and 27 July 2016 and the IEC was joined the site inspection on 20 July 2016. No non-compliance was noted. However, two (2) observations and two (2) reminders were recorded by the ET
- 7.04 During August 2016, **four (4)** occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on **3, 10, 18 and 25 August 2016** and the IEC was joined the site inspection on **25 August 2016**. No non-compliance was noted. However, two (2) observations and two (2) reminders were recorded by the ET.
- 7.05 The detailed findings / deficiencies and follow-up in the Reporting Period listed in *Table 7-1*.

Table 7-1 Site Observations

Date	Findings / Deficiencies	Follow-Up Status
1 June 2016	Sedimentation tank was observed without connecting AquaSed. The Contractor was advised to treat the waste water through AquaSed before discharge.	To be followed.
8 June 2016	The Contractor was advised to provide proper tree protection zone for retained trees.	• Proper fencing was provided for retained trees.
15 June 2016	• The Contractor was reminded to provide sandbags on site boundary to avoid surface run-off out of site.	• Not required for reminder
22 June 2016	• Chemical containers were observed on the ground. The Contractor was advised to place chemical containers inside drip tray to avoid leakage.	Chemical containers were removed from site. Last observation closed.
29 June 2016	Surface run-off from site was observed. The Contractor was advised to provide sandbags to avoid run-off out of site boundary.	• Sandbags was provided on-site to avoid surface run-off.
	Grout mixer without proper mitigation measure was observed. The Contractor was advised to provide a proper grout mixer station on site.	Proper grout mixer station was provided. Last observation closed.
	• The Contractor was reminded to clear the construction materials from tree protection zone.	Not required for reminder



Date	Findings / Deficiencies	Follow-Up Status
06 July 2016	• Sedimentation tank was observed without connecting AquaSed. The contractor was advised to treat the waste water through AquaSed before discharge.	To be followed.
15 July 2016	• Stagnant water was observed in the drip tray under air compressor. The contractor was advised to clean the stagnant water.	Stagnant water was cleared.
20 July 2016	• The contractor was reminded to maintain the grout mixer station regularly.	• Not required for reminder.
27 July 2016	• The contractor was reminded to dispose empty cement bags inside rubbish bin.	• Not required for reminder.
3 August 2016	Water barrier without sealing was observed. The contractor was advised to provide proper sealing on the water barrier.	Water barrier was sealed with tarpaulin sheets.
10 August 2016	No adverse environmental issue was observed.	• Nil
18 August 2016	No adverse environmental issue was observed.	• Nil
25 August 2016	 Grout mixer station was observed without proper covering. The contractor was advised to provide proper grout mixer station on-site. The contractor was reminded to maintain the AquaSed. The contractor was reminded to dispose construction waste regularly. 	 To be follow-up in next reporting period. Not required for reminder.
	construction waste regularly.	• Not required for reminder.

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



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	Frequency Cumulative		Complaint Nature			
		Cumulative	Air	Noise	Water	Others
1–30 June 2016	0	0	NA	NA	NA	NA
1–31 July 2016	0	0	NA	NA	NA	NA
1–31 August 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
1–30 June 2016	0	0	NA	NA	NA	NA
1–31 July 2016	0	0	NA	NA	NA	NA
1–31 August 2016	0	0	NA	NA	NA	NA

Table 8-3 Statistical Summary of Environmental Prosecution

		Environmental Prosecution Statistics													
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others									
1–30 June 2016	0	0	NA	NA	NA	NA									
1–31 July 2016	0	0	NA	NA	NA	NA									
1–31 August 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 9-1 Summary 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;
	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. 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. Wastewater were appropriately treated by treatment facilities; Drainage channels were provided to convey run-off into the treatment facilities; and Drainage systems were regularly and adequately maintained. d 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. 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 u
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 systems were regularly and adequately maintained.
Waste and Chemical Management	off-site disposal. Scrap metals or abandoned equipment should be recycled if
Landscape and Visual	1 0
	 Protection of all trees planned to be retained onsite;
	transplanting application and tree removal application shall be submitted for
General	The site was generally kept tidy and clean.
U	

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 8th Quarterly EM&A Summary Report presenting the monitoring results and inspection findings in the Reporting Period from 1 June 2016 to 31 August 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 **26** 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 15 June 2016, 20 July 2016 and 25 August 2016. In the Reporting Period, no non-compliance was noted and total nine (9) 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.

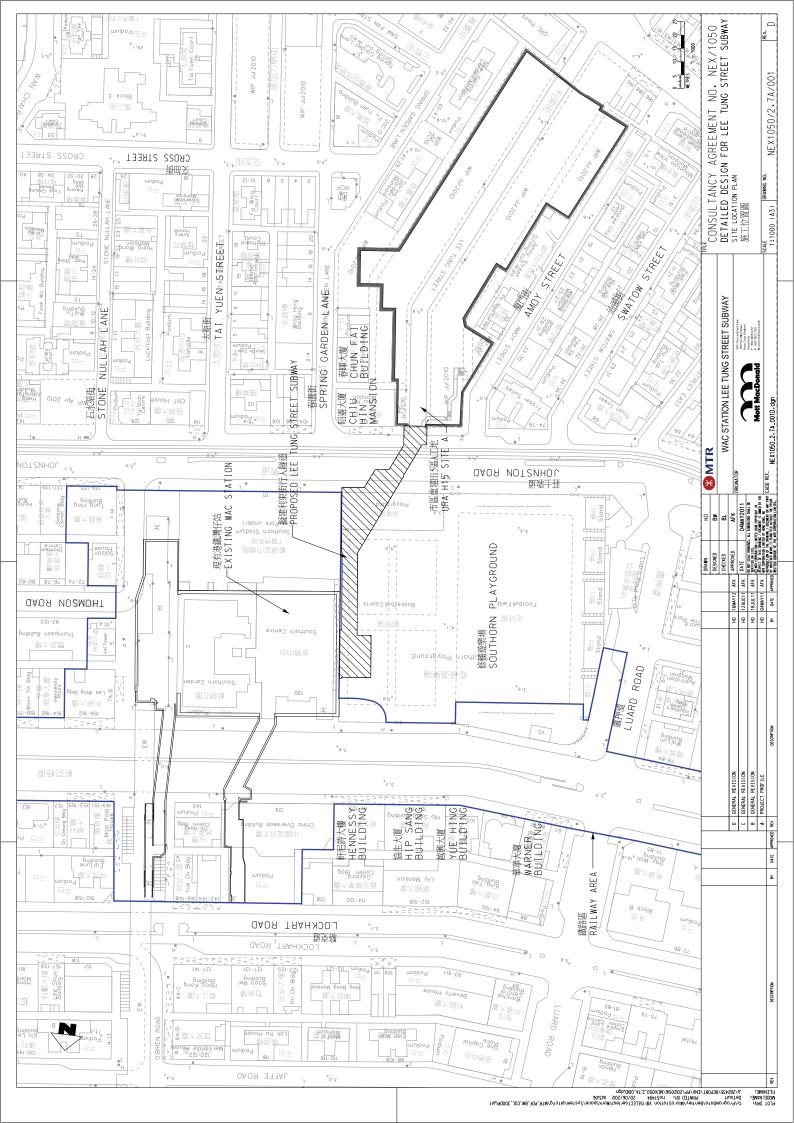
RECOMMENDATIONS

- 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

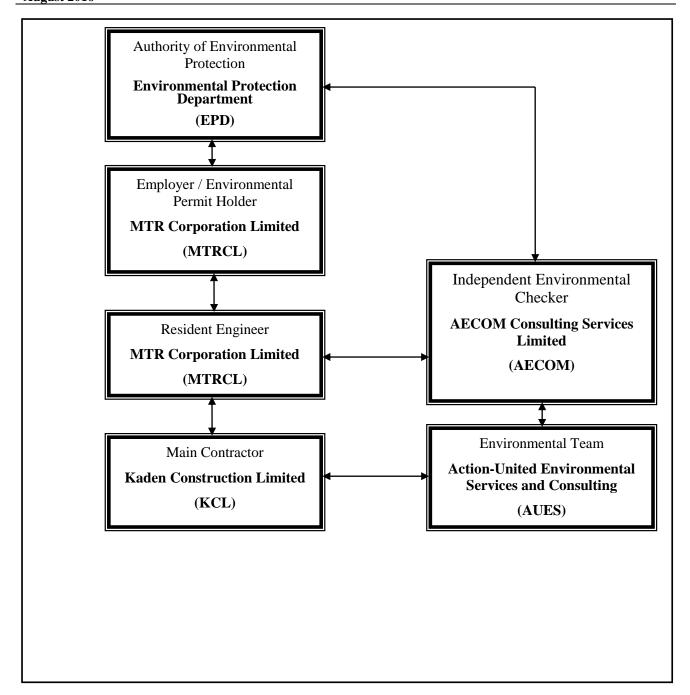




Appendix B

Organization of the Project







Contact Details of Key Personnel for 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

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

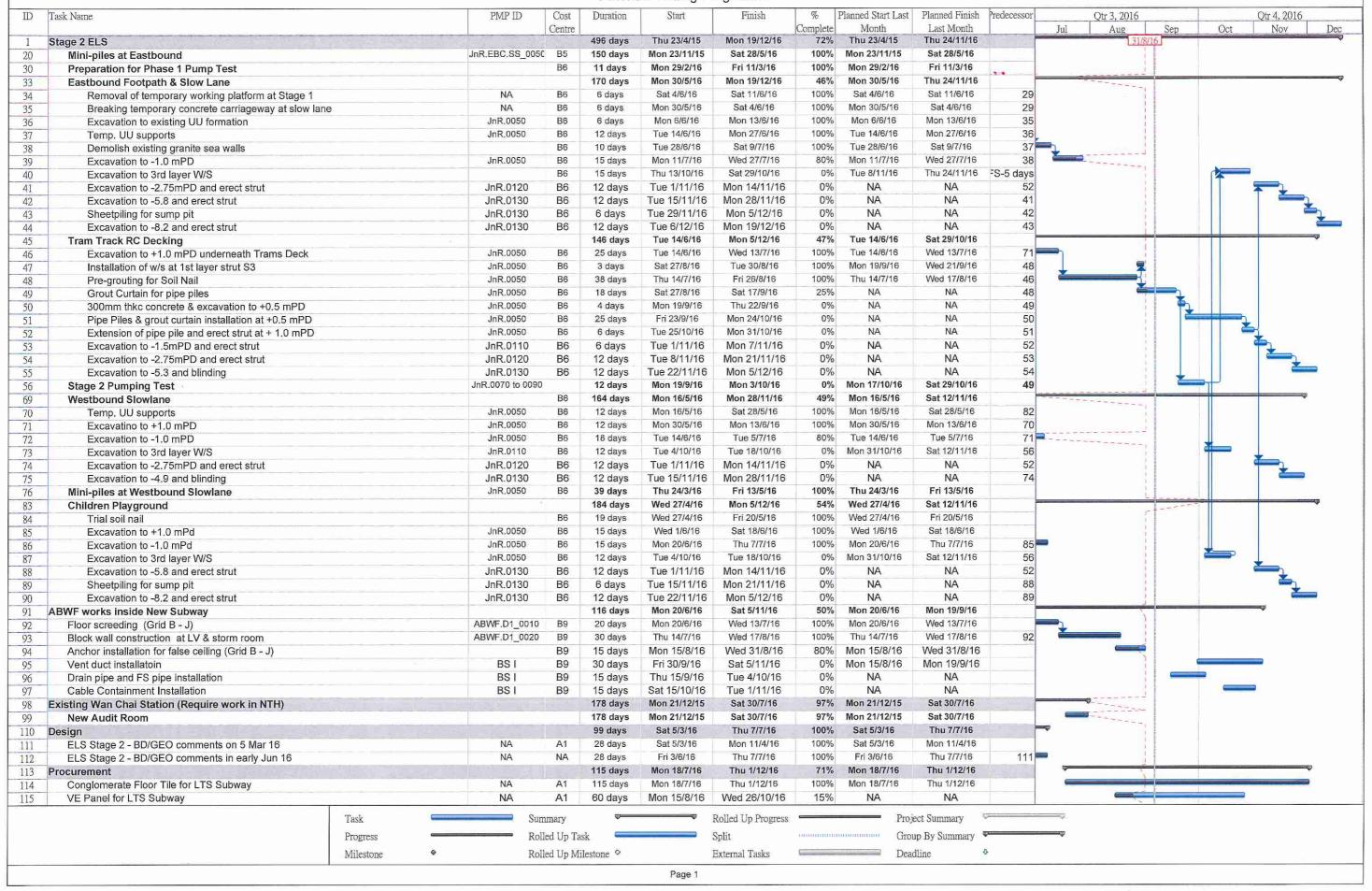


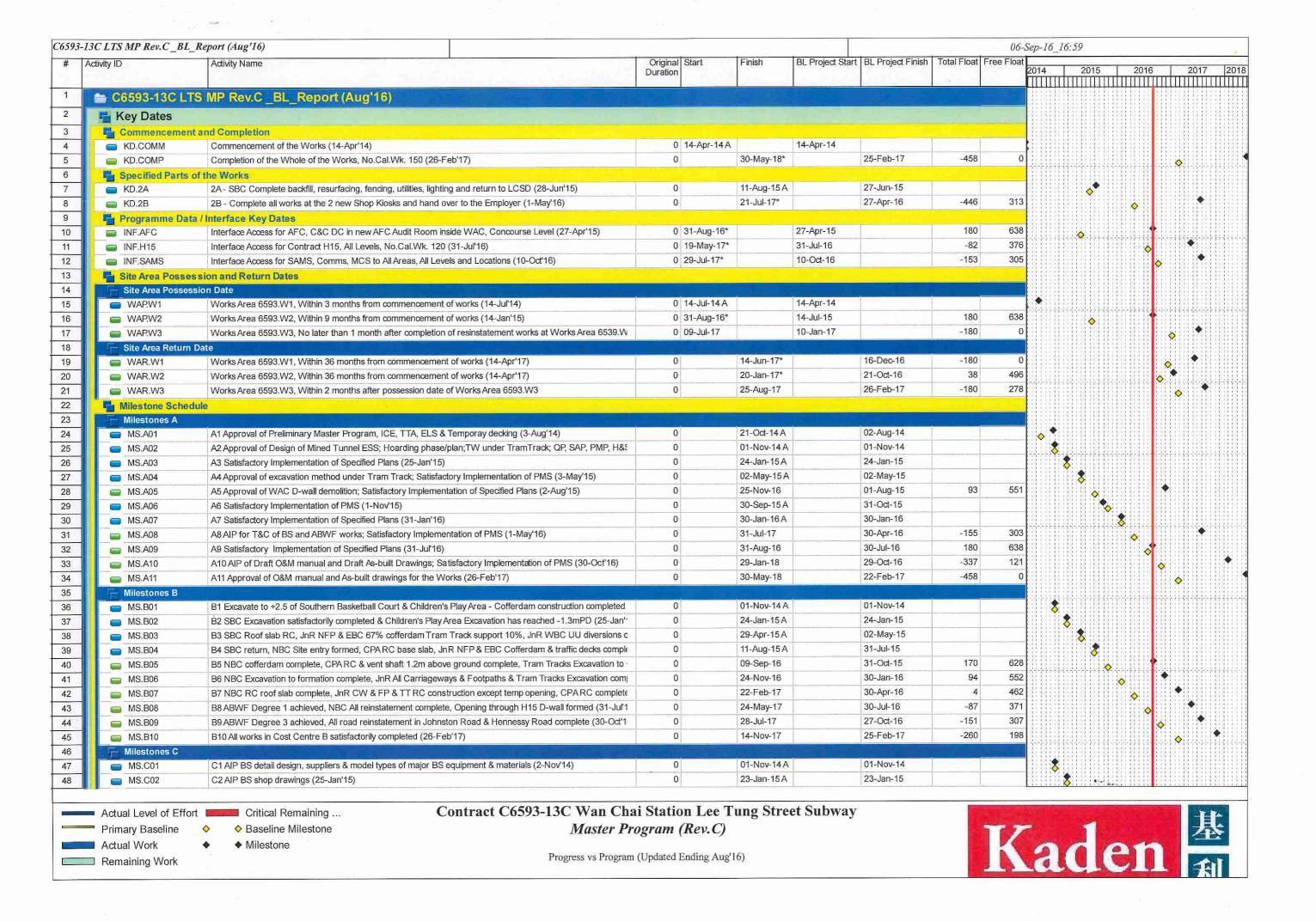
Appendix C

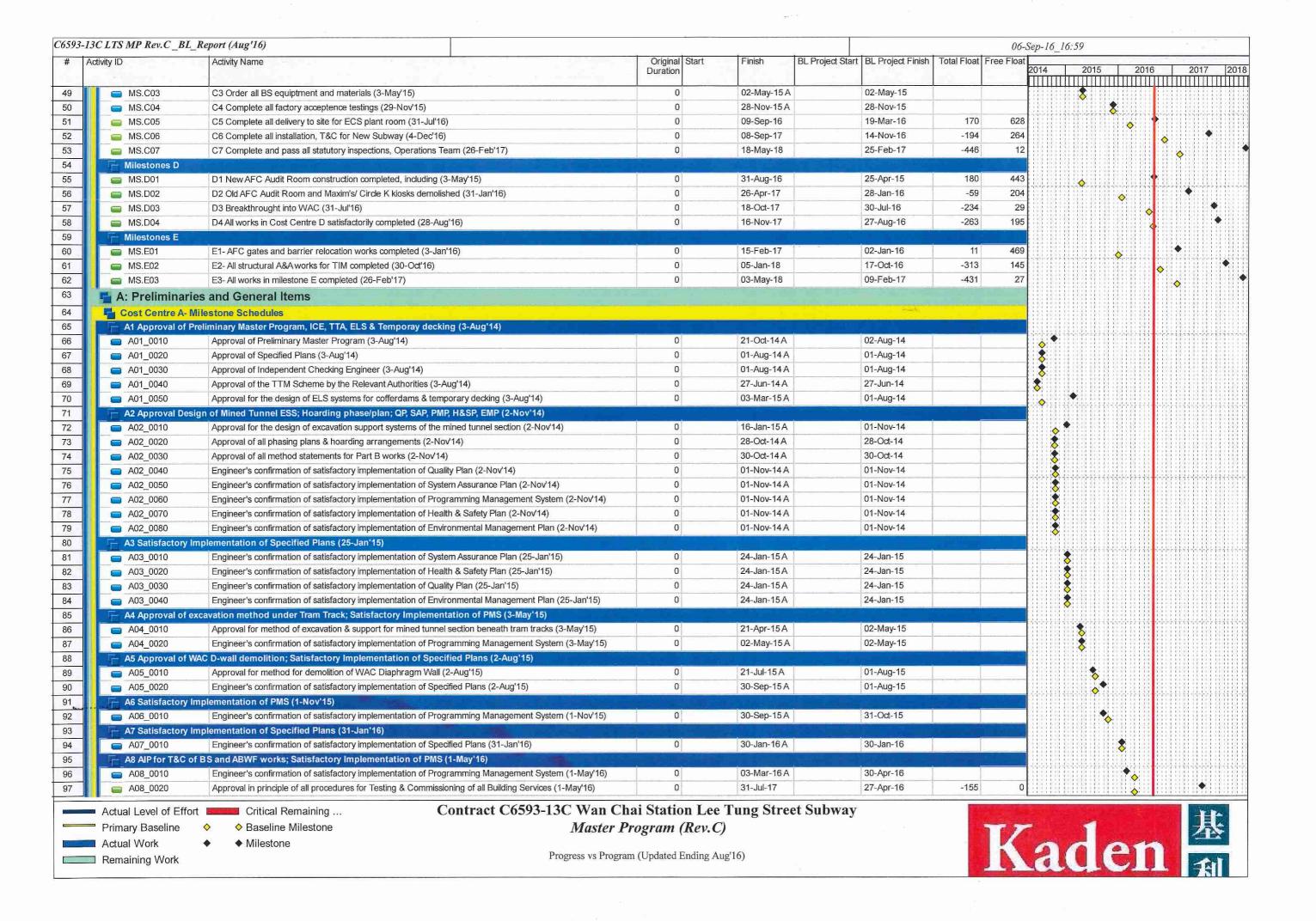
Master Construction Programme

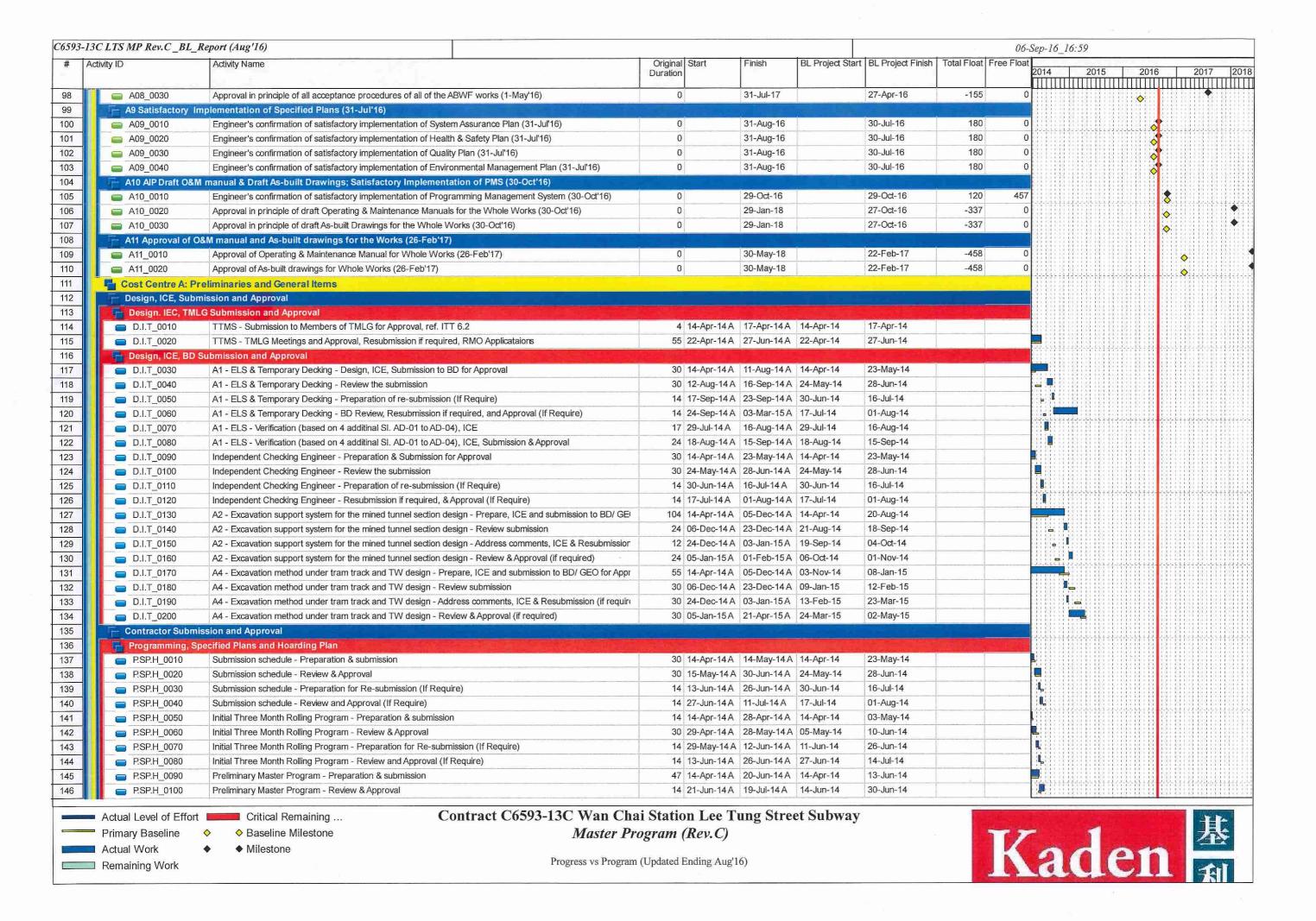
End Aug 2016

MTR Contract C6593-13C Wan Chai Statoin Lee Tung Street Subway 3 Months Rolling Programme









tivity ID	Activity Name	Original		Finish	BL Project Sta	art BL Project Finish	Total Float Free	Float	2 1	0015		<u>. 1</u>	0047
		Duration		ω 0				2014		2015	2016		2017
P.SP.H_01	10 Preliminary Master Program - Preparation for Re-submission (If Require)	14	16-Sep-14 A	30-Sep-14 A	02-Jul-14	17-Jul-14							
= P.SP.H 01		14	30-Sep-14 A	22-Oct-14 A	18-Jul-14	02-Aug-14		-					
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P.SP.H 01		14	24-May-14 A	10-Jun-14 A	24-May-14	10-Jun-14		L					
= P.SP.H_01		14	11-Jun-14 A	26-Jun-14 A	11-Jun-14	26-Jun-14		9					
= P.SP.H 01		30	24-Jun-14 A	01-Aug-14 A	27-Jun-14	01-Aug-14							
P.SP.H_01		30	14-Apr-14 A	14-May-14 A	14-Apr-14	23-May-14		1					
= P.SP.H 01		30	15-May-14 A	12-Jun-14 A	24-May-14	28-Jun-14				13113111			
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P.SP.H_03				26-Jun-14 A		16-Jul-14			11111111			131111	
P.SP.H_03				11-Jul-14 A		01-Aug-14							
P.SP.H_03				14-May-14 A		23-May-14							
P.SP.H_03				12-Jun-14 A		28-Jun-14							
P.SP.H_03				26-Jun-14 A		16-Jul-14					-1-1-1-1-1-1	+	
P.SP.H_03				11-Jul-14 A	1000 0000 00	01-Aug-14					HHH		
P.SP.H_03				30-Apr-14 A		15-Aug-14							
■ P.SP.H_03				30-Apr-14 A		13-Sep-14							
P.SP.H_03			•	14-Jun-14 A		27-Sep-14			7				
P.SP.H_03					-	28-Oct-14						4-0-1-0	1 - 1 - 1 - 1 - 1
■ P.SP.H_04		24	16-Jun-14 A	28-Jun-14 A	29-5ер-14	26-Oct-14							
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SP.A09_0	A9 Satisfactory Implementation of System Assurance Plan	0	1	31-Aug-16*		30-Jul-16	-31	0	12 1 1 1 1	1111111	111111111	X HILL	1111111

Actual Level of Effort Critical Remaining .

Remaining Work

Contract C6593-13C Wan Chai Station Lee Tung Street Subway Master Program (Rev.C)

Progress vs Program (Updated Ending Aug'16)

Baseline Milestone Primary Baseline Milestone Actual Work



Activity ID	Activity Name	Original	Start	Finish	BL Project Star	t BL Project Finish	Total Float Free	Float 2014	20	15 20	16 2017
		Duration									16 2017
SP.A09_0030	A9 Satisfactory Implementation of Health and Safety Plan	0		31-Aug-16*		30-Jul-16	-31	0			♂
SP.A09_0040	A9 Satisfactory Implementation of Environmental Management Plan	Ó		31-Aug-16*		30-Jul-16	-31	0			₫
Implementation of	of Programming Management System		1.2.00	WE TO BE							8 13 13 13 13 13 13 13 1
PMS.A02_0010	A2 Satisfactory Implementation of Programming Management System	0		01-Nov-14 A		01-Nov-14			8		
■ PMS.A04_0010	A4 Satisfactory Implementation of Programming Management System	0		02-May-15 A		02-May-15			8		
PMS.A06_0010	A6 Satisfactory Implementation of Programming Management System	0		28-Aug-15 A		31-Oct-15				*	
PMS.A08_0010	A8 Satisfactory Implementation of Programming Management System	0		03-Mar-16 A		30-Apr-16				•	
■ PMS.A10_0010	A10 Satisfactory Implementation of Programming Management System	0		29-Oct-16*		29-Oct-16	0	0			8
Other Submission	ns and O&M Manual						old Henrich				
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-May-14 A	14-Apr-14	23-May-14					
OS.OM_0060	Site Investigation Works Method Statement - Review & Approval	12	24-May-14 A	07-Jun-14 A	24-May-14	07-Jun-14					
OS.OM_0070	Site Investigation Works Method Statement - Preparation for Re-submission (if required)	12	09-Jun-14 A	21-Jun-14 A	09-Jun-14	21-Jun-14		1			
OS.OM_0080	Site Investigation Works Method Statement - Re-submission (if required) & Approval	12	23-Jun-14 A	07-Jul-14 A	23-Jun-14	07-Jul-14					
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	08-May-15 A	23-Feb-15	08-May-15					
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-Aug-16	28-Sep-16			-212	0			8 7 888888
■ OS.OM_0122	H15 D-wall demolition- Review & Approval	24	29-Sep-16	28-Oct-16			-212	0			
■ OS.OM_0123	H15 D-wall demolition- Preparation for re-submission (If require)	12	29-Oct-16	11-Nov-16			-212	0			
■ OS.OM_0124	H15 D-wall demolition- Review & Approval (If require)	12	12-Nov-16	25-Nov-16			-212	0			
OS.OM_0130	A8 AIP procedures for T&C of BS and ABWF works (1st Batch)	90	31-Aug-16	16-Dec-16	01-Jun-15	15-Sep-15	-370	0			
OS.OM_0140	A8 AIP procedures for T&C of BS and ABWF works (2nd Batch)	90	17-Dec-16	08-Apr-17	16-Sep-15	05-Jan-16	-370	0			
■ OS.OM_0150	A8 AIP procedures for T&C of BS and ABWF works (Remaining)	90	10-Apr-17	31-Jul-17	06-Jan-16	27-Apr-16	-370	0			
OS.OM_0160	A10 AIP of Draft O&M manual and Draft As-built Drawings	150	01-Aug-17	29-Jan-18	28-Apr-16	27-Oct-16	-370	0			
OS.OM_0170	A11 Approval of O&M manual and As-built drawings for the Works	95	30-Jan-18	30-May-18	28-Oct-16	22-Feb-17	-370	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-15 A	17-Sep-14	30-Sep-14			4 : I		
OS.OM_0200	RC Works - Preparation for Re-submission (if required)	12	10-Feb-15 A	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			ia III		
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 pile installation- Preparation of Method Statement- Submission & Approval	12	03-Jul-14 A	08-Jul-14 A	09-Jun-14	21-Jun-14		Į.			
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			21-Oct-14 A		21-Jun-14					
OS.OM_0280	Excavation works- Preparation for Re-submission (if required)			21-Oct-14 A	11 - 11 - 11	07-Jul-14		, b			
OS.OM_0290	Excavation works- Re-submission (if required) & Approval			21-Oct-14 A		21-Jul-14			4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
OS.OM_0300	Work below tram track Method Statement - Preparation			23-Mar-15 A	The second second	16-Sep-14					
OS.OM_0310	Work below tram track Method Statement - Submission & Approval			09-Apr-15 A		30-Sep-14			. 0		
OS.OM_0320	Work below tram track Method Statement - Preparation for Re-submission (if required)			27-Apr-15 A	 	16-Oct-14			_ D		
OS.OM_0330	Work below tram track Method Statement - Re-submission (if required) & Approval			10-Jun-15 A		30-Oct-14					
OS.OM_0340	H15 & WAC Break Through Method Statement - Preparation			20-Jul-15 A		16-Sep-14					
OS.OM_0350	H15 & WAC Break Through Method Statement - Submission & Approval			21-Jul-15 A		30-Sep-14					
OS.OM_0360	H15 & WAC Break Through Method Statement - Preparation for Re-submission (if required)			21-Jul-15 A		16-Oct-14					
											to the fact that the
Actual Level of Effort				ung Stree	et Subway	7					1 多元
Primary Baseline		ter Program	(Kev.C)					1		- Water 1	
Actual Work	♦ Milestone		n							0	
Remaining Work	Progress vs I	Program (Updated	Ending Aug'	10)		2'h e	10° 10' 68'	I A VINCE		10 may 2	

3	IS MP Rev.C_BL_K		Original	Start	Finish	BL Project Sta	art BL Project Finish	Total Float Fre	06-Sep					
Activity I	ID	Activity Name	Duration		1 RIGH	BET TOJECT OIL	DET TOJOGET III.O.T	Tottar Total	20		2015		16	2017
			10	04 1145 4	04 1 1 45 4	47.0-1.44	20.04.14		$ \mu$	ЩЩ	ЩЦ	ШШШ		шшш
	OS.OM_0370	H15 & WAC Break Through Method Statement - Re-submission (if required) & Approval	100	21-Jul-15 A	Total Salar Salar		30-Oct-14	242						4444
1	OS.OM_0380	BD for consent of H15 break throughs works - Preparation		03-Aug-15 A	100000 1000000 10000	03-Aug-15	18-Nov-15	-212	- 0					
 	OS.OM_0390	BD for consent of H15 break throughs works - Submission & Approval		10-Dec-16	10-Jan-17	19-Nov-15	30-Jan-16	-212	- 0	1111111		7		
	OS.OM_0400	BD for consent of H15 break throughs works - Preparation for Re-submission (if required)		11-Jan-17	24-Jan-17	01-Feb-16	09-Mar-16	-212	0			1		
	OS.OM_0410	BD for consent of H15 break throughs works - Re-submission (if required) & Approval	12	25-Jan-17	10-Feb-17	10-Mar-16	12-May-16	-212	13					
1	OS.OM_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-Jan-15						2 2 2 2 2 2 2 2 2 2 2 2	
	Mobilization and C	Other Preliminaries			Hereite									
	Permit Applicatio									1111111		11111111111		
	PA_0010	XP Excavtion Permit Application and Permit	70	14-Apr-14 A	10-Jun-14 A	14-Apr-14	11-Jul-14			•				
	■ PA_0020	TRA Tree Removal Application and Permit	- 6	14-Арг-14 А	15-Jul-14 A	14-Apr-14	23-Apr-14		60.0					
	■ PA_0030	Liason with all utility service providers on diversions	42	14-Apr-14 A	11-Jul-14 A	14-Apr-14	07-Jun-14							
	PA 0040	Baseline noise monitoring report - Preparation & submission to Engineer and EPD	30	23-Jun-14 A	28-Jun-14 A	14-Apr-14	23-May-14		<u>_</u> 1					
	PA_0050	Baseline noise monitoring report - Review & Approval	30	30-Jun-14 A	09-Jul-14 A	24-May-14	28-Jun-14				HHH	HIHIEL		
		Baseline noise monitoring report - Preparation for Re-submission (If Require)		23-Jun-14 A			16-Jul-14		T i					
	PA_0060	Baseline noise monitoring report - Preparation for Re-submission (if Require)		30-Jun-14 A			01-Aug-14							
	PA_0070	• • • • • • • • • • • • • • • • • • • •		23-Jun-14 A	2.04, 9.20, 9.20, 9.		23-May-14							
	PA_0080	Baseline air monitoring report - Preparation & submission to Engineer and EPD		30-Jun-14 A			28-Jun-14					HHHHH		
	PA_0090	Baseline air monitoring report - Review & Approval		10-Jul-14 A			16-Jul-14			1				
	PA_0100	Baseline air monitoring report - Preparation for Re-submission (If Require)		A STATE OF THE STA	00 ANAEST VANCOUNT									
	■ PA_0110	Baseline air monitoring report - Review and Approval (If Require)	14	10-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14				811111			
	B: Civil, Struct	tural and ABWF Works for the New Subway (Part A Works)												
Part .	Cost Centre B- Mi	ilestone Schedules										1111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		.5 of SBC & Children's Play Area Cofferdam completed (2-Nov'14)				<u> </u>					1531111			
	MSB01 01	Southern Basket Ball Court: excavate to +2.5mPD (2-Nov'14)	0		01-Nov-14 A	6	01-Nov-14			\$				
-	MSB01 02	Children's Play Area - Cofferdam construction is completed (2-Nov'14)	0		25-Oct-14 A		25-Oct-14			8	1111111			
	The state of the s	n complete & Children's Play Area Excavation to -1.3mPD (25-Jan'15)												
	MSB02 01	Southern Basket Ball Court: Excavation is satisfactorily completed (25-Jan'15)	0	i e	16-Jan-15 A		24-Jan-15			*				
	MSB02_01	Children's Play Area: Excavation has reached -1.3mPD (25-Jan'15)	0		24-Jan-15 A		24-Jan-15			×				
		JnR NFP & EBC 67% cofferdam, JnR WBC UU div complete (3-May'15)				-				ĭ				
		Southern Basket Ball Court: Roof slab construction has been satisfactorily completed (3-May'15)	0	1	28-Apr-15 A		02-May-15				•			
	MSB03_01				09-May-15 A		27-Apr-15				Š			
	MSB03_02	Johnston Road North Footpath and East-bound Carriageway: 67% of cofferdam installation complete (3-May			21-Mar-15 A		21-Mar-15				•			
	MSB03_03	Johnston Road West-bound Carriageway - All utility diversions, where required, satisfactorily completed (3-Ma	70				02-May-15	-		+####	•	4 - 1 - 1 - 1 - 1 + 1 + 7		
	MSB03_04	10% completed of tram track support (3-May 15)	0		29-Apr-15 A		02-Way-15				\Q			
	B4 SBC return, NE	3C Site entry, CPA base, JnR NFP & EBC Cofferdam & decks complete (2-Aug'15)					07 1 45							
6	MSB04_01	Southern Basket Ball Court: Playing surface has been returned to LCSD for use (2-Aug'15)	0)	11-Aug-15 A		27-Jun-15				\Q			
	MSB04_02	Northern Basket Ball Court: Site entry onto Hennessy Road has been formed (2-Aug'15)	0)	15-Aug-15 A		31-Jul-15				\Q			
F	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-Jul-15			1111111	\Q			
6	MSB04_04	JnR N-Footpath & E-Bound Carriageway: Cofferdam construction complete & all temp traffic decks installed (2 0		31-Aug-16		29-Jul-15	180	0		♦		1	
	B5 NBC cofferdan	n, CPA RC & vent shaft 1.2m above GL, Tram Tracks Excavation to +0.0mPD (1-Nov'15)												
6	MSB05_01	Northern Basket Ball Court: Satisfactorily complete construction of the cofferdam (1-Nov'15)	0)	18-Dec-16 A	F	30-Oct-15					♦		
	MSB05_02	Children's Play Area: RC construction complete include above ground vent shaft structures 1.2m above ground	וו 0)	09-Sep-16		31-Oct-15	170	0			♦		
	MSB05_03	Tram Tracks - Excavation to +0.0 mPD is satisfactorily completed (1-Nov15)	0)	31-Aug-16		24-Oct-15	180	10			♦	1	
		on to formation, JnR Excavation complete (31-Jan'16)												
	MSB06_01	Northern basket Ball Court - Excavation to final formation has been satisfactorily completed (31-Jan'16)	0		28-Dec-15 A		29-Jan-16					•		
	MSB06_01	Johnston Road All Carriageways, Footpaths & Tram Tracks: Excavation is completed (31-Jan'16)	0		24-Nov-16		30-Jan-16	94	0			Š	•	
		JnR CW & FP & TT RC construction exp temp opening, CPA RC complete (1-May'16)		1,140				THE REAL PROPERTY.				Y		
		Northern Basket Ball Court: RC construction of the roof slab has been completed (1-May'16)	0)	01-Apr-16 A		30-Apr-16					•		
	MSB07_01	Control of the Contro	1: 0)	22-Feb-17		30-Apr-16	4	0				1111111	siniti
	MSB07_02	JnR Carriageways, Footpaths & Tram Tracks: RC construction, except at temporary opening completed (1-No./16)		, \	18-Oct-16		28-Apr-16	131	127			· · · · · · · · · · · · · · · · · · ·	•	
	MSB07_03	Children's Play Area: RC Construction of above ground ventilation shaft structures is completed (1-May/16)	-		10-Ou-10		20-Apr-10	101	121			\Q		
	B8 ABWF Degree1	l achieved, NBC All reinstatement, Opening through H15 D-wall complete (31-Jul'16)				15.5.	V 12 7 7 2 20 20 1			1 1994 1994	eti ki ki			COSTES E
- Ac	ctual Level of Effort	Critical Remaining Contract C6593-13C Wan Cl	hai Stati	on Lee T	ung Stre	et Subwa	ıy		K			E BALL	Mary Mary	
— pr	imary Baseline	♦ Baseline Milestone Master I	Program	(Rev.C)					TT					25
	,		3	A STATE OF THE PARTY OF THE PAR					16	all and the	السر	4000	PpP4	Control (S)
	ctual Work	♦ Milestone									V 100	The second second	1	

ctivity ID	Activity Name	Original Start	Finish	BL Project Start	t BL Project Finish	Total Float Fr	ee Float	p-16_16:59		4
		Duration					20	014 2015		20
■ MSB08_01	ABWF to Degree 1 has been achieved for works in this cost centre (31-Jul'16)	0	24-May-17		28-Jul-16	-87	0		11111111111111	· · · · · · · · · · · · · · · · · · ·
■ MSB08_02	Northern Basket Ball Court - All re-surfacing works & playing surface reinstatement completed (31-Jul'16)	0	27-Oct-16		28-Jul-16	123	209		annin Ka	H
■ MSB08_03	H15 Interface: The opening through H15 diaphragm wall has been formed (31-Jul'16)	0	19-May-17		30-Jul-16	-82	5			•
Carlotte Control Control	3 achieved, All road reinstatement in JnR & Hennessy Rd complete (30-Oct'16)	THE RESERVE		-						
■ MSB09_01	ABWF to Degree 3 has been achieved for works in this cost centre (30-Oct'16)	0	28-Jul-17		27-Oct-16	-151	0			
■ MSB09_02	All road reinstatement works in Johnston Road and Hennessy Road have been satisfactorily completed (30-O	0	10-May-17		21-Oct-16	-73	78			•
	Cost Centre B satisfactorily completed (26-Feb'17)							HERRIT	41 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	
■ MSB10_01	All works in this cost centre have been satisfactorily completed (26-Feb'17)	0	18-Aug-17		25-Feb-17	-173	87			
	pletion for ABWF Works									\Q
ABWF.D1	ABWF Works - Degree 1	0	24-May-17	7	28-Jul-16	-87	0			•
ABWF.D2	ABWF Works - Degree 2	0	26-Jun-17		23-Sep-16	-119	32			4
ABWF.D3	ABWF Works - Degree 3	0	28-Jul-17		27-Oct-16	-151	0			
ABWF Works - De	per service and the service an	To 1077		-					11-1-r-er-11 <mark>-9</mark>	2
■ ABWF.D1 1.010	1.1- Structure and building complete, clean, dry and weather proof	0	06-Apr-17	1	28-Jul-16	-39	48		ALBERT HE	•
ABWF.D1 1.020	1.2- Blockwalls and partition walls complete, except on plant access route	0	27-Арг-17		28-Jul-16	-59	28			•
■ ABWF.D1_1.030	1.3- Plastering, undercoat painting, floor screeding including plinths & upstands complete	0	24-May-17		28-Jul-16	-87	0		Y	•
ABWF.D1_1.030	1.4- Equipment delivery routes & access openings available for Designated Contractors or Interface Contractor	0	24-May-17		28-Jul-16	-87	0			•
■ ABWF.D1_1.050	1.5- Cast-in items & subframe installed; niches, recesses and box outs formed; cable troughs, ducts & risers α	0	24-May-17		28-Jul-16	-87	0	4		•
■ ABWF.D1_1.060	1.5- Cast-in items a submarine installed, fliches, recesses and box outs formed, cable troughs, ducts a risers a 1.6- Structure as-built survey accepted	0	24-May-17		28-Jul-16	-87	0		\Q	•
■ ABWF.D1_1.070	1.7- Structural & blockwork E&M openings formed & survey complete	0	24-May-17	1	28-Jul-16	-87	0		•	•
■ ABWF.D1_1.080	1.8- Movement joints & stitch strips complete	0	24-May-17	<u> </u>	28-Jul-16	-87	0			•
■ ABWF.D1_1.090	1.9- Drainage system & discharge connections complete with temporary pumps operational	0	23-May-17	-	27-Jul-16	-86	1		\Q	•
	1.10- Escalator zones & pits complete; survey reference lines accepted	0	24-May-17		28-Jul-16	-87			11 11 11 11 11 11 11 11 11 11 11 11 11	
■ ABWF.D1_1.100	1.11- Earthing mat, earthing rods & earthing pits complete & test results accepted	0	24-May-17	-	28-Jul-16	-87			\	•
■ ABWF.D1_1.110		0	24-May-17	-	28-Jul-16	-87				•
■ ABWF.D1_1.120	1.12- Underground pipework complete including manholes, ductworks & drawpits	0	31-Aug-16	-	14-Apr-14	180	267		₹	
■ ABWF.D1_1.130	1.13- Civil & building provisions for designated & interfacing contractors complete	U	31-Aug-10		14-Apr-14	100	201			
ABWF Works - De		0	19-Jun-17		15-Sep-16	-112	7			
■ ABWF.D2_2.010	2.1- Permanent door frames installed with temporary doors and locks				- 	-112	- /			
■ ABWF.D2_2.020	2.2- Floor finishes & wall tilling in plant rooms for Designated Contractors complete	0	26-Jun-17		23-Sep-16		44		>	
■ ABWF.D2_2.030	2.3- Glazing & Balustrade support installed	0	13-May-17		11-Aug-16	-75 -112	7		\Q	
■ ABWF.D2_2.040	2.4- Metal staircases, cat-ladders & catwalks complete	0	19-Jun-17	-	15-Sep-16 15-Sep-16	-112	7			
■ ABWF.D2_2.050	2.5- External louvers installed		19-Jun-17				7			
■ ABWF.D2_2.060	2.6- Framework for final finishes installed	0	19-Jun-17		15-Sep-16	-112	- /		H :: 11 E E S	
■ ABWF.D2_2.070	2.7- Water tightness testing to water tanks passed	0	01-Jun-17		15-Sep-16	-95	24		>	ii ii ii Y
ABWF Works - De			00 1147		07.04.40	454				
■ ABWF.D3_3.010	3.1- All finishes complete including permanent doors, ironmongery	0	28-Jul-17		27-Oct-16	-151	0		•	>
■ ABWF.D3_3.020	3.2- Balustrade installed	0	28-Jul-17		27-Oct-16	-151	0			
■ ABWF.D3_3.030	3.3- Signage hangers & supports installed	0	25-Jul-17		24-Oct-16	-148	3	BREHHILL		>
■ ABWF.D3_3.040	3.4- Roller shutters, fire shutters & smoke barriers installed	0	25-Jul-17	-	24-Oct-16	-148	3		<	>
■ ABWF.D3_3.050	3.5- Acoustic treatment applied	0	25-Jul-17		24-Oct-16	-148	3		<	>
■ ABWF.D3_3.060	3.6- Louvres & grilles installed	0	25-Jul-17		24-Oct-16	-148	3		()	>
■ ABWF.D3_3.070	3.7- All openings & Penetrations sealed	0	07-Jul-17	<u></u>	24-Oct-16	-131	20		()	
	ound Reprovision works		الإسلام	Lean-	1					
■ RW_0010	LCSD handover Northern Basket Ball Court 1	1 15-Jun-17	15-Jun-17	17-Dec-16	17-Dec-16	-141	0			
■ RW_0020	Fence off the site	2 16-Jun-17	17-Jun-17	19-Dec-16	20-Dec-16	-141	0			
■ RW_0030	Expose the surface	6 19-Jun-17	24-Jun-17	21-Dec-16	29-Dec-16	-141	0			
□ RW_0040	Resurfacing works	14 26-Jun-17	12-Jul-17	30-Dec-16	16-Jan-17	-141	0			. P
RW_0050	Hand over to LCSD, additional remedial if require	5 13-Jul-17	18-Jul-17	17-Jan-17	21-Jan-17	-141	0			
RW_0060	LCSD handover Southern Basket Ball Court 2	1 19-Jul-17	19-Jul-17	23-Jan-17	23-Jan-17	-141	0			
10 1 - 10 1 - 10 1 1 1 1 1 1 1 1 1 1 1 1	C-1 (CE02 12C XX)	: Ctation T - 7	Cuma C4	of Carbana					The second	
 Actual Level of Effor 	The state of the s		ung Stre	et subway	==			ad		
Primary Baseline	♦ ♦ Baseline Milestone Master Pro	ogram (Rev.C)			-0.4		17	以 事是五 十		7
Actual Work	♦ Milestone		West State of the					06	0.15	
	Due annue de Due annue	(Updated Ending Aug	116)				The Visit of		A company of	

3C LTS MP Rev.C_BL_R		Original	I Start	Finish	BI Project Stor	t BL Project Finish	Total Float From		Sep-16_1	0.33				-
Activity ID	Activity Name	Original Duration		Finish	DL Project Star	L DE Froject Filish	TOTAL FIDAL FIEL	- 1	2014	2015		016	2017	
<u> </u>					L				ШШ	ШШШ	ШШШ	ЩЩЦ	ЩЩ	I
■ RW_0070	Fence off the site		20-Jul-17	21-Jul-17	24-Jan-17	25-Jan-17	-141	0						1
■ RW_0080	Expose the surface		22-Jul-17	28-Jul-17	26-Jan-17	04-Feb-17	-141	0				4 Hilli		1
■ RW_0090	Resurfacing works		29-Jul-17	12-Aug-17	06-Feb-17	20-Feb-17	-141	0		11111111				1
■ RW_0100	Hand over to LCSD, additional remedial if require	5	14-Aug-17	18-Aug-17	21-Feb-17	25-Feb-17	-141	0						1
Gost Centre B: Pa	rt A Works, Civil and Structural Works for the New Subway						and the second							4
B.RC_Comp	RC Structure completed for the new subway	0		22-Feb-17		30-Apr-16	-295	0			♦			-
Site Preliminary Wo	orks													-
SPW_0010	LCSD handover SBC & Play's Area	3	14-Apr-14 A	16-Арг-14 А	14-Apr-14	16-Apr-14				11111111				1
■ SPW_0020	Fence off the Site area for SBC & Play's Area	3	17-Apr-14 A	23-Apr-14 A	17-Apr-14	23-Apr-14								1
■ SPW_0030	Employ security guard & security booth delivery	3	24-Apr-14 A	26-Apr-14 A	24-Apr-14	26-Apr-14								i
SPW_0040	Removal of existing furniture for SBC & Play's Area as require	6	28-Apr-14 A	05-May-14 A	28-Apr-14	05-May-14								ä
■ SPW_0050	Trial trenches and expose existing UU service in SBC & Play's area	40	14-Apr-14 A	05-Jun-14 A	14-Apr-14	05-Jun-14			A					1
SPW_0060	Setting up site office & misc.	50	07-May-14 A	05-Jul-14 A	07-May-14	05-Jul-14								i
SPW_0070	Form site access for vehicle	12	07-Jul-14 A	19-Jul-14 A	07-Jul-14	19-Jul-14								Ī
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								i
SPW_0090	Erect hoarding for SBC			29-Jul-14 A		21-Jul-14			J					-
SPW_0100	Ground/ Site Investigation in SBC & Play's Area			28-Jul-14 A		28-Jul-14								-
SPW_0110	Transplant and tree removal			21-Jul-14 A		21-Jul-14								1
Northern Basket Ba		<u> </u>							artisti	1111111	111111111	## # #####	######################################	1
NBC 0010	Liaison with relevance parties for TTM	80	02-Apr-15 A	02-Jul-15 A	02-Apr-15	13-Jul-15								1
	LCSD handover Northern Basket Ball Court for LTS construction works			11-Aug-15 A		06-Jul-15						# 11111		1
■ NBC_0020				11-Aug-15 A		10-Jul-15								4
■ NBC_0030	Preparation works for NBC site access			11-Aug-15 A		16-Jul-15								4
■ NBC_0040	Implementation of TTM				_	17-Jul-15					+++++++		131-13-13-1	1
■ NBC_0050	Relocation of metal fence access door for public			11-Aug-15 A									311197	1
■ NBC_0060	Hoarding installation, installation of site entry on Hennessy Road		J	15-Aug-15 A		31-Jul-15				5				Ì
■ NBC_0070	Expose UU & trial trench for sheet piles works			20-Aug-15 A		14-Aug-15								1
■ NBC_0080	Phase 3 ELS- Sheet Piles Installation [104 no. x 24m]			23-Sep-15 A		12-Oct-15				111111111				1
■ NBC_0090	Curtain Grouting and remedial works for sheet piles not reaching to design toe level			13-Oct-15 A		30-Oct-15			pilliilii.			11-14-41	11:11:11:11	ļ
■ NBC_0100	Phase 3 ELS- Pumping Test preparation works	1000		26-Oct-15 A		27-Oct-15								
■ NBC_0110	Phase 3 ELS- Pumping Test			01-Nov-15 A		06-Nov-15								1
■ NBC_0120	Phase 3 ELS- Pumping Test Report Preparation and submission to BD			02-Nov-15 A		13-Nov-15					.			1
■ NBC_0130	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m^3]	9	04-Nov-15 A	10-Nov-15 A	14-Nov-15	24-Nov-15					113			ŀ
■ NBC_0140	Bulk excavation & layer 2 strut & preloading [500m^3]	15	11-Nov-15 A	21-Nov-15 A	25-Nov-15	11-Dec-15			(32-5-51)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1114	11.11.11	1111111111	1
■ NBC_0150	Bulk excavation & layer 3 strut & preloading [500m^3]	18	23-Nov-15 A	03-Dec-15 A	12-Dec-15	05-Jan-16					14			ŀ
■ NBC_0160	Bulk excavation & layer 4 strut & preloading [500m^3]	21	04-Dec-15 A	04-Jan-16 A	06-Jan-16	29-Jan-16								1
■ NBC_0170	Plate load test	6	05-Jan-16 A	08-Jan-16 A	30-Jan-16	05-Feb-16								Î
■ NBC_0180	Plate load test- Preparation of report & submission to BD	6	09-Jan-16 A	31-Jan-16 A	06-Feb-16	16-Feb-16								4
■ NBC_0190	Base Slab- Waterproofing & RC construction [Concrete 490m^3] & [Re-Bar 29.5 T]	15	13-Jan-16 A	22-Jan-16 A	17-Feb-16	04-Mar-16					I.			1
■ NBC_0200	Wall- Waterproofing & RC construction [Concrete 300m^3] & [Re-Bar 54 T]	21	20-Feb-16 A	08-Mar-16 A	05-Mar-16	01-Apr-16					4			1
■ NBC_0210	Top Slab- Waterproofing & RC construction [Concrete 180m^3] & [Re-Bar 42.7 T]	24	17-Mar-16 A	01-Apr-16 A	02-Apr-16	30-Apr-16					.			1
■ NBC_0220	Construction of flood light footing [2 nos.]	12	29-Mar-16 A	01-Apr-16 A	03-May-16	17-May-16					III.	J		
■ NBC_0230	Reinstatement and installation of flood light [2nos.]	6	29-Mar-16 A	01-Sep-16	18-May-16	24-May-16	29	0			: III I			1
■ NBC_0240	Backfilling for Northern Basketball Court		05-May-16 A		25-May-16	07-Jun-16	29	0						1
■ NBC_0250	Reinstate hard paving of Northern Basketball Court			27-Sep-16	08-Jun-16	29-Jun-16	29	0				0		İ
■ NBC_0260	Reinstate surface coating of Northern Basketball Court		27-Sep-16	13-Oct-16	30-Jun-16	14-Jul-16	29	0			1	Li Diii		1
■ NBC_0270	Hand over to LCSD, additional remedial if require	The second second second	13-Oct-16	27-Oct-16	15-Jul-16	28-Jul-16	29	0				V. D		*
■ NBC_0280	Reinstate road surface on Hennessy Road		27-Oct-16	20-Jan-17	29-Jul-16	21-Oct-16	29	0		HIELE				1
Southern Basket B		الحقيط								HIBIN				İ
SBC_0010	Phase 1 ELS- Sheet Piles Installation [184n. x 24m]	65	22-Jul-14 A	15-Nov-14 A	22-Jul-14	08-Oct-14				HILLER	111111111	11 7-1-1	11111111	+
3BC_0010	THASE TELES OFFICE THE MISTALIAN FORTH, A Z-THJ		LL out 147	15.1107-177		1 2 2 3 1 1				11.101.10	1.13 103 (311)	1111111		4
Actual Level of EffortPrimary BaselineActual Work	Critical Remaining Contract C6593-13C Wan Cha ♦ Baseline Milestone Master Pr ♦ Milestone	rogram	(Rev.C)	+ ±, _	et Subway	Ţ.	1	Z		_1	eı		基	
Remaining Work	Progress vs Program	n (Updated	Ending Aug'	16)				91	a		C	Ų l	1	1

ivity ID	Report (Aug'16) Activity Name	Original Start	Finish	BL Project Sta	art BL Project Finish		6-Sep-16_16: oat			
		Duration			320 N 32345 N	Section Section (Control of Section Control of Sect	2014	2015	2016	20
■ SBC_0020	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	15 15-Oct-14 A	15-Nov-14 A	09-Oct-14	25-Oct-14	D. C.	┸	1111111111		
SBC_0030	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [800m^3]	21 09-Oct-14 A			01-Nov-14			HIRE 1999		
SBC_0040	Phase 1 ELS- Pumping Test preparation works	15 16-Oct-14 A		- Care -	25-Oct-14	-				
SBC_0050	Phase 1 ELS- Pumping Test	11 17-Nov-14 A	28-Nov-14 A	27-Oct-14	07-Nov-14					
SBC_0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD	6 04-Dec-14 A		Ļ	14-Nov-14					
SBC_0070	Bulk excavation & layer 2 strut & preloading [800m^3]	28 15-Nov-14 A			17-Dec-14					
SBC_0080	Bulk excavation & layer 3 strut & preloading [800m^3]	30 18-Dec-14 A			24-Jan-15					
SBC_0090	Plate load test	6 26-Jan-15 A			31-Jan-15					
SBC_0100	Temporary Traffic Deck construction	12 10-Jan-15 A			07-Feb-15					
SBC_0110	Plate load test- Preparation of report & submission to BD	12 12-Feb-15 A		·	14-Feb-15					
SBC_0120	Base Slab- Waterproofing & RC construction [Concrete 420m^3] & [Re-Bar 25.3 T]	15 04-Sep-15 A			07-Mar-15			111		
SBC_0130	Wall- Waterproofing & RC construction [Concrete 280m^3] & [Re-Bar 50.4 T]	21 02-Mar-15 A	7	Total Maria Cara	01-Apr-15					
SBC_0140	Top Slab- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 50 T]	22 28-Mar-15 A		<u> </u>	02-May-15			<u>L</u>		
SBC_0150	Construction of flood light footing (2 nos.)	7 14-May-15 A	12-11-17-12-13-13-13-13-13-13-13-13-13-13-13-13-13-		11-May-15		-	j		
SBC_0160	Reinstatement and installation of flood light (2nos.)	3 05-Jun-15 A			14-May-15					
SBC_0160	Backfilling for Southern Basketball Court	6 18-May-15 A			21-May-15		-			
SBC_0170	Reinstate hard paving of Southern Basketball Court	9 16-Jun-15 A			02-Jun-15					
SBC_0180	Reinstate hard paving of Southern Basketball Court Reinstate surface coating of Southern Basketball Court	9 10-Jun-15 A			12-Jun-15					
SBC_0190	Hand over to LCSD, additional remedial if require	12 30-Jun-15 A		4	27-Jun-15					
Children's Play A		12 30-3dil- 13 A	11-Aug-15A	TO JULY TO	Zr ouii-10					
CPA_0010	Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]	65 22-Jul-14 A	15-Nov-14 A	22-Jul-14	08-Oct-14					
	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	15 15-Oct-14 A			25-Oct-14					
CPA_0020	Phase 1 ELS- Pumping Test preparation works	15 16-Oct-14 A			25-Oct-14 25-Oct-14		-			
CPA_0030	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m^3]	32 27-Oct-14 A			02-Dec-14					
CPA_0040		11 17-Nov-14 A	DESCRIPTION OF THE PROPERTY OF		07-Nov-14					
CPA_0050	Phase 1 ELS- Pumping Test Pagest Proportion and submission to PD	6 04-Dec-14 A	The state of the s		14-Nov-14					
CPA_0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD				24-Jan-15					
■ CPA_0070	Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]	30 18-Dec-14 A	Charles Taractics States In		07-Feb-15					
CPA_0080	Play's Area Temporary Traffic Deck construction	12 10-Jan-15 A	4				— Barana 🔃		18 11 11	
CPA_0090	Bulk excavation & layer 3 strut & preloading [680m^3]	40 09-Feb-15 A			30-Mar-15					
CPA_0100	Bulk excavation & layer 4 strut & preloading [680m^3]	50 01-Mar-15 A	The state of the s	100 M 100 M	03-Jun-15					
CPA_0110	Plate load test	6 30-Mar-15 A			10-Jun-15		-			
■ CPA_0120	Plate load test- Preparation of report & submission to BD	12 08-Apr-15 A			25-Jun-15		<u>—[iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii</u>			
CPA_0130	Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]	30 23-Apr-15 A			31-Jul-15					
CPA_0140	Wall- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 37.8 T]	18 18-Jun-15 A			21-Aug-15					
CPA_0150	Top Slab- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T]	20 07-Aug-15 A		The second second second	14-Sep-15				18:33 [3]	
☐ CPA_0160	Ventilation Shaft Below Ground- Waterproofing & RC construction [Concrete 35m^3] & [Re-Bar 6.3 T]	20 22-Aug-15 A			09-Oct-15	2.2				
CPA_0170	Ventilation Shaft 1.2m Above Ground- Waterproofing & RC construction [Concrete 25m^3] & [Re-Bar 4.5 T]	18 14-Sep-15 A		10-Oct-15	31-Oct-15	-141	0			
CPA_0180	Ventilation Shaft - Waterproofing & RC construction reach +7.40 & +9.50mPD [Concrete 50m^3] & [Re-Bar 9	30 10-Sep-16	18-Oct-16	21-Mar-16	28-Apr-16	-141	0		7	
CPA_0190	Site cleaning for Play Area reinstatement & Landscape works	12 19-Oct-16		29-Apr-16	13-May-16	-141	0 11111111111111111111111111111111111	F11 F11 F1 F1	. 	
□ CPA_0200	Reinstatement works for Plays Area	66 02-Nov-16	20-Jan-17	16-May-16	02-Aug-16	-141	0			
□ CPA_0210	Landscape works	66 21-Jan-17	12-Apr-17	03-Aug-16	21-Oct-16	-141	0		1	
□ CPA_0220	Hand over to LCSD, additional remedial if require	48 13-Apr-17	14-Jun-17	22-Oct-16	16-Dec-16	-141	0		:::::\ <u>+</u>	
Johnston Road		LIGHT THE REAL PROPERTY.			1000 March 1000 March					
JnR_0010	All Sheet Piles on JnR & 1st layer mini piles below Tram track completed	0	10-Apr-16 A		09-Sep-15			>	.	
■ JnR_0020	Phase 2 ELS- Pumping Test 1 for 1st layer	6 17-Mar-16 A			16-Sep-15					
■ JnR_0030	Phase 2 ELS- Pumping Test Report for 1st layer Preparation and submission	6 21-Mar-16 A			23-Sep-15					
■ JnR_0040	Phase 2 ELS- 1st layer Pumping Test completed & satisfied	0	25-Apr-16 A		23-Sep-15			\Q	•	
■ JnR_0050	Bulk excavation & layer 1 strut & preloading [570m^3]	24 30-May-16 A			24-Oct-15					
■ JnR_0060	All grouting and sheet piles achieved to tot level in Johnston Road	0	07-Mar-16 A		07-Nov-15			⋄ •		
Actual Level of Effor	t Critical Remaining Contract C6593-13C Wan Cha	ai Station Lee T	ung Stre	et Subwa	y				1200	
Primary Baseline		ogram (Rev.C)	3		- 4	-	Cac			
Actual Work	♦ Milestone	- 0 (200,0)					A Parket		(John W.	
AUCUGI VVOIN		(Updated Ending Aug'1						9 70	1 0	

vity ID	Activity Name	Original		Finish	BL Project St	art BL Project Finish	Total Float Free F	2014 20°	15 2016	20
		Duration						2014 20		
■ JnR_0070	Phase 2 ELS- Pumping Test 2 for whole ELS	6	12-Sep-16	20-Sep-16	09-Nov-15	14-Nov-15	-242	0		
■ JnR_0080	Phase 2 ELS- Pumping Test Report for whole ELS Preparation and submission	6	20-Sep-16	27-Sep-16	16-Nov-15	21-Nov-15	-242	0		1
■ JnR_0090	Phase 2 ELS- Pumping test completed & satisfied	0		27-Sep-16		21-Nov-15	-300	0	Ø >>	*
■ JnR_0100	Bulk excavation & layer 2 strut & preloading [570m^3]	18	27-Jun-16 A	08-Oct-16	23-Nov-15	12-Dec-15	-242	0		•
■ JnR_0110	Bulk excavation & layer 3 strut & preloading [570m^3]	18	08-Oct-16	31-Oct-16	14-Dec-15	06-Jan-16	-242	0	li i bi	
■ JnR_0120	Bulk excavation & layer 4 strut & preloading [570m^3]	21	31-Oct-16	24-Nov-16	07-Jan-16	30-Jan-16	-242	0	CT373 CCCCCT333	
■ JnR_0130	Bulk excavation to formation level on JnR	0		24-Nov-16		30-Jan-16	-298	0		•
■ JnR 0140	Sump pit- Waterproofing & RC construction [Concrete 250m ³] & [Re-Bar 15 T]	18	24-Nov-16	15-Dec-16	01-Feb-16	24-Feb-16	-242	0		
■ JnR 0150	Base Slab- Waterproofing & RC construction [Concrete 265m^3] & [Re-Bar 16 T]	17	15-Dec-16	07-Jan-17	25-Feb-16	15-Mar-16	-242	0		
■ JnR_0160	Wall- Waterproofing & RC construction [Concrete 70m^3] & [Re-Bar 12.6 T]	18	07-Jan-17	01-Feb-17	16-Mar-16	09-Apr-16	-242	0		11.
■ JnR_0170	Top Slab- Waterproofing & RC construction [Concrete 125m^3] & [Re-Bar 29.6 T]	18	01-Feb-17	22-Feb-17	11-Apr-16	30-Apr-16	-242	0		
■ JnR_0180	RC structure completed on JnR	0		22-Feb-17		30-Apr-16	-295	0		•
■ JnR 0190	Removal of temporary traffic decking ,backfill & road reinstatement on JNR	60	22-Feb-17	10-May-17	03-May-16	14-Jul-16	-57	0	*	
	d North Footpath (TTM Stage 1, 2, 2A & 2B)		THE REAL PROPERTY.	TAIN NE		Wilde Affire Taris				
JnR.NFP 001		54	14-Apr-14 A	21-Jun-14 A	14-Apr-14	21-Jun-14			andrii ili N	
■ JnR.NFP 0020			15.0	02-Jul-14 A		02-Jul-14				
☐ JnR.NFP 003				09-May-15 A		07-Feb-15				
■ JnR.NFP 004				12-Jun-15 A		14-Feb-15				
■ JnR.NFP 0050				21-Jul-15 A		25-Feb-15			and de la la la la la la la la la la la la la	
■ JnR.NFP 006		0	The second second se	21-Jul-15 A	1.0 , 20 13	25-Feb-15			•	
	d Eastbound carriageway			21 da 1071	CONT. ST. ST. ST. ST. ST. ST. ST. ST. ST. S				}}}	1-1-1-1-1-1-1
	ad Eastbound carriageway North Side (TTM Stage 3)	A SECTION OF THE PARTY OF THE P		010	Maria de Maria	THE PERSON NAMED IN				
	_001 Implementation of TTM 3	3	13-Mar-15 A	14-Mar-15 A	30-Mar-15	01-Apr-15				
	_002 Phase 2 ELS- Sheet Piles Installation [25no. x 24m]			05-Aug-15 A		20-Apr-15				
				20-Aug-15 A		27-Apr-15				
			-	31-Aug-15 A		05-May-15			#18555511i+	h
The state of the s	_002 Installation of temporary traffic decking _003 Sheet Piles & Traffic decking completed on Eastbound Carriageway North Side for TTM Stage 4	0		31-Aug-15 A		05-May-15				
		-		01-Aug-1074		00 May 10		-	ammani	
	ad Eastbound carriageway South Side (TTM Stage 4 & 5)	2	21 Aug 15 A	01-Sep-15 A	00 Jul 15	11-Jul-15				
	_001 Implementation of TTM 4			14-Jan-16 A		22-Jul-15				
	_002 Phase 2 ELS- Sheet Piles Installation [33no. x 24m]		196 555 7576	04-Jan-16 A	1,000,000,000	29-Jul-15			an a arana	:
	_003 Curtain Grouting and remedial works for sheet piles not reaching to design toe level	0		-		29-Jul-15		— <u>Riillii Riill</u>		
	_004 Sheet pile completed on Eastbound Carriageway South Side			14-Jan-16 A	<u> </u>				<u>٠</u>	
	_005 Coring for minipile No. 1 to reach -56mPD [60m]			27-Jan-16 A		15-Apr-15				
	_006 Installation of Re-Bar for minipile No.1 [4x 60m T50, 3.7Ton]			04-Feb-16 A		21-Apr-15				
	_007 Groutiong for minipile No.1			05-Feb-16 A		22-Apr-15				
	_008 Coring for minipile No. 2 to reach -56mPD [60m]			02-Feb-16 A		24-Apr-15			THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRE	
	_009 Installation of Re-Bar for minipile No.2 [4x 60m T50, 3.7Ton]		ļ	04-Feb-16 A		30-Apr-15				
	_01C Groutiong for minipile No.2	1	05-Feb-16 A	05-Feb-16 A	02-May-15	02-May-15				
The state of the s	d Tram Tracks (TTM Stage 3)	RING WITH BE					Marian Harriston			
■ JnR.TT_0010				14-Mar-15 A		01-Apr-15				4
☐ JnR.TT_0030				04-Jun-15 A		05-May-15				
JnR.TT_0040	1st layer of mini piles below tram tracks completed	0		10-Apr-16 A		05-May-15		, >		
JnR.TT_0050				18-Mar-15 A		08-May-15			HEREMEN	
■ JnR.TT_0060	Installation of Steel Beam	4	18-Mar-15 A	24-Apr-15 A	06-May-15	09-May-15				
■ JnR.TT_0070	Leveling of steel Beam by Tramsway Sub-Con (NTH)	4	24-Apr-15 A	24-Apr-15 A	06-May-15	09-May-15				
■ JnR.TT_0080	Installation of temporary steel decking on tram track			23-May-15 A		09-May-15				
■ JnR.TT_0090	Expose concrete/ fill below tram track [60m^3]	24	25-Apr-15 A	23-May-15 A	11-May-15	08-Jun-15				
JnR.TT_0100	Installation of Re-bars [Re-Bars 7.6T]	12	27-Apr-15 A	23-May-15 A	09-Jun-15	23-Jun-15				Hillia
■ JnR.TT_0110		6	28-Apr-15 A	23-May-15 A	24-Jun-15	30-Jun-15				

Master Program (Rev.C) Primary Baseline ♦ Baseline Milestone Actual Work Milestone

Remaining Work

Progress vs Program (Updated Ending Aug'16)





		port (Aug'16)		da.	le	In p : : c	alm by the	LI TALLEL LE	06-Sep-16	10.39		
Activit	by ID	Activity Name	Original Duration		Finish	BL Project Sta	art BL Project Finis	h Total Float Fre	2014		2016	2017
	et skeistigen in voorwingte			05.11 45.4	00.1.45.4	00 1:145	00 1445		ПП		ЩШ	
	■ JnR.TT_0120	Reinstate the tram track surface		25-May-15 A		02-Jul-15	08-Jul-15					
Ш-	<u> </u>	Tram track concrete decking & reinstatement works completed ready for Implementation			06-Jun-15 A	26 Oct 15	08-Jul-15 07-Nov-15	-242		\		
IL	_	2nd layer grouting and pipe piles below tram track to -17mPD (16m) 50no. x 324mm dia.	450mm C/C (2 mad 12	01-Aug-16 A	12-Sep-10	20-Ou-15	07-1400-15	-242			HTH	
		stbound carriageway (TTM Stage 5)		11-Aug-15 A	12 Aug 15 A	12 Aug 15	15-Aug-15					
ш	134-46	Implementation of TTM Stage 5		11-Aug-15 A			29-Aug-15					
Ш	The state of the s	Trial Trench		13-Feb-16 A			05-Sep-15					
Ш		Phase 2 ELS- Sheet Piles Installation [20no. x 24m]		22-Feb-16 A	Lance Addressed December		09-Sep-15			11 11 11 11 11 11 11 11 11 11 11 11 11		
II -		Curtain Grouting and remedial works for sheet piles not reaching to design toe level	0		16-Mar-16 A		09-Sep-15					
-		Sheet piles completed on Westbound carriageway		29-Mar-16 A			25-Aug-15			>		
Ш	■ JnR.WBC_0060	Coring for minipile No. 3 to reach -56mPD [60m]		15-Apr-16 A	30-81 CO 16-57 CO-65-30		31-Aug-15					
		Installation of Re-Bar for minipile No.3 [4x 60m T50, 3.7Ton]		18-Apr-16 A			01-Sep-15			. 1 . 1	1 1 1 1 1 1 1 1 1	
Ш	■ JnR.WBC_0080	Groutiong for minipile No.3		01-Apr-16 A			03-Sep-15					
1		Coring for minipile No. 4 to reach -56mPD [60m]		16-Apr-16 A	ALC: UNITED STATES	2000	09-Sep-15					
		Installation of Re-Bar for minipile No.4 [4x 60m T50, 3.7Ton]		19-Apr-16 A			10-Sep-15					
		Grouting for minipile No.4		15-Apr-16 A	HAR COMME DAY	28 304	15-Sep-15				81 183	
		Re-Bar Installation for minipile location		20-Apr-16 A			17-Sep-15					1111111
		Cast Concrete minipile location		20-Apr-10 A	22-Apr-10A	10-3ep-13	17-3ep-15					
	part in the same of the same o	estbound carriageway East Side (TTM Stage 2A)		18-Dec-14 A	20-Dec 14 A	18-Dec-14	20-Dec-14			14		
		Implementation of TTM Stage 2A		22-Dec-14 A			07-Jan-15					
	JnR.WBC.ES_00			08-Jan-15 A		<u> </u>	07-Jan-15 04-Feb-15					
		UU diversion on JnR Westbound Carriageway East Side		05-Feb-15 A	to the second se		07-Feb-15					
1		Installation of temporary traffic decking	0		07-Feb-15 A	-	07-Feb-15					
Ш		Traffic decking completed on Westbound Carriageway East Side for TTM Stage 2B	NAME OF THE PARTY	-	07-1 eb-1374		07-1 eb-10					
		estbound carriageway West Side (TTM Stage 2B)		09-Feb-15 A	11 Ech 15 A	00 Feb 15	11-Feb-15		1111			
1		Implementation of TTM Stage 2B		12-Feb-15 A			28-Feb-15					
ш	JnR.WBC.WS_00			02-Mar-15 A	FORE IN PURSUE WARREN		21-Mar-15					
		UU diversion on JnR Westbound Carriageway West Side	0		21-Mar-15 A		21-Mar-15					
ш		UU diversion on JnR Westbound Carriageway Completed Installation of temporary traffic decking		23-Mar-15 A			28-Mar-15			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
		Traffic decking completed on Westbound Carriageway West Side for TTM Stage 3	0	Beat many movement	28-Mar-15 A	A PERSONAL PROPERTY.	28-Mar-15					
	Johnston Road So				20 Mai 1071		Lo mai 10					
			3	23-Jun-15 A	23lun-15 A	09-Jul-15	11-Jul-15		1111			
	JnR.SFP_0010 JnR.SFP_0020	Implementation of TTM 4 Expose UU		23-Jun-15 A	STOCKED STOCK	1	25-Jul-15					
		UU diversion		23-Jun-15 A			05-Aug-15					
Ш	☐ JnR.SFP_0030	Phase 2 ELS- Sheet Piles Installation [15no. x 24m]		05-Dec-15 A		4	01-Aug-15					
	7	Curtain Grouting and remedial works for sheet piles not reaching to design toe level		16-Dec-15 A	3/3/14/14/14/14	10000	05-Aug-15		11111			
	☐ JnR.SFP_0060	Installation of Temporary Traffic decking		13-Jan-16 A			12-Aug-15		(33)			
		Sheet Piles & Traffic decking completed on South Footpath for TTM Stage 5			25-Jan-16 A		12-Aug-15					
	H15 Break Through					-					/	
	H15_0010	Installation protection measurement for break through	3	25-Feb-17	01-Mar-17	13-May-16	17-May-16	-225	0		/	1
	H15_0010	Breaking out to H15 - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m b		01-Mar-17		18-May-16	14-Jul-16	-225	0			
	H15_0020	Breaking out to H15 - Form opening, core notes a wife cut, or no. x o. sin x o. sin x nin b		07-Mar-17		24-May-16	28-Jun-16	-212	13			
	H15_0030	Breaking out to H15 - Construct the portal frame		1 1-1 1-1 1-1 1-1		15-Jul-16	28-Jul-16	-225	0		1	
	H15_0050	Demolish the propping steel members				29-Jul-16	30-Jul-16	-225	0		1	
		AWorks, ABWF Works for the New Subway		ay							1	
-	ABWF_0010	Preparation works for Fire Shutter on GL-L	6	03-May-16 A	09-May-16 A	03-May-16	09-May-16	1				
	■ ABWF_0020	Installation of Fire Shutter on GL-L		22-Feb-17		The second second second	12-May-16	-225	oliiii		1	
-	■ ABWF_0020 ■ ABWF_0030	Preparation works for Security Shutter on GL-L		03-May-16 A			09-May-16					
-		Installation of Security Shutter on GL-L		22-Feb-17			12-May-16	-225	0		/	
	■ ABWF_0040	installation of security structer on SE-E		LL-1 CU-17	201 00-11	70 May-10	12 may 10		.*[CALCEL CORES (TATE)		TO EST OF S
- A	Actual Level of Effort I	Critical Remaining Contract C6593-	13C Wan Chai Stati	on Lee T	ung Stre	et Subwa	y	Taylor A				
	Primary Baseline		Master Program	(Rev.C)					7	ıde		点
	Actual Work		CHOCCOMMUNICATION NOT SET TO TO THE CONTRACTOR	-/					1		-	
- 3	Remaining Work		Progress vs Program (Updated	T T A 37	()			(B-2010)	A VI CAD			

	LTS MP Rev.C_BL_R		Original	Ctart	Einich	RI Project Sta	rt BL Project Finish	Total Float F	06 Free Float				
Activi	rity ID	Activity Name	Original Duration	Start	Finish	BL Project Sta	t BL Project Finish	Total Float T	ree rioat	2014	2015	2016	
				00 14 40 4	00.14 40.4	02 14 40	00 May 10				ШШШ		
-	■ ABWF_0050	Preparation works for Flood Gate on GL-L			09-May-16 A		09-May-16	225	0				
113	■ ABWF_0060	Installation for Flood Gate on GL-L		22-Feb-17	25-Feb-17	10-May-16	12-May-16	-225 -275	0				
	■ ABWF_0070	Completion of Flood Gate, Fire Shutter & Security Shutter on GL-L	0	00 1-147	25-Feb-17	00.04.40	12-May-16		0			\Q	
	■ ABWF_0080	Remaining ABWF, finishing & Site cleaning works	90	28-Jul-17	14-Nov-17	28-Oct-16	16-Feb-17	-212	.0				
ı,	ABWF Works - Deg		770	10.0	00 4 47	20.1440	00 1440	400				/	
Щ	ABWF.D1_0010	Site Cleaning & dry the internal of Structure & building		19-Dec-16 A		03-May-16	28-Jul-16	-198	0			- -	
	■ ABWF.D1_0020	Installation of blockwalls & partition wall except on plant access route		19-Dec-16 A		03-May-16	28-Jul-16	-212	0	337CFFTT33			
1	■ ABWF.D1_0030	Apply Plastering, undercoat, painting, floor screeding including plinths and upstands		22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
1	■ ABWF.D1_0040	Forming equipment delivery routes and access openings for DC or Interface Contractors	2,725	22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
	■ ABWF.D1_0050	Install Cast-in items, subframe; Form niches, recesses & box outs; Install cable troughs, ducts & risers			24-May-17	03-May-16	28-Jul-16	-69	0				
	■ ABWF.D1_0060	Preparation, submission and approval of Structure as-built survey		22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
Ш	■ ABWF.D1_0070	Form Structural & blockwork E&M openings & preparation of survey	2.50	22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0		11111111111	corr rin-	neret <mark>Labo</mark> rentes
	■ ABWF.D1_0080	Installation of movement joints & stitch strips		22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
	ABWF.D1_0090	Form escalator zones & pits complete; survey reference lines for acceptance	72	22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
Н	ABWF.D1_0100	Installation of Earthing mat, earthing rods & earthing pits, test & acceptance	72	22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
	■ ABWF.D1_0110	Installation of underground pipe work including manholes, ductworks & drawpits	72	22-Feb-17	24-May-17	03-May-16	28-Jul-16	-69	0				
	ABWF Works - Deg	ree 2										N.	
П	■ ABWF.D2_0010	Permanent door frames installed with temporary doors & locks	42	27-Apr-17	19-Jun-17	29-Jul-16	15-Sep-16	-206	0			 	-
	■ ABWF.D2_0020	Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors	36	13-May-17	26-Jun-17	12-Aug-16	23-Sep-16	-212	0				- : : : : :
	■ ABWF.D2_0030	Install Glazing & Balustrade support	12	27-Apr-17	13-May-17	29-Jul-16	11-Aug-16	-212	0				
ı	■ ABWF.D2_0040	Install Metal staircases, cat-ladders & catwalks	42	27-Apr-17	19-Jun-17	29-Jul-16	15-Sep-16	-209	0				
1	■ ABWF.D2_0050	Install External louvers	42	27-Apr-17	19-Jun-17	29-Jul-16	15-Sep-16	-209	0				, : : : : : : : : : : : : : : : : : : :
Н	■ ABWF.D2_0060	Install Framework for final finishes	42	27-Apr-17	19-Jun-17	29-Jul-16	15-Sep-16	-209	0				
H	■ ABWF.D2_0070	Water tightness testing to water tanks & acceptance	42	06-Apr-17	01-Jun-17	29-Jul-16	15-Sep-16	-195	0				_
	ABWF Works - Deg								7 7 1				
l	■ ABWF.D3_0010	Inatall & apply all remaining finishes including permanent doors, ironmongery	27	26-Jun-17	28-Jul-17	24-Sep-16	27-Oct-16	-212	0				
	■ ABWF.D3_0011	Installation of VE Panel [591m^2]		19-Jun-17	28-Jul-17	17-Sep-16	27-Oct-16	-122	0				
H	■ ABWF.D3_0012	Installation of Ceiling Panel [565 m^2]		19-Jun-17	28-Jul-17	17-Sep-16	27-Oct-16	-122	0				
II-	ABWF.D3 0013	Installation of floor finishing [565 m^2]	200	26-Jun-17	28-Jul-17	24-Sep-16	27-Oct-16	-122	0				
H-		Install Balustrade		26-Jun-17	28-Jul-17	24-Sep-16	27-Oct-16	-212	0				
H-	■ ABWF.D3_0020			19-Jun-17	25-Jul-17	17-Sep-16	24-Oct-16	-209	0				
1	■ ABWF.D3_0030	Install Signage hangers & supports		19-Jun-17	25-Jul-17	17-Sep-16	24-Oct-16	-209	0				
1	■ ABWF.D3_0040	Install smoke barriers			2 2 2	17-Sep-16	24-Oct-16	-209	0				Berninger
H_	■ ABWF.D3_0050	Apply Acoustic treatment		19-Jun-17	25-Jul-17			-209	0				
l .	ABWF.D3_0060	Install Louvres & grilles		19-Jun-17	25-Jul-17	17-Sep-16	24-Oct-16	-195	0				Tarana 📅
	■ ABWF.D3_0070	Seal All openings & Penetrations	30	01-Jun-17	07-Jul-17	17-Sep-16	24-Oct-16	-195	U				1 1 2 2 3 4 4 4 1 1 1 1 1 1 1 1 1
	C: Building Ser	vices											
	Design, Shop Drav	vings, Materials & Equipments Submission and Approval											
	BS.DS_0010	BS Works- Preparation and submission for detailed design of BS works	128	14-Apr-14 A	18-Sep-14 A	14-Apr-14	18-Sep-14						
	BS.DS_0020	BS Works- Review and approval for detailed design of BS works	12	19-Sep-14 A	04-Oct-14 A	19-Sep-14	04-Oct-14						
	BS.DS_0030	BS Works- Preparation and re-submission for detailed design of BS works (If require)	12	06-Oct-14 A	18-Oct-14 A	06-Oct-14	18-Oct-14			: : : !			
	BS.DS_0040	BS Works- Review and approval for detailed design of BS works (If require)	12	20-Oct-14 A	01-Nov-14 A	20-Oct-14	01-Nov-14				HERE		
T	BS.DS_0050	BS Works- Contractor prepare & submit the propose suppliers & model types of major BS equipment & mater	128	14-Apr-14 A	18-Sep-14 A	14-Apr-14	18-Sep-14						
	BS.DS_0060	BS Works- Review & approval the propose suppliers & model types of major BS equipment & materials	12	19-Sep-14 A	04-Oct-14 A	19-Sep-14	04-Oct-14						
-	BS.DS_0070	BS Works- Contractor prepare & re-submit propose suppliers & model types of major BS equipment & materia	12	06-Oct-14 A	18-Oct-14 A	06-Oct-14	18-Oct-14						
	BS.DS_0080	BS Works- Review the propose suppliers & model types of major BS equipment & materials (If requie)	12	20-Oct-14 A	01-Nov-14 A	20-Oct-14	01-Nov-14						
	BS.DS_0090	BS Works- Preparation and submission of BS shop drawings		1000 Television (100 Televisio) (100 Television (100 Television (100 Television (100 Televisio	09-Dec-14 A	F100-200-201	09-Dec-14						
	BS.DS_0100	BS Works- Review and approval of BS shop drawings			23-Dec-14 A		23-Dec-14						
-	BS.DS_0100	BS Works- Preparation and re-submission of BS shop drawings (If require)	2004	10 10 10 10 10 10 10 10 10 10 10 10 10 1	09-Jan-15 A	-	09-Jan-15						
H	BS.DS_0110	BS Works- Review and approval of BS shop drawings (If require)			23-Jan-15 A		23-Jan-15						
	B3.D3_0120		all armening of			J				L COLORES CO	1.401 (104 300 h 3)	e consequence of	
_ /	Actual Level of Effort	Critical Remaining Contract C6593-13C Wan Cha	ai Statio	n Lee T	ung Stre	et Subway	y	(24)			Jan Hall	and the same	1 基
		♦ ♦ Baseline Milestone Master Pr						() to			1		
	Actual Work	♦ Milestone	9, 4,1							and the same of		A COLUMN	
		Progress vs Program	a (Undated F	Ending Aug'l	(6)				A		0 7		
	Remaining Work		0.3	0 0	*						100	90.0733	100

Activity ID	Activity Name	Original S Duration	Start	Finish	BL Project Sta	art BL Project Finish	Total Float Free Floa	2014	2015	2016	2017
		Duration				d Section 1					
BS.DS_0130	Exchange of Design Information with Designated and Interfacing Contractors	100 2	24-Jan-15 A	30-May-15 A	24-Jan-15	30-May-15					
Procurement an	d Delivery of Materials and Equipments										
BS.PD_0010	All Major building service equipments & materials - Manufacture & fabrication - Procurement		and the same of the same	02-Jan-15 A		02-Jan-15					
BS.PD_0020	Others Major building service equipments & materials - Place order			02-May-15 A		02-May-15		_[::::::::			
BS.PD_0030	Others Major building service equipments & materials - Manufacture & fabrication		The second second second	19-Aug-15 A		19-Aug-15		_			
BS.PD_0040	Others Major building service equipments & materials - Factory acceptance testing	24 2	20-Aug-15 A	16-Sep-15 A	20-Aug-15	16-Sep-15		_======================================			
BS.PD_0050	Others Major building service equipments & materials - Remedial works (If require)			31-Oct-15 A		31-Oct-15					
■ BS.PD_0060	Others Major building service equipments & materials - Factory acceptance (If require)	24 (02-Nov-15 A	18-Nov-15 A	02-Nov-15	28-Nov-15				<u> </u>	
■ BS.PD_0070	Others Major building service equipments & materials - Delivery to site/ ECS Room	90 3	30-Nov-15 A	19-Mar-16 A	30-Nov-15	19-Mar-16					
BS.PD_0080	Air Handling Unit - Place Order	95 0	03-Jan-15 A	05-Jan-15 A	03-Jan-15	02-May-15					
BS.PD_0090	Air Handling Unit - Manufacture & fabrication	90 0	04-May-15 A	19-Aug-15 A	04-May-15	19-Aug-15					
BS.PD_0100	Air Handling Unit - Factory acceptance testing	24 2	20-Aug-15 A	16-Sep-15 A	20-Aug-15	16-Sep-15		8:11:6			
BS.PD_0110	Air Handling Unit - Remedial works (If require)	36 1	17-Sep-15 A	31-Oct-15 A	17-Sep-15	31-Oct-15					
BS.PD_0120	Air Handling Unit - Factory acceptance testing (If require)	24 (02-Nov-15 A	28-Nov-15 A	02-Nov-15	28-Nov-15					
BS.PD_0130	Air Handling Unit - Delivery to site/ ECS Room	90 3	30-Nov-15 A	19-Mar-16 A	30-Nov-15	19-Mar-16					
BS.PD_0140	In-line Centrifugal Fan - Place Order	95 (03-Jan-15 A	05-Jan-15 A	03-Jan-15	02-May-15			Щ.		
BS.PD_0150	In-line Centrifugal Fan - Manufacture & fabrication	90 0	04-May-15 A	19-Aug-15 A	04-May-15	19-Aug-15					
BS.PD_0160	In-line Centrifugal Fan - Factory acceptance testing	24 2	20-Aug-15 A	16-Sep-15 A	20-Aug-15	16-Sep-15					
BS.PD_0170	In-line Centrifugal Fan - Remedial works (If require)	36 1	17-Sep-15 A	31-Oct-15 A	17-Sep-15	31-Oct-15					
BS.PD_0180	In-line Centrifugal Fan - Factory acceptance testing (If require)	24 (02-Nov-15 A	28-Nov-15 A	02-Nov-15	28-Nov-15					
BS.PD_0190	In-line Centrifugal Fan - Delivery to Site/ ECS Room	90 3	30-Nov-15 A	19-Mar-16 A	30-Nov-15	19-Mar-16					
BS.PD_0200	Smoke Extraction Fan - Place Order			05-Jan-15 A		02-May-15					
BS.PD_0210	Smoke Extraction Fan - Manufacture & fabrication			19-Aug-15 A		19-Aug-15					
BS.PD_0220	Smoke Extraction Fan - Factory acceptance testing			16-Sep-15 A		16-Sep-15					
BS.PD_0220	Smoke Extraction Fan - Remedial works (If require)	V C C C C		31-Oct-15 A		31-Oct-15					
BS.PD_0230	Smoke Extraction Fan - Factory acceptance testing (If require)			28-Nov-15 A	The second secon	28-Nov-15					
BS.PD_0240	Smoke Extraction Fan - Delivery to site/ ECS Room			19-Mar-16 A		19-Mar-16					
BS.PD_0260	Fan Coil Unit - Place order			05-Jan-15 A		02-May-15					
BS.PD_0200	Fan Coll Unit - Manufacture & fabrication		7555 C. A 45561, 114-4-115	19-Aug-15 A		19-Aug-15				***	
	Fan Coll Unit - Manufacture & lab load of Fan Coll Unit - Factory acceptance testing			16-Sep-15 A		16-Sep-15					
BS.PD_0280				31-Oct-15 A	1	31-Oct-15		-	. H HH H H T		
BS.PD_0290	Fan Coil Unit - Remedial works (If require)			28-Nov-15 A		28-Nov-15					
BS.PD_0300	Fan Coil Unit - Factory acceptance testing (If require)			19-Mar-16 A		19-Mar-16		- 1111111111			
BS.PD_0310	Fan Coil Unit - Delivery to site/ ECS Room		C. C. C. C. C. C. C. C. C. C. C. C. C. C	05-Jan-15 A		02-May-15			1	4-4-4-4-4	
BS.PD_0320	Motorized Smoke & Fire damper - Place order			141212121212121212121212121				-			
BS.PD_0330	Motorized Smoke & Fire damper - Manufacture & fabrication			19-Aug-15 A		19-Aug-15					
BS.PD_0340	Motorized Smoke & Fire damper - Factory acceptance testing			16-Sep-15 A	The second secon	16-Sep-15		- [[]]			
BS.PD_0350	Motorized Smoke & Fire damper - Remedial works (If require)	<u> </u>		31-Oct-15 A		31-Oct-15					
BS.PD_0360	Motorized Smoke & Fire damper - Factory acceptance testing (If require)		20,000-220-00-00-00-00-00-00-00-00-00-00-00	28-Nov-15 A		28-Nov-15					
BS.PD_0370	Motorized Smoke & Fire damper - Delivery to site/ ECS Room		3U-NOV-15 A	19-Mar-16 A		19-Mar-16					
BS.PD_0380	All Major equipment BS equipment & materials - Completed placing orders	0		02-May-15 A		02-May-15			ŏ	•	
BS.PD_0390	All Major equipment BS equipment & materials - Completed all factory acceptance testing	0		28-Nov-15 A		28-Nov-15				\lambda	
BS.PD_0400	All Major equipment BS equipment & materials - Completed delivery to ECS room	0		19-Mar-16 A	L	19-Mar-16				⋄	
Installation of B					00.11	00.14	010		44444	14444	
■ BS.I_0009	Installation of trucking, cable for the whole subway linking between H15 and WAC station		22-Feb-17	14-Mar-17	03-May-16	23-May-16	-242	U		/ .	
BS.I_0010	Electrical - Within Stn, Distribution equip. 16 nr, cable tray & trunk 420m, lighting fitting 81nr, earthing tape 276		31-Aug-16	29-Oct-16	21-Mar-16	23-May-16	-132 11	0		(††	
■ BS.I_0020	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth 170m, sign 42nr, conr		14-Mar-17	18-May-17	24-May-16	22-Jul-16	-242	0		\	
■ BS.I_0030	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth 170m, sign 42nr, cont			29-Jul-17	23-Jul-16	03-Oct-16	-242	0		- (rei o jit i
■ BS.I_0040	ECS - Within WAC Stn, Grille 6 nr, air duct 115m2, damper 7 nr.	30	14-Mar-17	22-Apr-17	24-May-16	28-Jun-16	-228	0		()	
BS.I_0050	ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, damper 36nr, control 4nr, et	42	22-Apr-17	14-Jun-17	29-Jun-16	17-Aug-16	-228	0		₩	

Master Program (Rev.C) Baseline Milestone

Primary Baseline

Milestone

Actual Work

Remaining Work

Progress vs Program (Updated Ending Aug'16)





Activity ID	Report (Aug'16)	Original Start	Finish	BL Proiect Sta	art BL Project Finish	Total Float Fre	ee Float			
Activity ID	Activity Name	Duration					2014	2015	2016	2017
BS.I_0060	ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, damper 36nr, control 4nr, et	24 14-Jun-17	13-Jul-17	18-Aug-16	14-Sep-16	-228	14			
BS.I_0000	FS Works - Within H15, Pipe 59m, dectector 7 nr, hose reel 1 nr	21 19-May-17	14-Jun-17	01-Aug-16	24-Aug-16	-225	0	A SECTION AND A SECTION ASSESSMENT		
BS.I 0080	FS Works - Subway, Pipe 155m, valve 2 nr, detectors 38 nr, hose reel 1 nr, fire extinguisher 4 nr, connection,	21 14-Jun-17	10-Jul-17	25-Aug-16	19-Sep-16	-225	17			
BS.I_0090	Drainage System - Waste - Existing WSC Stn, 35 m pipe, 2 valve, 4 pit, 1 switch/ control panel, 1 power suppl	18 14-Mar-17	05-Apr-17	24-May-16	14-Jun-16	-187	0			1
BS.I_0090	Drainage System - Waste - Existing Wee Stiff, 35 ff pipe, 2 valve, 4 pir, 1 switch parts, 1 ponts capp. Drainage System - Waste - Subway, Pipe DI/Cl 257+18m, 7 joint, 6 OTC	18 05-Apr-17	29-Apr-17	15-Jun-16	06-Jul-16	-187	0			
BS.I_0110	Drainage System - Rainwater Discharge, CI pipe, 8+18m above/below ground, 2 manholes	18 29-Apr-17	23-May-17	07-Jul-16	27-Jul-16	-187	0		\	
BS.I_0110	Cleansing Water System - Within WAC Station, 137m copper pipe, 3 gate valve, 2 stopcock, 2 water meter	54 14-Mar-17	23-May-17	24-May-16	27-Jul-16	-235	0		<u>L</u>	
	Cleansing Water System - Subway, 87m copper pipe, 1 gate valve, 1 joint	48 23-May-17	20-Jul-17	28-Jul-16	22-Sep-16	-235	0		:::\ <u>\</u>	
■ BS.I_0130 ■ BS.I_0140	Installation of Air Handling Unit	110 14-Mar-17	29-Jul-17	24-May-16	03-Oct-16	-242	0			
	Installation of In-line Centrifugal Fan	110 14-Mar-17	29-Jul-17	24-May-16	03-Oct-16	-242	0		14-1	
■ BS.I_0150	Installation of Smoke Extraction Fan	110 14-Mar-17	29-Jul-17	24-May-16	03-Oct-16	-242	0			
■ BS.I_0160		110 14-Mar-17	29-Jul-17	24-May-16	03-Oct-16	-242	0			
■ BS.I_0170	Installation of Fan Coil Unit	110 14-Mar-17	29-Jul-17	24-May-16	03-Oct-16	-242	0	3 11 11 11 11 11 11 11		
■ BS.I_0180	Installation of Motorized Smoke & Fire damper	110 14-Mar-17	29-Jul-17	24-May-16	03-Oct-16	-242	0			
■ BS.I_0190	Installation & integration of control system	2 22 200 000000000000000000000000000000		04-Oct-16	28-Oct-16	-239	3			
■ BS.I_0200	Remaining BS Works	21 29-Jul-17	23-Aug-17	04-OU-10	03-Oct-16	-153				•
■ INF.SAMSp	Interface Access for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Oct 16)	0	29-Jul-17		03-00-10	-133			 	
Testing and Com		04 00 114=	00 1 1	04.04.40	01 Nov 10	242				
■ BS.TC_0010	T&C ECS - Tests on Ventilation Fans, Air Balancing, Equipment & System, Control, Noise & Sound, etc.	24 29-Jul-17	26-Aug-17	04-Oct-16	01-Nov-16	-242	0			
■ BS.TC_0020	T&C - SAT of HV Sw Boards/ TX, LV Sw Boards & MCC, Lighting Control, etc.	24 29-Jul-17	26-Aug-17	04-Oct-16	01-Nov-16	-242	0 11111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
BS.TC_0030	T&C Fire Services - Performance Test/ FH & HR System/ Auto Fire Alam System	24 29-Jul-17	26-Aug-17	04-Oct-16	01-Nov-16	-242	0			
BS.TC_0040	T&C Plumbing and Drainage - P&D Pumps, Control System	24 20-Jul-17	17-Aug-17	23-Sep-16	22-Oct-16	-235	0			
BS.TC_0050	T&C ELV System - Contol Systems	24 29-Jul-17	26-Aug-17	04-Oct-16	01-Nov-16	-242	0			
■ FSI	FSI - Integrated Test	11 26-Aug-17	08-Sep-17	02-Nov-16	14-Nov-16	-242	0			11111111
Statutory Inspect	ion and Approval									11-2
■ BS.SIA_0010	Submit BA14 for completion of breakthrough	6 19-May-17	26-May-17	01-Aug-16	06-Aug-16	-95	0	SHEERING	16 G (1156	
■ BS.SIA_0020	BD's acknowledgementletter obtained	24 26-May-17	24-Jun-17	08-Aug-16	03-Sep-16	-95	275		\	
■ BS.SIA_0030	DSD/ WSD Inspection and Connection	24 17-Aug-17	14-Sep-17	24-Oct-16	19-Nov-16	-235	7			
■ BS.SIA_0040	Connection for electricity	12 08-Sep-17	22-Sep-17	15-Nov-16	28-Nov-16	-242	0			
BS.SIA_0050	Submit Form 1 and Form 2	1 22-Sep-17	23-Sep-17	29-Nov-16	29-Nov-16	-242	0 11111			+ + +
BS.SIA_0060	FS Inpection / Re-inspection	12 23-Sep-17	10-Oct-17	30-Nov-16	13-Dec-16	-242	0			
BS.SIA_0070	FS Defect Rectification and Approval	12 11-Oct-17	25-Oct-17	15-Dec-16	30-Dec-16	-242	0		1111111111111	
■ BS.SIA_0080	Form 3 Obtained	1 25-Oct-17	26-Oct-17	31-Dec-16	31-Dec-16	-242	0			alleni
BS.SIA_0090	BD Inpection/ Re-inspection	6 26-Oct-17	03-Nov-17	03-Jan-17	09-Jan-17	-242	0			
BS.SIA_0100	EMSD-RB Pre-Inspection by MTRC Ops Team	1 03-Nov-17	04-Nov-17	10-Jan-17	10-Jan-17	-242	0			1 1 1 1 1 1 1 1
BS.SIA_0110	Remedial Works	24 04-Nov-17	02-Dec-17	11-Jan-17	10-Feb-17	-242	119			•
BS.SIA_0120	EMSD-RB Formal Inspection	1 04-May-18	04-May-18	11-Feb-17	11-Feb-17	-361	0			
BS.SIA_0130	Remedial Works & Re-Inspection (If Require)	6 05-May-18	11-May-18	13-Feb-17	18-Feb-17	-361	0			41111111
BS.SIA_0140	EMSD Letter of "No Objection" Obtained/ Ready to Open	6 12-May-18	18-May-18	20-Feb-17	25-Feb-17	-361	0			•113131
BS.SIA_Comp	Complete & pass all statutory, joint Inspection & handover to Operation Team for the BS of new Subway- Prog	0	18-May-18		25-Feb-17	-446	0			\
D. WAC Modifi	cation Works (Part B Works)									
WAC Station Mod										
WMW_0010	Install New Telephone Booth and associated works (NTH)	60 04-Jan-17	17-Mar-17	12-Oct-15	21-Dec-15	-332	30			
■ WMW_0020	Relocate 4 Advertising Panels (NTH)	21 27-Apr-17	23-May-17		25-Feb-16	-343	0			
	Finishing, Remedial works & site cleaning	24 19-Oct-17			27-Aug-16	-361	0			
■ WMW_0030	Finishing, Remedial works & site dearing	21 10 Gal 11	10 1101 11	o r r rag ro				**********		
AFC Audit Room	Interface Access for AFC, C&C DC in new AFC Audit Room inside WAC, Concourse Level (3-May'15)	0	28-Dec-15	A Total Control	25-Apr-15					
INF.AFCp		10 28-Dec-15			23-Jan-15			· · · · · · · · · · · · · · · · · · ·		
■ WMW.AFC_0010		12 04-Jan-16 A			06-Feb-15					
■ WMW.AFC_0020		60 28-Dec-15			25-Apr-15	-				
■ WMW.AFC_0030							Lina 6	a ra ya ra iki ki i	THE PERSON	or egenerati
 Actual Level of Effor 	Critical Remaining Contract C6593-13C Wan Cha	ai Station Lee T	Tung Str	eet Subwa	y					
Primary Baseline		rogram (Rev.C)				5	TT	ıde		55
Actual Work	♦ Milestone	0							A PARTY	
		n (Updated Ending Aug	'16)			25-27	A	FOFE		Sign V
Remaining Work	11021000 1011021011	(Chamitan warrante a valle					The second secon			

6593-	13C LTS MP Rev.C_BL_I	Report (Aug'16)							06-Sep-16_	16:59		
#	Activity ID	Activity Name	Original Duration	Start	Finish	BL Project Sta	rt BL Project Finish	Total Float Free F	loat 2014	2015	2016	2017 2
86	Existing AFC Adui	t Room, Maxim's & Circle K Kiosks		J+32 2								
87	■ WMW.K_0010	Liaison with MTR/ relevance parties for modification works of existing Kiosks & Audit Room	36	27-Apr-15 A	30-Jun-15 A	27-Apr-15	09-Jun-15				اللا	
8	■ WMW.K_0020	Internal Hoarding in WAC station (NTH)	12	31-Aug-16	13-Sep-16	10-Jun-15	24-Jun-15	-362	0			
9	■ WMW.K_0030	Modification Works to existing AFC/Audit, Store & Kiosk 3 & 5 (NTH)	90	14-Sep-16	03-Jan-17	25-Jun-15	10-Oct-15	-362	0			
0		Modification to existing Kiosk 2 (NTH)	90	04-Jan-17	26-Apr-17	12-Oct-15	28-Jan-16	-362	0			
1	ABWF Works & M	lisc Works										
2	WMW.ABWF_0010	ABWF - Plaster & titling 29 m2, baffling ceiling 10 m2, metal dadding 9 m2	70	27-Apr-17	21-Jul-17	29-Jan-16	27-Apr-16	-362	0			
3	Breaking Out WA	C Station										
4	■ WMW.BO_0010	Installation protection measurement for break through	2	22-Jul-17	24-Jul-17	03-May-16	04-May-16	-361	0		No.	
5	■ 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	25-Jul-17	25-Sep-17	05-May-16	09-Jul-16	-361	0		Hilli	
3	■ WMW.BO_0030	Breaking out WAC Station - Installation of temporary steel proping	30	31-Jul-17	02-Sep-17	11-May-16	16-Jun-16	-342	19		-	
7	■ WMW.BO_0040	Breaking out WAC Station - Construct the portal frame	12	26-Sep-17	11-Oct-17	11-Jul-16	23-Jul-16	-361	0		\-	
3	■ WMW.BO_0050	Demolish the propping steel members	6	12-Oct-17	18-Oct-17	25-Jul-16	30-Jul-16	-361	0			11 1 1 1 1 1 1
9	Testing and Comr	missioning										
0	■ WMW.C_0010	Testing and Commissioning	30	24-May-17	28-Jun-17	26-Feb-16	05-Apr-16	-343	19		4	
1	WMW.K_Comp	Specified Part 2B - Complete all works at the 2 new Shop Kiosks and hand over to the Employer - Programme	0		21-Jul-17		27-Apr-16	-446	0		\$	
2	E. WAC Station	Imporvement Works (Part C Works)									Hill illi	
3	Improvement Wor	rks to WAC Station										
4	■ WIW_0010	Modify, provide & install new glass barrier to suit new AFC gates (NTH)	34	12-Oct-15 A	20-Nov-15 A	12-Oct-15	20-Nov-15					
5	■ WIW_0020	Provide and install additional AFC gates (NTH)	34	04-Jan-17	15-Feb-17	21-Nov-15	02-Jan-16	9	0			
3	■ WIW_0030	Provide builder works for TIMS relocation (NTH)	40	17-Nov-17	05-Jan-18	29-Aug-16	17-Oct-16	-361	0			
7	■ WIW_0040	T&C by Designated Contractor for TIMS (NTH)	40	06-Jan-18	24-Feb-18	18-Oct-16	02-Dec-16	-361	0			
8	■ WIW_0050	Make Good builder works for TIMS (NTH)	53	26-Feb-18	03-May-18	03-Dec-16	09-Feb-17	-361	0			4
9	■ WIW Comp	E3- All works in milestone E completed - Programmed	0		03-May-18		09-Feb-17	-447				<u> </u>

Remaining Work

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

Master Program (Rev. C)

Progress vs Program (Updated Ending Aug'16)

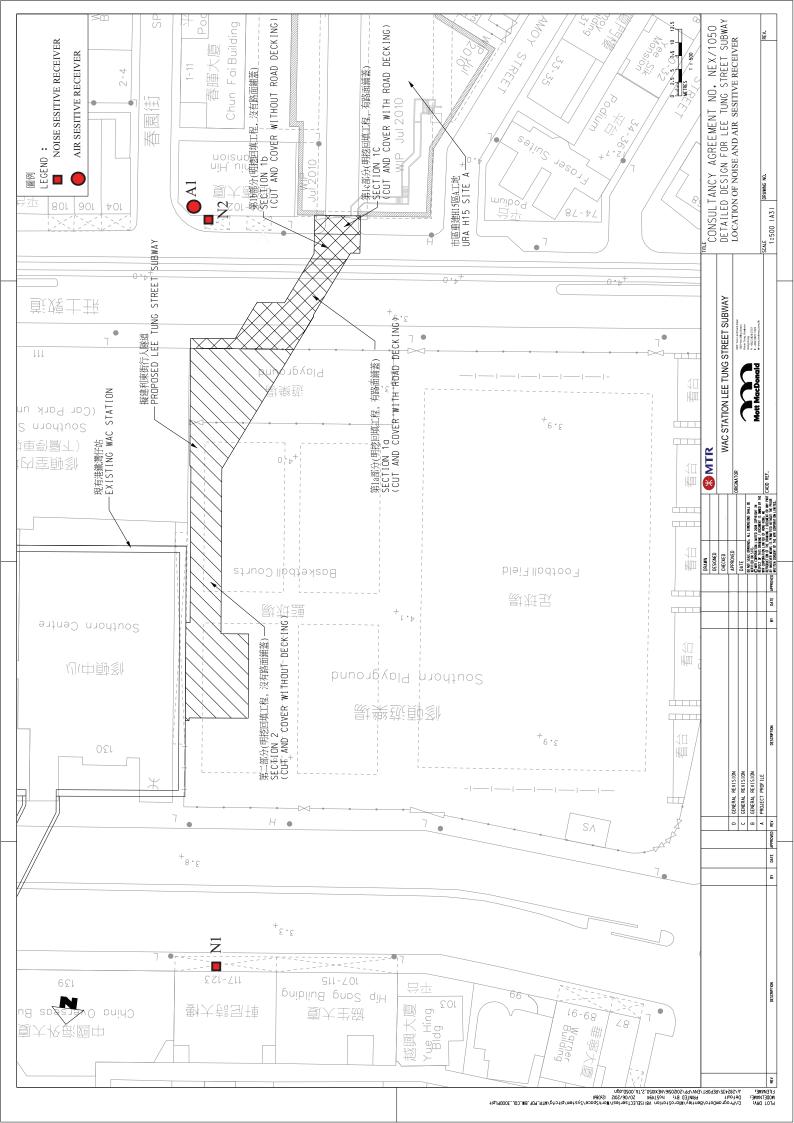






Appendix D

Monitoring Locations





Appendix E

Event and Action Plan



Event and Action Plan for Construction Noise

E4		Action		
Event	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor. 2. Carry out investigation. 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.	1. Review the analyzed result submitted by ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implementation of remedial measures.	甲、 Confirm receipt of notification of exceedance 乙、 Notify Contractor 丙、 Require Contractor to propose remedial measures for the analyzed noise problem 丁、 Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IEC Implement noise mitigation proposals
Limit Level	1. Notify IEC, ER, EPD and Contractor, and follow other actions 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Check Contractor's working procedures to determine possible mitigation to be implemented 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, ER informed of the results 8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of exceedances 2. Notify Contractor 3. Require Contractor to propose remedial measures 4. Ensure remedial measures are properly implemented 5. 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.	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notifications 3. Implement the agreed proposals 4. Revise and resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated



Event and Action Plan for Air Quality

Event				
	ET	IEC	ER	Contractor
Action Level			T	
Exceedance for one sample	1. Identify source; 2. If valid, inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate
Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and EPD; 3. Repeat measurements to 1. confirm findings; 4. Increase monitoring frequency to daily; 5. Discuss with IEC and Contractor on remedial action required; 6. If exceedance continues, arrange meeting with IEC and ER; 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial Measure properly implemented.	1. Submit proposals for remedial action to IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level			T	
Exceedance for one sample	1. Identify source; 2. Inform ER and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and the Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify sources; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops cease additional monitoring.	1. Discuss amongst ER, ET and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

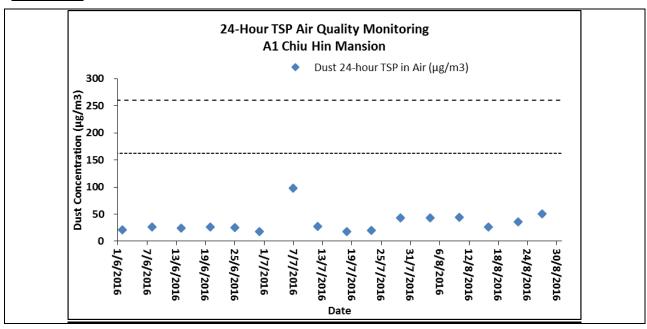


Appendix F

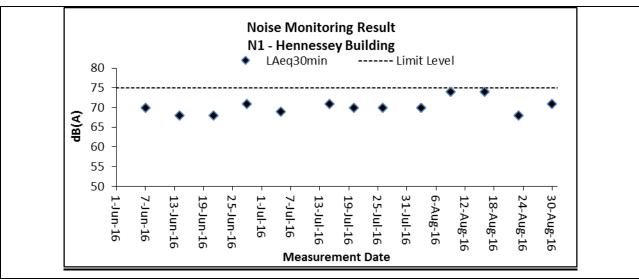
Graphical Plots

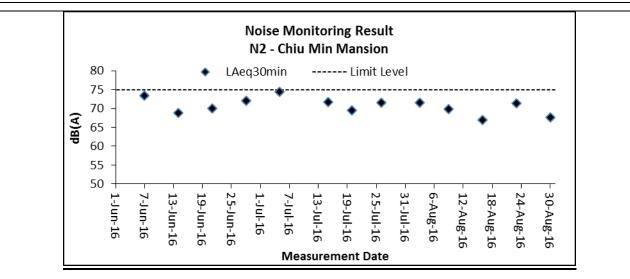


Air Quality



Construction Noise







Appendix G

Meteorological Information



		Meteorological Data downloaded from H	KO in the	Reporting	, Period		
			Total		Kings	Park Station	
Date	e	Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	
1-Jun-16	Wed	Hot with sunny periods and a few showers	0	29.8	10	81.5	W
2-Jun-16	Thu	Moderate southeasterly winds	0	30.4	9	78.7	W/NW
3-Jun-16	Fri	Moderate south to southwesterly winds	Trace	30.7	10.8	79.5	W/NW
4-Jun-16	Sat	Hot with sunny periods and a few showers	12.4	28.9	9.2	80.3	W/NW
5-Jun-16	Sun	Moderate southeasterly winds	7.6	27.4	10	81	W/NW
6-Jun-16	Mon	Moderate south to southwesterly winds	77.6	26.3	8.6	87	E/NE
7-Jun-16	Tue	Mainly cloudy with isolated heavy showers and squally thunderstorms.	0.4	28.4	7.7	84	E/SE
8-Jun-16	Wed	Cloudy with showers and a few squally thunderstorms.	46.5	26.9	8.2	85.7	E/SE
9-Jun-16	Thu	Moderate south to southwesterly winds	Trace	28.6	9.2	82.2	SE
10-Jun-16	Fri	Hot with sunny periods and a few showers	9.1	28.7	7.8	83.7	E/SE
11-Jun-16	Sat	Moderate southeasterly winds	85.5	26.1	7.5	85.3	W/NW
12-Jun-16	Sun	Moderate south to southwesterly winds	28.2	26.8	6.5	92.2	W/NW
13-Jun-16	Mon	Hot with sunny periods and a few showers	0.1	29.8	7.5	84.7	W/NW
14-Jun-16	Tue	Moderate southeasterly winds	Trace	30.4	8.7	80.7	W/SW
15-Jun-16	Wed	Moderate south to southwesterly winds	0.6	29.9	9.9	80.5	SW
16-Jun-16	Thu	Mainly cloudy with isolated heavy showers and squally thunderstorms.	2.8	29.3	8.5	83.2	W
17-Jun-16	Fri	Cloudy with showers and a few squally thunderstorms.	2.5	29.6	10	81.5	W/NW
18-Jun-16	Sat	Moderate south to southwesterly winds	13.1	29.1	9.5	78	E/SE
19-Jun-16	Sun	Hot with sunny periods and a few showers	0	29.8	8.5	75.5	E/SE
20-Jun-16	Mon	Moderate southeasterly winds	Trace	30.7	7.3	76.2	S/SE
21-Jun-16	Tue	Moderate south to southwesterly winds	0	30.5	7.2	73.2	S/SE
22-Jun-16	Wed	Hot with sunny periods and a few showers	0	30.1	9.1	75.5	W/NW
23-Jun-16	Thu	Moderate southeasterly winds	0	30.1	7.6	70.5	W/NW
24-Jun-16	Fri	Moderate south to southwesterly winds	0	30.8	8.2	69	W/NW
25-Jun-16	Sat	Mainly cloudy with isolated heavy showers and squally thunderstorms.	0	31.1	8	70.3	E/SE
26-Jun-16	Sun	Cloudy with showers and a few squally thunderstorms.	Trace	30.9	7.3	71.7	E/SE
27-Jun-16	Mon	Moderate south to southwesterly winds	1.7	30.9	9	74.7	SE
28-Jun-16	Tue	Hot with sunny periods and a few showers	37.1	28.6	11.2	83.2	W/NW
30-Jun-16	Thu	Hot with sunny periods and a few showers	1.8	29.5	10	82.7	SE



		Meteorological Data downloaded from H	KO in the	Reporting	Period		
		Ü				Park Station	
Date	e	Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	
1-Jul-16	Fri	Fine and very hot. Light to moderate easterly winds.	3.4	29.6	6.5	79	S
2-Jul-16	Sat	Fine and very hot. Light to moderate easterly winds.	20.8	28.7	7	82	S
3-Jul-16	Sun	Fine and very hot. Light to moderate easterly winds.	2.7	28.7	7.5	80.7	S
4-Jul-16	Mon	Fine and very hot. Light to moderate easterly winds.	3.8	29.8	13.5	80.7	S
5-Jul-16	Tue	Fine and very hot. Light to moderate easterly winds.	9.8	28.2	10.6	80.5	E/SE
6-Jul-16	Wed	Fine and very hot. Light to moderate easterly winds.	33.6	26.4	8.5	89.2	SE
7-Jul-16	Thu	Fine and very hot. Light to moderate easterly winds.	Trace	30.4	9	72.2	E/SE
8-Jul-16	Fri	Fine and very hot. Light winds.	0	30.9	7	71.5	W/NW
9-Jul-16	Sat	Fine and very hot. Light winds.	10.3	29.3	8	75	N/NW
10-Jul-16	Sun	Fine and very hot. Light winds.	1.7	27.7	6.5	78.5	N/NW
11-Jul-16	Mon	Fine and very hot. Light winds.	11.7	28.2	9.5	84.2	W/NW
12-Jul-16	Tue	Fine and very hot. Light winds.	0.1	27.6	6.1	85	W/NW
13-Jul-16	Wed	Fine and very hot. Light winds.	35.2	28.1	8.2	86.2	W/NW
14-Jul-16	Thu	Fine and very hot. Light winds.	10.2	27.8	8	86.7	W/SW
15-Jul-16	Fri	Fine and very hot. Light winds.	1	30.2	8.5	78.7	W/NW
16-Jul-16	Sat	Fine and very hot. Light winds.	0.3	30.7	7.5	79	SW
17-Jul-16	Sun	Fine and very hot. Light winds.	0	30.7	9.1	74.2	SW
18-Jul-16	Mon	Fine and very hot. Light winds.	0.6	30.3	7.6	71.5	W/SW
19-Jul-16	Tue	Fine and very hot. Light winds.	4.4	28.7	11	82.5	SW
20-Jul-16	Wed	Fine and very hot. Light winds.	16.8	28.4	10.6	78.5	SW
21-Jul-16	Thu	Fine and very hot. Light winds.	0.3	29.9	8.2	76	W/NW
22-Jul-16	Fri	Fine and very hot. Light winds.	0	30	8.4	76	W/NW
23-Jul-16	Sat	Fine and very hot. Light winds.	0	30	8.4	77	W/NW
24-Jul-16	Sun	Fine and very hot. Light winds.	0	30.4	8.6	72	W/NW
25-Jul-16	Mon	Sunny periods tomorrow with a few squally showers later.	0	30.8	8.3	74	W/NW
26-Jul-16	Tue	Fine and very hot. Light winds.	8	29.4	10.3	84	W/NW
27-Jul-16	Wed	Fine and very hot. Light winds.	Trace	30.2	9.1	76	W/NW
28-Jul-16	Thu	Fine and very hot. Light winds.	0	30.1	7	74	W/NW
29-Jul-16	Fri	Fine and very hot. Light winds.	0	30.3	5.6	74	W/NW
30-Jul-16	Sat	Fine and very hot. Light winds.	Trace	29.9	7.8	74	W/NW
31-Jul-16	Sun	Fine and very hot. Light winds.	1.2	30.1	8.8	74	W/NW



		Meteorological Data downloaded from H	KO in the	Reporting	g Period		
			Total		Kings	Park Station	T
Date	9	Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	
1-Aug-16	Mon	Very hot during the day	4.6	29.7	14.7	77	W/SW
2-Aug-16	Tue	Mainly fine apart from isolated showers.	12.1	27	37.5	82.5	S/SE
3-Aug-16	Wed	Light to moderate southwesterly winds.	17.3	25.7	15.3	93.7	E/SE
4-Aug-16	Thu	Very hot during the day	20.9	28.1	12.9	89	E/NE
5-Aug-16	Fri	Mainly fine apart from isolated showers.	Trace	28.3	12.7	86	E/NE
6-Aug-16	Sat	Very hot with sunny periods.	0	30.5	11.9	77	E/NE
7-Aug-16	Sun	Very hot with sunny periods.	0	30.6	10.5	79	W/SW
8-Aug-16	Mon	Very hot with sunny periods.	0	30.7	11.5	80.5	W/SW
9-Aug-16	Tue	Very hot with sunny periods.	33.5	30.5	11.6	82.5	W/SW
10-Aug-16	Wed	Mainly cloudy with a few showers. Light winds.	39.8	26.5	20.5	88.7	SE
11-Aug-16	Thu	Mainly cloudy with a few showers. Light winds.	42.1	27.2	13	88.5	E/NE
12-Aug-16	Fri	Very hot with sunny periods.	0.4	27.5	7.5	90.5	S/SE
13-Aug-16	Sat	Sunny intervals in the afternoon. Mainly cloudy tonight	Trace	29.6	11.2	84	S/SE
14-Aug-16	Sun	Moderate east to southeasterly winds.	25.7	27.9	13.5	88	E/NE
15-Aug-16	Mon	Sunny intervals in the afternoon. Mainly cloudy tonight	19.1	27	7.6	91	E/NE
16-Aug-16	Tue	Sunny intervals in the afternoon. Mainly cloudy tonight	49.9	26.5	7.5	93.5	N/NE
17-Aug-16	Wed	Sunny intervals in the afternoon. Mainly cloudy tonight	40.9	27.3	21.6	91.2	E/NE
18-Aug-16	Thu	Moderate east to southeasterly winds.	50.9	27.2	16.5	88.7	E/SE
19-Aug-16	Fri	Sunny intervals in the afternoon. Mainly cloudy tonight	10.5	29.3	15	78.5	SE
20-Aug-16	Sat	Very hot with sunny periods.	3.8	30.1	12.3	88	SE
21-Aug-16	Sun	Sunny intervals in the afternoon. Mainly cloudy tonight	39.9	26.5	11.5	88	W/SW
22-Aug-16	Mon	Sunny intervals in the afternoon. Mainly cloudy tonight	0	29.6	8.5	78.2	E/NE
23-Aug-16	Tue	Sunny intervals in the afternoon. Mainly cloudy tonight	0	29.3	9.7	80	W/SW
24-Aug-16	Wed	Moderate east to southeasterly winds.	0	29.5	8.6	75	W/SW
25-Aug-16	Thu	Sunny intervals in the afternoon. Mainly cloudy tonight	0	30.5	9.5	77	W/SW
26-Aug-16	Fri	Very hot with sunny periods.	0	29.2	10.5	71.7	W/SW
27-Aug-16	Sat	Sunny intervals in the afternoon. Mainly cloudy tonight	3.5	29.3	11.3	79	E/NE
28-Aug-16	Sun	Mainly cloudy with isolated showers.	8.7	27.9	12.3	80.5	E/NE
29-Aug-16	Mon	Mainly cloudy with isolated showers.	Trace	26.1	15	75	E/NE
30-Aug-16	Tue	Dry with sunny periods in the afternoon.	Trace	28.0	14	84	E/NE
31-Aug-16	Wed	Dry with sunny periods in the afternoon.	0	29.1	15	83	E/NE



Appendix H

Waste Flow Table

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

Monthly Summary Waste Flow Table for 2016

Name of Emp	Name of Employer: MTR Corporation Limited							Contract No.: C65931-13C												
	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-Inert C&D Wastes Generated Monthly Actual Quantities of Non-Inert C&D Wastes Generated Monthly						ed Monthly						
Month	Total Quantity Generated	Broken Concrete	Building Debris	Mixed Rock & Soil	Bentonite	Rubbish	Slurry	Rock	Soil	Reused in this Project	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m3/ Litre)	(in m³)	(in ton)	(in ton)	(in ton)	(in Litre)	(in ton)
Jan	0.01559	0	0	0	0	0	0	0	0.01559	0	0	0	0	0	0.001	0	0	0	0	0
Feb	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0.007	0	0	0	0	0
Mar	0.03685	0	0	0	0	0	0	0	0.03685	0	0	0	0	0	0.001	0	0	0	0	0
Apr	0.03399	0	0	0	0	0	0	0	0.03399	0	0	0	0	0	0.001	0	0	0	1.2	0
May	0.09171	0	0	0	0	0	0	0	0.09171	0	0	0	0	0	0.001	0	0	0	0	0
Jun	0.90981	0	0	0	0	0	0	0	0.90981	0	0	0	0	0	0.001	0	0	0	0	0
Jul	0.36411	0	0	0	0	0	0	0	0.36411	0	0	0	0	0	0.02	0	0	0	0	0
Aug	0.12377	0	0	0	0	0	0	0	0.12377	0	0	0	0	0	0.001	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Total	1.58283	0	0	0	0	0	0	0	1.57583	0	0	0	0	0	0.033	0	0	0	1.2	0



Appendix I

Implementation Schedule for Environmental Mitigation Measures (ISEMM)



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	PACT					
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; Barrier material of surface mass in excess of 7kg/m² shall be required to 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 has being the of a hearing should be such that accept of the participant of the principant has all the principant of the principant has all the principant of the participant has all the participant of the participant of the participant has all the participant of the participant has all the participant of the participant of the participant has all the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant of the participant	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93, Noise Control Ordinance and EIAO Guidance Note NO. 9/2010
	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	To minimize	Contractor	Work site	Construction Stage	ProPECC PN2/93
	• 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;	construction noise emissions				and Noise Control Ordinance
	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;					



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	ITY 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;	impacts arising from the construction works			Stage	Control (Construction Dust) Regulation
	• Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers;					
	• 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					



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	UALITY 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	ANAGEMENT		ı			
S.5.1.4	Construction Waste Management Measures	To adopt waste	Contractor	Work site	Construction	Waste Disposal
	Scrap metals or abandoned equipment should be recycled if possible;	management measures in the way			Stage	Ordinance (Cap. 354); Waste Disposal (Chemical Waste) (General)
	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 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;					Regulation; DEVB TCW No. 6/2010; ETWB TCW No. 19/2005.
	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; Protection of all trees planned to be retained onsite;	To reduce landscape and visual impact by construction works.	Contractor	Work Site and nearby playground	Construction Stage	EIAO; ETWB TCW No. 3/2006.
	 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. 					