



Maeda Corporation

MONTHLY REPORT (FEBRUARY 2019)

MTRCL Contract C3840-13C

Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works



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By Email and Post

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

Attn.: Mr. Alfa Liu

8 March 2019

Dear Sirs,

Consultancy Agreement A130-13 Independent Environmental Checker for CRS and LTS CRS - Verification for 60th Monthly Environmental Monitoring and Audit (EM&A) Report (February 2019) (Report No.: EB001340R0811)

We refer to the 60th Monthly EM&A Report (February 2019) received under cover of the email from the Environmental Team, Arcadis Design & Engineering Limited, dated on 7 March 2019.

Further to our comments provided on 8 March 2019 and subsequent revision of the Report by Arcadis Design & Engineering Limited on 8 March 2019, we have no further comment and have verified the captioned report (Report No.: EB001340R0811).

Should you have any queries, please feel free to contact the undersigned at 3922 9366.

Yours faithfully **AECOM Consulting Services Ltd**

Y. W. Fung Independent Environmental Checker

LLMC/wwsc

cc Arcadis Design & Engineering Limited (Attn.: Mr. F. N. Wong) via email Maeda Corporation (Attn.: Mr. Calvin Chan) via email



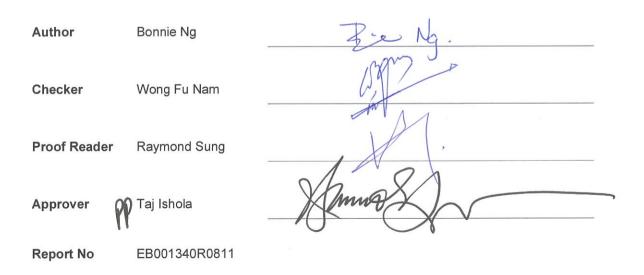


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MTRCL Contract C3840-13C

Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works



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EXECUTIVE SUMMARY

Breaches of Action and Limit Levels

- ES01 As the environmental monitoring results registered no breaches of Action and Limit Levels of air quality and construction noise during the Reporting Period, neither Notice of Exceedance nor the associated investigation and follow-up actions were required.
- ES02 No major corrective actions were taken as the environmental audit during the Reporting Period observed:
 - 1) No deficiencies with major environmental significance of the required environmental mitigation measures;
 - 2) No non-compliance with the required waste management; and
 - 3) No adverse environmental impacts on the sensitive receivers environed with the site of the Project.

Environmental Complaints

ES03 No environmental complaints were recorded during the Report Period.

Notification of Summons & Successful Prosecutions

ES04 No notification of summons and successful prosecutions were recorded during the Reporting Period.

Changes of EM&A Program

- ES05 1-Hr TSP monitoring at K11 continued during the Reporting Period. The proposed change of monitoring parameter was approved by EPD under the EP Condition 3.1 of EP No. EP-440/2012.
- ES06 The proposed termination of the EM&A programme was approved by EPD on 27 February 2019 after substantial completion of the construction under the Project.

Future Key Issues

- ES07 The construction work under the Project has been substantially completed while the Reinstatement of Carnarvon Road and the Entrance D2 have been completed and re-opened to the public. Entrance D1 has also been completed which will be re-opened shortly subject to final inspection by BD.
- ES08 The remaining works to be carried out in the near future comprises only very minor defective work within Entrance D1 with insignificant environmental impacts anticipated. No particular corrective actions or remedial measures are therefore required.

1 INTRODUCTION

1.1 Project Background

- 1.1.1 In order to improve the appearance of Carnarvon Road Entrance D1 and D2 of Tsim Sha Tsui Station (hereafter referred as 'TST') and to provide a more comfortable walking environment nearby, MTR Corporation Limited (hereafter referred as 'MTRCL') proposed the MTRCL Contract C3840-13C Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works (the Project) and commissioned Meada Corporation as the Contractor (hereinafter referred as 'MC' or the 'Contractor') to implement the construction of the Project.
- 1.1.2 The Project was proposed to rebuild the existing Entrance D1 and D2 and construct a new Entrance D3 at the basement B2 level of the K11 Art Mall to connect to the TST station by a subway, which extended from the Entrance D1 and D2 and ran approximately 80m along Carnarvon Road and across the Bristol Avenue to the Entrance D3.
- 1.1.3 The existing TST Station was in operation before the Environmental Impact Assessment Ordinance (hereafter referred as 'EIAO') was effective on 1 April 1998. It constituted an exempted Designated Project (hereinafter referred as 'DP') according to Section 9(2) (g) of the EIAO (Cap. 499). As the Project involved a material change to an exempted DP which might have potential environmental impacts, an environmental permit was required prior to the commencement of the modification works. The Project Profile (PP-462/2012) (hereinafter referred as 'PP') was developed to provide information for direct application of an environmental permit (hereinafter referred as 'the EP'). The EP No. EP-440/2012EP was granted on 18 July 2012.
- 1.1.4 Site map, works area and locations of the environmental monitoring under the Project are illustrated in Figure 1.1 Site Location Plan of *Appendix A*.
- 1.1.5 Management structure of the Project, including organization chart, lines of communication and contact names and telephone numbers of key personnel, are demonstrated in *Appendix B*.
- 1.1.6 Construction programme is shown in *Appendix C*, whereas implementation schedule for the recommended environmental mitigation measures (hereinafter referred as 'the Implementation Schedule') are summarised in *Appendix D*, which fine tuned the construction activities and showed inter-relationships with the environmental protection/ mitigation measures for the construction period. Where appropriate, the construction programme was continuously reviewed and updated upon availability of more solid information.
- 1.1.7 This is the 60th monthly EM&A report (hereinafter referred as 'This Report'). According to EPD's approval for termination of the EM&A programme under the Project granted on 27 February 2019, no EM&A activities will be conducted in March 2019 and thereafter. This Report will therefore be the last monthly EM&A report under EP-440/2012.
- 1.1.8 This Report was written in accordance with the Environmental Monitoring and Audit Plan (hereinafter referred as 'the EM&A Plan') enclosed in the Project Profile – MTR Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works, which is registered in the Environmental Permit No. EP-440/2012 (hereinafter referred as 'the EP') (Register No.: PP-462/2012). This Report presents the construction and EM&A activities conducted from 1st to 28th February 2019 (hereinafter referred as 'the Reporting Period'), after substantial completion of the construction under the Project in December 2018.

1.2 Construction Activities

Substantial Completion of the Construction Activities

1.2.1 The construction work under the Project has been substantially completed while the Reinstatement of Carnarvon Road and the Entrance D2 have been completed and re-opened to the public. Entrance D1 has also been completed which will be re-opened shortly subject to final inspection by BD.

Remaining Construction Activities

1.2.2 The remaining minor construction activities undertaken during the Reporting Period and thereafter are summarised in *Table 1-4-1*:

Table 1-4-1 Construction Activities

ltem	Description
	Construction Activities Undertaken during the Reporting Period
1	Southern Pedestrian footpath reinstatement
	Construction Activities to be Undertaken in the Up-Coming Month
2	Defective works for Entrance D1

1.3 Environmental Status

EM&A Personnel

1.3.1 In compliance with the EP conditions, AECOM Consulting Services Limited was appointed as the Independent Environmental Checker under the Project (hereinafter referred as 'the IEC'), whereas Arcadis Design and Engineering Limited (formerly known as Hyder Consulting Limited) was appointed as the Environmental Team under the Project (hereinafter referred as 'the ET').

Baseline Monitoring

- 1.3.2 According to the conditions set out in clauses 3.2(a) and (b) of the EP and the associated PP and EM&A Plan, the baseline monitoring was conducted between 10th and 24th January 2014 prior to commencement of the works under the Project.
- 1.3.3 The Baseline Monitoring Report, certified by the ET Leader and verified by the IEC, was submitted to EPD with cover letter ref. EB001340R0022 dated 14th February 2014, where the environmental quality performance limits (Action and Limit Levels (hereinafter referred as "the AL Levels") were established according to Table 3.1 of the PP, Typical Action and Limit Levels for Air Quality, for implementation of the Event and Action Plan as shown in *Appendix F*.

Status of Environmental Permits/License/Notification

1.3.4 Status of relevant environmental permits, licences, and/or notifications on environmental protection for the Project are detailed in *Appendix E*. They are summarised in *Table 1-3-1* below.

ltem	Description	License/Permit Status
1	Air Pollution Control (Construction Dust)	Notification Ref. 403252, 421293 & 433242 acknowledged on 02 Jun 2016, 18 Sep 2017 & 07 May 2018 respectively
2	Water Pollution Control Ordinance (Discharge License)	The discharge license (Ref No. WT00019722-2014) was granted on 01 Sep 2014 superseding the previous license (Ref No. WT00018229-2014)
3	Billing Account for Disposal of Construction Waste	A/C Ref. 7018523 granted on 25 Oct 2013
4	Chemical Waste Producer Registration	Registration Ref. 5213-2214-M2446-16 granted on 4 Mar 2014

Table 1-3-1 Summary of Status of Environmental Licenses and Permits

Termination of the EM&A Programme under the Project

- 1.3.5 Termination of the construction dust and noise monitoring programme under the Project was proposed after substantial completion of the construction under the Project. It has been certified by the ET Leader and verified by the IEC.
- 1.3.6 EPD's approval for the proposed termination of the EM&A programme (construction dust and noise monitoring) under the Project was granted on 27th February 2019 after the joint site visit conducted on 20th February 2019 by the representatives of EPD, MTRCL, IEC, ETL and Maeda. The rationale for termination of the EM&A programme is summarized as follows:
 - a) The construction of subway and entrances of TST Station was substantially completed except some minor defects rectification works;
 - b) Construction dust and noise monitoring have been conducted in accordance with the EM&A Plan. All the monitoring results complied with the AL Levels since the commencement ofrnouitoring and the monitoring results demonstrated that the ambient TSP levels and noise levels have been reinstated;
 - c) There is no environmental prosecution and outstanding environmental complaints against the construction works; and
 - d) During the process of hand over and re-opening of Carnarvon Road in December 2018, relevant government departments and local communities (including nearby buildings such as K11 and Mirador Mansion) were consulted through email or teleconversation about the project and environmental monitoring activities. No comments on such arrangement were recorded.

2 EM&A REQUIREMENTS

2.1 Air Quality

Monitoring Location

- 2.1.1 According to the EM&A Plan, Mirador Mansion was designated to be the air quality monitoring station of the Project. As the access to the air monitoring location designated in the EM&A Plan was denied by the owner of the property, the ET proposed an alternative monitoring location on the roof-top above the 4/F of the commercial complex of K11 (hereinafter referred as 'K11'), which was agreed among MTRC, IEC and MC, and the associated access to K11 was granted by the management office of K11 prior to the commencement of the baseline monitoring in January 2014.
- 2.1.2 Air quality monitoring location is summarised in *Table 2-1-1* and illustrated in *Appendix A*.

Table 2-1-1 Air Quality Monitoring Location

Location ID	Name of Premises	Description
K11	K11 Art Mall	Rooftop, 4/F

Monitoring Parameters

2.1.3 According to the EM&A Plan, 24-Hour Total Suspended Particulates (hereinafter referred as '24hr TSP') is required to be monitored once a week during construction period of the Project. 1-hr Total Suspended Particulates (hereinafter referred as '1-hr TSP') is required to be monitored when exceedances of 24-Hr TSP occur, following the Event and Action Plan presented in *Appendix F*.

Change of Monitoring Parameters

- 2.1.4 Since 21st September 2018, the 24-hr TSP monitoring by high volume sampler (HVS) at K11 had been replaced by 3 x 1-hr TSP monitoring by portable dust meter for the rationale as follows:
 - a) the HVS was damage by the typhuon Mangkhut on 16 Sept 2018;
 - b) reinstatement of the damaged HVS involved permission from the landlord and establishment of a safe access to the HVS, which would take time and unlikely be completed by December 2018, when the construction under the Project would had been substantially completed; and
 - c) monitoring datad to date recorded no exceedences of the 24-Hr TSP AL Levels and no significant environmental impacts were anticipated for the remaining construction works.
- 2.1.5 The proposed change of monitoring parameter for the remaining construction period, which was certified by the ET Leader and verified by the IEC, was approved by EPD under the EP Condition 3.1 of EP No. EP-440/2012.

Monitoring Schedule

- 2.1.6 Environmental monitoring schedules for air quality for the Reporting Period and the upcoming month were prepared and distributed to the MTRC, IEC and MC prior to implementation via e-mail and/or facsimile as appropriate. (No environmentI monitoring was scheduled for March 2019 as the EM&A programme under the Project has been terminated. (Refer toprevious Section 1.3.6)
- 2.1.7 If amendment is necessary under ad hoc conditions, including actual and broadcast adverse weather, accidental instrument failures, etc., notification will be given at least 24 hours prior to implementation or as practical as possible. The monitoring schedule is enclosed in *Appendix G*.

Monitoring Equipment

2.1.8 The air quality monitoring equipment to be used for construction air impact monitoring is shown in *Table 2-1-2* below:

Table 2-1-2 Air Quality Monitoring Equipment

Equipment Type	Model	Serial Number
Personal Aearosal Monitor	SITEPAC [™] AM520	5201707005

2.1.9 Weather information, including wind speeds and wind directions, was extracted from King's Park Weather Station. The weather information was used as weather conditions during the Reporting Period. They are presented in *Appendix H*.

Calibration of Monitoring Equipment

2.1.10 The SITEPACTM AM520 for 1-Hr TSP monitoring should be calibrated annually and the calibration certificates of the equipment are shown in *Appendix I*.

Monitoring Methodology

Field Monitoring Procedures

- 2.1.11 The procedures for measurement of 1-Hr TSP followed Manufacturer's Instruction Manual. They are summarised as follows:
 - a) Install the battery and secure with screw;
 - b) Check the battery and charge as appropriate;
 - c) Select Impacttor and sintered disk if needed;
 - d) Power on;
 - e) If using impactor, verify 1.7 L/min flow rate with the flow calibrator;
 - f) Zero Cal the equipment;
 - g) Select calibration factor if needed (Factory default = 1.0)
 - h) Select Run Mode;
 - i) Select Manual Mode (Survey Mode does not log data); and
 - j) Download logged data and record them in the 1-hr TSP Monitoring Field Record Sheet.

Maintenance and Calibration

- 2.1.12 The procedures for maintenance and calibration of the 1-Hr TSP meter (SITEPACTM AM520) followed the Manufacturer's Instruction Manual. They are summarized as follows:
 - a) The SITEPACTM AM520 should be calibrated at 1-year intervals throughout the whole environmental monitoring period.
 - b) Calibration certificate for the SITEPACTM AM520 direct dust meters is shown in *Appendix I*.

Action and Limit Levels

2.1.13 The AL Levels established in the Baseline Monitoring Report in accordance with the derivation criteria specified in Section 3.7 of the EM&A Plan as extracted in *Table 2-1-3* as follows:

Table 2-1-3 Derivation of Action and Limit Levels for Air Quality at K11, µg/m³

Parameter	Action Level	Limit Level
1-Hr TSP	For baseline level ≤ 384 µg/m³, Action level = (130% of baseline level + Limit level)/2 For baseline level >384 µg/m³, Action level = Limit level	500

2.1.14 As the 1-Hr TSP baseline level at K11 was updated, the 1-Hr TSP AL Levels is calculated by adoption of the worst case approach as follows:

According to Table 2-1-3 (1-Hr TSP):

- Hr TSP Limit Level = $500 \ \mu g/m^3$
- In adopting the worst case approach, let the 1-Hr TSP baseline level = 0 (\leq 384 µg/m³)
- 1-Hr TSP Action Level = $(130\% \text{ of Baseline Level} + \text{Limit Level}) \div 2 = (0 + 500) \div 2 = 250$
- 2.1.15 The established AL Levels for 1-Hr TSP are summarised in *Table 2-1-4* as follows:

Table 2-1-4 Action & Limit Levels for Air Quality at K11, µg/m³

Parameter	Action Level	Limit Level
1-Hr TSP	250	500

Event and Action Plan

2.1.16 In case exceedances of the AL Levels for air quality occur, Event and Action Plan for Air Quality enclosed in *Appendix F* should be implemented.

Environmental Mitigation Measures for Air Quality

- 2.1.17 Although most of the construction works would be carried out underground, appropriate dust mitigation measures as stipulated in the EP, Project Profile, related environmental regulation including Air Pollution Control (Construction Dust) Regulation and those recommended in the Implementation Schedule should be implemented to control fugitive dust emission. The key dust suppression measures are summarized as follows:
 - a) Decking over the excavation areas;
 - b) Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather;
 - c) Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers;
 - d) Provision of vehicle washing facilities at the exit points of the site; and
 - e) Provision of tarpaulin covering for any dusty materials on a vehicle leaving the site.

2.2 Construction Noise

Monitoring Parameters

2.1.1 *Table 2-2-1* summarizes the monitoring parameters and frequency for construction noise:

Table 2-2-1 Noise Monitoring Parameters and Frequency

Parameters	Frequency
<i>L_{eq}</i> in 30 minutes	Once a week

Monitoring Schedule

- 2.1.2 Environmental monitoring schedules for construction noise for the Reporting Period and the upcoming month were prepared and distributed to the MTRC, IEC and MC prior to implementation via e-mail and/or facsimile as appropriate. (No environmentI monitoring was scheduled for March 2019 as the EM&A programme under the Project has been terminated. (Refer to the previous **Section 1.3.6**)
- 2.1.3 If amendment is necessary under ad hoc conditions, including actual and broadcast adverse weather, accidental instrument failures, etc., notification will be given at least 24 hours prior to implementation or as practical as possible. The monitoring schedule is enclosed in *Appendix G*.

Monitoring Equipment

2.1.4 With reference to the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications (both publications have been withdrawn and replaced by 61672:2003) are used for carrying out the noise monitoring. Details of the sound level meters and calibrators are summarized in the following **Table 2-2-2**:

Table 2-2-2	Construction	Noise Monitoring	Equipment
		nelee menneling	

ltem	Equipment Name	Model
1	Sound Level Meter	B&K2238 (Serial No. 2562782)
2	Acoustic Calibrator	CAL200 (Serial No. 10929)

Monitoring Location

2.1.5 As agreed among MTRC, IEC and MC, the construction noise monitoring was performed at K11 as summarized in *Table 2-2-3* and illustrated in *Appendix A*.

Table 2-2-3 Noise Monitoring Location

Location ID	Name of Premises	Description
K11	K11 Art Mall	Rooftop, 4/F

Monitoring Methodology

Field Monitoring

- 2.1.6 Procedures for noise monitoring are summarised as follows:
 - a) The microphones of the Sound Level Meter should be about 1 m from the exterior of the building façade, or a free field correction of +3dB(A) should be made to the results of the noise measurement.
 - b) The battery condition should be checked to ensure the correct functioning of the meter.
 - c) Parameters such as frequency weighting, the time weighting, the measurement time and monitoring frequency should be set as follows:
 - i. Frequency weighting: A
 - ii. Time weighting: Fast
 - iii. Time measurement: 30 minutes' intervals (between 0700-1900 on normal weekdays)
 - iv. Monitoring frequency: one set of measurement on a weekly basis
 - d) Prior to and after each noise measurement, the meter should be calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement should be considered invalid and the measurement should be repeated after re-calibration or repair of the equipment.
 - e) During the monitoring period, the Leq(30 min) should be recorded.
 - f) All monitoring information should be recorded on a Field Data Sheet as shown in *Appendix J*.

Maintenance and Calibration.

2.1.5 The Sound Level Meter and calibrator should be sent to the supplier or a HOKLAS laboratory to check and calibrate prior to the monitoring. Calibration records are presented in *Appendix I*.

Weather Condition

2.1.6 The wind speeds and directions during the monitoring period should be recorded as shown in *Appendix H*.

Action and Limit Levels

2.1.7 The AL Levels established in the Baseline Monitoring Report are summarised in *Table 2-2-4* as follows:

Table 2-2-4 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one valid documented complaint is received.	75*

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

Event and Action Plan

2.1.8 In case exceedances of AL Levels for construction noise occur, the Event and Action Plan enclosed in *Appendix F* should be triggered.

Mitigation Measures for Construction Noise

- 2.1.9 Although no residual noise impact would be generated after the proposed mitigation measures were in place, the general construction noise control measures stipulated in the EP, Project Profile as well as those recommended in the Implementation Schedule should be fully implemented in order to minimise noise impacts during the construction phase. They are summarised as follows:
 - a) The Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD should be adopted;
 - b) The statutory and non-statutory requirements and guidelines should be complied with;
 - c) Approval for the method of working, equipment and noise mitigation measures intended to be used at the site should be granted from the Project Engineer before commencing any work;
 - d) Working methods to minimize the noise impact on the surrounding NSRs should be formulated and executed, and the implementation of these methods should be monitored by experienced personnel with suitable training;
 - e) Noisy equipment and noisy activities should be located as far away from the NSRs as is practical;
 - f) Unused equipment should be turned off;
 - g) PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided;
 - h) All plant and equipment should be maintained regularly; and
 - i) Material stockpiles and other structures should be effectively utilised as noise barriers, whenever practicable.
- 2.1.10 Details of the implementation schedule for the mitigation measures are presented in *Appendix D*.

3 MONITORING RESULTS

3.1 Air Quality

Monitoring Results

- 3.1.1 The 1-Hr TSP monitoring during the Reporting Period was conducted according to the monitoring schedule.
- 3.1.2 The 1-Hr TSP results of the Reporting Period are summarised in the following *Table 3-1-1*. Graphical plots of the parameter are illustrated in *Appendix K*.

Monitoring Date		1-Hr TSP		Action	Limit
Monitoring Date	Test 1	Test 2	Test 3	Level	Level
8 February 2019 Average (Min – Max)	54 (46-137)	70 (60-127)	70 (61-184)		
15 February 2019 Average (Min – Max)	71 (49-541)	58 (13-217)	103 (75-297)	250	500
22 February 2019 Average (Min – Max)	48 (25-206)	35 (18-407)	35 (20-367)		

Table 3-1-1 Summary of TSP Monitoring Results, µg/m³

Discussion

- 3.1.3 **Table 3-1-1** demonstrates that all 1-Hr TSP results of the Reporting Period fluctuated well below the A/L Levels of the parameter, i.e. neither Action Level nor Limit Level exceedances were recorded.
- 3.1.4 No Notice of Exceedances (thereinafter referred as 'NOE'). Therefore, the associated NOE Investigation as well as remedial actions were not required during the Reporting Period.

3.2 Construction Noise

Monitoring Results

- 3.2.1 Construction noise monitoring during the Reporting Period was conducted according to the monitoring schedule.
- 3.2.2 Construction noise monitoring results of the Reporting Period are summarised in the following *Table 3-2-1*. Graphical plots of the parameter are illustrated in *Appendix K*.

Table 3-2-1 Summary of Construction Noise Monitoring Results at K11, dB(A)

Monitoring Date	L _{eq} (30 min)	Action Level	Limit Level
08 February 2019	69.7		
15 February 2019	68.5	Any documented complaint against	75
22 February 2019	69.5	construction noise.	15
Mean (Min – Max), <i>Leq</i> (30 min)	69.3 (68.5-69.7)		

Discussion

- 3.2.3 No environmental complaint against construction noise was registered during the Reporting Period and hence no Action Levels were exceeded. As demonstrated in *Table 3-2-1*, all construction noise results were fell below the Limit Level during the Reporting Period. In summary, no exceedances of AL Level were recorded.
- 3.2.4 Neither NOE nor NOE investigation and the associated remedial actions were required during the Reporting Period.
- 3.2.5 As the major construction activities have been substantially completed and the minor defective works for Entrance D1 and Southern Pedestrian footpath reinstatement were not anticipated to cause significant environmental impacts, no specific mitigation measures were required.

3.3 Weather Conditions

- 2.3.1 No weather conditions or any other factors having significant effects on the air and noise monitoring results were identified during the Reporting Period.
- 2.3.2 Weather information during the Reporting Period which was extracted from Hong Kong Observatory King's Park Weather Station and enclosed for reference in *Appendix H*.

3.4 Conclusions and Recommendations

Conclusions

- 3.4.1 No exceedances of AL Levels of air quality and construction noise were registered during the Reporting Period.
- 3.4.2 No NOE and the associated NOE Investigation and corrected actions were required during the Reporting Period.

Recommendations

3.4.3 As the major construction activities have been substantially completed and the minor defective works for Entrance D1 and Southern Pedestrian footpath reinstatement were not anticipated to cause significant environmental impacts, no specific mitigation measures were required.

4 ENVIRONMENTAL AUDIT

4.1 Site Inspection

- 4.1.1 Weekly site inspections during the Reporting Period were conducted by MTRC, MC and ET. The site inspection followed strictly the agreed Site Inspection Checklist, which covered all the site audit requirements stipulated in the EP, PP and EM&A Plan as well as all relevant environmental laws.
- 4.1.2 The completed Site Inspection Checklists were distributed to relevant parties upon completion of the site inspection for agreement and signature of the relevant parties, and for implementation of the recommended follow up actions where appropriate.
- 4.1.3 The site inspections during the Reporting Period were conducted on 08th and 15th February 2019. A joint site inspection was conducted on 20th February 2019 by representatives of EPD, MTRC, IEC, ET and MC.
- 4.1.4 Findings of the site audit and the associated follow up actions are summarised in the following *Table 4-1-1*:

Date	Findings	Follow-Up Action
	Follow-up item(s)	
8 th February 2019	No follow-up item.	Not required.
	Observation(s) on the day of inspection	
	No deficiency was observed on site.	Not required.
	Follow-up item(s)	
15 th February 2019	No follow-up item.	Not required.
	Observation(s) on the day of inspection	
	No deficiency was observed on site.	Not required.
	Follow-up item(s)	
20 th February 2019	No follow-up item.	Not required.
(IEC monthly site audit -	Observation(s) on the day of inspection	
cum - Joint Site Inspection by representatives of EPD, MTRCL, IEC, ET and MC)	No deficiency was observed on site.	Not required.

Table 4-1-1 Summary of Findings and Follow-Up Actions of the Site Inspection

4.1.5 As shown in Table 4-1-1, no deficiencies or non-compliance of environmental mitigation measures or adverse environmental impacts were observed during the Reporting Period.

4.2 Compliance with Legal/Contractual Requirements

4.2.1 The remaining construction activities during the Reporting Period complied with all environmental protection and pollution control laws in Hong Kong, as well as the contractual requirements of the Project. *Table 4-2-1* summarizes the identified breaches of legal and contractual requirements.

Table 4-2-1 Summary of Breaches of Legal and Contractual Requirements

Month	No. of Breach(s)	Cumulative no. from March 2014 to the Reporting Period
February 2019	0	0

4.3 Environmental Complaints

- 4.3.1 Where appropriate, environmental complaints were handled following closely the flow chart of complaint response procedures, as shown in *Appendix L*.
- 4.3.2 Environmental complaints registered during the Reporting Period are summarised in **Table 4-3-1** below:

Table 4-3-1 Summary of Complaint

Month	No. of Complaint(s)	Cumulative no. from March 2014 to the Reporting Period
February 2019	0	6

4.4 Notification Prosecutions

4.4 Notification of Summons/Successful

4.4.1 Notification of summons and successful prosecutions registered durin

I.1 Notification of summons and successful prosecutions registered during the Reporting Period are summarised in *Table 4-4-1* below:

Table 4-4-1 Summary of Summon and Successful Prosecutions

Month	No. of Breach(s)	Cumulative no. from March 2014 to the Reporting Period
February 2019	0	0

5 CONSTRUCTION WASTE

5.1 Waste Management

5.1.1 Waste management under the Project was performed in accordance with the Waste Management Plan, which was prepared for implementation of the construction waste mitigation measures in compliance with the requirements stipulated in the EM&A Plan, PS, Waste Disposal Ordinance and the associated subsidiary regulations.

5.2 Waste Management Status and Record

- 5.2.1 Updated waste management status is detailed in *Appendix M*, where the 3-R status of the construction waste generated from construction of the Project during the Reporting Period is presented.
- 5.2.2 Despite small scale of the Project and the amount of C&D material that needed to be hauled off site and disposed of was anticipated to be insignificant, 3-R waste management i.e. Reduce, Reuse and Recycle, was adopted in order to minimize adverse environmental impacts to be generated from construction of the Project.

6 FUTURE ENVIRONMENTAL ISSUES

6.1 Future Key Environmental Issues

- 6.1.1 Construction under the Project has been substantially completed, including the road reinstatement work for Carnarvon Road and super-structures of Entrance D1 and D2, etc., and Carnarvon Road has been re-opened to public since 30 December 2018.
- 6.1.2 Reinstatement of the south-side pedestrian footpath (Entrance D1 and D2 side) was carried out from January 2019 and minor internal defect fixing works was also conducted as necessary.
- 6.1.3 The remaining works to be carried out in the near future comprises only very monor defective work within Entrance D1 with anticipated insignificant environmental impacts. No particular key environmental issues are expected in the future, and no particular corrective actions or remedial measures are therefore required.

7 CONCLUSIONS AND RECOMMENDATIONS

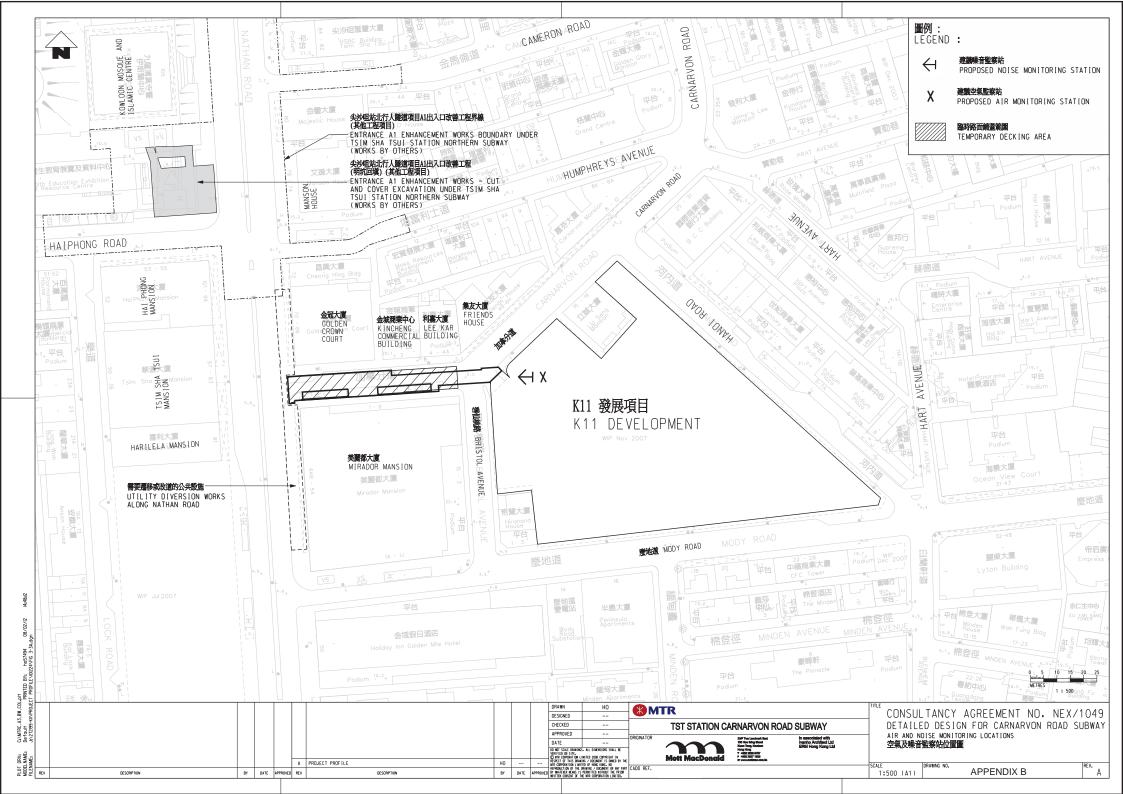
7.1 Conclusions

- 7.1.1 The proposed termination of the EM&A programme was approved by EPD on 27 February 2019 after substantial completion of the construction under the Project.
- 7.1.2 1-Hr TSP monitoring at K11 continued during the Reporting Period. The proposed change of monitoring parameter was approved by EPD under the EP Condition 3.1 of EP No. EP-440/2012.
- 7.1.2 EM&A results during the Reporting Period showed full compliance with the AL Levels, indicating no adverse environmental impacts were generated from the remaining construction activities and hence neither NOE/ NOE investigation nor corrective actions were required during the Reporting Period.
- 7.1.4 No deficiencies, non-compliance or adverse environmental impacts were observed on the sensitive receivers environed with the site of the Project during the Reporting Period, and hence no remedial actions were taken.
- 7.1.5 In addition, no notification of summons and successful prosecutions were reported during the Reporting Period.

7.2 Recommendations

7.2.1 As the construction work under the Project has been substantially completed while the Reinstatement of Carnarvon Road and the Entrance D2 have been completed and re-opened to the public. Entrance D1 has also been completed which will be re-opened shortly subject to final inspection by BD. In addition, the remaining works to be carried out in the near future comprises only very minor defective work within Entrance D1 with insignificant environmental impacts anticipated, no particular corrective actions or remedial measures are therefore required.

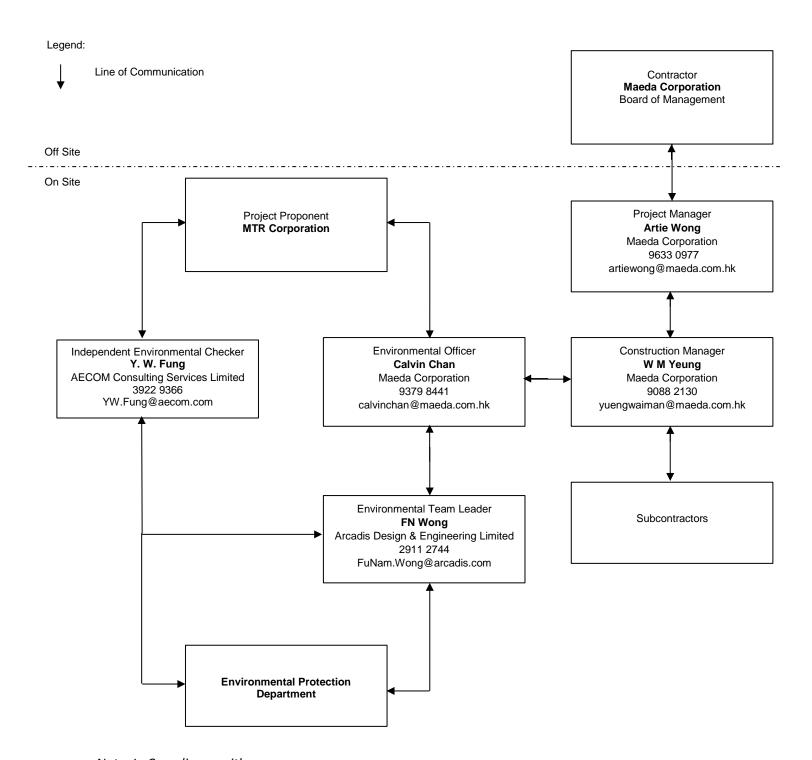
APPENDIX A SITE LOCATION PLAN



APPENDIX B

MANAGEMENT STRUCTURE

Project Organization Chart in Environmental Management (Rev.05)

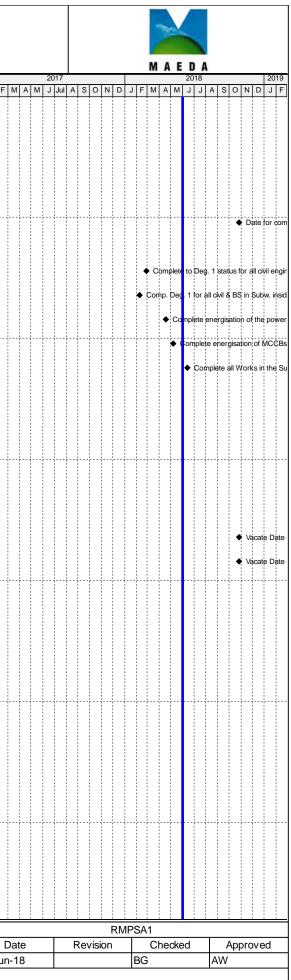


Note: In Compliance with i) Clause.1.3 of Environmental Monitoring and Audit Manual (Appendix VII of Project Profile PP462/2012)

APPENDIX C

CONSTRUCTION PROGRAMME

	X MTR						Contract C3840-13C
							Tsim Sha Tsui Station, Carnarvon Road Subway
	Activity Name	Orig Dur	Rem Start Dur	Finish	% Complete	Total Float	2014 2015 2016 N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O D J F M A M J Jul A S O D J F M A M J Jul A S O
aster Programme R	Revision As Per SA1	1633d	175d 11-Oct-13	A 30-Dec-18		Od	
Preliminaries		1633d	175d 11-Oct-13	A 30-Dec-18		0d	
Contract Key Dates		1670d	0d 11-Oct-13	A 26-Oct-18		Od	
C3840-CD-10	Date of Contract Award	Od	0d 11-Oct-13	A	100%	•	Date of Contract Award
C3840-CD-20	Date of Commencement	0d	0d 14-Oct-13	A	100%	•	Date of Commencement
C3840-CD-30	Date for completion of the whole of the Works	0d	0d	26-Oct-18*	0%	0d	
Specified Degrees of C	Completion	107d	0d 08-Feb-18	3A 13-Jun-18		200d	
C3840-CD-2A	Complete to Deg. 1 status for all civil engineering works and ABWF in Subway outside K11 Lot	0d	0d	26-Feb-18 <i>A</i>	100%		
C3840-CD-2B	Boundary Comp. Deg. 1 for all civil & BS in Subw. inside K11, incl. works ass. with breakthro & make good	K11 0d	0d	08-Feb-18 A	100%		
C3840-CD-2C	D. wall Complete energisation of the power isolator in the Telephone Equipment Rm	0d	0d	18-Apr-18 A	100%		
C3840-CD-2D	Complete energisation of MCCBs CRS1 and CRS2 in the Electrical Rm	0d	0d	08-May-18 <i>A</i>			
C3840-CD-2E	Complete all Works in the Subway and New Entrances D2 and D3	0d	0d	13-Jun-18	0%	16d	
						lou	
	Area As PS Clause P8 & PS Appendix G	Od		A 31-Oct-13 A			
C3840-AD-20	Access Date for Works Area 3840.W1 (subject to SLG/TMLG Approval)	Od	0d 31-Oct-13		100%		Access Date for Works Area 3840 W f (subject to SLG/TMLG Approval)
C3840-AD-30	Access Date for Works Areas 3840.W2 (subject to SLG/TMLG Approval)	0d	0d 31-Oct-13	A	100%		Access Date for Works Areas 3840.W2 (subject to SLG/TMLG Approval)
Initial Site Survey		35d	0d 31-Oct-13	A 10-Dec-13 A	.		
C3840-SS-20	Validate the survey record and carry out any necessary additional survey at Works Areas 3840.W W2	1 & 35d	0d 31-Oct-13	A 10-Dec-13 A	100%		Validate the survey record and carry but any necessary additional survey at Works Ateas 3840.W1 & W2
Vacation of Works Area	as as PS Clause P8 and PS Appendix G	Od	0d 26-Oct-18	26-Oct-18		65d	
C3840-VD-20	Vacate Date for Works Area 3840.W1 (subject to SLG/TMLG Approval)	0d	0d	26-Oct-18	0%	65d	
C3840-VD-30	Vacate Date for Works Area 3840.W2 (subject to SLG/TMLG Approval)	0d	0d	26-Oct-18	0%	65d	
Procurement of Subco	ontract Packages	1335d	6d 11-Oct-13	A 05-Oct-18		70d	
Preliminaries and Utili	ities Diversion	60d	0d 11-Oct-13	A 13-Jan-14 A			
C3840-PRC-100	Hoardings, Fencing and Associated Metalwork	40d	0d 15-Oct-13	A 13-Jan-14 A	100%		Hoardings; Fencing and Associated Metalwork
C3840-PRC-110	Land Survey/Setting Out	5d	0d 15-Oct-13	A 19-Oct-13 A	100%		Land Şurvey/Şetting Dut
C3840-PRC-120	Instrumentation and Monitoring	53d	0d 15-Oct-13	A 14-Dec-13 A	100%		Instrumentation and Monitoring
C3840-PRC-130	Advance Ground Works	28d	0d 15-Oct-13	A 15-Nov-13 A	100%		Advance Ground Works
C3840-PRC-140	Temporary Traffic Diversion (Consultant)	4d	0d 11-Oct-13	A 18-Oct-13 A	100%	•	Tempdrany Traffic Diversion (Cohsultant)
C3840-PRC-150	Obtain Eng's Approval for Temporary Traffic Diversion (Consultant)	6d	0d 19-Oct-13	A 31-Oct-13 A	100%		Obtain Eng's Approval for Temporary Traffic Diversion (Consultant)
C3840-PRC-160	Site Security	48d	0d 15-Oct-13	A 24-Dec-13 A	100%		Site Security
C3840-PRC-200	Independent Checking Engineer (ICE)	6d	0d 18-Nov-1	3A 27-Nov-13A	100%		Independent Checking Engineer (ICE)
C3840-PRC-210	Obtain Eng's Approval for ICE	6d		3A 13-Dec-13A			Doltain;Eng's Approval for, ICE
C3840-PRC-220	Ground Investigation (Pre-drilling work)	60d		A 28-Dec-13 A			Ground Investigation (Pre-drilling work)
		512d		BA 17-Oct-15A			
Temporary Works, ELS							
C3840-PRC-240	Specialist Demolition Contractor	40d	ua 16-Dec-13	3A 20-Feb-14A	100%		Specialist Demolition Contractor
Current Bar		te: 01-Jun	-18				Master Drogramma Devicion DMDDS 4.1
Actual Work		e 1 of 26					Master Programme Revision RMPRSA1
Remaining Wo	UIK						



	XMTR			Contract C3840-13C Tsim Sha Tsui Station, Carnarvon Road Subway		
	Activity Name	Orig Rem Start Dur Dur	Finish % Complete	Total 2014 2015 2016 Float O N D J F M A M J Jul A S O N D J F M A M J Jul A S		
C3840-PRC-250	Sheet Piling	40d 0d 29-Jan-1	14 A 27-Mar-14 A 100%	C N D S I W A W S Sul A S C N D S I W A W S Sul A S		
C3840-PRC-260	Pipe Piling & grouting	60d 0d 16-Nov-	13 A 27-Mar-14 A 100%	Pipe Piling & grouting		
C3840-PRC-270	Pipe Roofing & horizontal grouting	60d 0d 03-Oct-1	14A 31-Dec-14A 100%	Pipe Roofing & horizontal grouting		
C3840-PRC-280	Flood Barrier Wall	40d 0d 10-Dec-	13 A 28-Jan-14 A 100%	Flood Barriet Wall		
C3840-PRC-300	Earthworks including for Tunnel	443d 0d 07-Jul-1-	4 A 17-Oct-15 A 100%	Earthworks including for Tunnel		
Permanent Works		550d 0d 01-Feb-	14 A 18-Mar-17 A			
 C3840-PRC-310	Rebar Supply	0d 01-Feb-	14 A 28-Feb-14 A 100%	Rebar Supply		
C3840-PRC-320	Concrete Supply	60d 0d 01-Feb-		Condreté Supply		
					0.000	Objectional
C3840-PRC-330	Structural S.S.Steelworks.	54d 0d 01-Mar-			Structural S.S.	Steelworks.
C3840-PRC-340	Subway, RC Work Package Contractor	90d 0d 02-Jan-1		Subway, RC Work Package Contractor		
External Works		789d 6d 02-Jan-1	14 A 05-Oct-18	od		
C3840-PRC-360	Closed Circuit TV Inspection	24d 0d 02-Jan-1	14 A 16-Jan-14 A 100%	Cldsed Cirbuit:TV:Inspection		
C3840-PRC-370	Asphalt Surfacing	6d 6d 28-Sep-	18 05-Oct-18 0%	0d		
ABWF & Building Servi	ices	625d 0d 01-Nov-	13 A 18-Mar-17 A			
C3840-PRC-380	BS Works	90d 0d 01-Nov-	13 A 30-Apr-14 A 100%	BB Works		
C3840-PRC-390	ABWF Works for TS	749d 0d 01-Nov-	13A 24-Oct-15A 100%	ABWF Works for TS		
C3840-PRC-395	ABWF Works for the Permanent Works	60d 0d 15-Feb-	16 A 18-Mar-17 A 100%		ABWF Works	for the Petmanen
Removal of Existing Es	scalator	190d 0d 21-Apr-1	15 A 11-Mar-16 A			
 C3840-PRC-400	Specialist Contractor	190d 0d 21-Apr-1		Becialist Contractor		
Site Establishment		120d 0d 14-Oct-				
Apply Utilities		90d 0d 18-Oct-1				
C3840-AU-100	Temporary Water Supply (subject to approval from WSD)	90d 0d 25-Oct-1	13 A 25-Apr-14 A 100%	Témporaty Water Supply (subject to approval from WSD)		
C3840-AU-110	Temporary CLP Power Supply (subject to approval from CLP)	90d 0d 18-Oct-1	13 A 25-Feb-14 A 100%	Temporary CLP Power Supply (subject to approval from CLP)		
Contractor's Site Office	e	30d 0d 14-Oct-1	13 A 12-Nov-13 A			
C3840-OS-100	Setup Project Office	30d 0d 14-Oct-1	13 A 12-Nov-13 A 100%	Setup Project Office		
Condition Survey		100d 0d 07-Jan-1	14 A 17-Feb-14 A			
C3840-CS-20	Propose the influence zone to the satisfaction of the Eng	60d 0d 28-Jan-1	14 A 17-Feb-14 A 100%	Propose the influence zone to the satisfaction of the Eng		
C3840-CS-35	Obtain condition report from MTR	0d 0d	07-Jan-14 A 100%	Obtain condition report from MTR		
C3840-CS-40	Verify and accept the conditionsurvey report	28d 0d 28-Jan-1	14 A 17-Feb-14 A 100%	💶 Veříty and acepet the conditions urve y report		
Environmental Manager	ment Plan and Quality Plan	129d 0d 11-Oct-1	13 A 28-Apr-14 A			
C3840-EQ-100	EMP (G5.1.10) - Prepare and submit for Eng approval	28d 0d 11-Oct-1	13 A 28-Nov-13 A 100%	EMP (G5.1.10) - Prepare and submit for Engapproval		
C3840-EQ-110	EMP - Eng comment and approve		13A 06-Dec-13A 100%	EMP - Eng comment and approve		
C3840-EQ-150	Environmental Team Leader (ET) (P22.14) - Appoint and submit for Eng approva			Environmental Teám Leader (ET) (P22.14) - Appoint and submit for Eng approval		
C3840-EQ-160	ET - Eng comment and approve	14d 0d 15-Nov-	13 A 22-Nov-13 A 100%	ET - Eng comment and approve		
Current Bar	Critical Remaining Work	Data Date: 01-Jun-18				RM
Actual Work	♦ Milestone	Page 2 of 26		Master Programme Revision RMPRSA1	Date 01-Jun-18	Revision

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$ \begin{array}{c c c c c } \hline \begin{aligned} \\ & \text{Cutod} \\ & Cuto$	C3840-EQ-180	Baseline noise monitoring	14d 0d 10-Jan-14 A	24-Jan-14 A	100%			Baseline r	noise monitor	ing																			
add 2 - 2 - 2 add 2 - 2 - 2 add 2 add 2 - 2 add 2 ad	C3840-EQ-190	Prepare baseline noise monitoring report & submit to Eng, ICE and EPD	7d 0d 25-Jan-14 A	11-Feb-14 A	100%		-	Prepare	e baseline no	ise monit	oring repo	rt & submil	t to Eng,	ICE and EF	PD														
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General Control Interface Interfac	C3840-EQ-210	Confirm monitoring location & setup air monitoring deivices	30d 0d 17-Dec-13 A	A 09-Jan-14 A	100%		c.	onfirm mo	nitoring local	tion & set	up air mon	itoring dei	vices																
1 Series de la series de	C3840-EO-220	Baseline air monitoring	14d 0d 10- lan-14 A	25- Jan-14 A	100%			Raseline a	air monitoring																				
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1000000000000000000000000000000000000	C3840-EQ-230	Prepare baseline air monitoring report & submit to Eng, ICE and EPD	7d 0d 27-Jan-14 A	11-Feb-14 A	100%			Prepare	é báselíne áir	monitori	ng neport a	submit to	Eng, ICE	and EPD															
	C3840-EQ-240	Baseline air monitoring report review and approved by Eng, ICE and EPD	14d 0d 14-Feb-14A	A 01-Apr-14 A	100%			Ba	aseline air m	onitoring	report revi	ew and ap	proved b	y Eng, ICE	and EPD														
Auto 45 May 2010 Control 10 May 2010 <td>C3840-EQ-320</td> <td>Quality Plan (G9.2.1) - Prepare and submit for Eng approval</td> <td>28d 0d 14-Oct-13A</td> <td>30-Dec-13 A</td> <td>100%</td> <td></td> <td>Qu</td> <td>uality Plan</td> <td>(G9.2.1) - P</td> <td>repare ar</td> <td>id submit f</td> <td>or Eng app</td> <td>oroval</td> <td></td>	C3840-EQ-320	Quality Plan (G9.2.1) - Prepare and submit for Eng approval	28d 0d 14-Oct-13A	30-Dec-13 A	100%		Qu	uality Plan	(G9.2.1) - P	repare ar	id submit f	or Eng app	oroval																
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Appendix Mark No.	C3840-HS-130	System Assurance Plan as per App. K of PS - Prepare and submit for Eng approval	28d 0d 11-Oct-13 A	20-Dec-13 A	100%		Syst	tem Assura	ance Plan as	per App.	K of PS -	Prepare a	nd submi	t for Eng ap	oproval														
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Application Programme 104.61 ¹ . Ling commont Subject 4 Subj	C3840-PM-100	Initial Three Month Rolling Programme (G4.8.1) - Prepare and submit for Eng review	14d 0d 11-Oct-13 A	28-Oct-13 A	100%	– 1	nitial Thre	e Month F	Rolling Progr	amme (G	4.8.1) - Pr	epare and	l submit f	or Eng revi	ew														
CMB1PM 100 Perform Masse Poyumer (GA 1): Readent for Egg egrows 4	C3840-PM-110	Preliminary Master Programme (G4.6.1) - Prepare and submit for Eng approval	60d 0d 11-Oct-13 A	12-Dec-13A	100%		Prelin	minary Ma	ister Progran	nme (G4.	6.1) - Prep	bare and s	ubmit for	Eng appro	val														
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C380-Ph-140 PeterPinu Maser Pograme (04.1) - Eng coprover 14 02 25-66-14 100-11 100 100-11	C3840-PM-135	Preliminary Master Programme (G4.6.1) - Eng's further comment	14d 0d 12-Feb-14 A	A 22-Feb-14 A	100%			Prelim	inary Master	Program	1me (G4.6.	1) - Eng's	further o	omment															
C340-P4-170 Submission Shraduk (G12.11.) Prepare and utated for gapproval 20 0 100-0 0 Submission Shraduk - Eng comment used approval 0 0 0.040-P4-10 000 0 Submission Shraduk - Eng comment used approval 0 0 0.040-P4-10 0	C3840-PM-136	Preliminary Master Programme (G4.6.1) - Further re-submission	14d 0d 23-Feb-14 A	A 27-Feb-14 A	100%			l Prelin	ninary Maste	r Prograr	nme (G4.6	i.1) - Furth	ner re-sub	omission															
C3840 PM-100 Submission Schedule - Eng comment and approve 201 01 3Non-14A 100 0 Temperatury Works Design & Approval Propess (Incl. DemoRibit) 1056 105 0-00-00 0 <td>C3840-PM-140</td> <td>Preliminary Master Programme (G4.6.1) - Eng approval</td> <td>14d 0d 28-Feb-14 A</td> <td>A 07-Mar-14 A</td> <td>100%</td> <td></td> <td></td> <td>Preli</td> <td>min'ary Maste</td> <td>er Progra</td> <td>mme (G4.</td> <td>6.1) - Ehg</td> <td>approval</td> <td></td>	C3840-PM-140	Preliminary Master Programme (G4.6.1) - Eng approval	14d 0d 28-Feb-14 A	A 07-Mar-14 A	100%			Preli	min'ary Maste	er Progra	mme (G4.	6.1) - Ehg	approval																
Name	C3840-PM-170	Submission Schedule (G12.11.1) - Prepare and submit for Eng approval	28d 0d 11-Oct-13 A	12-Nov-13 A	100%		Submissi	ion Sched	ule (G12.11.	1) - Prep	are and su	bmit for Er	ng approv	/al															
Hoarding Plan 64/a Cd [15-Cd-13A] 18-Mar-14A Control Propriet Hearding Plan Propr	C3840-PM-180	Submission Schedule - Eng comment and approve	28d 0d 13-Nov-13 A	A 30-Mar-14 A	100%			s s	ubmission \$c	hedule -	Eng comn	nent and a	pprove																
Hoarding Plan 644 644 644 644 644 100% Prepare Hoarding Plan C3840-TD-100 Prepare Hoarding Plan 279 04 15-Oct+3A 11-Jun-14A 100% Prepare Hoarding Plan C3840-TD-100 Hoarding plan review & endorse by ICE 404 04 04 04 04 04 100% Prepare Hoarding Plan C3840-TD-120 Hoarding plan review & comment by EngMTRC 286 04 12-Jun-14A 100% Prepare Hoarding Plan C3840-TD-120 Hoarding plan review & approve by EngMTRC 286 04 12-Jun-14A 100% Prepare Hoarding plan review & comment by EngMTRC 116 04 100% Prepare Hoarding plan review & comment by EngMTRC 118 100% Prepare Hoarding plan review & comment by EngMTRC 118 100% Prepare Hoarding plan review & comment by EngMTRC 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 100% 118 118 <td>Temporary Works D</td> <td>Desian & Approval Process (Incl. Demolition)</td> <td>1581d 175d 15-Oct-13A</td> <td>30-Dec-18</td> <td></td> <td>Od</td> <td></td>	Temporary Works D	Desian & Approval Process (Incl. Demolition)	1581d 175d 15-Oct-13A	30-Dec-18		Od																							
C3840-TD-100 Prepare Hoarding Plan 270 0d 15-Oct-13A 11-Jun-14A 100% Prepare Hoarding Plan C3840-TD-100 Hoarding plan review & endorse by ICE 404 00 04 16-Oct-13A 11-Jun-14A 100% Image: Casedo-TD-120 Hoarding plan review & endorse by ICE Image: Casedo-TD-120 Hoarding plan review & andorse by ICE Image: Casedo-TD-120 Hoarding plan review & andorse by ICE Image: Casedo-TD-140 Hoarding plan review & andorse by ICE Image: Casedo-TD-140 Hoarding plan review & andorse by ICE Image: Casedo-TD-140 Hoarding plan review & approve by Eng/MTRC Image: Casedo-TD-140 Hoarding plan review & approve by Eng/MTRC Image: Casedo-TD-160 Obtain Final Approval Image: Casedo-TD-160 Image:			84d 0d 15-0d-13A	18-Mar-14 A																									
C3840-TD-10 Hoarding plan review & endorse by ICE 40d 0d 01-Feb-14A 08-Mar-14A 100% Image: Case of the case of																													
C3840-TD-120 Hoarding plan review & comment by Eng/MTRC 284 0d 12-Jan-14A 100% Image: Case of the cas	C3840-TD-100	Prepare Hoarding Plan	27d 0d 15-Oct-13A	11-Jan-14 A	100%		Pi	repare Ho	arding Plah																				
C3840-TD-140 Hoarding plan re-submission 11d 0d 24-Jan-14A 28-Feb-14A 100% C3840-TD-150 Hoarding plan review & approve by Eng/MTRC 28d 0d 01-Mar-14A 18-Mar-14A 100% C3840-TD-160 Obtain Final Approval 0d 0d 18-Mar-14A 100% Flood Protection Wall 80 0d 101-Dec-13A 18-Mar-14A 100% Flood Protection Wall 0d 101-Dec-13A 18-Mar-14A 100% Page 3 of 26 Feb-14A 100% Page 3 of 26 Feb-14A 100% Page 3 of 26 Feb-14A 100% Flood Protection Wall Final Approval 0d 101-Dec-13A 18-Mar-14A 100% Page 3 of 26 Feb-14A 100% Page 3 of 2	C3840-TD-110	Hoarding plan review & endorse by ICE	40d 0d 01-Feb-14 A	A 08-Mar-14 A	100%			📫 Hoar	rding plan re	view & er	dorse by l	¢Е																	
C3840-TD-150 Hoarding plan review & approve by Eng/MTRC 28d Od 01-Mar-14A 18-Mar-14A 100% Image: Case of the c	C3840-TD-120	Hoarding plan review & comment by Eng/MTRC	28d 0d 12-Jan-14 A	23-Jan-14 A	100%		•	Hoarding	plan review a	& comme	nt by Eng/I	MTRC																	
C3840-TD-160 Obtain Final Approval 0d 0d 18-Mar-14 A 100% Obtain Final Approval Flood Protection Wall Flood Protection Wall Current Bar Critical Remaining Work Actual Work Milestone Page 3 of 26 Flood Protection RMPRSA1 Master Programme Revision RMPRSA1 BG AW AW AW AW Actual Work Milestone Actual Work Actual Work<td>C3840-TD-140</td><td>Hoarding plan re-submission</td><td>11d 0d 24-Jan-14 A</td><td>28-Feb-14 A</td><td>100%</td><td></td><td>-</td><td>Hoard</td><td>ding plan re-</td><td>submissio</td><td>'n</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>	C3840-TD-140	Hoarding plan re-submission	11d 0d 24-Jan-14 A	28-Feb-14 A	100%		-	Hoard	ding plan re-	submissio	'n																		
Flood Protection Wall Beg Od 01-Dec/13A 18-Mar-14A Flood Protection Wall Beg Od 01-Dec/13A 18-Mar-14A Current Bar Critical Remaining Work Data Date: 01-Jun-18 RMPSA1 Actual Work Milestone Page 3 of 26 Master Programme Revision RMPRSA1 Date	C3840-TD-150	Hoarding plan review & approve by Eng/MTRC	28d 0d 01-Mar-14 A	A 18-Mar-14 A	100%			🗖 Ho	arding plan r	eview & a	pprove by	Eng/MTR	с																
Flood Protection Wall Beg Od 01-Dec/13A 18-Mar-14A Flood Protection Wall Beg Od 01-Dec/13A 18-Mar-14A Current Bar Critical Remaining Work Data Date: 01-Jun-18 RMPSA1 Actual Work Milestone Page 3 of 26 Master Programme Revision RMPRSA1 Date	C3840-TD-160	Obtain Final Approval	0d 0d	18-Mar-14 A	100%			♦ Obi	tain' Final Apr	oroval											++++								
Current Bar Critical Remaining Work Actual																													
Actual Work Master Programme Revision RMPRSA1 Date Revision Checked Approv Oli-lun-18 BG AW 				10-10-10 ar-14 A																									
Page 3 of 26	Current Bar	r Critical Remaining Work Data Da	ate: 01-Jun-18				1.7				р ·				1					-	-	ota					ales d		A m =
Remaining Work		Fa	ge 3 of 26				IVIAS	ter P	rograi	nme	Kevi	sion	KIVII	'KSA	1					(REVISIO			ecked	AW	

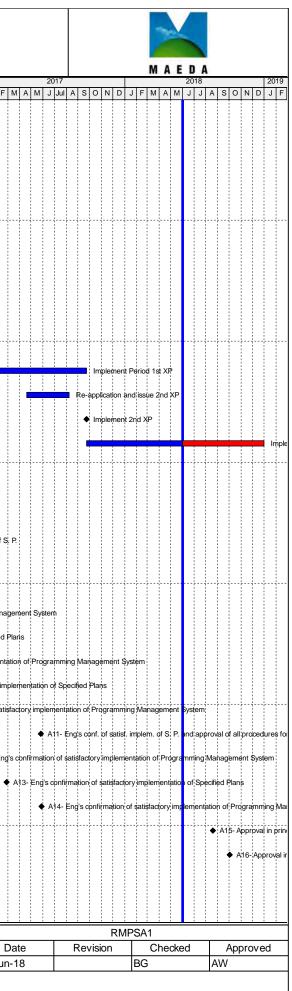
Remaining Work	Fa	ge 4 of 26					AW
Current Bar Actual Work			~			Master Programme Revision RMPRSA1 Date Revision Checked	Appro
		ate: 01-Jun-18	8 1				
C3840-ED-110	Design review & endorse by ICE	40d 0	0d 22-Jan-14 A	12-May-14 A	100%	Design review & endorse by ICE	
C3840-ED-100	Prepare Temporary Work Design	55d 0	0d 15-Oct-13 A	12-Nov-13 A	100%	Preparé Temporary Work Design	
ELS Design for Tunne	el (Vertical Shaft)	116d 0	0d 15-Oct-13 A	26-May-14 A			
C3840-DMD-450	Review & approve by Eng/MTRC	28d 0	0d 01-Nov-14A	27-Jul-15 A	100%	Review & approve by Eng/MTRC	
C3840-DMD-440	Demolition Plan re-submission	18d 0	0d 24-Oct-14 A	31-Oct-14 A	100%	Demplition Plan re-submission	
C3840-DMD-430	Review & comment by Eng/MTRC	28d 0	0d 19-Sep-14A	23-Oct-14 A	100%	Réview & comment by Eng/MTRC	
C3840-DMD-400	Develop & submit Demolition Plan	24d 0	0d 18-Aug-14 A	18-Sep-14 A	100%	Develop & submit Demotion Plan	
Submission/Approva	I for Demolition & Modification Works at Basement Wall of K11	99d 0	0d 18-Aug-14 A	27-Jul-15 A			
C3840-DMD-190	Final approval for demolition to commence granted	Od O	Dd	18-Mar-14 A	100%	← Final approval for demolition to commence granted	
C3840-DMD-140	Demolition plan review & approve by Eng/MTRC/ BD consultation	28d 0	0d 09-Mar-14 A	18-Mar-14 A	100%	Demolition plan review & approve by Eng/MTRC/ BD consultation	
C3840-DMD-130	Demolition plan re-submission	18d 0	0d 14-Jan-14 A	08-Mar-14 A	100%	Demolition plan re-submission	
C3840-DMD-120	Demolition plan review & comment by Eng/MTRC/ BD consultation	28d 0	0d 25-Dec-13A	13-Jan-14 A	100%	Demolition plah review & comment by Eng/MTRC/ BD consultation	
C3840-DMD-110	Demolition plan review & endorse by ICE	24d 0	0d 01-Feb-14A	06-Mar-14 A	100%	Demiolition plan; review;& enddrse;by ICE	
C3840-DMD-100	Develop Demolition Plan, Temporary Works Design, Risk Assessment & Method Statement	24d 0	0d 15-Nov-13 A	24-Dec-13 A	100%	Develop Demolition Plan, Tempprary Works Design, Risk Assessment & Method Statement	
Demolition Plan for I	Existing D1, D2 and Subway	89d C	0d 15-Nov-13 A	18-Mar-14 A			
C3840-TD-370	Obtain Final Approval	0d 0	Dd	23-Jun-14 A	100%	Obtain Final Approval	
C3840-TD-360	Design review & approve by Eng/MTRC	28d 0	0d 27-Mar-14 A	23-Jun-14 A	100%	Design review & approve by Eng/MTRC	
C3840-TD-350	Design re-submission	18d 0	0d 01-Mar-14 A	26-Mar-14 A	100%	Design re-submission	
C3840-TD-340	Design review & comment by Eng/MTRC	28d 0	0d 10-Jan-14 A	14-Apr-14 A	100%		
C3840-TD-330	Design review & endorse by ICE	24d 0	0d 27-Mar-14 A	11-Jun-14 A	100%	pesign review & endorse by ICE	
C3840-TD-320	Prepare Temporary Work Design			09-Jan-14 A		Prepare Temporary Work: Design	
	ign for Utilities Supports			23-Jun-14 A			
C3840-TD-310	Obtain Final Approval	0d 0		23-Jun-14 A		Obtain Final Approval	
C3840-TD-270			0d 27-Mar-14 A				
	Design re-submission Design review and approve by Eng/MTRC					Design re-supmission	
C3840-TD-260	Design re-submission			26-Mar-14 A		Congristion and comparison Design re-submission	
C3840-TD-250	Design review and comment by Eng/MTRC		0d 10-Jan-14 A			Design review and comment by Eng/MTRC	
C3840-TD-240	Design review & endorse by ICE		0d 27-Mar-14 A			Design review & endorse by ICE	
C3840-TD-230	Prepare Temporary Work Design			09-Jan-14 A		Preparé Temporaty Work:Design	
	sign for Temporary Traffic Decking			23-Jun-14 A			
C3840-TD-220	Obtain Final Approval	0d 0	Dd	18-Mar-14 A	100%		
C3840-TD-210	Design review & approve by Eng/MTRC	28d 0	0d 05-Feb-14A	18-Mar-14 A	100%	Designi review & approve by Eng/MTRC	
C3840-TD-190	Design review & comment by Eng/MTRC	28d 0	0d 07-Jan-14 A	21-Jan-14 A	100%	Désign review & comment by Eng/MTRC	
C3840-TD-180	Design review & endorse by ICE	40d 0	0d 02-Jan-14 A	04-Feb-14 A	100%	Design réview & eridorse by ICE	
C3840-TD-170	Prepare Temporary Work Design			06-Jan-14 A	Complete 100%	Float O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A J J J J J J J J J J J J J J	ASOI
D	Activity Name	Orig Rei Dur Du	m Start ur	Finish	%	Total 2014 2015 2016 2017 2018	
	X MTR					Tsim Sha Tsui Station, Carnarvon Road Subway	
						Contract C3840-13C	

	MTR											C3840			_						
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	Activity Name	Orig Dur	Rem Start Dur	Finish	% Complete	Total Float	IDJ	FMA	201 MJ	4 Jul A S	6 0 N I	D J F I	MAM	2015 I J Jul A	sol	N D J	FMA	2 4 M .	2016 J Jul A	s	Г
C3840-ED-120	Design review & comment by Eng/MTRC, GEO and BD consutation	28d	0d 13-Nov-	13 A 27-Jan-14 A	100%			Design r	eview &	comment	by Eng/M	TRC, GEC) and BD	consutatio	n						-
C3840-ED-130	Design re-submission	14d	0d 09-Jan-	14 A 22-May-14 A	100%				Des	sign re , su	ubmission										
C3840-ED-140	Design review & approve by Eng/MTRC, GEO and BD consultation	28d	0d 13-Feb-	14 A 26-May-14 A	100%				De	sigh revie	ew & appro	ove by Eng	/MTRC,	GEO and I	3D consut	ation					
C3840-ED-170	Obtain Final Approval	Od	0d	26-May-14 A	100%				♦ Ob	taih Fihal	l Approval										
S Design for Subwa	ay and Temporary Staircase	82d	0d 18-Dec-	13 A 23-Jun-14 A			•														
C3840-ED-180	Prepare ELS Design	24d	0d 18-Dec-	13 A 09-Jan-14 A	100%			Prepare E	LS Desig	n											
C3840-ED-190	Design review & endorse by ICE	40d	0d 06-Mar-	14 A 11-Jun-14 A	100%			_	 c	esign rev	view & enc	lorse by IC	E								
C3840-ED-200	Design review & comment by Eng/MTRC, GEO and BD consultation	28d	0d 10-Jan-	14 A 27-Jan-14 A	100%			Design r	eview &	comment	by Eng/M	TRC, GEC) and BD	consultatio	bh						
C3840-ED-210	Design re-submission	12d	0d 05-Mar-	14 A 12-Jun-14 A	100%			-)esign re	-submissio	'n									
C3840-ED-220	Design review & approve by Eng/MTRC, GEO and BD consultation	28d	0d 06-Mar-	14 A 23-Jun-14 A	100%				<u></u>	Design r	eview & ar	oprove by E	Eng/MTR	C, GEO a	nd BD con	nsultation					
C3840-ED-230	Obtain Final Approval	b0	0d	23-Jun-14 A	100%				•	Obtain F	inal Appro	val									
	I (Horizontal Pipe Piling)	349d		14 A 02-Jun-15 A																	
C3840-ED-240	Prepare Temporary Work Design (AIP)	24d		14 A 16-Jun-14 A						Jrdnorb 7	Femaleron	/Work Des	vice (AUD)								1111
																					11111
C3840-ED-260	Design review & comment by Eng/MTRC and GEO	28d		14 A 22-Jul-14 A	100%									MTRC and	IGEO						1111
C3840-ED-270	Design re-submission (DDA)	18d	0d 18-Jun-	14 A 08-Aug-14 A	100%					De:	sign re-sut	bmission (E	DDA)								
3840-ED-280	Design review & approve by Eng/MTRC	28d	0d 09-Aug-	14 A 13-Aug-14 A	100%					I De	esign revie	w & approv	ve by Eng	g/MTRC							11111
C3840-ED-300	Design submission for BD approval	1d	0d 13-Aug-	14 A 13-Aug-14 A	100%					l De	esign subm	nission for E	3D appro	oval							11111
C3840-ED-310	BD & GEO review and approval	60d	0d 14-Aug-	14 A 28-Oct-14 A	100%					-	BD	& GEO re	view and	approval							1111
C3840-ED-315	BA 8/ BA10 submission for ground treatment and GI field works	1d	0d 05-Feb-	15 A 05-Feb-15 A	100%							I B/	A 8/ BA10) submissic	n for grou	ind treatr	nent and C	il field ۱	works		
C3840-ED-320	BA8 submission for BD consent for HPP works	1d	0d 23-Mar-	15 A 23-Mar-15 A	100%								I BA 8	submissior	for BD co	onsent fo	r HPP wor	ks			1111
C3840-ED-330	BD process BA 8/BA10 submission & BD issue consent	28d	0d 24-Mar-	15 A 02-Jun-15 A	100%								-	BD pro	cess BA 8/	/BA10 sul	bmission &	BD iss	ue cons	ent	1111
S Design for Subwa	ay and D2 (C&C)	82d	0d 18-Dec-	13 A 23-Jun-14 A																	1.1.1
C3840-ED-340	Prepare ELS Design	24d	0d 18-Dec-	13 A 09-Jan-14 A	100%			Prepare E	LS Desig	n											Ì
C3840-ED-350	Design review & endorse by ICE	40d	0d 27-Mar-	14 A 11-Jun-14 A	100%			-		esign rev	view & enc	lorse by IC	E								
C3840-ED-360	Design review & comment by Eng/MTRC, GEO and BD consultation	28d	0d 10-Jan-	14 A 27-Jan-14 A	100%			Design r	eview &	comment	by Eng/M	TRC, GEC) and BD	consultatio							11111
C3840-ED-370	Design re-submission	12d	0d 26-Mar-	14A 12-Jun-14A	100%						-submissio										11111
C3840-ED-380	Design review & approve by Eng/MTRC, GEO and BD consultation	28d		14A 23-Jun-14A									na/MTR	C, GEO a	nd BD con	sultation					1.1.1.1.1
C3840-ED-410	Obtain Final Approval	0d		23-Jun-14 A							inal Appro		9								
										Obtain	iliai Appio	vai									11121
	ngement Schemes (TTMs) for Carnarvon Road Closure & Piling works			13 A 13-Jun-14 A					ļ												111111
C3840-TTM-100	Appoint Traffic Consultant	Od	0d	16-Oct-13 A	100%	◆ A	opoint Tr	affic Cons	ultant												i i i i
C3840-TTM-110	Pepare & submit review by Eng Outline TTM Schemes as per PS P20.4	6d	0d 17-Oct-	13 A 23-Oct-13 A	100%	B F	epare &	submit re	view by E	ng Outlin	ie TTM \$c	hemes as I	per PS P	20.4							
C3840-TTM-120	Eng review Outline TTM Schemes	4d	0d 24-Oct-	13 A 28-Oct-13 A	100%		Eng revie	ew Outline	TTM Sch	nemes											
C3840-TTM-130	Prepare Detailed TTMS	5d	0d 24-Oct-	13 A 30-Oct-13 A	100%		Prepare	Detailed T	TMS												
C3840-TTM-140	Discussion and agree in priniciple at TMLG Meeting	1d	0d 30-Oct-	13 A 30-Oct-13 A	100%		Discussio	on and agr	ee in prin	iiciple at 1	TMLG Mee	eting									
Current Bar	Critical Remaining Work	Data Date: 01-Ju	n-18				<u>; ;</u>	<u>; ; ;</u>	<u>; ; ;</u>	1 1	<u>; ; ; ;</u>	<u> </u>	<u> </u>	<u>; </u>	<u>; ; ; ;</u>	<u> </u>	<u>; ; ;</u>	<u>. : :</u>	<u> </u>	<u> </u>	1
Actual Work	A Milestone	Page 5 of 26	;				Mas	ster P	rogr	amn	ne Re	evisio	n RI	MPRS	SA1						
Remaining Wo	prk																				

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			20)17								M	A	E	20	18	1					20	10
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	C3840-TTM-150	Final TTMS Drawings	4d	0d 31-0	Oct-13A (04-Nov-13 A	100%				MS Dra																			-
	C3840-TTM-160	Eng endorse TTMS Drawings	2d	0d 05-1	Nov-13A	06-Nov-13 A	100%		l Eng	gend	lorse T	FMS D	awings																	
	C3840-TTM-170	TTMs endorse by HKP & TD and obtain road work addvice from RMO	18d	0d 07-N	Nov-13 A	24-Nov-13 A	100%		п т	TMs	endors	e by H	(P & TD	and ob	tainro	adwo	orkado	dvice fr	om RN	10										
	C3840-TTM-180	Obtain Gazette Notice	18d	0d 07-1	Nov-13 A	14-Nov-13 A	100%		 OI 	otain	Gazette	e Notice																		
	C3840-TTM-190	Notification to Bus Company	28d	0d 07-1	Nov-13A	04-Dec-13 A	100%			Notif	ication t	o Bus (ompany	,																
	C3840-TTM-210	Relocate bus stop, trial run & TTMs implementation (road closure)	5d	0d 05-E	Dec-13 A	10-Dec-13 A	100%			Relo	ocate bu	is stop,	trial run	& TTM	s impl	ement	ation (road cl	osure)											
	C3840-TTM-220	Application & Approval of TTM Schemes for Piling work for TS and C&C	42d	0d 24-J	Jan-14 A	13-Jun-14 A	100%						Appli	cation 8	& Appr	oval o	ттм	Scherr	nes for	Piling v	work for	rTSa	nd C&(c						
	Excavation Permit (XP)		1581d	175d 15-0	Oct-13 A	30-Dec-18		0d																						
	C3840-XP-100	XP in hand of MTR	Od	Od		15-Oct-13 A	100%	•	XP in	hand	of MTF	۲																		
	C3840-XP-110	Transfer XP permit holder from MTR to Maeda & XP payment arrangement	15d	0d 15-0	Oct-13A 3	31-Oct-13 A	100%		Trai	hşfer	XPper	mit hold	er from I	MTR to	Maeo	a & X	Ppayr	nent ar	rranger	nent										
-	C3840-XP-130	Implement 1st XP	Od	0d 01-N	Nov-13 A		100%		♦ Imp	leme	nt 1st X	P																		
	C3840-XP-140	Implement Period 1st XP	1422d	0d 01-1	Nov-13 A	22-Sep-17 A	100%																	<u> </u>	<u> </u>				<u> </u>	
-	C3840-XP-150	Re-application and issue 2nd XP	180d	0d 20-4	Apr-17 A	09-Aug-17 A	100%																							
_	C3840-XP-160	Implement 2nd XP	0d	0d 23-8	Sep-17 A		100%																							
	C3840-XP-170	Implement Period for 2nd XP	464d	213d 23-9	Sep-17A 3	30-Dec-18	40.95%	0d																						
	Milestones for Cost Ce	entre A- Preliminaries	1525d	45d 29-A	Aug-14 A	03-Oct-18		88d	+																					
	 C3840-MS-A01	A1-Approval of PMP, S. P., ICE, ELS design for Cofferdam & temp decking	0d			29-Aug-14 A	100%							♠ A1	-Appro	valof	PMP.	S.P. 1	ce. el	S desir	an for C	Cofferc	dam & t	terhp de	eckina					
	C3840-MS-A02	A2-Approval of ELS design of mined tunnel & Eng's confirmation of satisfactory implem.of P. M.Syt.	0d			28-Oct-14 A	100%																			atisfactor	rv imple	m.of P.	M.Svt.	
	C3840-MS-A03	A3-Approval for mehod for demolition of K11 Diag. Wall & Eng's confirmation of satisf, implem. of S				13-Nov-14 A	100%																			onfirmatic				
	C3840-MS-A03	P. A4- Eng's confirmation of satisfactory implementation of Programming Management System	. 00 0d			30-Nov-14 A	100%																			nming Ma				3.1
	C3840-MS-A04	A5- Eng's confirmation of satisfactory implementation of Specified Plans	0d 0d				100%																			n of Spe				
						16-Mar-15 A																								
	C3840-MS-A06	A6- Eng's confirmation of satisfactory implementation of Programming Management System	Od			19-May-15 A	100%																			nentation				
	C3840-MS-A07	A7- Eng's confirmation of satisfactory implementation of Specified Plans	Od			12-Aug-15 A	100%													•	A7- Enç	g's cor				ory imple				
	C3840-MS-A08	A8- Eng's confirmation of satisfactory implementation of Programming Management System	Od			04-Jan-16 A	100%																◆ A8			mation of				
	C3840-MS-A09	A9- Eng's confirmation of satisfactory implementation of Specified Plans	0d	0d		15-Mar-16 A	100%																	◆ A	Ī	y's confirr				
	C3840-MS-A10	A10- Eng's confirmation of satisfactory implementation of Programming Management System	Od	0d	2	29-May-16 A	100%																		•	A10- Er	ng's opr	nfirmatic	n of sa	ıtişfa
	C3840-MS-A11	A11- Eng's conf. of satisf. implem. of S. P. and approval of all procedures for T&C of BS & ABWF works	0d	0d	2	26-May-17 A	100%																							
	C3840-MS-A12	A12- Eng's confirmation of satisfactory implementation of Programming Management System	0d	0d	2	27-Nov-16 A	100%																					• /	A12- Ei	ng's
	C3840-MS-A13	A13- Eng's confirmation of satisfactory implementation of Specified Plans	Od	0d	2	26-Feb-17 A	100%																							•,
	C3840-MS-A14	A14- Eng's confirmation of satisfactory implementation of Programming Management System	Od	0d	2	28-May-17 A	100%																							
	C3840-MS-A15	A15- Approval in principle of draft O&M Manuals and draft As-built Drwgs. for Whole of the Works	Od	0d		19-Aug-18	0%	133d	++																					
	C3840-MS-A16	A16- Approval in principle of O&M Manuals and As-built Drwgs. for Whole of the Works	0d	0d	(03-Oct-18	0%	88d																						
Car	rnarvon Road Sub	way and Entrances	1352d	122d 14-0	Oct-13A	26-Oct-18		53d																						
In	nstrumentation		52d	0d 16-E	Dec-13A	02-Apr-14 A																								
	 Current Bar 	Critical Remaining Work Data Data	: 01-Ju	in-18					<u>; </u>	:		1		<u> </u>	:		: :	<u> </u>			<u></u>	<u></u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>
	Actual Work	 ♦ Milestone Page 	6 of 26	;					N	Ias	ster	Pro	grai	nm	e R	levi	sio	n R	MF	'RS	A1							ļ,	01-Ju	Da un-
	Remaining Wo	rk																												<u> </u>
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	Activity Name	Orig Rem S Dur Dur	Start	Finish	% Complete	Total 2014 2015 Float O N D J F M M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M Jul A S O N D J F M Jul A N O Jul A N D Jul A N O Jul Jul	2016 N D J F M A M J Jul A S O I	N D J F M
C3840-INS-10	Prepare & submit instrumentation/monitoring plan for approval of Eng	28d 0d	16-Dec-13 A	28-Jan-14 A	100%	Prepare & submit instrumentation/monitoring plan for approval of Eng		
C3840-INS-20	Eng approve instrumentation/monitoring plan	7d 0d 2	29-Jan-14 A	05-Feb-14 A	100%	Engapprove instrumentation/monitoring plan		
C3840-INS-30	Installation of instrumentations	12d 0d 0	07-Jan-14 A	25-Feb-14 A	100%	Installation of instrumentations		
C3840-INS-40	Initial reading and agreement with Eng	14d 0d 2	24-Feb-14 A	30-Mar-14 A	100%	Initial reading and agreement with Eng		
C3840-INS-50	Commence regular monitoring	0d 0d 0	02-Apr-14 A		100%			
Utility Diversion		1292d 0d	14-Oct-13 A	12-Dec-15 A				
C3840-UTD-010	Utility Detection Survey incl. prepare survey report	12d 0d (02-Nov-13 A	11-Dec-13 A	100%	Utility Detection Survey incl. prepare survey report		
C3840-UTD-030	Notification to Utility Companies and 1st ULG meeting	46d 0d ⁻	14-Oct-13 A	28-Nov-13 A	100%	Notificatión tó Utility Companies and 1st ULG meeting		
C3840-UTD-040	Relocation of mail box			06-Dec-13 A	100%	Relocation of mail box:		
C3840-UTD-110	Relocation of Telephone Kiosk by PCCW	40d 0d 2	23-Dec-13 A	08-Jan-14 A	100%	Reliocation of Telephone Kiosk by PGCW		
C3840-UTD-290	Diversion of Gasmain crossing tunnel shaft	57d 0d	13-Feb-14 A	26-Mar-14 A	100%	Diversion of Gasmain crossing tunnel shaft		
C3840-UTD-295	Exposure & temporary support to underground gasmain and cable duct at TS	64d 0d	11-Mar-15 A	30-Jun-15 A	100%	Exposure & I	emporary support to underground gasmain a	and cable duct at T
C3840-UTD-320	Exposure & slewing of underground utilities for driving pipe piles execept D2 a	area 57d 0d	13-Feb-14 A	31-Oct-14 A	100%	Exposure & slewing of underground utilitie	s for driving pipe piles execept D2 area	
C3840-UTD-335	Temporary Diversion of existing watermain that clash with temp. staircase	40d 0d 2	28-May-15 A	17-Jul-15 A	100%	Temporary	Diversion of existing watermain that clash wit	ith temp. staircase
C3840-UTD-360	Removal of Street Lighting Post near D2	57d 0d	13-Feb-14 A	23-May-14 A	100%	Removal of Street Lighting Post near D2		
C3840-UTD-455	Exposure & slewing of underground utilities for driving pipe piles at D2 area	51d Od (07-Oct-15 A	12-Dec-15 A	100%		Exposure & slewing of underground ut	itilities for driving pi
Remove Existing Esca	alator by Specialist Contractor	109d 0d (01-Mar-16 A	05-Aug-16 A				
C3840-ESC-110	Appoint Specialist Contractor	0d 0d		11-Mar-16 A	100%		Appoint Specialist Contractor	or
C3840-ESC-120	Prepare method statement & delivery route for removal of exist. Escalator	6d 0d 0	01-Mar-16 A	11-Mar-16 A	100%		Prepare method statement	t & delivery route fc
C3840-ESC-130	Eng review and approve method statement & delivery route for removal of exit		12-Mar-16 A		100%			approve method sta
C3840-ESC-140	Liaise with maintenance Contractor via. Eng and submit Form EL3 to EMSD		06-Apr-16 A		100%			aintenance Contra
C3840-ESC-150	EMSD/MTRC decommission exisitng escalator	3d 0d 0	06-Jul-16 A	06-Jul-16 A	100%		I EMSD/MTRC	C decommission ex
C3840-ESC-152	MTR's testing on Existing Escalator	2d 0d 0	07-Jul-16 A	08-Jul-16 A	100%		I MTR's testing	g on Existing Escala
C3840-ESC-160	Remove existing escalator	14d 0d	11-Jul-16 A	05-Aug-16 A	100%		📫 Remove e	existing escalator
Open Cut Sequence 1	(Advance Ground Works & Piling Works)	778d 0d	13-Nov-13 A	30-Sep-16 A				
Advance Ground Wo	rks	113d Od	13-Nov-13 A	24-Jul-14 A				
C3840-AGW-010	Site clearance	24d 0d	13-Nov-13 A	10-Dec-13 A	100%	Site/clearance		
C3840-AGW-020	Trial Pit/trench excavation	69d 0d	14-Nov-13 A	31-Mar-14 A	100%	Trial Pit/trench excavation		
C3840-AGW-030	Temporary Hoarding Erection	15d 0d	11-Dec-13 A	30-Dec-13 A	100%	Temeorary Hoarding Efection		
C3840-AGW-040	Pre-drilling works	24d 0d 3	30-Dec-13 A	24-Jan-14 A	100%	Pre-drilling works		
C3840-AGW-050	Permanent Hoarding Erection		28-Feb-14 A		100%	Permanent Hoarding Erection		
C3840-AGW-070	Joint Survey & Remove existing BS & ABWF Services			22-Feb-14 A	100%	Joint Survey & Rémove existing BS & ABW/F Services		
C3840-AGW-080	Close D1 & Construct Flood Barrier at D1	9d 0d 2	23-Feb-14 A	27-Feb-14 A	100%	Close D1 & Construct Flood Barrier at D1		
C3840-AGW-100	Demolish D1 above GL	12d 0d 1	18-Mar-14 A	24-Apr-14 A	100%	Demolish D1 above GL		
Current Bar	Critical Remaining Work	Data Date: 01-Jun-18		1				
Actual Work	 ♦ Milestone 	Page 7 of 26				Master Programme Revision RMPRSA1		Date
Remaining W	lork	1 490 7 01 20						01-Jun-18

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		Activity Name		Pom Stort	Finich	0/ 1	Total	Tsim Sha Tsui Sta	ntract C3 tion, Car		Road	Subway	/		2016				2017			MA			
)				Rem Start Dur	Finish	Complete	Float	2014 O N D J F M A M J Jul A				S O N	D J F	MAM	2016 J Jul A	s o	N D J	FMAM		ASO	N D J	FMA	M J J	ASO	N
C	C3840-AGW-120	Install temporary steel deck platform in D1 opening	9d	0d 25-Apr-14 A	22-May-14 A	100%		inștali temp	orary steel deck	platform in D1	1 opening														
C	C3840-AGW-130	Relocate hoarding along south footpath	4d	0d 08-May-14 A	13-May-14 A	100%		Relocate ho	arding along sou	ith footpath															
С	C3840-AGW-140	Implement TTA stg 1 to expose utilities/left-in piles & slewing cables as necessary along south footpath	ı 1d	0d 23-May-14 A	23-May-14 A	100%		I Implement	TTA stg 1 to exp	oose utilities/lef	t-in piles &	lewing cable	s as nece	essary along	south foo	tpath							-		
С	C3840-AGW-150	Complete expose utilities/left-in piles & cable slewing as necessary	0d	0d	21-Jul-14 A	100%		♦ Con	nplete expose ut	ilities/left-in pile	es & cable s	ewing as neo	cessary												
С	C3840-AGW-160	Implement TTA stg 2 (diversion of pedestrain route)	1d	0d 22-Jul-14 A	22-Jul-14 A	100%		I Imp	lement TTA stg :	2 (diversion of	pedestrain	route)													
C	C3840-AGW-170	Relocate hoarding to suit pipe piling	4d	0d 23-Jul-14 A	24-Jul-14 A	100%		I Rel	ocate hoarding t	o suit pipe pilin	ng														
Piles	es & Grouting for Ver	tical Shaft	113d	0d 08-Apr-14 A	18-Oct-14 A																				
									Dist Dist and	0-4-4															
	C3840-EVS-010	Mobilization for Piling Rig and Setup		0d 08-Apr-14 A	· ·			Mobilization fo																	
C	C3840-EVS-015	1 no. test pile & 3 nos. performance piles	6d	0d 08-May-14 A	22-May-14 A	100%		🗖 1 nho. test þ	ile & 3 nos. perf	ormance piles															
С	C3840-EVS-020	39 nos. pipe piles	35d	0d 23-May-14 A	09-Aug-14 A	100%		39) nos. pipe piles																
C	C3840-EVS-040	Curtain Grouting at vertical shaft	18d	0d 25-Aug-14 A	18-Oct-14 A	100%			Curtain C	couting at vert	tical shaft														
Piles	es & Grouting for Ter	nporary Staricase & C&C Subway	685d	0d 14-Jun-14 A	24-Sep-16 A																				
С	C3840-ETS-020	79 nos. pipe piles along Grid Line A	47d	0d 15-Jul-14 A	05-Feb-15 A	100%				🗖 79 nos. pip	oe piles alor	g Grid Line A				+									
C	C3840-ETS-028	Curtain Grouting for C&C, stage 1	24d	0d 23-Dec-14A	13-Mar-15 A	100%				Curtai	in Grouting	for C&C, stat	qe 1												
	C3840-ETS-029	Curtain Grouting for C&C, stage 2		0d 09-Aug-16A													rtain Grou	ing for C&C,	stane 2						
															-			ing for ede,	stage z						
	C3840-ETS-032	3 nos. pipe piles between Grids 1 & 2		0d 13-Oct-14 A						pipe piles betw															
C	C3840-ETS-042	Drill for H4 & H5 (exclude drilling for rock socket)	6d	0d 21-Oct-14 A	24-Oct-14 A	100%			Drill far I	14 & H5 (exclu	ide drilling f	or rock sockie	t)												
C	C3840-ETS-044	Drill for H5 (rock socket), H6, H7 & H8 and Install/grout for H4 to H8	17d	0d 02-Feb-15A	25-Feb-15 A	100%				Drill for I	H5 (rock so	cket), H/6, H/	7&H8a	nd Install/gro	out for H4	to H8									
С	C3840-ETS-052	Implement TTM 803	6d	0d 21-Oct-14A	22-Oct-14 A	100%			I Impleme	nt TTM 803															
С	C3840-ETS-053	Relocation of hoarding & Implement TTM 804	6d	0d 20-Nov-14 A	28-Nov-14 A	100%			🖪 Relo	cation of hoard	ding & Impl	ment TTM 8	804												
С	C3840-ETS-054	Trial trench excavation for driving sheet pile along Nathan Road	12d	0d 23-Oct-14A	04-Nov-14 A	100%			🗖 Tirial tre	ench excavation	n for driving	sheet pile ak	ong Nath	ian Road											
C	C3840-ETS-060	Type III Sheet Pile, 102m along Nathan Road	6d	0d 05-Nov-14 A	21-Nov-14 A	100%			🗖 Туре	III Sheet Pile,	102m along	Nathan Roa	ıd												
C	C3840-ETS-070	Type III Sheet Pile along Carnarvon Road	12d	0d 14-Jun-14 A	25 lun-14 A	100%			Sheet Pile alon	d Carnarvoh R	Road														
												D													
	C3840-ETS-075	Toe Grouting (only install grout pipe) along Carnarvon Road		0d 27-Jun-14 A		100%			routing (only ins																
C	C3840-ETS-080	Toe Grouting for sheet piles along Nathan Road & Carnarvon Road	8d	0d 20-Nov-14 A	03-Dec-14 A	100%			🗖 Toe	Grouting for s	sheet piles a	long Nathan	Road &	Carnarvon F	toad										
C	C3840-ETS-090	Mobilization; 2nd Piling Rig and Setup	4d	0d 05-Jul-14 A	14-Jul-14 A	100%		🔳 Мођі	lization; 2nd Pilir	ng Rig and Set	up														
С	C3840-ETS-091	Demobilization; 2nd Piling Rig	1d	0d 20-Sep-14A	20-Sep-14 A	100%			l Demobilizatio	on; 2nd Piling F	Rìg														
С	C3840-ETS-092	Mobilization; Drilling Rig for Curtain Grouting for TM800	1d	0d 26-Sep-14A	26-Sep-14 A	100%			I Mobilization	Drilling Rig for	r Curtain G	routing for TN	V800												
С	C3840-ETS-093	Demobilization; Drilling Rig for Curtain Grouting	1d	0d 16-Oct-14A	16-Oct-14 A	100%			l Demobiliz	ation; Drilling F	Rig for Cur	ain Grouting													
C	C3840-ETS-094	Mobilization; Drilling Rig for Curtain Grouting for TM803	1d	0d 22-Oct-14A	22-Oct-14 A	100%			I Mobilizat	ion; Drilling Rig	n for Curtai	Grouting for	r TM803												
	C3840-ETS-095	Demobilization for Drilling Rig & Mobilization for Curtain Grouting Rig		0d 12-Nov-14A						bilization for Dr					Pia										
														in Grouting r	xiy										
C	C3840-ETS-096	Demobilization: Curtain Grouting Rig	1d	0d 28-Nov-14 A	28-Nov-14 A	100%			l Dem	obilization: Cu	irtain Grout	ng Rig													
C	C3840-ETS-097	Mobilization: Drilling Rig	1d	0d 29-Nov-14 A	29-Nov-14 A	100%			I Mob	ilization: Drillin	g Rig														
C	C3840-ETS-098	Demobilization: Drilling Rig	1d	0d 12-Dec-14A	12-Dec-14 A	100%			I De	mobilization: D	Drilling Rig														
	Current Bar	Critical Remaining Work Data Date: 0	01-Jun-	18						<u>; ; ; ; ;</u>	<u> </u>	<u>; ; ; ; ;</u>	<u> </u>	<u>; ; ; ;</u>		<u> </u>			<u>: : :</u>		RMPS	<u> </u>		<u> </u>	<u> </u>
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	Remaining Worl	Page 8	01 20					_									01-J	un-18			E	3G		AW	

	MTR													C3840										
			Drig R	Rem Start	Finish	%	Total	T۹	sim	Sha	Tsui		on, C	arnar	von	201		ubwa	ıy			2016		
C3840-ETS-099	Mobilization: Curtain Grouting Rig		Dur [0d 13-Dec-14 A		Complete 100%		N D	JF	MA				D J F Mobiliza		MJJ	Jul A		DJ	FM			A S	ONDJ
																	Ī	Ĩ						
C3840-ETS-101	Demobilization: Curtain Grouting Rig			0d 14-Dec-14 A		100%								Demobil	lization	: Curtain	i Grout	ing Rig						
C3840-ETS-102	Demobilization: Piling Rig		1d	0d 25-Feb-15 A	A 25-Feb-15 A	100%									Demo	obilization	n: Piling	Rig						
C3840-ETS-110	56 nos. pipe piels along Grid Line B	2	25d	0d 24-Jul-14 A	11-Dec-14 A	100%								56 nos. p	pipe pie	els along	Grid L	ine B						
C3840-ETS-120	Curtain Grouting along Grid Line B	1	3d	0d 30-Sep-14 A	A 26-Jan-15 A	100%								Cu	ırtain G	Grouting	along (Grid Line I	в					
Piles & Grouting for	Remaining Section of Cofferdam at D2	e	63d	0d 17-Aug-16 A	A 30-Sep-16 A																			
C3840-ECD-010	Mobilization for Piling Rig and Setup		4d	0d 17-Aug-16 A	A 18-Aug-16 A	100%																	l Mot	ilization for P
C3840-ECD-012	Construct 2 nos. king posts		2d	0d 19-Aug-16 A	A 23-Aug-16 A	100%																	Cor	nstruct 2 nos.
C3840-ECD-020	Construct 22 nos. pipe piles at D2	2	22d	0d 25-Aug-16 A	A 17-Sep-16 A	100%																	— (Cohstruct 22
C3840-ECD-021	Construct 5 nos. pipe piles between Grids 1 & 2		7d	0d 19-Sep-16 A	A 26-Sep-16 A	100%																		Construct 5
C3840-ECD-022	Demobilize piling rig and mobilize & setup curtan grouting rig		2d	0d 19-Sep-16 A	A 20-Sep-16 A	100%																	1	Demobilize pi
C3840-ECD-030	Curtain Grouting along Grid Line B at D2			0d 21-Sep-16 A																				Curtain Gro
						100 %	1011																	Curtain Gro
	2 (Excavation for Temporary Staricase)	128	31d	0d 26-Jan-14 A	01-Aug-18		124d																	
Excavation		20)9d	0d 12-Feb-15 A	A 02-Nov-15 A																			
C3840-EXC-100	Pump test prior to excavate for temporary staricase	2	24d	0d 12-Feb-15 A	A 18-Feb-15 A	100%									Pump	test prior	r to exc	avate for	tempor	ary stari	case			
C3840-TSE-10	Demolish temporary D1 & investigation of extent and nature of artificial obstruction	n 6	6d	0d 26-Feb-15 A	A 19-May-15 A	100%								-		Dem	nolish te	emporary	D1 & ir	ivestigati	ion of ex	xtent and	d nature	e of artificial c
C3840-TSE-12	Excavate (+5.5mPD to +4.7mPD), install waling/strut (L1), traffic deck & partially r obstruction	remove unknown	35d	0d 26-Feb-15 A	A 11-Apr-15 A	100%								-		Excavate	e (+5.5r	mPD to +4	4.7mPD), install	waling/s	strut (L1), traffic	deck & parti
C3840-TSE-14	Excavate 2nd layer (+4.7mPD to +1.7mPD) install waling L1A/L1B & partially rem obstruction	ove unknown 2	23d	0d 13-Apr-15 A	09-May-15 A	100%										Excav	/ate 2n	d layer (+	4.7mP[) to +1.7	mPD) ir	nstall wa	ling L1/	VL1B & parti
C3840-TSE-16	Flame cut existing encasing sheetpiles up to +1.7mPD	1	6d	0d 06-May-15 A	A 23-May-15 A	100%										🗖 Flar	ne cut	existing e	ncasing	sheetpi	es up tc) +1.7mF	PD	
C3840-TSE-18	Lagging between pipe piles and preparation works for waterproofing to +1.7mPD) 1	8d	0d 14-May-15 A	A 05-Jun-15 A	100%										📫 La	agging I	between j	pipe pile	es and p	reparat	on work	s for wa	aterproofing t
C3840-TSE-20	Existing concrete infill removal up to +1.7mPD	1	2d	0d 21-May-15 A	A 04-Jun-15 A	100%										🗖 É×	disting c	xoncrete ir	nfill rem	oval up 1	o +1.7m	nPD)		
C3840-TSE-22	Waling & strut installation L2		9d	0d 01-Jun-15 A	10lun-15 A	100%										• •	/aling 8	& strut inst	allation	12				
C3840-TSE-24	Excavation from +1.7mPD to -0.87mPD			0d 05-Jun-15 A		100%												tion from			97-00			
																			<u> </u>					
C3840-TSE-26	Flame cut existing encasing sheetpiles up to -0.87mPD		7d	0d 09-Jun-15 A	16-Jun-15 A	100%										∎ F	lame c	cut existing	g encas	ng shee	tpilės up	o to -0.8	7mPD	
C3840-TSE-28	Existing concrete infill & RC wall removal up to -0.87mPD	1	3d	0d 12-Jun-15 A	27-Jun-15 A	100%											Existin	ig concret	e infill &	RC wal	⊥ remova	al up to ·	0.87ml	Ъ
C3840-TSE-30	Lagging between pipe piles and preparation works for waterproofing to -0.87mPl	D 2	23d	0d 16-Jun-15 A	14-Jul-15 A	100%										-	Lag	ging betw	een pip	a piles ar	nd prepa	aration	works f	or waterproo
C3840-TSE-31	Excavate up to +4.2mPD at C&C (grid 2-4) & install traffic deck	3	34d	0d 22-Jun-15 A	31-Jul-15 A	100%										-	E Ex	cavate up	to +4.2	2mPD at	C&C (p	grid 2-4)	& insta	ll traffic deck
C3840-TSE-32	Excavation from -0.87mPD to -2.2mPD	1	8d	0d 16-Jul-15 A	05-Aug-15 A	100%											Ē	xcavation	from -C	.87mPD	to -2.2r	mPD		
C3840-TSE-34	Flame cut existing encasing sheetpiles up to -3.3mPD	1	5d	0d 20-Jul-15 A	05-Aug-15 A	100%											FI	lame cut e	existing	encasine	g sheetr	oiles up t	o -3.3m	ιPΦ
C3840-TSE-36	Existing concrete infill & RC wall removal up to -3.3mPD	1	2d	0d 30-Jul-15 A	12-Aug-15 A	100%												Existing co	ncrete	infill & R	C wall r	emoval	up to -3	3.3mPD
C3840-TSE-38	Lagging between pipe piles and preparation works for waterproofing to -3.3mPD	•	9d	0d 10-Aug-15 A	A 19-Aug-15 A	100%												Lagging b	etweer	ı pipe pil	es and p	preparat	ion wor	ks for water
C3840-TSE-40	Waling & strut installation L3		6d	0d 13-Aug-15 A	A 19-Aug-15 A	100%												Waling &						
C3840-TSE-42	Excavation (grid 1-2) up to -3.3mPD			0d 25-Aug-15 A														Excavat				mPD		
C3840-TSE-44	Flame cut existing encasing sheetpiles up to -3.3mPD		6d	0d 28-Aug-15 A	4 04-Sep-15 A	100%												Flame o	cut exist	ng enca	sing she	eetpiles	up to -3	.3mPD
Current Bar	Critical Remaining Work	Data Date: 01-	Jun-1	18				• -		-			-		_									
Actual Work	Milestone	Page 9 of	26					M	ast	er P	rogr	amn	e Ke	evisio	n R	KMP	KS.	AI						01-
Remaining W	/ork																							<u> </u>

posts pipe piles at D2 pipe piles between Grids;1 &2 is and mobilize & seup curtan growing rg is and mobilize & seup curtan growing rg is and mobilize & seup curtan growing rg is and mobilize & seup curtan growing rg is and mobilize & seup curtan growing rg uction is an D2 withon is an D2 prove unknown obstruction is an information of the second															V									
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D		Activity Name	Du	r I	Rem S Dur		Finish	% Complete		
	C3840-TSE-48	Lagging between pipe piles and preparation works for waterproofing to -3.	.3mPD 3c	ł	0d (05-Sep-15 A	08-Sep-15 A	100%	0%	vaterproofi
	C3840-TSE-50	Waling & strut installation L4	60	ł	0d (09-Sep-15 A	15-Sep-15 A	100%	0% 🔲 Waling & strut installation:L4	
	C3840-TSE-52	Excavation up to formation at grid 1-2 & up to +3.75mPD at grid 2-4	180	ł	0d (09-Sep-15 A	30-Sep-15 A	100%	0% Excavation up to formation at grid 1-2 & up to +3.75m	PD at grid
	C3840-TSE-58	Lagging between pipe piles and preparation works for waterproofing to for	rmation level 40	t	0d 2	26-Oct-15 A	02-Nov-15 A	100%	0%	ks for wate
	C3840-TSE-60	Formation & place mass concrete foundation stage 1	20	ł	0d 2	24-Sep-15 A	26-Sep-15 A	100%	0% Il Formation & plaçe mass concrete foundation stage 1	
-	C3840-TSE-62	Place mass concrete formation (remaining)	30	ł	0d 2	28-Oct-15 A	02-Nov-15 A	100%	0%	
	Additional Unforseen	Obstruction	660	ł	0d (03-Jul-15 A	27-Oct-15 A			
	C3840-AOB-100	Prepare MS and carryout trial for trimming bulged section of existing TST	Stn wall 1c	t l	0d (03-Jul-15 A	07-Jul-15 A	100%	0% I Preparel MS and carryout trial for trimining bulged section of ext	stina TST
	C3840-AOB-102	Investigation, prepare MS and trimming to expose rebar at exising TST Str					04-Aug-15 A	100%		
	C3840-AOB-104	Remove overpour section of TST Stn wall from +1.0mPD to -1.0mPD	40	ł	0d (07-Aug-15 A	11-Aug-15 A	100%	0% I Remove overppur section of †ST Stri weill from ∔1.≬mPD tr	o -1 0m PD
	C3840-AOB-106	Prepare MS and trimming to expose rebar at existing subway wall	50	Ł	0d (07-Aug-15 A	12-Aug-15 A	100%	0% I Prepare MS and trimming to expose rebar at existing subwa	ay wall
	C3840-AOB-108	Remove overpour section of wall at existing subway from -1.0mPD to -2.0r	mPD 2c	Ł	0d -	14-Aug-15 A	15-Aug-15 A	100%	0% I Remove overplour, section of wall at existing subway from -	1.0mPD to
	C3840-AOB-110	Remove overpour section of wall at existing subway from -2.0mPD to -3.5m	mPD 300	ł	0d ·	15-Aug-15 A	19-Sep-15 A	100%	0% Remove overpout section of wall at existing subway fro	om -2.0/mP
	C3840-AOB-112	Remove overpour section of RC structure at TST Station from -3.5mPD to	o formation level 290	ł	0d 2	21-Sep-15 A	27-Oct-15 A	100%	0% Remove overpour section of RC structure at TST	Station fro
R	Removal of ACM by Oth	ner	310	ł	0d (08-Oct-14 A	16-Nov-14 A			
	C3840-ACM-100	Diversion of existing BS & MCB at the breakthrogh location	60	ł	0d (08-Oct-14 A	18-Oct-14 A	100%	0% ■ Diversion of existing BS & MCB at the break through location	
	C3840-ACM-105	Relocation of existing EIB at Entrance D, Concourse Level (additional work	<) 9c	4	0 b0	08-Oct-14 A	24-Oct-14 A	100%	0%	
	C3840-ACM-110	Removal of ACM by other	60				16-Nov-14 A	100%	0%	
R	C Structure (Temporar	y Staricase)	160c	ł	0d ·	19-Aug-15 A	12-Mar-16 A			
	Section between Gric	d 2 and 4	94c	ł	0d '	19-Aug-15 A	20-Nov-15 A			
	Bay 1 (Base Slab a	t +0.18mPD)	150	ł	0d ·	19-Aug-15 A	31-Aug-15 A			
	C3840-TSR-100	Falsework & soffit fwk	40	ł	0d ⁻	19-Aug-15 A	22-Aug-15 A	100%	0%	
	C3840-TSR-105	Rebar fixing	40	ł	0d 2	25-Aug-15 A	28-Aug-15 A	100%	0% II Rebar fixing	
	C3840-TSR-110	Water proofing system, erect fwk & concreting (13.5m3)	100	ł	0d 2	20-Aug-15 A	31-Aug-15 A	100%	0%	
	Bay 2 (Walls from -	-0.36mPD to +2.2mPD)	60	ł	0d (01-Sep-15 A	08-Sep-15 A			
	C3840-TSR-120	Rebar fixing for sidewall and end wall	20	ł	0d (01-Sep-15 A	02-Sep-15 A	100%	0% I Rebar fixing for sidewall and end wall	
		Install water proofing membrane, fwk erection & concreting (5.0m3)	40				08-Sep-15 A	100%		ting (5.0m)
								100%	0%	ung (S.Dm.
	Bay 3 (Staircase at	: from +2.2 to +4.2mPD)	70				16-Sep-15 A			
	C3840-TSR-135	Falsework & soffit fwk	20	ł	0d (09-Sep-15 A	10-Sep-15 A	100%	0% I Falsework & soffit two	
	C3840-TSR-140	Rebar fixing	30	t	0d ·	11-Sep-15 A	14-Sep-15 A	100%	0% I Rebar fixing	
	C3840-TSR-145	Water proofing, fwk and concreting (6.0m3)	30	Ł	0d -	14-Sep-15 A	16-Sep-15 A	100%	0% I Water proofing, fwk and concreting;(6.ψm3)	
	Bay 4 (Staircase fro	om +4.2 to +6.1mPD)	60	ł	0d ⁻	17-Sep-15 A	23-Sep-15 A			
	C3840-TSR-185	Rebar fixing	40	t t	0d ⁻	17-Sep-15 A	21-Sep-15 A	100%	0% I Rébar fixing	
	C3840-TSR-190	Fwk & concreting (14.5m3)	30	4	0d 2	21-Sep-15 A	23-Sep-15 A	100%	0% I Fwk & concreting (14.5m3)	
	Current Bar	Critical Remaining Work	Data Date: 01-Ju	un-'	18				Master Programma Devision DMDDS 1	Dat
	Actual Work Remaining Worl	♦ ♦ Milestone	Page 10 of 2	6					Master Programme Revision RMPRSA1	1-Jun-1
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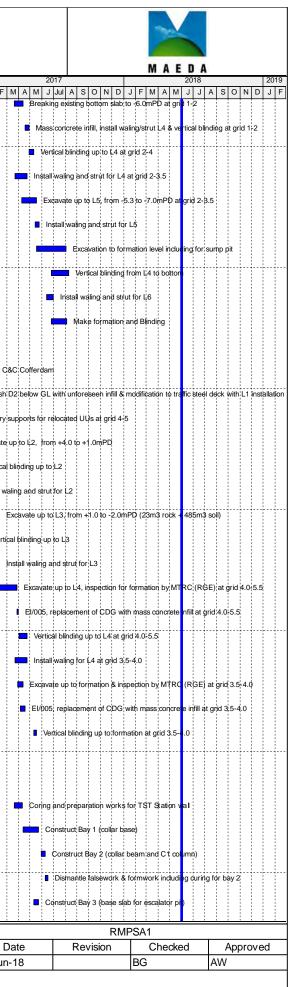
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ctivity ID		Activity Name	Dur	Du		Finish	% Complete	Total Float	ND	JFMA	20 M J	14 Jul A S	S O N	DJ	F M A	20 M J	015 Jul A	SON	D J	FM	AM	2016 1 J Jul	I A S	O N	DJF	F
	Bay 5 (Staircase fr	om +0.33 to 2.2mPD)	10d	0	d 24-Sep-15 A	29-Sep-15 A																				
	C3840-TSR-200	Soffit fwk	2d	0	d 24-Sep-15 A	25-Sep-15 A	100%											I Soffit fv	vk							
	C3840-TSR-210	Rebar fixing, fwk for risers & concreting (2.0m3)	2d	0	d 26-Sep-15 A	29-Sep-15 A	100%											Rebar	fixing,	fwk for	risers	& conc	reting (2	1.0m3)		
	Bay 6 (walls & roo	f from 2.2mPD to 4mPD)	12d	0	d 02-Oct-15A	12-Oct-15 A																				
	C3840-TSR-150	Strike fwk, form cj, install waterproofing membrane & rebar fixing	4d	0	d 02-Oct-15 A	06-Oct-15 A	100%											Strike	fwk,	orm cj,	install	waterpi	oofing	nembra	ne & reb:	ar
	C3840-TSR-165	Erect fwk/working platform & concreting (16.0m3)	5d	0	d 07-Oct-15A	12-Oct-15 A	100%											Erect	fwk/v	vorking	platfor	m & co	ncreting	(16.0m	3)	-
	Bay 7 (walls & roo	f from +4mPD to +5.7mPD)	6d	0	d 13-Oct-15A	19-Oct-15 A																				
	C3840-TSR-215	Strike fwk, remove working platform, form cj & rebar fixing	2d	0	d 13-Oct-15A	14-Oct-15 A	100%											I Strike	e fwk,	remov	e work	ing plat	form, fo	rm cj&r	ebar fixin	١g
	C3840-TSR-225	Falsework, fwk, working platform & concreting (13.5m3)	4d	0	d 15-Oct-15 A	19-Oct-15 A	100%											I Fals	ework	i, fwk, v	vorkinç	gplatfor	m & coi	creting	(13.5m3))
	Bay 8 (walls & roo	f above +5.7mPD)	45d	0	d 20-Oct-15A	20-Nov-15 A																				
		Strike fwk, remove working platform, form cj., erect fwk & rebar fixing	10d	0	d 20-Oct-15A	31-Oct-15 A	100%											Str	ike fw	k. rem	ove wo	rkina p'	atform.	form ci	erect fwl	(k é
		Falsework, fwk, working platform & concreting (33.5m3)				02-Nov-15 A	100%																			
			10d																						g (33.5m	3)
		Erect fwk and concreting (2m3) for upstand wall	2d			05-Nov-15 A	100%																	pstaind w		
	C3840-TSR-237	Concrete curing and remove fwk/falsework	15d	0	d 03-Nov-15 A	20-Nov-15 A	100%												Concr	əte curi	ng and	remove	∍ fwk/fa	lsework		
	Section between Grid	d 1 and 2	111d	0	d 28-Oct-15 A	12-Mar-16 A																				
	Bay 9 (Collar Fram	e up to -4.3mPD)	35d	0	d 28-Oct-15 A	16-Nov-15 A																				
	C3840-TSR-500	Coring dowel bars holes & form groove/cj	12d	0	d 28-Oct-15 A	11-Nov-15 A	100%											c	oring	dowel b	ars hol	olles & fo	rm groo	ve/¢j		
	C3840-TSR-505	Install waterproofing membrane/dowel bars	5d	0	d 04-Nov-15 A	09-Nov-15 A	100%											In	stall w	aterpro	ofing n	membra	ine/dow	el bars		
	C3840-TSR-510	Rebar fixing	2d	0	d 11-Nov-15 A	12-Nov-15 A	100%											IR	ebar	ixing						
	C3840-TSR-515	End fwk shuttering & concreting collar to slab (2.5m3)	3d	0	d 13-Nov-15 A	16-Nov-15 A	100%											1 E	nd fw	k shutti	ering &	concre	ting coll	ar to slat	b (2.5m3))
	Bay 12 (Base Slab	at -4.32mPD)	13d	0	d 04-Nov-15 A	19-Nov-15 A																				-
	C3840-TSR-540	Construct base slab (20.0m3)	13d	0	d 04-Nov-15 A	19-Nov-15 A	100%												Consti	uct bas	se slab	(20.0m	3)			
	Bay 10 (Collar Fran	me up to -2mPD)	9d	0	d 20-Nov-15 A	27-Nov-15 A																				
	C3840-TSR-520	Erect working platform, install waterproofing membrane & rebar fixing	3d	0	d 20-Nov-15 A	24-Nov-15 A	100%												Erect	workine	g platfo	orm, inst	all wate	rproofin	g membra	ran
	C3840-TSR-525	Fwk & concreting to -2.2mPD (1.5m3)	4d	0	d 25-Nov-15 A	27-Nov-15 A	100%											1	Fwk	& concr	eting to	o -2.2ml	PD (1.5	m3)		
	Bay 13 (Walls up to	o -3.2mPD)	7d	0	d 27-Nov-15 A	07-Dec-15 A																				
		Install water proofing system, rebar fixing for W1, W2, W3 & 250 mm partit	ion wall 3d	0	d 27-Nov-15A	30-Nov-15 A	100%												Insta	lwater	probfir	nh svete	m reh:	t fixina f	or W1, W	No
		Erect working platform, fwk shuttering & concreting (9.0m3)				07-Dec-15 A	100%																	-	concreting	
			4d				100 %											•	LIC		ng piau	UIII, IW	in shut	ing a c	Uncrearing	31
		ne up to +1.2mPD)	12d			07-Dec-15 A																				
	C3840-TSR-530	Erect working platform, Install waterproofing membranne & rebar fixing	5d	0	d 30-Nov-15 A	03-Dec-15 A	100%																		ng memb	γ
	C3840-TSR-535	Fwk & concreting to collar (4.0m3)	7d	0	d 01-Dec-15 A	07-Dec-15 A	100%											•	Fwk	& conc	reting t	to collar	(4.0m3)		
	Bay 14 (Walls up to	o -0.96mPD) and Bay 18a (Stair)	6d	0	d 08-Dec-15 A	28-Dec-15 A																				
	C3840-TSR-560	Construct bay 14 (18.5m3)	6d	0	d 08-Dec-15 A	15-Dec-15 A	100%												Co	istruct I	bay 14	(18.5m	3)			
	C3840-TSR-602	Construct bay 18a (3.5m3)	5d	0	d 19-Dec-15 A	28-Dec-15 A	100%												C	onstruc	it bay 1	18a (3.5i	m3)			
	Current Bar	Critical Remaining Work	Data Date: 01-Ju	n-18	3				: : :		: : :		: :	: : :	<u> </u>	: :	<u> </u>	<u>: : : :</u>	:		<u> </u>	<u>: :</u>	<u>: :</u>	<u> </u>		
	Actual Work	Milestone	Page 11 of 20	5					M	aster F	Prog	ramı	me F	Revis	ion l	RMI	PRS	SA1						ľ		D
	Remaining Wor	k		-																				ľ	01-Ju	in
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bar fixing						
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		Activity Name	Orig Dur	Rem Dur	Start	Finish	% Complete	e Tota Floa	I ^t O N D J F I	2014 4 A M J Ju		ND	JFMA	2015 M J Jul	ASO		20 1 A M J		ON	D J F M		2017 J Jul A S	SOND	JEM	2018 A M J J	AS
	Bay 15 (Walls up t) +1.25mPD)	13d	0d	23-Dec-15 A	A 07-Jan-16 A	1												-							
	C3840-TSR-580	Remove platform & strike fwk, propping, water proofing, re-bar fixing, fwk suttering & concreting	13d	0d	23-Dec-15 A	A 07-Jan-16 A	100%	5				+				🗖 Remo	ve platform 8	strike fwk,	proppir	g, water prod	ofing, re-b	ar fixing, fv	vk suttering &	cohcreting (20m <mark>3</mark>)	
	Bay 16 (Walls & Ro	(20m3)	32d	0d	08-Jan-16 A	13-Feb-16A																				
		·																								
	C3840-1 SR-590	Remove fwk, form cj, install WPS, remove L2, re-propping & erect falsework	5d	Ud	08-Jan-16 A	16-Jan-16 A	100%									Remo	ove twk, torn	n cj, instali vv	PS, ren	nove L2, re-pi	ropping &	erect talse	work			
	C3840-TSR-595	Construct wall & roof slab (31.5m3)	14d	0d	18-Jan-16 A	23-Jan-16 A	100%	5								Con:	struct wall &	roof slab (31	i.5m3)							
	C3840-TSR-600	Concrete curing, coring, saw cut & breakthrough, removal of scaffold/falsework/fwk, repropping	13d	0d	25-Jan-16 A	13-Feb-16 A	100%	5								– C	oncrete curir	ig, coring, sa	aw cut 8	breakthroug	h, remova	al of scaffo	ld/falsework/fv	wk, reproppi	ng	
	Bays 17 and 18b (Stairs up to 2nd Landing)	7d	0d	15-Feb-16 A	A 20-Feb-16 A																				
	C3840-TSR-585	Construct staircase (8.0m3)	7d	0d	15-Feb-16 A	A 20-Feb-16A	100%	5									onstruct sta	rcase (8.0m	13)							
	Construction of R		7d			A 12-Mar-16 A																				
	C3840-TSR-604	Construct Refuse Bin	7d	0d	03-Mar-16 A	A 12-Mar-16 A	100%									•	Construct I	Refuse Bin								
Milest	tones for Cost Cer	tre D - Temporary Entrance	1584d	0d	26-Jan-14 A	01-Aug-18		1510																		
C3	840-MS-D01	D1 - Comp. removal of all overhead signs affecting Works for the Temp. Entrance	0d	0d		26-Jan-14 A	100%		◆ D1	- Comp. remova	al of all over	head sig	ns affecting \	Vorksforthe	e Tempi. Ent	ance							+			
C3	840-MS-D02	D2-Comp. 20% of cofferdam for T. E. and all U/G UU diversion/protection for T.E. cofferdam	0d	0d		06-Sep-14 A	100%	5			♦ D2-	Comp. 2	0% of coffere	lam for T. E.	and all U/G	UU diversion/p	rotection for	T.E. cofferda	iam							
00	040 MC D02			04					_																	
63	840-MS-D03	D3 - Comp. temp. cofferdam and grouting (excl. satisf. comp. of pump test)	0d	0d		18-Feb-15 A	100%						◆ D3 - 1	omp. temp.	. conerdam	ind grouting (e:	kçi. Sətist co	np. or pump	(test)							
C3	840-MS-D04	D4-Comp. 66% const. of temp. stair measured by vol. of conc. poured & comp. form. open. into TST \ensuremath{Stn}	0d	0d		13-Feb-16 A	100%									◆ D	4-Comp. 66	6 const. of te	emp. sta	ir measured i	by vol. of	conc, pour	ed & comp. fc	orm. open. in	to TST Stn	
C3	840-MS-D05	D5-Open Temporary Entrance for use	0d	0d		06-Jul-16 A	100%	5										♦ Þ5-Open	1 Tempc	rary Entrance	e for use					
C3	840-MS-D06	D6-Comp. demolition of Temp. Entrance and disposal of all C&D waste arising there from	0d	0d		01-Aug-18	0%	5 151	1																	♦ D6-Co
pen C	ut Sequence 3 (A	dvance Ground Works at D2 & in front of D1)	178d	0d	17-Nov-15 A	A 17-Sep-16 A																				
C384	0-ELS-400	Expose underground UUs and provide support to UUs; at grid 1-4	132d	b0	17-Nov-15/	A 30-Apr-16 A	100%										Erro			s and provide	support	to Illie: at	arid 1-4			
C3840	D-ELS-410	Expose existing sewer & strom drainage/trim concrete surround for PCCW cable ducts & 1st lift of PCCW cable ducts	36d	0d	03-May-16 /	A 16-Jun-16 A	100%											Expose exis	ting sev	er & strom dr	rainage/tri	im concret	e surround fo	r PCCW cab	ile ducts & 1	st lift of F
C3840	0-ELS-420	Re-arrange existing sewer & strom drainage/ 2nd lift of PCCW cable ducts & provide support to cable ducts	50d	0d	17-Jun-16 A	09-Sep-16 A	100%	5										R	.e-arran	je existing se	wer & stro	om draina¢	ge/ 2nd lift of F	PCCW cable	ducts & pro	vide sup
C3840	D-ELS-430	Partial demolition of existing subway slab and coring through for two nos. king posts	12d	0d	28-Jul-16 A	18-Aug-16 A	100%	5										Part	tial dem	lition of existi	ing subwa	ıy slab and	coring throug	gh for two no	is. king post	5
C3840	0-ELS-450	Partial demolition of existing subway slab and coring through existing subway for piling PP175 to	12d	0d	12-Sep-16 A	A 17-Sep-16 A	100%	5	-										Partial c	emolition of e	xisting sul	bway slab	and coring thr	rough éxistin	g subway fo	r piling P
C2040	0-ELS-510	PP179 Joint Survey & Remove existing BS & ABWF Services at D2	6d	60	07-Jul-16 A	16-Jul-16 A	100%											Ioint Su	1000 P	Remove existir	ing DS \$ /		vienc et D2			
			bu																							
C3840	0-ELS-520	Erect FRP hoarding and flood gate/scaffolding platform for demolish D2	9d	0d	12-Jul-16 A	26-Jul-16 A	100%											Erect F	RP họa	rding and floc	od gate/sc	affolding p	latform for de	molish D2		
C3840	0-ELS-530	Demolish D2 above GL	12d	0d	14-Jul-16 A	09-Aug-16 A	100%	5	1									🗖 Demo	olish D2	above GL						
C3840	0-ELS-540	Erect piling platform and shift hoarding	6d	0d	10-Aug-16 A	A 20-Aug-16 A	100%	5						+		-+		Erec	ct piling	platform and s	shift hoar	ding				
pen C	ut Sequence 4 (E	xcavation for Subway in front of D1)	249d	0d	31-Jul-16 A	09-Aug-17 A																				
C3840	D-ELSD1-102	Install support beam, load transfer & remove concrete support at grid 2	8d	hQ	31-Jul-16 A	14-Sep-16 A	100%	5											Install	pport beam	load trans	sfer & rem	ove concrete s	support at or	id 2	
C3840	0-ELSD1-115	Complete excavation up to +1.0mPD including vertical blinding/install L2 & struts	74d	0d	03-Oct-16 A	11-Jan-17 A	100%													Comple	te excava	tion up to	+1.0mPD inclu	uding vertical	blinding/ins	all L2 &
C3840	0-ELSD1-145	Remove existing subway 7.5m below G.L. and excavate to L3 (-2.0mPD) with unforeseen infill	29d	0d	28-Dec-16 A	A 04-Mar-17 A	100%	6	1											R	(emove e)	kisting subv	way 7,5m belo	ow G.L. and	excavate to	L3 (+2.0r
C3840	D-ELSD1-155	Vertical blinding up to L3	8d	0d	09-Jan-17 A	27-Feb-17 A	100%	5						+						Ve	ertical blin	nding up to	∟3			
C3840	D-ELSD1-165	Install waling and strut for L3	6d	0d	25-Jan-17 A	17-Mar-17 A	100%	5	-												Install wa	aling and str	ruit for L3			
)-ELSD1-175	Remove existing subway 10.6m below G.L. and excavate to L4 (-5.3mPD) with unforeseen infill	29d	64	14-Feb-17/	A 31-Mar-17 A	100%																subway 10.6m	below C	and everyon	te to 1 4
		אוווישט אישטיאט אישטיאט אישטיאט אישטיאט אישטאט אישטאטעראין אוווישטיאטאטאט אוווישטיאטאטאט אישטאטאטאטאטאטאטאטאטא	290	Ju			100%														TREITIONE	- i - i - i -	subway 10.6m	JOIOW G.L.	unu excaval	- 10 L4 (·
C	urrent Bar	Critical Remaining Work Data Date:	01-Jun	n-18						_		_												IPSA1		
	ctual Work	♦ ♦ Milestone							Maste	r Progre	mmo	Ros	ricion l	ノ N/I D D	N A 1				1	Date	é		evision	I Chr	ecked	A

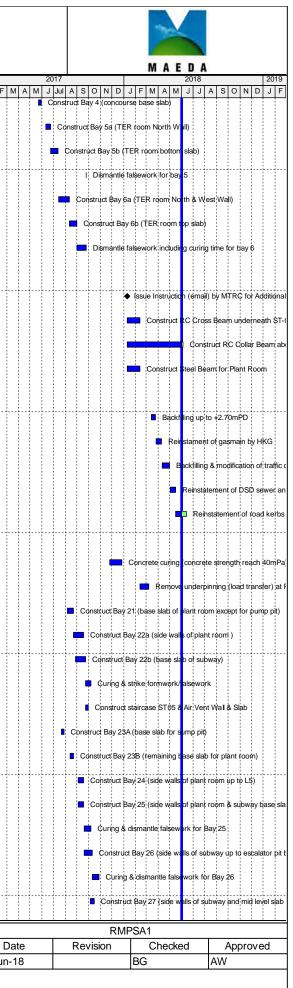


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	C3840-ELSD1-177	Breaking existing bottom slab to -6.0mPD at grid 1-2		1d	0d 20-Mar-17 A	13-Apr-17 A	100%																							
	C3840-ELSD1-179	Mass concrete infill, install waling/strut L4 & vertical blinding at grid 1-2		1d	0d 18-Apr-17 A	28-Apr-17 A	100%																							
	C3840-ELSD1-185	Vertical blinding up to L4 at grid 2-4		8d	0d 29-Apr-17 A	10-May-17 A	100%																							
	C3840-ELSD1-195	Install waling and strut for L4 at grid 2-3.5		6d	0d 23-Mar-17A	22-Apr-17 A	100%																							
	C3840-ELSD1-205	Excavate up to L5, from -5.3 to -7.0mPD at grid 2-3.5	2	27d	0d 10-Apr-17 A	17-May-17 A	100%																							
-	C3840-ELSD1-225	Install waling and strut for L5		6d	0d 15-May-17 A	25-May-17 A	100%																							
-	C3840-ELSD1-235	Excavation to formation level including for sump pit		48d	0d 18-May-17 A	02-Aug-17 A	100%																							
-	C3840-ELSD1-245	Vertical blinding from L4 to bottom		8d	0d 26-Jun-17 A	09-Aug-17 A	100%																							
_	C3840-ELSD1-255	Install waling and strut for L6		6d	0d 13-Jun-17 A	30-Jun-17 A	100%																							
	C3840-ELSD1-330	Make formation and Blinding		4d	0d 26-Jun-17 A	05-Aug-17 A	100%																							
C	Open Cut Sequence 4 (E	xcavation for D2 & Subway in front of D2)	20	01d	0d 26-Sep-16 A	18-May-17 A																								
	C3840-ELSD2-100	Pump test at C&C Cofferdam	2	24d	0d 26-Sep-16A	11-Oct-16 A	100%																					Pump	test at	C&
	C3840-ELSD2-115	Demolish D2 below GL with unforeseen infill & modification to traffic steel deck with L1	installation 4	40d	0d 04-Oct-16 A	25-Nov-16 A	100%)emoli:	sh D
	C3840-ELSD2-122	Temporary supports for relocated UUs at grid 4-5		15d	0d 05-Oct-16A	09-Nov-16 A	100%																					🗖 Tei	mpora	rysı
	C3840-ELSD2-145	Excavate up to L2, from +4.0 to +1.0mPD		13d	0d 29-Oct-16 A	28-Nov-16 A	100%																						Excavat	
	C3840-ELSD2-155	Vertical blinding up to L2		8d	0d 01-Dec-16A	15-Dec-16 A	100%																						Vertic	
_	C3840-ELSD2-165	Install waling and strut for L2		6d	0d 22-Nov-16A		100%																						Install	
_	C3840-ELSD2-175	Excavate up to L3, from +1.0 to -2.0mPD (23m3 rock + 485m3 soil)		28d	0d 13-Dec-16A		100%																							
	C3840-ELSD2-185			8d	0d 22-Dec-16 A		100%																						🗖 Vei	
		Vertical blinding up to L3																												
	C3840-ELSD2-195	Install waling and strut for L3		6d	0d 19-Dec-16A		100%																							ins
	C3840-ELSD2-205	Excavate up to L4, inspection for formation by MTRC (RGE) at grid 4.0-5.5		40d	0d 11-Feb-17 A		100%																							
	C3840-ELSD2-207	El/005, replacement of CDG with mass concrete infill at grid 4.0-5.5		4d	0d 28-Mar-17 A		100%																							
	C3840-ELSD2-215	Vertical blinding up to L4 at grid 4.0-5.5		10d	0d 03-Apr-17 A	22-Apr-17 A	100%																							
	C3840-ELSD2-225	Install waling for L4 at grid 3.5-4.0		6d	0d 23-Mar-17 A	22-Apr-17 A	100%																							
	C3840-ELSD2-235	Excavate up to formation & inspection by MTRC (RGE) at grid 3.5-4.0		12d	0d 29-Mar-17 A	13-Apr-17 A	100%																							
	C3840-ELSD2-237	El/005, replacement of CDG with mass concrete infill at grid 3.5-4.0		5d	0d 06-Apr-17 A	18-Apr-17 A	100%																							
	C3840-ELSD2-240	Vertical blinding up to formation at grid 3.5-4.0		8d	0d 11-May-17 A	18-May-17 A	100%																							
C	Open Cut Sequence 5 (C	onstruction of Subway & D2)	36	56d	12d 21-Mar-17 A	14-Jun-18		163d																						
	RC Structure at D1 Side	(Between Grids 1 and 1.8)	16	62d	0d 21-Mar-17 A	26-Sep-17 A																								
	C3840-STR-D1-001	Coring and preparation works for TST Station wal		16d	0d 21-Mar-17 A	11-Apr-17 A	100%																							
	C3840-STR-D1-100	Construct Bay 1 (collar base)	2	22d	0d 12-Apr-17 A	22-May-17 A	100%																							
	C3840-STR-D1-110	Construct Bay 2 (collar beam and C1 column)		9d	0d 31-May-17 A	09-Jun-17 A	100%																							
	C3840-STR-D1-112	Dismantle falsework & formwork including curing for bay 2		8d	0d 10-Jun-17 A	17-Jun-17 A	100%																							
	C3840-STR-D1-120	Construct Bay 3 (base slab for escalator pit)		13d	0d 10-May-17 A	22-May-17 A	100%																							
	 Current Bar 	Critical Remaining Work	Data Date: 01-	Jun-	18															<u> </u>	<u> </u>						<u> </u>		<u> </u>	
	 Current Bar Actual Work 	Critical Remaining Work Milestone							l	Ma	ster	· Pro	ogra	mm	e R	levi	isio	n F	RM	PR	SA	1								Da
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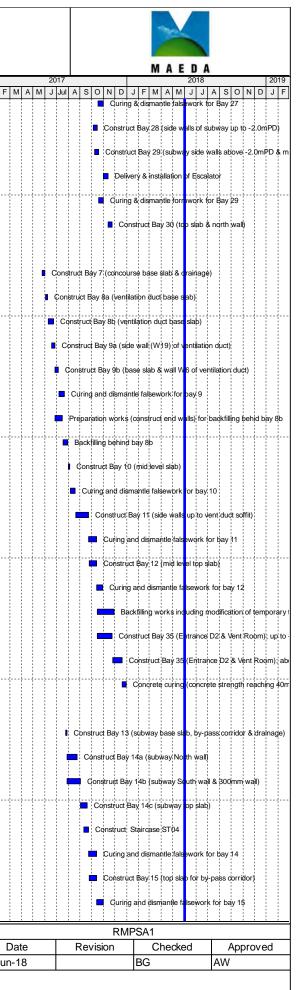


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	C3840-STR-D1-130	Construct Bay 4 (concourse base slab)	1:	2d	0d	23-May-17 A	29-May-17 A	100%																								Ť
	C3840-STR-D1-132	Construct Bay 5a (TER room North Wall)	11	Dd	0d	12-Jun-17 A	23-Jun-17 A	100%																								
	C3840-STR-D1-132b	Construct Bay 5b (TER room bottom slab)	1(Dd	0d	24-Jun-17 A	13-Jul-17 A	100%																								
	C3840-STR-D1-133	Dismantle falsework for bay 5	:	2d	0d	25-Sep-17 A	26-Sep-17 A	100%		 																			 			
	C3840-STR-D1-134	Construct Bay 6a (TER room North & West Wall)	1:	2d	0d	14-Jul-17 A	11-Aug-17 A	100%																								
	C3840-STR-D1-135	Construct Bay 6b (TER room top slab)	1:	7d	0d	12-Aug-17 A	31-Aug-17 A	100%																								
	C3840-STR-D1-136	Dismantle falsework including curing time for bay 6	11	6d	0d	01-Sep-17 A	25-Sep-17 A	100%																								
	Additional Remedial Wo	rks for Permanent Structures	30	Dd D	4d	09-Jan-18 A	05-Jun-18		171d																							
	C3840-RMD-100	Issue Instruction (email) by MTRC for Additional Remedial Works for Permanent \$	Structures (Dd	0d		09-Jan-18 A	100%		 																			 		 .	
	C3840-RMD-110	Construct RC Cross Beam underneath ST-01	30	Dd	0d	10-Jan-18 A	12-Feb-18 A	100%																								
-	C3840-RMD-120	Construct RC Collar Beam above +3.6mPD	31	Dd	4d	10-Jan-18 A	05-Jun-18	63.3%	171d																							
_	C3840-RMD-130	Construct Steel Beam for Plant Room	30	Dd	0d	10-Jan-18 A	12-Feb-18A	100%																								
	Reinstament Works in F		8	4d		15-Mar-18 A			12d																							
	C3840-STR-300	Backfilling up to +2.70mPD		6d			24-Mar-18 A	100%		 																			 		L	
	C3840-STR-302	Reinstament of gasmain by HKG		Bd Bd		26-Mar-18 A		100%																								
	C3840-STR-304	Backfilling & modification of traffic deck		2d		11-Apr-18 A		100%																								
	C3840-STR-306	Reinstatement of DSD sewer and storm pipe & U/U reinstatement		2d			16-May-18 A																									
	C3840-STR-308	Reinstatement of road kerbs and paving block	24	4d		17-May-18 A		50%	12d																							
	RC Structure at D1 Side	(Between Grids 1.8 and 3.3)	209	9d	0d	22-Jul-17 A	07-Mar-18 A																									
	C3840-STR-290	Concrete curing (concrete strength reach 40mPa) & removal of falsework/fwk for	bay 30 s	9d	0d	25-Nov-17 A	27-Dec-17 A	100%																								
	C3840-STR-310	Remove underpinning (load transfer) at Plant Room	2	5d	0d	13-Feb-18 A	07-Mar-18 A	100%																								
	C3840-STR-D1-140	Construct Bay 21 (base slab of plant room except for pump pit)		7d	0d	07-Aug-17 A	22-Aug-17 A	100%																								
	C3840-STR-D1-150	Construct Bay 22a (side walls of plant room)	2	1d	0d	23-Aug-17 A	18-Sep-17 A	100%																								
	C3840-STR-D1-155	Construct Bay 22b (base slab of subway)	11	Dd	0d	28-Aug-17 A	22-Sep-17 A	100%		 																			 			
	C3840-STR-D1-170	Curing & strike formwork/falsework	14	4d	0d	23-Sep-17 A	07-Oct-17 A	100%																								
	C3840-STR-D1-180	Construct staircase ST05 & Air Vent Wal & Slab	1:	3d	0d	23-Sep-17 A	30-Sep-17 A	100%																								
	C3840-STR-D1-200	Construct Bay 23A (base slab for sump pit)	:	3d	0d	22-Jul-17 A	28-Jul-17 A	100%																								
	C3840-STR-D1-210	Construct Bay 23B (remaining base slab for plant room)		6d	0d	14-Aug-17 A	22-Aug-17 A	100%																								
	C3840-STR-D1-212	Construct Bay 24 (side walls of plant room up to L5)	10	Dd	0d	04-Sep-17 A	18-Sep-17 A	100%		 																			 			
	C3840-STR-D1-214	Construct Bay 25 (side walls of plant room & subway base slab)		9d	0d	04-Sep-17 A	18-Sep-17 A	100%																								
	C3840-STR-D1-215	Curing & dismantle falsework for Bay 25	14	4d	0d	19-Sep-17 A	07-Oct-17 A	100%																								
	C3840-STR-D1-216	Construct Bay 26 (side walls of subway up to escalator pit base slab)		9d	0d	19-Sep-17 A	10-Oct-17 A	100%																								
	C3840-STR-D1-217	Curing & dismantle falsework for Bay 26	14	4d	0d	11-Oct-17 A	28-Oct-17 A	100%																								
_	C3840-STR-D1-222	Construct Bay 27 (side walls of subway and mid level slab @0.18mPD)		9d	0d	05-Oct-17 A	16-Oct-17 A	100%		 																			 			
	Current Bar	Critical Remaining Work	Data Date: 01-	un-	-18					м	ast	er P	Proc	orai	mm	ne I	Res	zisi	on	RN	мр	RS	A 1							-	—	Da
	 Actual Work Remaining Worl 	◆ ◆ Milestone	Page 14 of	26						1 V I		~1 1	108	- a						__1		- U								0′	1-Ju	

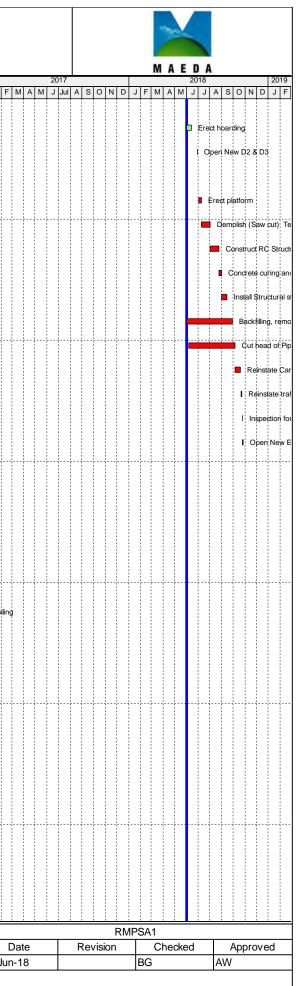




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tivity ID		Activity Name	Orig Dur	Rem Du	r Start	Finish	% Complete	Total Float		JFN		2014 J Jul A S	SON	DJI	MA	2015 M J Jul	ASO	ND.	JFM	20 [.] A M J	 O N D	JFN
	C3840-STR-D1-223	Curing & dismantle falsework for Bay 27	14d	00	d 17-Oct-17 A	31-Oct-17 A	100%															
	C3840-STR-D1-230	Construct Bay 28 (side walls of subway up to -2.0mPD)	8d	00	d 05-Oct-17 A	16-Oct-17 A	100%															
	C3840-STR-D1-240	Construct Bay 29 (subway side walls above -2.0mPD & mid level lab)	4d	00	d 09-Oct-17 A	19-Oct-17 A	100%															
	C3840-STR-D1-242	Delivery & installation of Escalator	11d	00	d 01-Nov-17 A	13-Nov-17 A	100%															
	C3840-STR-D1-245	Curing & dismantle formwork for Bay 29	14d	00	d 20-Oct-17 A	31-Oct-17 A	100%														 	
	C3840-STR-D1-255	Construct Bay 30 (top slab & north wall)	10d	00	d 14-Nov-17 A	24-Nov-17 A	100%															
	RC Structure at D2 Side	(Between Grids 3.3 and 4.5)	179d	0c	d 25-May-17 A	30-Dec-17 A																
	C3840-STR-D2-100	Construct Bay 7 (concourse base slab & drainage)	6d	0c	d 25-May-17 A	01-Jun-17 A	100%															
	C3840-STR-D2-110	Construct Bay 8a (ventilation duct base slab)	10d	00	d 02-Jun-17 A	08-Jun-17 A	100%															
	C3840-STR-D2-110b	Construct Bay 8b (ventilation duct base slab)	10d	00	d 09-Jun-17 A	23-Jun-17 A	100%														 	
	C3840-STR-D2-120	Construct Bay 9a (side wall (W19) of ventilation duct)	10d	00	d 19-Jun-17 A	27-Jun-17 A	100%															
-	C3840-STR-D2-120b	Construct Bay 9b (base slab & wall W6 of ventilation duct)	10d	00	d 28-Jun-17 A	05-Jul-17 A	100%															
-	C3840-STR-D2-122	Curing and dismantle falsework for bay 9	14d	00	d 07-Jul-17 A	22-Jul-17 A	100%															
-	C3840-STR-D2-125	Preparation works (construct end walls) for backfilling behid bay 8b	1d	00	d 27-Jun-17 A	17-Jul-17 A	100%															
-	C3840-STR-D2-126	Backfilling behind bay 8b	11d	00	d 18-Jul-17 A	31-Jul-17 A	100%														 	
-	C3840-STR-D2-130	Construct Bay 10 (mid level slab)	5d	00	d 01-Aug-17 A	05-Aug-17 A	100%															
-	C3840-STR-D2-132	Curing and dismantle falsework for bay 10	16d	00	d 06-Aug-17 A	19-Aug-17 A	100%															
-	C3840-STR-D2-140	Construct Bay 11 (side walls up to vent duct soffit)	20d	00	d 21-Aug-17 A	22-Sep-17 A	100%															
-	C3840-STR-D2-142	Curing and dismantle falsework for bay 11	16d	00	d 23-Sep-17A	13-Oct-17 A	100%															
-	C3840-STR-D2-150	Construct Bay 12 (mid level top slab)	16d	00	25-Sep-17A	13-Oct-17 A	100%														 	
-	C3840-STR-D2-152	Curing and dismantle falsework for bay 12	15d	00	d 14-Oct-17A	30-Oct-17 A	100%															
-	C3840-STR-D2-160	Backfilling works including modification of temporary traffic deck	23d	00	d 16-Oct-17A	29-Nov-17 A	100%															
-	C3840-STR-D2-165	Construct Bay 35 (Entrance D2 & Vent Room); up to +4.3mPD	12d	00	d 16-Oct-17 A	24-Nov-17 A	100%															
-	C3840-STR-D2-170	Construct Bay 35 (Entrance D2 & Vent Room); above +4.3mPD	21d	00	d 25-Nov-17A	19-Dec-17 A	100%															
_	C3840-STR-D2-180	Concrete curing (concrete strength reaching 40mPa) and removal of falsewo	ork/fwk 9d	00	d 20-Dec-17A	30-Dec-17 A	100%														 	
	RC Structure at D2 Side	(Between Grids 4.5 and 5.9)	95d	00	d 25-Jul-17 A	31-Oct-17 A																
		Construct Bay 13 (subway base slab, by-pass corridor & drainage)	90	00	d 25-Jul-17 A	28-Jul-17 A	100%															
_		Construct Bay 14a (subway North wall)	14d		d 29-Jul-17 A		100%															
_		Construct Bay 14b (subway South wall & 300mm wall)	14d		d 29-Jul-17 A		100%															
_		Construct Bay 14c (subway top slab)	13d		d 02-Sep-17A		100%														 	
_		Construct Staircase ST04	7d		d 11-Sep-17 A		100%															
_		Curing and dismantle falsework for bay 14	17d		d 23-Sep-17 A		100%															
	C3840-STR-D2-215	Construct Bay 15 (top slab for by-pass corridor)			d 25-Sep-17A		100%															
			16d																			
	C3840-STR-D2-222	Curing and dismantle falsework for bay 15	15d		14-Oct-17 A	31-UCt-17 A	100%															
	Current Bar	Critical Remaining Work	Data Date: 01-Jur	-18					N /	[actor	· Pro	gramn	ne D	ovie	on D	MDD	2511				 	Da
	 Actual Work Remaining Worl 	Milestone	Page 15 of 26						IV.	astel	110	gi ailill	пс К	CV151	on K	TATL U	ISA1				0	1-Jun-



	MTR							_				ontrad											
		i 0	rig R	em Start	Finish	%	Total	T:	sim :	Sha	2014 2014	tation	, Carı	narvo	n Ro 20		lbwa	ıy 		2016			
Open Cut Sequence 6		D	our E	Dur 25d 01-Jun-18		Complete		DND	JF	MA		ASO	N D J	FMA			SON	DJ	FMA			0]
C3840-D1-100	Erect hoarding	1	2d 1	2d 01-Jun-18	14-Jun-18	0%	12d																
C3840-D1-110	Open New D2 & D3			1d 30-Jun-18		0%																	
						0%	0d																
Open Cut Sequence 7	(D1)	12	1d 12	21d 02-Jun-18	26-Oct-18		Od																
C3840-D1-120	Erect platform		6d	6d 03-Jul-18	09-Jul-18	0%	0d																
C3840-D1-130	Demolish (Saw cut) Temporary Staircase	2	0d 2	20d 10-Jul-18	01-Aug-18	0%	0d																
C3840-D1-150	Construct RC Structure at D1 Entrance	2	0d 2	20d 02-Aug-18	24-Aug-18	0%	0d																
C3840-D1-160	Concrete curing and removal of falsework/fwk		6d	6d 25-Aug-18	31-Aug-18	0%	0d																
C3840-D1-170	Install Structural steel	1	2d 1	2d 01-Sep-18	14-Sep-18	0%	0d																
C3840-D1-190	Backfilling, removal of temporary decking & reinstate UUs	10	0d 10	00d 02-Jun-18	29-Sep-18	0%	0d																
C3840-D1-200	Cut head of Pipe Pile 2m	10	0d 10	00d 07-Jun-18	05-Oct-18	0%	0d																
C3840-D1-210	Reinstate Carnarvon Road	1	2d 1	2d 06-Oct-18	20-Oct-18	0%	0d																
C3840-D1-220	Reinstate traffic sign and shop sign		3d	3d 22-Oct-18	24-Oct-18	0%	0d																
C3840-D1-225	Inspection for acceptance by relevant authorities			1d 25-Oct-18		0%	0d																
C3840-D1-230	Open New Entrache D1		1d	1d 26-Oct-18	26-Oct-18	0%	0d																
Additional G.I. (ABH1 C3840-ABH1-10) Submission for BD consent			0d 26-Nov-14 0d 26-Nov-14	A 02-Jun-15 A	100%							Subr	nission for	BD cone	ont							
C3840-ABH1-20	Obtain consent from BD				A 31-Jan-15 A	100%								Obtain									
C3840-ABH1-30	Site preparation, mobilization, set up and drilling hole for ABH1		6d	0d 02-Feb-15	A 06-Feb-15 A	100%								Site pr	eparatio	n, mobiliz	ation, set	ເup and ເ	drilling hole	e for ABH1			
C3840-ABH1-40	Prepare & submit assessment report to for ABH1 to MTRC for submission to	BD	9d	0d 07-Feb-15	A 17-Feb-15A	100%								Prepa	are & sub	omit asse	ssment r	eport to f	or ABH1 te	o MTRC fo	or submi	iissio)
C3840-ABH1-50	BD review assessment report for ABH1 & issue consent for horizontal piling	6	2d	0d 18-Feb-15	A 02-Jun-15 A	100%									В	D review	assessm	nent repo	rt for ABH	11 & issue o	onsent	for	
Shaft Excavation, Tur	nnel Grouting and HPP Works	56	9d	0d 13-Oct-14	A 12-Sep-16 A																		
C3840-SH-100	Pump Test	1	3d	0d 13-Oct-14	A 27-Oct-14 A	100%							Pump Te	st									
C3840-SH-110	Expose utilities, excavatefrom +5.5 to +0.2mPD (496.8m3), install 1st waling	and traffic decking 1	7d	0d 28-Oct-14	A 15-Nov-14 A	100%						•	Expos	e utilities, e	excavate	rom +5.5	to +0.2r	mPD (496	3.8m3), ins	stall 1st wa	ling and	dtra	£
C3840-SH-120	Utilities protection and temporary diversion and install lagging wall	1	8d	0d 17-Nov-14	A 06-Dec-14A	100%							📫 Ųtili	ties protec	tion and	temporar	y diversi	on and in	nstall laggin	ıg wall			
C3840-SH-130	Install steel plate lagging and 2nd layer waling & strut	1	3d	0d 08-Dec-14	A 27-Dec-14A	100%							🗖 Ir	stall steel	plate lag	ging and	2nd laye	er waling	& strut				
C3840-SH-140	Forming platform for tunnel works	1	5d	0d 29-Dec-14	A 12-Jan-15 A	100%								Forming (olatform	for tunnel	works						
C3840-SH-150	Regrouting for curtain grouting & pumping test (re-test)	2	4d	0d 12-Jan-15	A 07-Feb-15A	100%												k pumpinr	g test (re-t	est)			
C3840-SH-160	Mobilization & set up for tunnel grouting works (Simon & Son)				A 12-Feb-15A															non & Son)			
																		, outing w		on pr Sph)			-
C3840-SH-170	Trial grouting				A 24-Feb-15A									Trial									
C3840-SH-180	Horizontal grouting for top section (44 nos. holes)	2	3d	0d 25-Feb-15	A 23-Mar-15 A	100%								-	lorizonta	l grouting	for top s	section (4	14 nos. hol	es)			
C3840-SH-190	Excavation of tunnel shaft from 0.2mPD to -0.5mPD (67m3)		2d	0d 07-Mar-15	A 09-Mar-15 A	100%								I Ex	cavation	of tunnel	shaft fro	m 0.2mP	D to -0.5m	mPD (67m3	3)		
C3840-SH-200	Demobilize plants for tunnelling works		2d	0d 24-Mar-15	A 25-Mar-15 A	100%								1 0	Demobiliz	e plants f	or tunne	elling work	(S				
Current Bar	Critical Remaining Work	Data Date: 01-	Jun-1	8				. :	<u>. i i</u>	<u> i i </u>		<u> i</u>	<u> i i </u>	<u>. i i</u>	<u>. i i</u>	<u> i i </u>	<u>. i</u>	<u>i</u>		<u> i</u>	<u>. i</u>		-
Actual Work	 ♦ ♦ Milestone 		00					Μ	[aste	er Pr	ogra	mme 🛛	Revi	sion 1	RMI	PRSA	\1						
		Page 16 of	2n								-												





	Activity Name	Orig Dur	Rem S Dur	Start	Finish	% Complete	Total Float				201						2015					2016			
C3840-SH-210	Excavate tunnel shaft from -0.5mPD to -1.7mPD (soil 79m3, rock 34m3)	26d		5-Mar-15 A	28-Apr-15 A	100%	, iour (OND	JF	MA	M J .	ul A	SON	I D J			J Jul A cavate tur								D J F 4m3)
C3840-SH-220	Install waling/strut/lagging	8d	0d 2	0-Apr-15 A	28-Apr-15 A	100%										🖪 Ins	tall waling	/strut/la	Iging						
C3840-SH-230	Mobilize & set up tunnel plants/erect platform at -0.5mPD	3d	0d 2	9-Apr-15 A	02-May-15 A	100%										м	obilize & s	et up tur	nel plant	s/erect p	olatforr	n at -0.5n	hPD		
C3840-SH-240	Obtain consent from MTR/BD for test boring	28d	0d 2	4-Mar-15 A	02-May-15 A	100%										d o	otain cons	ent from	MTR/BD) for test	t borine	,			
C3840-SH-250	Test boring for horizontal pipe piling (HPP53 incl. BD inspection)	3d			06-May-15 A												est boring						incrod	ion	
																			ontarpip	e pilitig (((1665	5 11 CI; DD	Inspect	liony	
C3840-SH-260	Install HPP16	7d	00 0	3-Jun-15 A	10-Jun-15 A	100%											I Install I	IPP16							
C3840-SH-270	Extract misaligned HPP53	2d	0d 1	1-Jun-15 A	12-Jun-15 A	100%											Extract	misaligr	ed HPP5	3					
C3840-SH-280	Make good extracted casing, reinstall HPP53 & check alignment	8d	0d 1	3-Jun-15 A	23-Jun-15 A	100%											Make	good e	tracted c	asing,re	eihstall	HPP53 &	check a	alighme	int
C3840-SH-290	Preparation work for drilling HPP54, drill HPP54 & drilling aborted due to problem detected with interlocking	6d	0d 2	4-Jun-15 A	30-Jun-15 A	100%											Prep	aration	vork for o	drilling H	IPP54,	drill HPP	54 & dri	illing ab	orted due
C3840-SH-300	Demobilization HPP rig off site & remove platform at -0.5mPD	3d	0d 0	2-Jul-15 A	04-Jul-15 A	100%											Dem	obilizati	in HPP ri	g off site	e & ren	nove plati	ormiat	-0.5m P	D
C3840-SH-310	Mobilization for excavation plant & excavate tunnel shaft from -1.7mPD to -2.8mPD (113.1m3)	39d	0d 0	6-Jul-15 A	20-Aug-15 A	100%											-	Mobiliz	ation for e	excavati	on plar	nt & excav	vate turi	nel sha	aft from -1
C3840-SH-320	Demobilization of excavation plants and setting up for drilling platform	2d	0d 2	1-Aug-15 A	22-Aug-15 A	100%												Demo	ilzation o	fexcava	ation pl	ants and	setting	up for d	drilling pla
C3840-SH-330	Mobilization for drilling rig & site set up	2d	0d 2	4-Aug-15 A	25-Aug-15 A	100%												Mobili	ation for	drilling r	rig & sit	e set up			
C3840-SH-340	Extracction of HPP16	1d	0d 2	6-Aug-15 A	26-Aug-15 A	100%												Extrac	ction of H	IPP16					
C3840-SH-350	Site preparation for drilling works	4d	0d 2	7-Aug-15 A	31-Aug-15 A	100%												Site p	reparatio	n for dri	illing w	orks			
C3840-SH-360	Horizontal pipe piling; 3 nos. (HPP16 to HPP18)	7d			08-Sep-15 A																	(HPP16		18)	
C3840-SH-370	Extraction of HPP53 & HPP54	2d			10-Sep-15 A														action of I						
C3840-SH-380	Horizontal pipe piling; 4 nos. (HPP19, HPP53 to HPP55)	8d	0d 1	1-Sep-15 A	19-Sep-15 A	100%												Ho	izontal pi	pe piling	3, 4 no:	s. (HPP19	9, HPP5	53 to HI	PP55)
3840-SH-390	Demobilization for drilling rig & setting up for horizontal grouting	3d	0d 2	1-Sep-15 A	23-Sep-15 A	100%												l De	mobilizati	on for d	Irilling r	ig & settin	ng up fo	r hørize	ontal grou
C3840-SH-400	Drilling and horizontal grouting (19 nos.)	17d	0d 2	4-Sep-15 A	15-Oct-15 A	100%												•	⊃ri∥ing ar	nd horiza	ontal g	routing (1	9 nos.)		
C3840-SH-410	Demobilize grouting plants, remove rock fill, & mobilize & set up for rock excavation	17d	0d 1	6-Oct-15 A	23-Oct-15 A	100%												•	Demobil	ze grou	ting pla	ints, rem	ove roc	k fill, &	mobilize
C3840-SH-420	Installation of waling L2A, installation of steel plate and prepartion works for removal of vertical pipe piles	8d	0d 2	4-Oct-15 A	28-Oct-15 A	100%												0	Installat	ion of w	aling L	2A, irlstall	ation of	f stelel p	date and p
C3840-SH-430	Removal of vertical pipe pile PP84 ~ PP89a (7 numbers) & grouting for the gaps	9d	0d 2	9-Oct-15 A	07-Nov-15 A	100%													Remov	/al of ve	rtical p	ipe pile Pl	P84 ~ P	P89a ((7 numbe
C3840-SH-440	Removal of temporary platform	1d	0d 0	9-Nov-15 A	09-Nov-15 A	100%													l Remo	val of te	mpora	y platforr	n		
C3840-SH-450	Shaft excavation;-2.8mPD ~ -3.5mPD (65.6m ³)	31d	0d 2	4-Oct-15 A	28-Nov-15 A	100%													Sha	ft excav	ation;-:	2.8mPD -	-3.5m	PD (65	6m³)
C3840-SH-460	Shaft excavation;-3.5mPD ~ -4.8mPD (122m ³)	46d	0d 3	0-Nov-15 A	25-Jan-16 A	100%														Shaft	tjexcav	ation;-3.5	5mPD ~	-4.8m	PD (122r
C3840-SH-470	Installation of additional waling L3A	2d	0d 2	3-Jan-16 A	27-Jan-16 A	100%														Insta	lation	of additio	nal wali	na L3A	
C3840-SH-490	Shaft excavation;-4.8mPD ~ -6.0mPD (115m ³)	36d			11-Aug-16 A																			-	vation;-4.
																								il exca	/au01,-4.
C3840-SH-500	Reinstall drilling platform	2d			28-Jan-16 A	100%																illing platf			
C3840-SH-510	Mobilization & setup for drilling rig	4d	0d 2	9-Jan-16 A	02-Feb-16 A	100%														Mob	oilizatio	n & setup	for dril	ling rig	
C3840-SH-520	Installation of HPP roof (31 nos.)	30d	0d 0	3-Feb-16 A	22-Mar-16 A	100%														-	Insta	llation of	HPP ro	of (31 r	ios.)
C3840-SH-530	Modification of working platform for drilling rig	1d	0d 2	3-Mar-16 A	24-Mar-16 A	100%															l Mod	ification d	f workir	ng platf	brm for c
C3840-SH-540	Dismantling of waling L2B	1d	0d 2	9-Mar-16 A	30-Mar-16 A	100%															Disi	nantling c	of waling	g L2B	
C3840-SH-550	Installation of HPP wall (10 nos.)	10d	0d 3	0-Mar-16 A	18-Apr-16 A	100%															🗖 Ir	nstallation	of HPP	^{>} wall (0 nos.)
0	Critical Remaining Work Data Date	: 01-Ju	n-18																						<u> </u>
Current Bar Actual Work								Μ	aste	er P	rogr	am	me l	Revi	sion	RN	IPRS	5A1							
Remaining Wo	Fage	7 of 26	ò								0														01-Ju

			00	47								M	A	E	D	A						00	10
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mP	D to	o -2	8m	PD	(11:	3.1r	n3)																
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ng																							
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əpa	Irtio	n w	brks	s for	rer	nov	al ol	vei	rtica	l pip	e p	iles											
8	gro	utin	g fo	r the	ga	ps																	
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	Activity Name		Orig Dur	Rem Du	n Start r	Finish	% Complete	Total Float	DND	JF	= м ,		2014 J Jul A	so	N D	JF	MA		015 Jul /	AS	O N	D	JF	MA	A M	201) / J J		s	0 N	D J F	N
C3840-SH-560	Modification of drilling platform		2d	00	d 19-Apr-16 A	21-Apr-16 A	100%															Π			I Mo	odifica	ation o	ıf drilli	ing plat	orm	Ì
C3840-SH-570	Installation of HPP wall (3 numbers)		8d	00	d 18-Apr-16 A	25-Apr-16 A	100%																	ſ	In	nstalla	tion of	i HPP	wall (3 number	s)
C3840-SH-572	Drilling for HPP64 & HPP25, cease drilling due to obstruction & extract	t HPP64	8d	00	d 26-Apr-16 A	04-May-16 A	100%																			Drillinç	g for ⊢	IPP64	1 & HP	P25, cea	
C3840-SH-620	Demobilize HPP rig, dismantle drilling platform, mobilization & setup for	or Horizontal Grouting works	2d	00	d 05-May-16 A	16-May-16 A	100%																			Dem	ıobiliz€	∍ HPF	'rig, di	smantle d	i i
C3840-SH-630	Drilling for horizontal grout hoels (13 nos.)		5d	00	d 16-May-16 A	26-May-16 A	100%																			🛿 Dril	lling fo	r hori	zontal	grout hoe	4
C3840-SH-632	Grouting for horizontal grout holes (13 nos.)		4d	00	d 25-May-16 A	14-Jul-16 A	100%																			—	Gr	outing	for h¢	rizontal g	q
C3840-SH-640	Modification of drilling rig for HPP works & mobilization and set up HPF	P works	1d	00	d 27-May-16 A	30-May-16 A	100%																		ſ	l Mo	odificat	tìon of	drillini	rig for H	ſ
C3840-SH-642	Extract HPP25		2d	00	d 30-May-16 A	31-May-16 A	100%																			I Ex	tract H	IPP2!	5		
C3840-SH-644	Drilling for HPP wall (5 nos.) including extraction of casing for HPP64		5d	00	d 01-Jun-16 A	10-Jun-16 A	100%																			D	Drilling	for H	PP wa	l (5 nos.)	i
C3840-SH-646	Demolize drilling rig		3d	00	d 13-Jun-16 A	13-Jun-16 A	100%																						illing rig		
C3840-SH-648		9 oot up drilling rig				16-Jun-16 A	100%																							ng L3 & L	
	Modification of waling L3 & L3A/setting up drilling rig platform/mobilize	a set up drilling ng	2d																												
C3840-SH-650	Drilling for HPP wall (8 nos.)		23d		d 17-Jun-16 A		100%																							wall (8 n	
C3840-SH-660	Demobilize drilling rig/Dismantle drilling platform		2d	00	d 15-Jul-16 A	16-Jul-16 A	100%																				Der	mobili	ze drill	ing rig/Dis	a
C3840-SH-665	Removal of vertical pipe piles PP89b		2d	00	d 12-Aug-16 A	13-Aug-16 A	100%																				I	Rem	oval of	vertical p	1
C3840-SH-668	Assembly of drilling platform for HPP rig		2d	00	d 12-Aug-16 A	13-Aug-16 A	100%																				I	Asser	mþly of	drilling p	ŝ
C3840-SH-670	Drilling and horizontal grouting (13 nos.)		18d	00	d 13-Aug-16 A	24-Aug-16 A	100%																					Drill	ing an	l horizont)
C3840-SH-680	Modification of drilling rig		2d	00	d 24-Aug-16 A	25-Aug-16 A	100%																				1	Mor	Jificatic	n of drillir	I
C3840-SH-690	Drilling for HPP wall (8 nos.)		8d	00	d 25-Aug-16 A	10-Sep-16 A	100%																					D	rilling f	or HPP w	
C3840-SH-740	Modification of drilling rig		2d	00	d 10-Sep-16 A	12-Sep-16 A	100%																					IM	lodifice	tion of dri	1
e-fabrication and	I Delivery of Remaining Interlocking HPP Casing		87d	00	d 07-Sep-15 A	12-Jan-16 A																									
C3840-CF-100	Fabrication for remaining casing (Roof); 1st batch		20d	00	d 07-Sep-15 A	30-Sep-15 A	100%														Fabrie	icatior	n for re	emain	ning c	casing) (Roo	f); 1st	batch		
C3840-CF-102	Delivery of casing (Roof); 1st batch		7d	00	d 02-Oct-15A	15-Oct-15 A	100%														Del	livery	oficas	ing (F	Rdof):);1st1	batch				
C3840-CF-104	Fabrication for remaining casing (Roof); 2nd batch		20d	00	d 05-Oct-15A	31-Oct-15 A	100%														F	abric	ation f	or rer	mainir	ina ca	sin'a (†	Roof)	; 2nd b	atch	-
C3840-CF-106	Delivery of casing (roof); 2nd batch		7d			09-Nov-15 A	100%																			oof); 2r					
C3840-CF-108	Fabrication for remaining casing; 3rd batch		20d			17-Dec-15 A	100%																						3rd bat	ch	
																														л 1	
C3840-CF-110	Delivery of casing (Wall); 3rd batch		7d			24-Dec-15 A	100%																			ng (Wa					
C3840-CF-112	Fabrication for remaining casing (wall); 4th batch		12d			02-Jan-16 A	100%																							4th batcl	
C3840-CF-114	Delivery of casing (Wall); 4th batch		7d	00	d 04-Jan-16 A	12-Jan-16 A	100%																Deli	very o	of cas	ısing (V	Vall);	4th ba	atch		
) Submissions P	Prior to Tunnel Excavation		403d	00	d 23-Nov-15 A	20-Jan-17 A																									
C3840-BD-100	Submit piling record for phase 1 HPP		14d	00	d 02-Jul-16 A	14-Jul-16 A	100%																			•	Sut	əmit p	iling re	cord for p	,
C3840-BD-102	Submit grouting record for pahse 1 grouting work		5d	00	d 23-Nov-15 A	28-Nov-15 A	100%															Sut	əmit gr	ouținț	ig rec	cord fc	or pah	se 1 ç	jroutin	g work	
C3840-BD-106	BA8 for phase 1 tunnel excavation		28d	00	d 18-Jul-16 A	27-Sep-16 A	100%																				-		BA8 fx	or phase '	I
	BA10 for pahse 1 tunnel excavation		7d	00	d 19-Sep-16 A	27-Sep-16 A	100%																					•	BA10	for pahse	
C3840-BD-108			0d	00	d	28-Sep-16 A	100%																					٠	Obtair	i consent	1
	Obtain consent from BD for commencing phase 1 tunnel excavation		Uu		~									. i i	1	, i	i i						- i - i		1 5					1.1	
C3840-BD-109		Data Date:																		<u> </u>		<u> </u>						<u> </u>		<u>_i </u>	
	Critical Remaining Work	Data Date: Page 18	01-Ju	n-18					M	[ast	ter l	Prog	gran	nme	Re	visi	on H	RM	PR	5A	1	<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>		

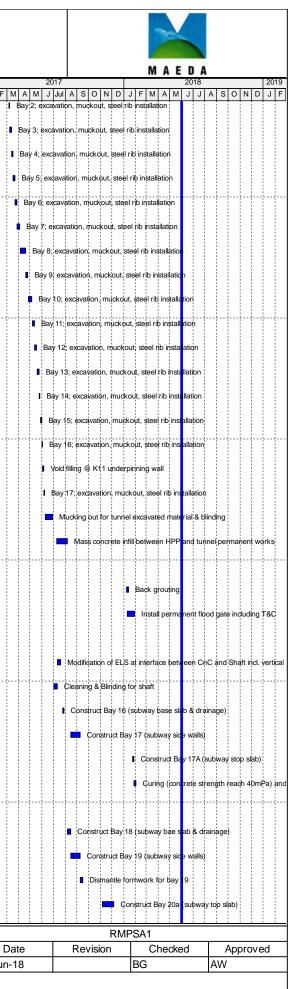
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	MTR				т	Contract C3840-13C Tsim Sha Tsui Station, Carnarvon Road Subway M A E D A
	Activity Name	Orig Rem Start Dur Dur	Finish		Total Float O N D	2014 2015 2016 2017 2018 D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D 2017 2018
C3840-BD-110	Submit piling record for pahse 2 HPP	3d 0d 30-Nov-16	A 30-Nov-16 A	100%		Submit piling reçord for pahse 2 HPP
C3840-BD-112	Submit grouting record for pahse 2 grouting work	5d 0d 30-Nov-16	A 30-Nov-16 A	100%		Submit grouting record for partice 2 grouting work
C3840-BD-114	BA14 for HPP works	1d 0d 15-Nov-16	A 15-Nov-16 A	100%		I BA14 for HPP works
C3840-BD-118	BA10 for pahse 2 tunnel excavation	7d 0d 20-Jan-17	A 20-Jan-17 A	100%		I BA10 for þahse 2 turinel/excavation
Stage 1, Tunnel Exca	avation	205d 0d 11-Jun-16	A 28-Feb-17 A			
C3840-SE-640	Additional grouting for Probe Hole	3d 0d 11-Jun-16	A 11-Jun-16 A	100%		I Additional grouting for Probe Hole
C3840-SE-650	Horizontal Probe Hole for Water Inflow Determination	1d 0d 11-Jun-16	A 11-Jun-16 A	100%		I Horizontal Probe Hole; for Water Inflow Determination
C3840-SE-651	Demobilize HPP plants, remove HPP spoils	1d 0d 14-Sep-16	A 19-Sep-16A	100%		∎ Demobilizé HPP plants, remòve HPP spoils
C3840-SE-652	Install working platform for tunnel excavation at -2.15mPD & additional poratal frame	4d 0d 20-Sep-16	A 28-Sep-16 A	100%		📭 Install working platform for tunnel exceivation át -2.15[nPD & additional porátal frame
C3840-SE-660	Removal of vertical pipe pile PP84 - PP89a (7 nos.)	9d 0d 29-Sep-16	A 05-Oct-16 A	100%		■ Remova) of vertical/pipe pile PP84 - PP89a (7 nos.)
C3840-TE1-100	Bay 1; excavation, muckout, steel rib installation	9d 0d 29-Sep-16				■ Bay 1; excavation; muckqut, steel riti installation
C3840-TE1-102	Bay 2; excavation, muckout, steel rib installation	4d 0d 17-Oct-16				■ Bay 2; excavation, muckbut; stell rib installation
C3840-TE1-104	Bay 3; excavation, muckout, steel rib installation	4d 0d 24-Oct-16	A 28-Oct-16 A	100%		I Bậy 3; excavlation, muckout, stelei rib iristalilation
C3840-TE1-106	Bay 4; excavation, muckout, steel rib installation	5d 0d 29-Oct-16	A 04-Nov-16 A	100%		Bay 4; excavati
C3840-TE1-108	Bay 5; excavation, muckout, steel rib installation	5d 0d 05-Nov-16	A 09-Nov-16 A	100%		I Bay/5; excavation, muckout, stee(rb installation
C3840-TE1-110	Bay 6; excavation, muckout, steel rib installation	5d 0d 10-Nov-16	A 14-Nov-16 A	100%		I Bay 6; excavation; muckqut, steel rib installation
C3840-TE1-112	Bay 7; excavation, muckout, steel rib installation	5d 0d 15-Nov-16	A 18-Nov-16 A	100%		I Bay 7; excavation, muckout, steel rib installation
C3840-TE1-114	Bay 8; excavation, muckout, steel rib installation	6d 0d 19-Nov-16	A 24-Nov-16 A	100%		Bay 8/ excavation, muckout, steel rib installation
C3840-TE1-116	Bay 9; excavation, muckout, steel rib installation	6d 0d 25-Nov-16	A 30-Nov-16 A	100%		I Bay 9; excavatión, muckout, steel rib installatión
C3840-TE1-118	Bay 10; excavation, muckout, steel rib installation	6d 0d 01-Dec-16	A 08-Dec-16 A	100%		📱 Bay 10. exçavațion, muckout, steel rib inștallațion
C3840-TE1-120	Bay 11; excavation, muckout, steel rib installation	6d 0d 09-Dec-16	A 13-Dec-16 A	100%		Bay, 11; excavation, muckput; steel rib installation
C3840-TE1-122	Bay 12; excavation, muckout, steel rib installation	6d 0d 12-Dec-16	A 17-Dec-16A	100%		∎ Bay 12; excavation, muckout, stéel ríb installation
C3840-TE1-124	Bay 13; excavation, muckout, steel rib installation	6d 0d 19-Dec-16	A 23-Dec-16 A	100%		I Bay 13; ekcavatión, /huckout, steel rib installation
C3840-TE1-126	Bay 14; excavation, muckout, steel rib installation	6d 0d 24-Dec-16	A 30-Dec-16 A	100%		li Bły 14; ¢xcąvatijon, muckoju, steef nb installation
C3840-TE1-128	Bay 15; excavation, muckout, steel rib installation	4d 0d 31-Dec-16				■ Bay 15; excavation; muckout, steel rib; installation
C3840-TE1-130	Bay 16; excavation, muckout, steel rib installation		A 09-Jan-17 A			Bay16; excavation, muckout, steel rib installation
C3840-TE1-132	Bay 17; excavation, muckout, steel rib installation	4d 0d 09-Jan-17	A 12-Jan-17 A	100%		I Bay 17; excavation, muckout; steel rib installation
C3840-TE1-133	Removal of unforeseen concrete pile	1d 0d 04-Jan-17	A 12-Jan-17 A	100%		Removal of unforeseen concrete pile
C3840-TE1-134	Remove excavated material & working platform	10d 0d 09-Jan-17	A 28-Feb-17 A	100%		Remêve excevaled haterial & working platform
C3840-TE1-136	Mass concrete infill in between steel ribs (roof) & back grouting	10d 0d 13-Jan-17	A 15-Feb-17A	100%		Mass congrete infill in between steel ribs (roof) & back grouting
Stage 2, Tunnel Exca	avation	245d 0d 13-Sep-16	A 07-Aug-17 A			
C3840-SE-800	Probe hole for phase 2, tunnel excavation	1d 0d 13-Sep-16	A 13-Sep-16 A	100%		I Probe hole for phase 2, tunnel excavation
C3840-SE-802	Removal of vertical pipe piles PP84 ~PP89a (7 nos.)	5d 0d 24-Feb-17	A 27-Feb-17A	100%		🖡 Removal of vertical bipe piles PP84 ~PP89a (7 nos.)
C3840-TE2-100	Bay 1; excavation, muckout, steel rib installation	5d 0d 28-Feb-17	A 07-Mar-17 A	100%		Bay 1: excavati
0		ata Date: 01-Jun-18				RMPSA1
Current Bar Actual Work					Ν	Master Programme Revision RMPRSA1 Date Revision Checked Approv
Remaining W		Page 19 of 26				01-Jun-18 BG AW

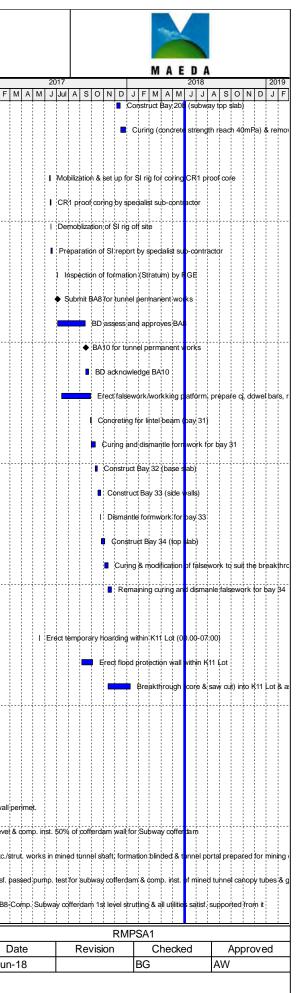


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	C3840-TE2-110	Bay 2; excavation, muckout, steel rib installation		5d	0d	d 06-Mar-17 A	09-Mar-17 A	100%																							ľ
	C3840-TE2-120	Bay 3; excavation, muckout, steel rib installation		6d	0d	d 09-Mar-17 A	13-Mar-17 A	100%																							•
	C3840-TE2-130	Bay 4; excavation, muckout, steel rib installation		6d	0d	d 13-Mar-17 A	17-Mar-17 A	100%																							•
	C3840-TE2-140	Bay 5; excavation, muckout, steel rib installation		6d	0d	d 17-Mar-17 A	22-Mar-17 A	100%																							ſ
	C3840-TE2-150	Bay 6; excavation, muckout, steel rib installation		6d	0d	d 23-Mar-17 A	28-Mar-17 A	100%																							
	C3840-TE2-160	Bay 7; excavation, muckout, steel rib installation		6d	0d	d 28-Mar-17 A	03-Apr-17 A	100%																							
	C3840-TE2-170	Bay 8; excavation, muckout, steel rib installation		5d	0d	d 05-Apr-17 A	19-Apr-17 A	100%																							
	C3840-TE2-180	Bay 9; excavation, muckout, steel rib installation		5d	0d	d 20-Apr-17 A	25-Apr-17 A	100%																							
	C3840-TE2-190	Bay 10; excavation, muckout, steel rib installation		6d	0d	d 26-Apr-17 A	06-May-17 A	100%																							
	C3840-TE2-200	Bay 11; excavation, muckout, steel rib installation		6d	0d	d 08-May-17 A	12-May-17 A	100%																							
	C3840-TE2-210	Bay 12; excavation, muckout, steel rib installation		6d	0d	d 13-May-17 A	18-May-17 A	100%																							
	C3840-TE2-220	Bay 13; excavation, muckout, steel rib installation		6d	0d	d 19-May-17 A	24-May-17 A	100%																							
	C3840-TE2-230	Bay 14; excavation, muckout, steel rib installation		6d	0d	d 25-May-17 A	27-May-17 A	100%																							
	C3840-TE2-240	Bay 15; excavation, muckout, steel rib installation		6d	0d	d 29-May-17 A	31-May-17 A	100%																							
	C3840-TE2-250	Bay 16; excavation, muckout, steel rib installation		2d	0d	d 01-Jun-17 A	02-Jun-17 A	100%																							
	C3840-TE2-251	Void filling @ K11 underpinning wall		1d	0d	d 02-Jun-17 A	05-Jun-17 A	100%																							
	C3840-TE2-252	Bay 17; excavation, muckout, steel rib installation		6d	0d	d 06-Jun-17 A	08-Jun-17 A	100%																							
	C3840-TE2-254	Mucking out for tunnel excavated material & blinding		4d	0d	d 09-Jun-17 A	28-Jun-17 A	100%																							
	C3840-TE2-256	Mass concrete infill between HPP and tunnel permanent works		15d	0d	d 10-Jul-17 A	07-Aug-17 A	100%																							
	Tunnel RC Works includ	ding Breakthrough to K11 Diaphragm Wall		224d			01-Feb-18A																								
	C3840-TU-260	Back grouting		6d	0d	d 08-Jan-18 A	13-Jan-18 A	100%																							
	C3840-TU-262	Install permanent flood gate including T&C		6d		d 11-Jan-18 A		100%																							
	RC Works Between Gr						01-Feb-18A																								
	 C3840-TU-165	Modification of ELS at interface between CnC and Shaft incl. vertical blindin		11d				100%																							
	C3840-TU-170	Cleaning & Blinding for shaft		2d		d 03-Jul-17 A		100%								ļ															ļ
	C3840-TU-180	Construct Bay 16 (subway base slab & drainage)		9d		d 25-Jul-17 A		100%																							
	C3840-TU-185	Construct Bay 17 (subway side walls)		21d			08-Sep-17 A																								
	C3840-TU-248	Construct Bay 17 (subway stop slab)		2 IU 6d		d 24-Jan-18 A		100%																							
			A				01-Feb-18A																								
	C3840-TU-250	Curing (concrete strength reach 40mPa) and remove falsework for bay 17/		5d																											ļ
	RC Works Between Gr						28-Dec-17 A																								
	C3840-TU-282	Construct Bay 18 (subway bae slab & drainage)		9d			15-Aug-17 A																								
	C3840-TU-284	Construct Bay 19 (subway side walls)		15d			08-Sep-17 A																								
	C3840-TU-285	Dismantle formwork for bay 19		3d			16-Sep-17 A																								
	C3840-TU-286	Construct Bay 20a (subway top slab)		26d	0d	d 06-Nov-17 A	05-Dec-17 A	100%												_								_			
	Current Bar	Critical Remaining Work	Data Date: 01	-Ju	n-18					<u> </u>	-											~ ·								-	
	Actual Work	♦ Milestone	Page 20 d	of 26	6					Ν	/Ia	ste	r Pr	ogra	amn	ne I	l ev	isio	n F	RMI	PR	SA	1							01-	Da Jun-
	Remaining Wo	rk																													





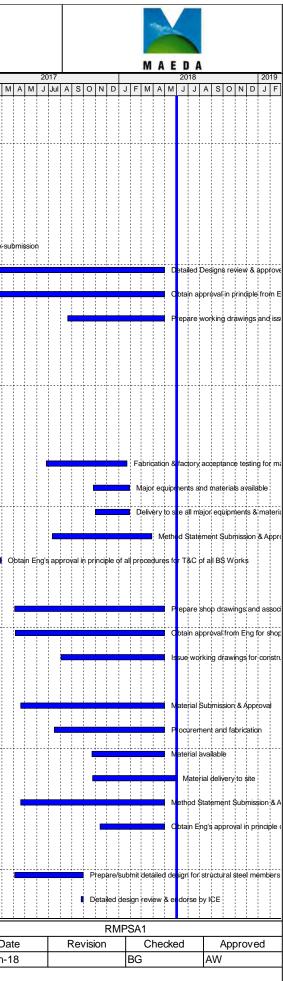
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C3840-TU-287	Construct Bay 20b (subway top slab)		9d		d 06-Dec-17 A	15-Dec-17 A				JF	MA			ON	DJ	- м	AM	JJu	AS	101	101	FM	AM	J Jul F		N D J F N
C3840-TU-288	Curing (concrete strength reach 40mPa) & remove falsework for bay	20	9d	00	d 16-Dec-17 A	28-Dec-17 A	100%																			
RC Works Between	Grids 8.5 and 9 (BD Full Approval Zone)		133d	00	d 14-Jun-17 A	21-Nov-17 A																				
C3840-TU-290	Mobilization & set up for SI rig for coring CR1 proof core		2d	00	d 14-Jun-17 A	14-Jun-17 A	100%																			
C3840-TU-292	CR1 proof coring by specialist sub-contractor		4d	00	d 15-Jun-17 A	16- lun-17 A	100%																			
C3840-TU-294																										
	Demoblization of SI rig off site		1d		d 17-Jun-17 A		100%																			
C3840-TU-296	Preparation of SI report by specialist sub-contractor		6d	00	d 17-Jun-17 A	19-Jun-17 A	100%																			
C3840-TU-298	Inspection of formation (Stratum) by RGE		1d	00	d 04-Jul-17 A	04-Jul-17 A	100%																			
C3840-TU-300	Submit BA8 for tunnel permanent works		0d	00	ł	04-Jul-17 A	100%																			
C3840-TU-302	BD assess and approves BA8		28d	00	d 05-Jul-17 A	14-Sep-17 A	100%																			
C3840-TU-304	BA10 for tunnel permanent works		0d	00	Ŀ	15-Sep-17 A	100%																			
C3840-TU-306	BD acknowledge BA10		7d	00	d 16-Sep-17 A	23-Sep-17 A	100%																			
C3840-TU-308	Erect falsework/workking platform, prepare cj, dowel bars, rebar fixing	g and fwk for lintel beam	11d	00	d 15-Jul-17 A	28-Sep-17 A	100%																			
C3840-TU-310	Concreting for lintel beam (bay 31)		1d	00	d 29-Sep-17 A	29-Sep-17 A	100%																			
C3840-TU-312	Curing and dismantle formwork for bay 31		11d	00	d 30-Sep-17 A	10-Oct-17 A	100%																			
C3840-TU-316	Construct Bay 32 (base slab)		4d	00	d 11-Oct-17 A	16-Oct-17 A	100%																			
C3840-TU-318	Construct Bay 33 (side walls)		8d	00	d 17-Oct-17 A	24-Oct-17 A	100%																			
C3840-TU-319	Dismantle formwork for bay 33		1d	00	d 25-Oct-17 A	25-Oct-17 A	100%																			
C3840-TU-320	Construct Bay 34 (top slab)		8d		d 26-Oct-17 A																					
C3840-TU-330	Curing & modification of falsework to suit the breakthrough work		5d		d 05-Nov-17 A																					
C3840-TU-340	Remaining curing and dismanle falsework for bay 34		8d		d 13-Nov-17 A																					
K11 Breakthroug			203d	Oc	d 17-May-17 A	09-Jan-18 A																				
C3840-TU-190	Erect temporary hoarding within K11 Lot (00.00-07:00)		1d	00	d 17-May-17 A	17-May-17 A	100%																			
C3840-TU-200	Erect flood protection wall within K11 Lot		6d	00	d 06-Sep-17 A	04-Oct-17 A	100%																			
C3840-TU-210	Breakthrough (core & saw cut) into K11 Lot & associated works		40d	00	13-Nov-17 A	09-Jan-18 A	100%																			
Milestones for Cost C	entre B - Carnarvon Road Subway and Entrances		1668d	1330	d 30-Apr-14 A	24-Oct-18		67d				++-							++		-++					
C3840-MS-B01	B1-Complete all U/G UU identif. & cables in north & south foot paths in	n Carn. Rd. exposed	0d	00	я	30-Apr-14 A	100%					♦ B1-Con	nplete all	Ս/G ՍԱ	J identif	. & cab	les în n	orth &	south f	oot pat	.hs in Ca	m. Rd. e	exposed			
C3840-MS-B02	B2-Close CR, hoarding erected, all pipes & UU diverted and all O/H si	igns removed	0d	00	Ł	01-Jun-14 A	100%					♦ B2-	Close CF	R, hbard	ing ere	cted, a	l pipes	& UU a	diverted	d and a	ıll Ю/H si	gns remo	oved			
C3840-MS-B03	B3-All underground utilities affecting the Works satisfactorily removed	or protected	0d	00	Ł	31-Aug-14 A	100%						♦ В	3-All und	dergrou	ind utili	ties affe	ecting tl	he Wor	rks sati	sfactor ily	/ remove	ed or pro	tected		
C3840-MS-B04	B4-Comp. inst. of 75% of cofferdam wall for mined tunnel shaft installe	ed, measure as a % of wall	0d	00	Ł	30-Nov-14 A	100%							•	B4-C	omp. in	st. of 7	5% of (cofferda	am wal	ll for min	ed tunne	el shaft ir	ıstalled,	measure a	as a % of wall pe
C3840-MS-B05	perimet. B5-Exc. of mined tunnel shaft reached -3.0mPD level & comp. inst. 50	% of cofferdam wall for	0d	00	t t	28-Nov-15 A	100%														♦ B5-E	xc. of mi	ined tun	nel shaft	reached -	3.0mPD level &
C3840-MS-B06	Subway cofferdam B6-Comp. exc./strut. works in mined tunnel shaft, formation blinded &	tunnel portal prepared for	0d	00	t t	30-Sep-16 A	100%																		♦ B6	-Comp. exc./str
C3840-MS-B07	mining exc. B7-Satisf. passed pump. test for subway cofferdam & comp. inst. of m		0d			14-Nov-16 A																				♦ B7-Satisf. þa
C3840-MS-B08	grouted		0d 0d																							◆ B/ Calisi. pa
00040-IVIO-BU8	B8-Comp. Subway cofferdam 1st level strutting & all utilities satisf. sup					16-Jan-17 A	100%												<u> </u>							● B8-C
 Current Bar 	Critical Remaining Work	Data Date: 0	01-Ju	n-18					. ۲	[oc+-						ie-	ים	<u>/</u>	<u>-</u>	. 1						Da
Actual Work	♦ Milestone	Page 21	of 26	6					IV.	aste	er f	rogra	amn	ie K	evis	sion	KI	viri	N S A	11						01-Jun-



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y ID	Activity Name	Orig Dur	Rem Start	Finish	% Complete	Total Float	D N C	JF	MA	20 MJ)14 Jul A	SOI	ND.	JFM	AM	2015 1 J Ju	I A S	SON	D	JF	MA	20 M J)16 Jul A	so	N D	JFM
C3840-MS-B09	B9-Exc. of Subway reached -5.5mPD, grids 4-5 blinded, comp. exc, for tunnel & 50% removal of K11 D. wall	0d	i Od	30-Nov-17 A	100%																			_		
C3840-MS-B10	B10-Comp. all Subway RC structures fr. grids 1 to 4+3m,	0d	l Od	28-Dec-17 A	100%										+											
C3840-MS-B11	B11-Comp. all RC structures betn TST Stn wall & grid 4+3m & mined tunnel	0d	l Od	29-Jan-18 A	100%																					
C3840-MS-B12	B12-Comp. all ABWF works to Deg. 1 except for works assoc. with new entrance D1	0d	i Od	26-Feb-18 A	100%																					
C3840-MS-B13	B13-Comp. all ABWF works to Deg. 3 except for works assoc. with new entrance D1	0d	l Od	13-Jun-18	0%	200d																				
C3840-MS-B14	B14-Complete all works in this Cost Centre	0d	l Od	24-Oct-18	0%	67d																				
Building Services &	ABWF Works	1445d	1 121d 01-Feb-14 A	A 25-Oct-18		54d																				
Site Validation		228d	I Od 01-Feb-14 A	A 31-Dec-14 A																						
C3840-SV-100	Carry out detailed site survey	6d	I 0d 01-Feb-14 A	A 28-Feb-14A	100%				Car	ry out de	tailed s	ite survey	,													
C3840-SV-110	Prepare Implementation Programme/Method Statement with detailed Phasing/Sequence	90d													tetion P	maram	me/Me	thod Sta	teme	nt with	detailer	l Dhae	ing/Sec			
			Ū.																							
C3840-SV-120	Obtain Eng's approval for Implementation Programme/Method Statement for modification & diversion works	n 60d												Obtain E	≝ng's a∣	pproval	tor Im	plementa	ation F	rograr	nme/Me	ethod	stateme	nt for m	odificatio	on & diver
Design for BS & ABWI	F Works at Temporary Staircase	646d	0d 07-Jul-14 A	15-Dec-15 A																						
C3840-TSD-100	Prepare and submit detailed designs for BS works	49d	l 0d 07-Jul-14 A	11-Aug-14 A	100%						-	Prepare	and sub	mit detai	iled des	signs for	r BS wo	orks								
C3840-TSD-110	Obtain approval detailed designs for BS works from Eng	50d	d 12-Aug-14 A	A 05-Sep-14 A	100%						-	O btair	n approv	val detail	ed desi	igns for	BS wo	rks from	Eng							
C3840-TSD-120	Issue working drawings of BS works for construction	60d	0d 06-Sep-14 A	A 05-Nov-14 A	100%								lssue v	working	drawing	gs of BS	Sworks	s for con	structi	ion						
C3840-TSD-160	Prepare and submit detailed designs for ABWF works	6d	I 0d 17-Nov-15 A	A 24-Nov-15 A	100%														Pre	pare ar	nd subn	nit deta	ailed de:	signs for	ABWF v	vorks
C3840-TSD-170	Obtain approval detailed designs for ABWF works from Eng	30d	0d 25-Nov-15 A	A 14-Dec-15 A	100%													1)btain a	approva	I detai	led desi	gns for #	BWF w	orks from
C3840-TSD-180	Issue working drawings of ABWF works for construction	0d	l Od	15-Dec-15 A	100%														♦ Is	sue wo	orking c	Irawin	gs of AP	WF woi	ks for α	onstructio
Material Submission 8	A Material Procurement/Delivery for Temporary Staircase	535d	l Od 09-Apr-14 A	05-Mar-16 A																						
C3840-TSD-130	Material submission	21d	I 0d 09-Apr-14 A	05-Feb-16A	100%															m 🗖	aterial	submis	sion			
C3840-TSD-140	Obtain approval of material submission from MTR	56d	d 22-May-14 A	A 22-Feb-16A	100%																			aterial s	ubmissic	n from M
C3840-TSD-150	Procurement & delivery of materials	10d													÷										naterials	
					100 /8																FIUL	il ei nei	it ot uein	eryon	laterials	
BS & ABWF Works at		200d																								
C3840-TSBA-100	Complete RC works for grid 2-4	0d	l Od	20-Nov-15 A	100%													•	Com				grid 2-4			
C3840-TSBA-105	Complete RC works for grid 1-2	0d	l Od	20-Feb-16 A	100%															•	Comple	ete RC	works	for grid	1-2	
C3840-TSBA-110	Installation of BS and ABWF works for grid 2-4	59d	l 0d 12-Jan-16 A	23-Mar-16 A	100%														1		lnst	allatio	ו of BS	and ABV	√F work	s for grid
C3840-TSBA-115	Installation of BS and ABWF work for grid 1-2	33d	0d 15-Feb-16A	A 23-Mar-16 A	100%																lnst	allation	n of BS	and ABV	√F work	for grid
C3840-TSBA-117	CN&SE Works by others	2d	d 14-Mar-16 A	A 15-Mar-16 A	100%																I CN8	SE W	orks by	others		
C3840-TSBA-130	T&C	4d	d 0d 14-Mar-16 A	A 17-Mar-16 A	100%																∎ т&С	;				
C3840-TSBA-140	Inspection prior to open for public use	83d	0d 22-Mar-16 A	A 22-Jun-16 A	100%																-	_	Inspec	tion prio	r to oper	n for publ
C3840-TSBA-150	Open for public use	0d	i Od	06-Jul-16 A	100%																		Oper	n for pub	olic use	
Scheme Designs for E	3S Works	85d	Od 07-Jul-14 A	05-Nov-14 A															+							
C3840-SD-100	Prepare a scheme designs	60d	I 0d 07-Jul-14 A	15-Aug-14 A	100%							Prepare	a schen	ne desigi	ns											
C3840-SD-120	Scheme design review & comment by Eng/MTRC & FSD	28d										Sche				mment	by Eng	MTRC	& FSI	5						
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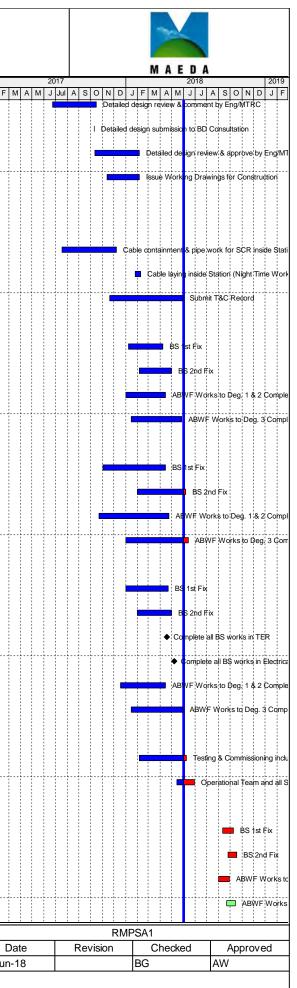
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C3840-SD-130	Scheme designs re-submission		24d	0d 16-Sep-14A	06-Oct-14 A	100%	0	ND	JF		J Jui		Scheme	designs	re-subn	nission	AS		10	JF	MA	<u> </u> M .	Jul	1 5			ו
C3840-SD-140	Scheme design review & approve by Eng/MTRC & FSD		28d	0d 07-Oct-14 A	05-Nov-14 A	100%						-	Sch	eme desig	gn revie	w & appr	ove by	Eng/N	/TRC	& FSC	x i				i		
C3840-SD-150	Obtain approval of scheme design		0d	0d	05-Nov-14 A	100%							Obt	ain appro	val of so	heme de	sign								-	-	
Detailed Designs for B	3S Works	12	273d	0d 03-Oct-14A	30-Apr-18 A																				-		;
C3840-DD-100	Prepare a detailed designs		40d	0d 03-Oct-14 A	04-Dec-14 A	100%								repare a	a detaile	d designs											
C3840-DD-120	Detailed Designs review & comment by MTRC		28d	0d 05-Dec-14 A		100%						1		Detail					st by M	TRC							;
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C3840-DD-130	Detailed designs re-submission		7d	0d 26-Aug-16 A	03-Sep-16 A	100%																		D	e	et:	eta
C3840-DD-140	Detailed Designs review & approve by MTRC	4	464d	0d 26-Oct-16 A	30-Apr-18 A	100%																					
C3840-DD-150	Obtain approval in principle from Eng for All Detailed Designs	4	442d	0d 27-Sep-16 A	30-Apr-18 A	100%																		•			
C3840-DD-160	Prepare working drawings and issue for construction	1	114d	0d 21-Aug-17 A	30-Apr-18 A	100%																					1
Naterial Submission/P	Procurement/Delivery & Method Statement Submission for BS Wo	rks ¹⁰	051d	0d 08-Jul-14 A	29-Mar-18 A																						
C3840-BSP-100	Submit proposal on supplier & model types of all major BS equip. & materi	ials	60d	0d 08-Jul-14 A	07-Oct-14 A	100%							Submit	proposal	on supp	olier & mo	del typ	oes of a	all maj	or BS (equip.	& mate	rials		i		
C3840-BSP-110	Approval of proposal on supplier & model types of all major BS equip. & m	naterials	48d	0d 08-Oct-14A	05-Nov-14 A	100%							App	oval of p	roposal	on supp	lier & r	nodel t	types t	of all m	iajor B(Sequir). & ma	terials			
C3840-BSP-130	Material Submission & Approval		90d	0d 11-Aug-14 A	28-Feb-15A	100%									Materia	l Submis	sion &	Approv	vai								1
C3840-BSP-140	Placing order for major equipments and materials		36d	0d 02-Mar-15 A		100%										ng order f				nts and	Imater	ials					
															, icicii				pinei	10 cirici	indicit	içii O					1
C3840-BSP-150	Fabrication & factory acceptance testing for major equipments and materia		178d	0d 26-Jun-17 A		100%																					
C3840-BSP-160	Major equipments and materials available		65d	0d 27-Oct-17 A	29-Jan-18 A	100%																			1		
C3840-BSP-170	Delivery to site all major equipments & materials		59d	0d 01-Nov-17 A	29-Jan-18 A	100%																			i		
C3840-BSP-190	Method Statement Submission & Approval	1	176d	0d 12-Jul-17 A	29-Mar-18 A	100%																					1
C3840-BSP-200	Obtain Eng's approval in principle of all procedures for T&C of all BS Work	ks	32d	0d 28-Dec-16 A	28-Feb-17 A	100%																					1
esign for ABWF Work	ks	3	302d	0d 04-Apr-17 A	30-Apr-18 A																						
C3840-DABWF-100	Prepare shop drawings and associated temporary works design submission	on 2	207d	0d 04-Apr-17 A	30-Apr-18 A	100%																					
C3840-DABWF-110	Obtain approval from Eng for shop drawings & associated temp. works de	esigns 2	212d	0d 05-Apr-17 A	30-Apr-18 A	100%																					
C3840-DABWF-120	Issue working drawings for construction	1	117d	0d 03-Aug-17 A	30-Apr-18 A	100%																					
Aterial Submission/M	Aterial Procurement/Delivery & Method Statement Submission fo	or ABWF Works 3	345d	0d 19-Apr-17 A	31-May-18A																				1		
C3840-ABWP-100	Material Submission & Approval		243d	0d 20-Apr-17 A		100%																					
C3840-ABWP-110	Procurement and fabrication		157d	0d 17-Jul-17 A		100%																			ł		
																									-	-	
C3840-ABWP-120	Material available		65d	0d 23-Oct-17 A		100%																					
C3840-ABWP-130	Material delivery to site		51d	0d 25-Oct-17 A	31-May-18 A	100%																					;
C3840-ABWP-140	Method Statement Submission & Approval	2	250d	0d 19-Apr-17 A	30-Apr-18 A	100%																					;
C3840-BSP-180	Obtain Eng's approval in principle of all acceptance procedures for ABWF	Works	44d	0d 13-Nov-17 A	30-Apr-18 A	100%																					
Detailed Design for Ca	anopies on Above Ground Structures (PS CI. P4.3.3)	2	212d	0d 04-Apr-17 A	05-Feb-18 A																				:		;
C3840-PWDC-210	Prepare/submit detailed design for structural steel members & connection	details & Glazing	24d	0d 04-Apr-17 A	30-Sep-17 A	100%																			-	-	
C3840-PWDC-220	Detailed design review & endorse by ICE		7d	0d 25-Sep-17 A	30-Sep-17 A	100%																					:
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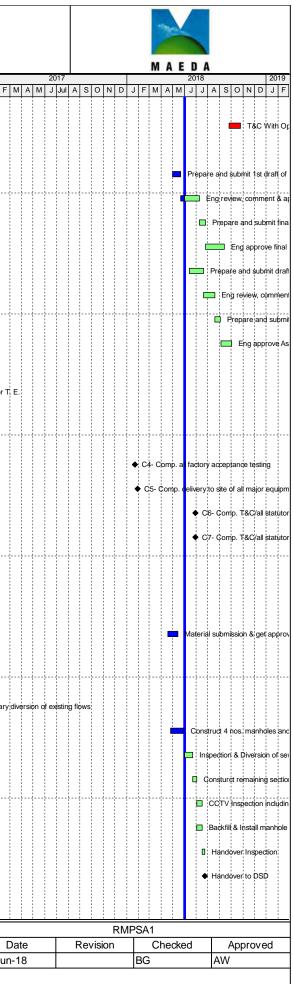




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D	Activity Name		Orig Dur	Rem Dur	Start	Finish	% Complete	Total Float	O N	D J	I F N	A	2014 V J Jul	A S	O N	D J	FI	MA		015 Jul A	AS	O N	DJ	FMA		2016 J Jul	ASC)] I	= [N
C3840-PWDC-230	Detailed design review & comment by Eng/MTRC		28d	0d	23-Jun-17 A	16-Oct-17 A	100%																							1
C3840-PWDC-240	Detailed design submission to BD Consultation		6d	0d	11-Oct-17 A	11-Oct-17 A	100%																							
C3840-PWDC-250	Detailed design review & approve by Eng/MTRC/BD		44d	0d	12-Oct-17 A	05-Feb-18 A	100%																							
C3840-PWDC-270	Issue Working Drawings for Construction		6d	0d	13-Nov-17 A	05-Feb-18 A	100%																							
BS Works at TST Station	n	2	34d	0d	19-Dec-14 A	31-May-18 A																								
C3840-BST-140	Cable containment work for Substation #4 inside TST Station (Night Time	Work)	7d	0d	19-Dec-14 A	30-Dec-14 A	100%										Cable (contai	nment	work f	for Sut	bstatio	on #4 insi	le TST :	Station	(Night	Fime Wo	ork)		
C3840-BST-150	Cable containment & pipe work for SCR inside Station (Night Time Work)	1	14d	0d	18-Jul-17 A	08-Dec-17 A	100%																							
C3840-BST-180	Cable laying inside Station (Night Time Work)		24d	0d	26-Jan-18 A	09-Feb-18 A	100%																							
C3840-BST200	Submit T&C Record		2d	0d	20-Nov-17 A	31-May-18 A	100%																							
BS & ABWF Works at D:	2 Entrance including at By Pass Corridor		47d	0d	02-Jan-18 A	26-May-18 A																								
C3840-BSD2-110	BS 1st Fix		24d	0d	08-Jan-18 A	07-Apr-18 A	100%																							
C3840-BSD2-120	BS 2nd Fix		24d	0d	05-Feb-18 A	30-Apr-18 A	100%																							
C3840-BSD2-130	ABWF Works to Deg. 1 & 2 Completion including installation for SS steely	vork	24d	0d	02-Jan-18 A	14-Apr-18 A	100%																							
C3840-BSD2-135	ABWF Works to Deg. 3 Completion		24d	0d	15-Jan-18 A	26-May-18 A	100%																							
BS & ABWF Works at Su	ubway Conc. Level, including at Plant Room & D3	1	80d	11d	23-Oct-17 A	13-Jun-18		2d																						
C3840-BSS-100	BS 1st Fix		90d	0d	02-Nov-17 A	14-Apr-18 A	100%																							
C3840-BSS-110	BS 2nd Fix		40d	5d	01-Feb-18 A	06-Jun-18	99%	5d																						
C3840-BSS-120	ABWF Works to Deg. 1 & 2 Completion		80d	0d	23-Oct-17 A	24-Apr-18 A	100%																							
C3840-BSS-125	ABWF Works to Deg. 3 Completion		40d	11d	02-Jan-18 A	13-Jun-18	98%	2d																						
BS & ABWF Works at M	id Landing Level including TER Rooms	1	20d	0d	18-Dec-17 A	31-May-18 A																								
C3840-BSM-100	BS 1st Fix		56d	0d	02-Jan-18 A	21-Apr-18 A	100%																							
C3840-BSM-110	BS 2nd Fix		40d	0d	01-Feb-18 A	30-Apr-18 A	100%																							
C3840-BSM-120	Complete all BS works in TER		0d	0d		18-Apr-18 A	100%																							
C3840-BSM-130	Complete all BS works in Electrical Room & Power On for New MCB Boa	rd	0d	0d		08-May-18 A	100%																							
C3840-BSM-140	ABWF Works to Deg. 1 & 2 Completion		40d	0d	18-Dec-17 A	14-Apr-18 A	100%																							
C3840-BSM-150	ABWF Works to Deg. 3 Completion		40d	0d	15-Jan-18 A	31-May-18 A	100%																							
T&C and Statutory Inspe	ections Prior to Open Entrances D2/D3 for Public Use		25d	24d	05-Feb-18 A	29-Jun-18		Od																						
C3840-BSM-160	Testing & Commissioning including issuance of FSD Form 501 for complet	tion of FSD works	24d	8d	05-Feb-18 A	09-Jun-18	50%	4d																						
C3840-BSM-170	Operational Team and all Statutory inspections / obtain compliance certific	ates	24d	24d	15-May-18 A	29-Jun-18	20%	0d																						
BS & ABWF Works at D	1 Entrance		38d	<u>38d</u>	01-Sep-18	18-Oct-18		60d																						
C3840-BSD1-130	BS 1st Fix		24d	24d	11-Sep-18	10-Oct-18	0%	0d																						
C3840-BSD1-140	BS 2nd Fix				26-Sep-18	18-Oct-18	0%	0d																						
C3840-BSD1-150	ABWF Works to Deg. 1 & 2 Completion including installation of SS steelw				01-Sep-18	29-Sep-18	0%	0d																						
C3840-BSD1-155	ABWF Works to Deg. 3 Completion				22-Sep-18	15-Oct-18	0%	62d																						
00040-0001-100						10-001-10	070	020																						
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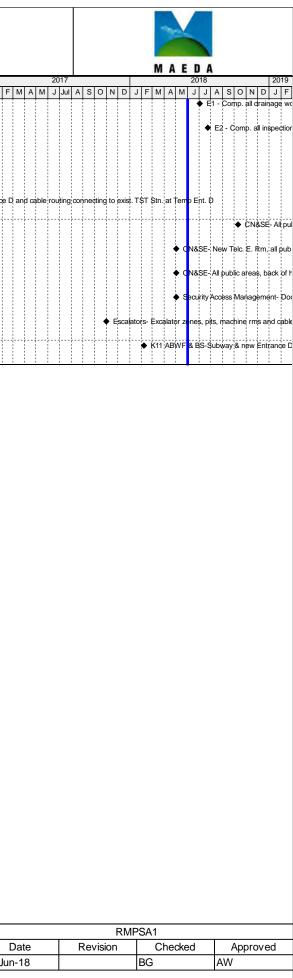
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		ection Prior to Open Entrance D1 for Public Use			d 26-Sep-18																							
	C3840-BSD1-170	T&C With Operation Inspection	24d	24	d 26-Sep-18	25-Oct-18	0%	0d																				
0	perational & Maintena	ance Manuals, As-built Drawings, Design Data	114d	103	d 02-May-18 A	03-Oct-18		19d																				
	C3840-OD-1000	Prepare and submit 1st draft of O&M Manuals as per PS 18	30d	0	d 02-May-18 A	22-May-18 A	100%																					
	C3840-OD-1010	Eng review, comment & approve draft O&M Manuals as per PS 18	56d	40	d 23-May-18 A	10-Jul-18	20%	43d																				
	C3840-OD-1020	Prepare and submit final version of O&M Manuals as per PS 18	15d	15	d 11-Jul-18	25-Jul-18	0%	43d																				
	C3840-OD-1030	Eng approve final version of O&M Manuals as per PS 18	50d	50	d 26-Jul-18	13-Sep-18	0%	43d																				
	C3840-OD-1040	Prepare and submit draft as-built Drawings as per PS 18	30d	30	d 14-Jun-18	20-Jul-18	0%	19d																				
	C3840-OD-1050	Eng review, comment & approve draft as-built Drawings as per PS 18	30d	30	d 21-Jul-18	19-Aug-18	0%	23d																				
	C2840 OD 1060																											
	C3840-OD-1060	Prepare and submit final as-built Drawings as per PS 18			d 20-Aug-18	03-Sep-18	0%	23d																				
	C3840-OD-1070	Eng approve As-built Drawings as per PS 18	30d	30	d 04-Sep-18	03-Oct-18	0%	23d																				
М	ilestones for Cost Ce	ntre C - Building Services	1304d	0	d 10-Nov-14 A	29-Jun-18		184d																				
	C3840-MS-C01	C1- Approval of detailed designs for BS works, suppliers/models/types of BS equip./mat. & SD for E.	T. 0d	0	d	10-Nov-14 A	100%								♦ C	1- Appr	oval of (detaile	d desig	ins for	BS wo	rks, sup	opliers/mo	odels/ty	pes of E	≀S equi	p./m	;
	C3840-MS-C02	C2- Approval in principe of all BS Shop Drwgs	0d	0	d	10-Nov-14 A	100%								♦ c	2- Appr	oval in p	orincip	e of all	BS Sh	op Drv	vgs						
	C3840-MS-C03	C3- Comp. placing all orders for all major BS equipment & materials	0d	0	d	16-Mar-15 A	100%										♦ C	3- Co	mp, pla	icing al	Il order	s for all	major B	S equip	ment &	materia	als	
	C3840-MS-C04	C4- Comp. all factory acceptance testing	0d	0	d	22-Jan-18 A	100%																					
	C3840-MS-C05	C5- Comp. delivery to site of all major equipment for the basement E&M plant room	0d	0	d	29-Jan-18 A	100%																					
	C3840-MS-C06	C6- Comp. T&C/all statutory & operational team inspections for New Entrance D2	0d	0	d	29-Jun-18	0%	184d																				
	C3840-MS-C07	C7- Comp. T&C/all statutory & operanal team inspection for new Entrance D3 and Subway	0d	0	d	29-Jun-18	0%	184d																				
			1119d		d 20-Dec-13A			131d																				
		nage Works - Option						ioiu																				
	ubmissions		1368d		d 20-Dec-13 A																							
	C3840-ENT-010	Engineer Exercise Option 1 (Assume 1 year after Contract Commence)	0d	0	d	08-Oct-14 A	100%								Engin	eer Exe	rcise O	ption	1 (Assu	ime 1 y	year af	ter Cont	tract Con	nmence	e)			
	C3840-ENT-020	Material submission & get approval from MTRC	60d	0	d 18-Apr-18 A	14-May-18 A	100%																					
	C3840-ENT-030	Proposed procedures for diversion agreed during meeting held on 20 Dec 13	0d	0	d	20-Dec-13 A	100%			♦ Pr	opose	d proce	dures for	diversio	on agree	d durin	g meeti	ng hel	id on 20) Dec 1	13							
D	SD Entrusted Sewage	e Works	604d	44	d 26-Jul-16 A	24-Jul-18		78d											·									
	C3840-ENT-070	Temporary diversion of existing flows	18d	0	d 26-Jul-16 A	09-Nov-16 A	100%																		•			1
	C3840-ENT-080	Construct 4 nos. manholes and pipe laying in between 4 nos. manholes (85%)	13d	0	d 26-Apr-18A	31-May-18 A	100%																					
	C3840-ENT-082	Inspection & Diversion of sewer flow from temporary sewer pipeline to newly constructed sewer	18d	18	d 01-Jun-18 A	22-Jun-18	0%	78d																				
	C3840-ENT-090	pipeline Consturct remaining section of entrusted sewage works (15%)	8d	8	d 23-Jun-18	03-Jul-18	0%	78d																				
	C3840-ENT-160	CCTV Inspection including report	12d		d 04-Jul-18	17-Jul-18	0%	78d																				
	C3840-ENT-170	Backfill & Install manhole cover	12d	12	d 04-Jul-18	17-Jul-18	0%	78d																				
	C3840-ENT-180	Handover Inspection	6d	6	d 18-Jul-18	24-Jul-18	0%	78d																				
	C3840-ENT-190	Handover to DSD	0d	0	d	24-Jul-18	0%	78d																				
М	ilestones for Cost Ce	ntre E - DSD Entrusted Drainage Works - Option	21d	21	d 03-Jul-18	24-Jul-18		159d																				
	Current Bar	Critical Remaining Work Data Data	e: 01-Ju	in-18	3						: :	: :	: : :		1 1		<u> </u>	<u> </u>		<u>. :</u>	<u>. : :</u>	<u> i i </u>	<u>. </u>				<u> </u>	
	Actual Work	A Milectone	25 of 26	6						Mas	ste	r Pr	ogra	mm	e R	evis	ion	RN	1PF	RSA	1							
		I Pade	2.1.UL / C		1																							





Activity II	0	Activity Name	Orig		Start	Finish	%	Total			20	14						2015							201	16				
			Dur	Du	r		Complete	Float	ΟN	DJFMA	M J	Jul A	SC	N	JF	MA	A M	J Jul	AS	s o	N D	JI	FM	AN	/ J .	Jul A	SC) N I	DJ	F
	C3840-MS-E01	E1 - Comp. all drainage works incl. pipes, manholes, bedding and etc.	0d	0c	1	03-Jul-18	0%	180d																						
	C3840-MS-E02	E2 - Comp. all inspection works and handed over to DSD	0d	00	1	24-Jul-18	0%	159d																						
	Interface Requirem	nents Associated with Designated Contracts	893d	00	14-Mar-16 A	11-Oct-18		81d																						
	Access Dates for De	ssignated Contractors As PS Appendix B	893d	Oc	14-Mar-16 A	11-Oct-18		81d																						
	C3840-DC-10	CN&SE- Temp. stairs, temp. Entrance D and cable routing connecting to exist. TST Stn. at Temp Ent. D	0d	00	1 14-Mar-16 A		100%																٠	CN&S	SE- Te	mp. sta	airs, te	əmp. Er	ntrand	эD
	C3840-DC-20	CN&SE- All public areas, back of house areas and cable routings at New Entrance D1	0d	00	11-Oct-18		0%	81d									-+													
	C3840-DC-30	CN&SE- New Telc. E. Rm, all pub. areas, back of house areas and cab. rout. at B. P. Rm, m.l., Subw& N.E. D2	0d	00	02-May-18 A		100%																							
	C3840-DC-40	CN&SE- All public areas, back of house areas & cable routings at Subway & new Ent. D3	0d	00	02-May-18 A		100%																							
	C3840-DC-50	Security Access Management- Doors requiring security protection or door contacts at Basement P. Rm.	0d	00	02-May-18 A		100%																							
	C3840-DC-60	Escalators- Excalator zones, pits, machine rms and cable routes at Subway I/I to mid-landing	0d	00	01-Nov-17 A		100%																							
	C3840-DC-70	K11 ABWF & BS-Subway & new Entrance D3 within K11 Lot Boundary at Subway within K11 Lot B.	0d	00	08-Feb-18 A		100%																							

Current Bar Actual Work Remaining Work	Data Date: 01-Jun-18 Page 26 of 26	Master Programme Revision RMPRSA1	Date 01-Jun-18
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APPENDIX D

IMPLEMENTATION SCHEDULE

Appendix VIII

Implementation Schedule

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 Impact	1			-	
S.3.1	Use of quieter plant	To minimise construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control Ordinance
S.3.1	 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; 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 height of a barrier should be such that no part of the noise source will be visible from the noise sensitive receiver being protected. 	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93, Noise Control Ordinance and EIAO Guidance Note NO. 9/2010
S.3.1	General Construction Noise Control MeasuresThe Code of Practice on Good Management Practice	To minimize construction noise	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control

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
	 to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD shall be adopted; The statutory and non-statutory requirements and guidelines shall be complied with; Approval for the method of working, equipment and noise mitigation measures intended to be used at the site shall be granted from the Project Engineer before commencing any work; 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 shall be maintained regularly; and Material stockpiles and other structures shall be effectively utilized as noise barriers, whenever practicable. 	emissions				Ordinance
	Air Quality Impact					
S.3.2	 Construction Dust Control Measures Decking will be provided subsequent to the completion of surface excavation works. The duration 	To minimise the dust impacts arising from the	Contractor	Work site	Construction Stage	Air Pollution Control (Construction

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
	 of decking is around 13 months after surface excavation works; 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 spraying with water to maintain the entire surface wet; Provision of vehicle washing facilities at the exit points of the site; and Provision of tarpaulin covering of any dusty materials on a vehicle leaving the site. 	construction works				Dust) Regulation
	Water Quality Impact					
S.3.3	 Construction Water Quality Impact Measures The Contractor should design and implement all the mitigation measures and practices specified in the ProPECC PN 1/94 "Construction Site Drainage" and "Recommended Pollution Control Clauses for Construction Contracts" issued by EPD. All runoffs arising from the construction site should be properly collected and treated to ensure the discharge standards as stipulated in WPCO are met. Silt trap and oil interceptor should be provided to remove the oil, lubricants, grease, silt, grit and debris from the wastewater before being pumped to the public stormwater drainage system. The silt traps and oil interceptors should be cleaned and maintained regularly. 	To reduce water quality impact induced by the construction work	Contractor	Work Site	Construction Stage	ProPECC PN1/94; Water Pollution Control Ordinance

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
	 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. Site toilet facilities, if needed, should be chemical toilets or should have the foul water effluent directed to a foul sewer. 					
	Waste Management					
S.3.4	 Construction Waste Management Measures Excavated material should be reused on site as far as possible to minimise 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 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. Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes. All general refuse should be segregated and stored in enclosed bins or compaction units and waste separation facilities for paper, aluminium cans, plastic bottles etc. should be provided to facilitate reuse or 	To adopt waste management measures in the way of avoiding, minimising, reusing and recycling so as to reduce waste generation	Contractor	Work Site	Construction Stage	Waste Disposal Ordinance (Cap. 54); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 31/2004; ETWB TCW No. 19/2005.

APPENDIX E

STATUS OF ENVIRONMENTAL LICENSES AND PERMITS



Contract No. C3840-13C Tsim Sha Tsui Station Carnarvon Road Subway

Licence Summary

ltem No.	Our Ref.	Govt. Ord.	Type? (License / Permit / Account / Notification / Registration & etc.)	Description	Submission	Ref. No	Date of Submission (to EPD) (DD-MM-YYYY)	Date of Approval / Receipt (from EPD) (DD-MM-YYYY)	Date of Activation (DD-MM-YYYY)	Date of Expiry (DD-MM-YYYY) Green = expire next mth; Yellow = expire this wk; Red = Expired	Description	Remarks
000	000	EIAO	Permit	Environmental Permit	N/A	AEP-440/2012	N/A	N/A	18 - 07 - 2012	N/A	Baseline, Air & Noise Impact Monitoring	Termination of construction phase EM&A Program was approved by EPD on 28 Feb 2019
002	APCO #002	WDO	Account	Construction Waste Billing Account	EPD-211 (Form 1) Application for a Billing Account for Disposal of Construction Waste	7018523	18 - 10 - 2013	25 - 10 - 2013	25 - 10 - 2013	N/A	Disposal of C&D Waste	Application No. WFG12765
003	WPCO #002	WPCO	Licence	Water Discharge Licence	EPD-117 (Form A) Application for a Licence of Water Discharge	WT00019722-2014	24 - 07 - 2014	01 - 09 - 2014	01 - 09 - 2014	31 - 03 - 2019	Quarterly Report FlowRate 25m3/d, pH 6-9, SS 30mg/L, COD 80mg/L	
004	CWP #001	WDO	Registration	Chemical Waste Producer	EPD-129 Application for Registration as a Chemical Waste Producer	5213-2214-M2446-16	15 - 01 - 2014	04 - 03 - 2014	04 - 03 - 2014	N/A	Surplus paint, spent lubrucating oil, spent battery	

APPENDIX F

EVENT AND ACTION PLAN

Event and Action Plan for Air Quality

In case the Action and Limit Levels are not complied during construction stage, the Event and Action Plan shown below should be followed.

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

Action	ET	IEC	ER	Contractor
	monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	 method; 4. Discuss with ET and the Contractor on possible remedial measures; 5. Advise the ER on the effectiveness of the proposed remedial measures; 6. Supervise implementation of remedial measures. 	measures properly implemented.	within 3 worki days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify sources; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess the effectiveness of Contractor's remedial actions and keep IEC, EPD and ER 	 Discuss amongst ER, ET and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immedia action to avoi further exceedance; Submit proposals for remedial actions to IEC within 3 worki days of notification; Implement the agreed proposals; Resubmit proposals if problem still r under control Stop the relevant portio of works as determined b the ER until the exceedance i abated.

Event / Action	ET	IEC	ER	Contractor	
	results;				
	8. If exceedance stops, cease additional monitoring.				

Event and Action Plan for Construction Noise

In case the Action and Limit Levels are not complied during the construction stage, the Event and Action Plan shown below should be followed.

 Notify IEC and Contractor. Carry out investigation. Report the results of investigation to 	 Review the analyzed result submitted by ET. Review the proposed remedial 	 Confirm receipt of notification of exceedance Notify Contractor 	 Submit noise mitigation proposals to IEC Implement noise
the IEC and Contractor. 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency to check mitigation effectiveness.	measures by the Contractor and advise the ER accordingly.3. Supervise the implementation of remedial measures.	 Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented. 	2. Implement noise mitigation proposals
 Notify IEC, ER, EPD and Contractor, and follow other actions Identify source Repeat measurement to confirm findings Increase monitoring frequency Check Contractor's working procedures to determine possible mitigation to be implemented Inform IEC, ER and EPD the causes and actions taken for the exceedances Assess 	 Discuss amongst ER, ET and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly Supervise the implementation of remedial measures 	 Confirm receipt of notification of exceedances Notify Contractor Require Contractor to propose remedial measures Ensure remedial measures are properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notifications Implement the agreed proposals Revise and resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated
	Contractor. 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency to check mitigation effectiveness. 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	 Contractor. Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to check mitigation effectiveness. Notify IEC, ER, EPD and Contractor, and follow other actions Identify source Repeat measurement to confirm findings Increase monitoring frequency Increase monitoring Repeat measurement to confirm findings Increase monitoring frequency Increase monitoring Supervise the implementation of remedial measures. Identify source Repeat measurement to confirm findings Increase monitoring frequency Check Contractor's working procedures to determine possible mitigation to be implemented Inform IEC, ER and EPD the causes and actions taken for the exceedances Assess effectiveness of 	 Contractor. 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency to check mitigation effectiveness. 1. Notify IEC, ER, EPD and Contractor, and follow other actions 2. Identify source 3. Repeat monitoring frequency 4. Increase monitoring frequency 2. Identify source 3. Repeat monitoring frequency 4. Increase monitoring frequency 5. Check Contractor's measures 4. Increase monitoring frequency 5. Check Contractor's monitoring frequency 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances 7. Assess effectiveness of 4. Supervise the implemented 6. Inform IEC, ER and EPD the causes and actions taken for the

Event / Action	ET	IEC	ER	Contractor	
	remedial actions and keep IEC, EPD, ER informed of the results				
	8. If exceedance stops, cease additional monitoring				

APPENDIX G

MONITORING SCHEDULE

C384	10-13C MTRCL		Station Carnarvon Roa onmental Monitoring & February 2	& Audit Schedule	trances Modificatio	n Works
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Cunady	monuuy				1	2
3	4	5	6	7	8 1-hr TSP* Noise Weekly Site Audit	9
10	11	12	13	14	15 1-hr TSP* Noise Weekly Site Audit	16
17	18	19	20 IEC monthly site audit cum Joint Site Inspection by representatives of EPD, MTRCL, IEC, ET & MC	21	22 1-hr TSP* Noise	23
24	25	26	27	28		
			ber 2018 due to HVS outage stances e.g. adverse weather, ter	mination of EM2A programs	no oto	

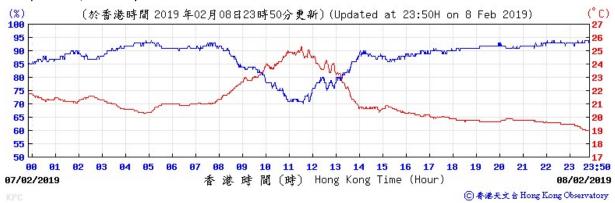
APPENDIX H

WEATHER INFORMATION EXTRACTED FROM HK OBSERVATORY

Day	Total Rainfall, mm	1-hr TSP	Noise	Remarks
1	-			
2	Trace			
3	Trace			
4	-			
5	-			
6	-			
7	Trace			
8	Trace	\checkmark		No significant rainfall during noise measurement
9	0.8			
10	0.8			
11	Trace			
12	0.2			
13	-			
14	Trace			
15	0.2	\checkmark		No significant rainfall during noise measurement
16	-			
17	0.1			
18	18.1			
19	31			
20	0.2			
21	Trace			
22	1.6	\checkmark		No significant rainfall during noise measurement
23	12.3			
24	3.4			
25	Trace			
26	Trace			
27	Trace			
28	-			
1ean/Total	68.7			
Normal*	54.4			
Station	Hong Kong Observatory			

King's Park Weather Station – 8 February 2019

Tempearture/Humidity:



Wind Direction:





Wind Speed:

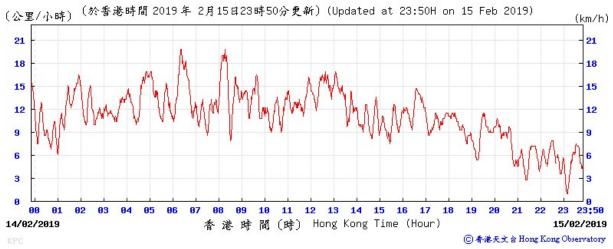
King's Park Weather Station – 15 February 2019



Wind Direction:

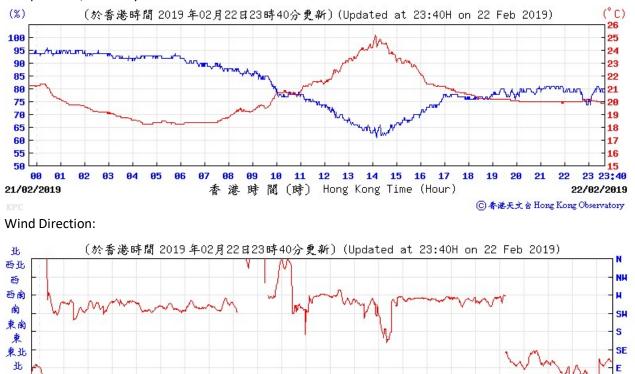






King's Park Weather Station – 22 February 2019

Tempearture/Humidity:









APPENDIX I

CERTIFICATE OF LABORATORY AND EQUIPMENT CALIBRATION

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT



CONTACT	: MR THOMAS CHAN	WORK ORDER	HK1858992				
CLIENT	: MOTT MACDONALD HONG KONG LIMITED						
ADDRESS	: 3/F MAPLETREE BAY POINT, 348 KWUN TONG ROAD,	SUB-BATCH	: 1				
	KOWLOON, HONG KONG	DATE RECEIVED	: 12-NOV-2018				
		DATE OF ISSUE	: 21-NOV-2018				
PROJECT	:	NO. OF SAMPLES	: 1				
		CLIENT ORDER	ŝ.				

General Comments

- Sample(s) were received in ambient condition.
- Sample(s) analysed and reported on an as received basis.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

PP

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	./	Position	
Richard Fung	V	General Manager	
/			

This is the Final Report and supersedes any preliminary report with this batch number.

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

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK1858992

¹ MOTT MACDONALD HONG KONG LIMITED



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1858992-001	S/N: 5201707005	Equipments	12-Nov-2018	S/N: 5201707005

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	TSI AM520
Serial No.	5201707005
Equipment Ref:	NA
Work Order:	HK1858992

Standard Equipment:

Higher Volume Sampler (TSP)
Calibration Room
HVS 018
21 September 2018

Equipment Verification Results:

Verification Date:

13&14 November 2018

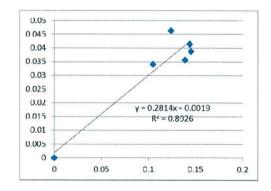
Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Concentration in mg/m ³ (Calibrated Equipment)	Tolerance (mg/m ³)
2hr01min	09:20 ~ 11:21	24.3	1014.1	0.036	0.139	0.103
2hr01min	11:27 ~ 13:28	24.3	1014.1	0.039	0.145	0.106
2hr01min	13:35 ~ 15:36	24.3	1014.1	0.041	0.144	0.103
2hr10min	15:41 ~ 17:51	24.3	1014.1	0.046	0.124	0.078
2hr15min	09:24 ~ 11:39	23.5	1015.6	0.034	0.105	0.071

Linear Regression of Y or X

Slope (factor):	0.2814
Correlation Coefficient	0.9448
Date of Issue	21 November 2018

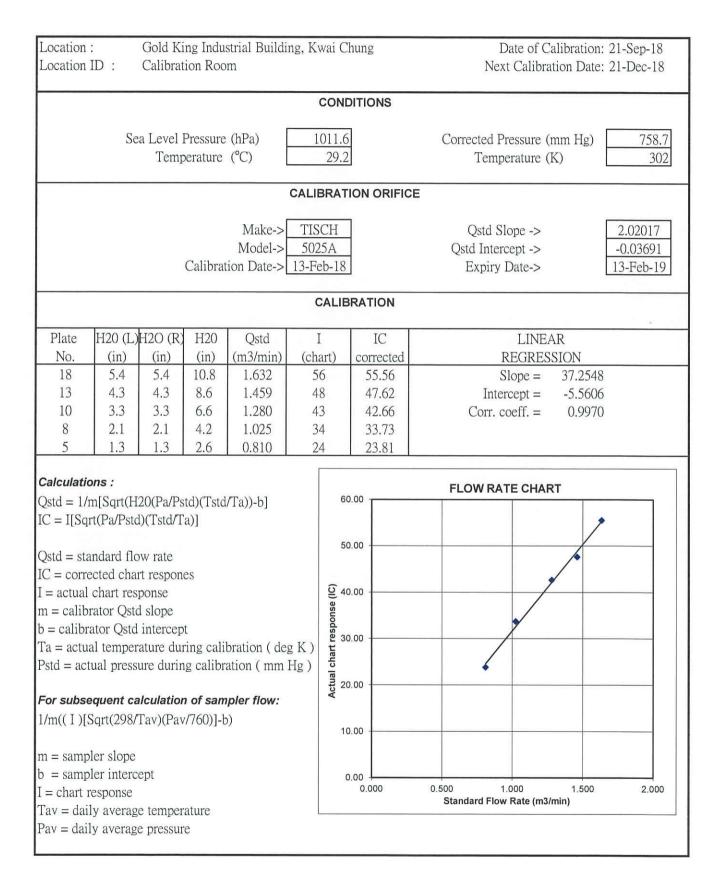
Remarks:

- 1. **Strong** Correlation (R>0.8)
- 2. Factor 0.2814 should be applied for TSP monitoring *If R<0.5, repair or re-verification is required for the equipment



Operator :	Fai So	Signature :	Sav	Date :	21 November 2018
QC Reviewer :	Ben Tam	Signature :	46-	Date :	21 November 2018

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET





Certificate No.	804231		Page	1 of 3 Pages
Customer :	Arcadis Design & Engineering Li	mited		
Address :	20/F, AXA Tower, Landmark Eas	st, 100 How Ming St	reet, Kwun Tong	, Kowloon, Hong Kong.
Order No. :	Q81642		Date of receipt	: 26-Apr-18
Item Tested				
Description :	Sound Level Meter			
Manufacturer :	B&K		I.D.	:
Model :	2238		Serial No.	: 2562782
Test Conditi	ons			
Date of Test :	30-Apr-18		Supply Voltage) :
Ambient Temp	erature : (23 ± 3)°C		Relative Humid	lity: (50 ± 25) %
Test Specifie	cations			
Calibration chec Ref. Document/	k. Procedure: Z01, IEC 60651, IEC	60804.		
Test Results	i			
	within the IEC 60651 Type1 and I shown in the attached page(s).	EC 60804 Type1 sr	pecification.	
Main Test equip	ment used:			
Equipment No.		<u>Cert. No.</u>		Traceable to
S017	Multi-Function Generator	C170120		SCL-HKSAR
S240	Sound Level Calibrator	803357		NIM-PRC & SCL-HKSAR
will not include allow overloading, mis-ha for any loss or dama	this Calibration Certificate only relate to t vance for the equipment long term drift, vance for the capability of any other labor age resulting from the use of the equipme used for calibration are traceable to Intern	ariations with environme atory to repeat the meas nt.	ntal changes, vibratic surement. Hong Kon	on and shock during transportation, g Calibration Ltd. shall not be liable
	ly to the above Unit-Under-Test only			
Calibrated by	Elva Chong	Арр	roved by :	Alan Chu

Date:

30-Apr-18

This Certificate is issued by: Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 804231

Page 2 of 3 Pages

Results :

1. SPL Accuracy

	UU	T Setting	Applied Value	UUT Reading	
Range	Freq. Wgt.	Bandwith	Center Freq.	(dB)	(dB)
28~108	А	BB/F		94.0	94.0
	А	BB/S			94.0
	С	BB/F			94.0
48~128	А	BB/F		94.0	94.0
	А	BB/F		114.0	114.1

IEC 60651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

 Level Stability : 0.0 dB IEC 60651 Type 1 Spec. : ± 0.3 dB Uncertainty : ± 0.1 dB

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Reading	Variation	IEC 60651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	114.0	0.0	$\pm 0.7 \text{ dB}$
130	104.0	104.0	0.0	
120	94.0	94.0 (Ref.)		
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	
90	64.0	64.0	0.0	
80	54.0	54.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$



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3.2 Differential level linearity

UUT Range	Applied	UUT Reading		IEC 60651 Type 1
(dB)	Value (dB)	(dB)	Variation (dB)	Spec.
120	84.0	84.0	0.0	$\pm 0.4 \text{ dB}$
	94.0	94.0 (Ref.)		
	95.0	95.0	0.0	\pm 0.2 dB

Uncertainty : $\pm 0.1 \text{ dB}$

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 60651 Type 1 Spec.
31.5 Hz	-39.3	- 39.4 dB, ± 1.5 dB
63 Hz	-26.3	- 26.2 dB, ± 1.5 dB
125 Hz	-16.2	- 16.1 dB, ± 1 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.2	$+$ 1.2 dB, ± 1 dB
4 kHz	+0.9	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.7	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : $\pm 0.1 \text{ dB}$

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 60804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	40.0	$\pm 0.5 \text{ dB}$
1/10 ²	40.0	40.0	
1/10 ³	40.0	40.0	± 1.0 dB
1/10 ⁴	40.0	40.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric pressure : 1 014 hPa.
- 4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----

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Certificate No	. 803788		Page	e 1 of 2 Pages
Customer :	Arcadis Design & Engineering	Limited		
Address :	20/F, AXA Tower, Landmark E	ast, 100 How Ming S	treet, Kwun Ton	g, Kowloon, Hong Kong.
Order No. :			Date of receip	
Item Tested				
Description	: Precision Acoustic Calibrator			
Manufacturer	: Larson Davis		I.D.	:
Model	: CAL200		Serial No.	: 10929
Test Condit	ions			
Date of Test :	26-Apr-18		Supply Voltag	e :
Ambient Temp	Derature : $(23 \pm 3)^{\circ}C$			dity: (50 ± 25) %
Test Specifi	cations			
Calibration che	ck.			
	/Procedure : IEC 60942, F20, Z0)2.		
	. ,			
Test Results	6			
All results were	within the IEC 60942 Class 1 sp	ecification		
	shown in the attached page(s).			
Main Test equip				
Equipment No.		<u>Cert. No.</u>		Traceable to
S014	Spectrum Analyzer	707126		NIM-PRC & SCL-HKSAR
S240	Sound Level Calibrator	803357		NIM-PRC & SCL-HKSAR
S041	Universal Counter	802061		SCL-HKSAR
S206	Sound Level Meter	707129		SCL-HKSAR
.				
will not include allov	this Calibration Certificate only relate to vance for the equipment long term drift,	variations with environme	ntal changes vibrati	on and shock during transportation
ovenoading, mis-na	ndling, or the capability of any other laborate and the equipm	pratory to repeat the meas	urement. Hong Kor	ng Calibration Ltd. shall not be liable
	age resulting from the use of the equipm	ient.		
The test equipment The test results app	used for calibration are traceable to Inte ly to the above Unit-Under-Test only	rnational System of Units	(SI), or by reference	e to a natural constant.
	SA I			
_	X A			X
Calibrated by :		Аррі	roved by :	
	Elva Chong			Kin Wong
This Certificate is issued by long Kong Calibration Ltd		Date:	26-Apr-18	

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646

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Certificate No. 803788

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Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94.0	93.7	± 0.4 dB
114.0	113.8	

Uncertainty : $\pm 0.2 \text{ dB}$

 Short-term Level Fluctuation : 0.0 dB IEC 60942 Class 1 Spec. : ± 0.1 dB Uncertainty : ± 0.01 dB

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	0.999	± 1 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

4. Total Distortion : < 0.4% IEC 60942 Class 1 Spec. : < 4 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 015 hPa.

----- END -----

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APPENDIX J

SAMPLE DATA RECORD SHEET

C3840-13C MTRCL Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works

<u>1-HR TSP MONITORING FIELD RECORD SHEET</u>

Monitoring Location	4/F Roof top, K11					
Date of Monitoring	8 February 2019					
	No.	Measurement Time	(minutes)	Monitoring Results, ug/M³ (Average (min-max))		
1-Hour TSP	1	09:00 - 10:00	60	54 (46-137)		
Monitoring	2	10:00 - 11:00	60	70 (60-127)		
	3	11:00 – 12:00	60	70 (61-184)		
Weather Condition			·	Overcast		
Equipment Model (Se	rial Numb	er)		TSI AM520 (5201707005)		
Expiry Date				12 November 2019		
Action Level, ug/M ³	250					
Limit Level, ug/M ³				500		
Major Construction Du	ust Source	e(s) During Monitoring		No construction activities were observed		
Other Dust Source(s)	During M	onitoring		Traffic, nearby fixed plant exhaust/emission		
Name & Designa	ation	Date		<u>Signature</u>		
Record by: Wong Fu Nam 8 February 2019				0, Mrs		
Checked by: Tung Ch	i Sun	8 February 2	2019	SUN		

Photo Records



C3840-13C MTRCL Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works

1-HR TSP MONITORING FIELD RECORD SHEET

Date of Monitoring				15 February 2019		
	No.	Measurement Time (m	Measurement Time (minutes)			
1-Hour TSP	1	09:00 - 10:00	60	71 (49-541)		
Monitoring	2	10:00 - 11:00	60	58 (13-217)		
	3	11:00 – 12:00	60	103 (75-297)		
Weather Condition				Overcast		
Equipment Model (Se	erial Num	per)		TSI AM520 (5201707005)		
Expiry Date				12 November 2019		
Action Level, ug/M ³				250		
Limit Level, ug/M³				500		
Major Construction Dust Source(s) During Monitoring				No construction activities were observed		
Other Dust Source(s)	During N	onitoring		Traffic, nearby fixed plant exhaust/emission		
Name & Desigr	nation	Date		Signature		
Record by: Wong Fu	Nam	15 February 20	19	and a		
Checked by: Tung Ch	ii Sun	15 February 20	19	SUN		
Photo Records		I		1		
n 0.5	11 m 9 m		11-	0.297 mg/		

C3840-13C MTRCL Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works

1-HR TSP MONITORING FIELD RECORD SHEET

1-HR TSP MONITORING FIELD RECORD SHEET							
Monitoring Location				4/F Roof top, K11			
Date of Monitoring	Date of Monitoring						
	No.	Measurement Tir	me (minutes)	Monitoring Results, ug/M³ (Average (min-max))			
1-Hour TSP	1	09:00 - 10:00	60	48 (25-206)			
Monitoring	2	10:00 - 11:00	60	35 (18-407)			
	3	11:00 – 12:00	60	35 (20-367)			
Weather Condition				Overcast			
Equipment Model (Se	rial Numb	er)		TSI AM520 (5201707005)			
Expiry Date				12 November 2019			
Action Level, ug/M ³				250			
Limit Level, ug/M ³				500			
Major Construction D	No construction activities were observed						
Other Dust Source(s)	During M	onitoring		Traffic, nearby fixed plant exhaust/emission			
Name & Desig	<u>nation</u>	Da	ite	Signature			
Record by: Wong Fu	Nam	ary 2019	and a				
Checked by: Tung Ch	SUN						
Photo Records	Photo Records						
ax 0.206 mg/ 1ax 0.407 mg/ ax 0.367 mg/ n 0.025 mg/ 1in 0.018 mg/ n 0.020 mg							



C3840-13C MTRCL Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works

Monitoring Location		4/F Roof top, K11		
Date of Monitoring		8 February 2019		
Monitoring Start Time		09:00		
Monitoring Stop Time		09:30		
Measurement Time Length, minute	s	30		
Weather Condition		Overcast		
Wind Speed		1.2 m/s		
Noise Meter Model		B&K2238 (Serial No. 2 <i>562782</i>)		
Calibrator Model		CAL200 (Serial No. 10929)		
	Leq	69.7		
Measurement Results, dB(A)	L ₁₀	71.5		
	L ₉₀	67.0		
Limit Level		75.0 dB(A)		
Major Construction Noise Source(s	s) During Monitoring	On-site powered mechanical equipment		
Other Noise Source(s) During Mon	itoring	Traffic and nearby fixed plant		
Name & Designation	Date	<u>Signature</u>		
Record by: Wong Fu Nam 8 February 2019		and a		
Checked by: Tung Chi Sun 8 February 2019		SUN		

C3840-13C MTRCL Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works

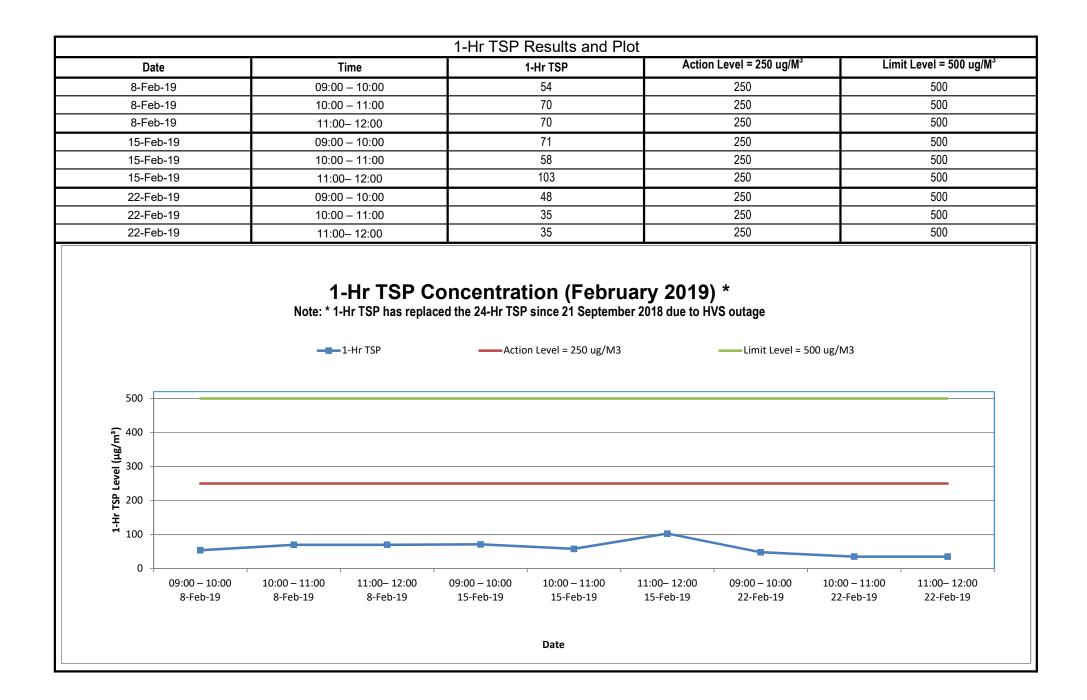
Monitoring Location		4/F Roof top, K11		
Date of Monitoring		15 February 2019		
Monitoring Start Time		09:00		
Monitoring Stop Time		09:30		
Measurement Time Length, minute	es	30		
Weather Condition		Overcast		
Wind Speed		0.8 m/s		
Noise Meter Model		B&K2238 (Serial No. 2 <i>562782</i>)		
Calibrator Model		CAL200 (Serial No. 10929)		
	L _{eq}	68.5		
Measurement Results, dB(A)	L ₁₀	70.0		
	L ₉₀	67.0		
Limit Level		75.0 dB(A)		
Major Construction Noise Source(s	s) During Monitoring	On-site powered mechanical equipment		
Other Noise Source(s) During Mon	itoring	Traffic and nearby fixed plant		
Name & Designation	Date	<u>Signature</u>		
Record by: Wong Fu Nam 15 February 2019		M S		
Checked by: Tung Chi Sun 15 February 2019		SUN		

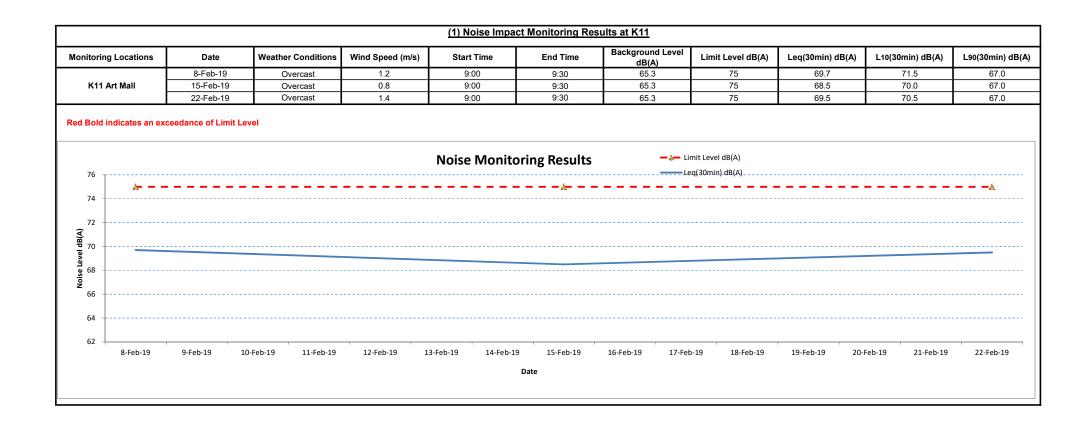
C3840-13C MTRCL Tsim Sha Tsui Station Carnarvon Road Subway and Entrances Modification Works

Monitoring Location		4/F Roof top, K11		
Date of Monitoring		22 February 2019		
Monitoring Start Time		09:00		
Monitoring Stop Time		09:30		
Measurement Time Length, minute	es	30		
Weather Condition		Overcast		
Wind Speed		1.4 m/s		
Noise Meter Model		B&K2238 (Serial No. 2 <i>562782</i>)		
Calibrator Model		CAL200 (Serial No. 10929)		
	Leq	69.5		
Measurement Results, dB(A)	L ₁₀	70.5		
	L ₉₀	67.0		
Limit Level		75.0 dB(A)		
Major Construction Noise Source(s	s) During Monitoring	N / A		
Other Noise Source(s) During Mor	itoring	Traffic and nearby fixed plant		
Name & Designation	Date	<u>Signature</u>		
Record by: Wong Fu Nam	22 February 2019	M Composition		
Checked by: Tung Chi Sun	22 February 2019	SUN		

APPENDIX K

MONITORING RESULTS AND PLOTS



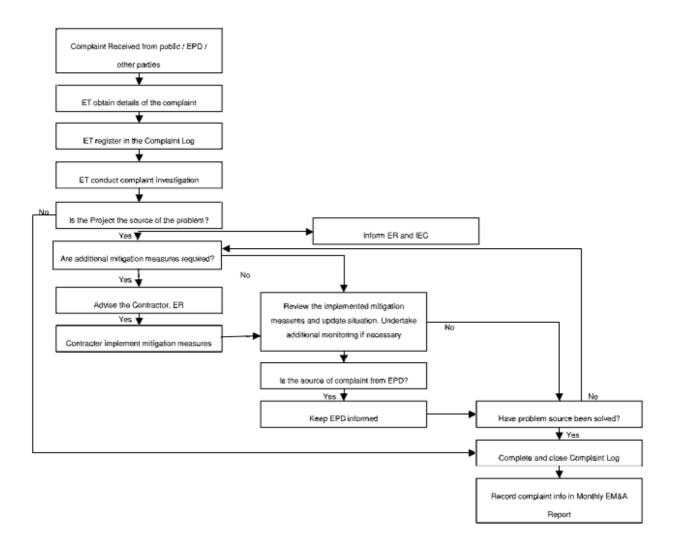


APPENDIX L

FLOW CHAT FOR HANDLING ENVIRONMENTAL COMPLAINTS

APPENDIX L

Complaint Response Procedure



APPENDIX M

WASTE MANAGEMENT RECORDS

Monthly Summary Waste Flow Table for 2019 (year)

Contract No:C3840-13C Tsim Sha Tsui Station Carnarvon Road SubwayDate Reported:1-March-2019

		Actual Q	uantities of Inert C&l	D Materials Generate	d Monthly			Actual Quantities of	Non-inert C&D Was	tes Generated Monthl	у
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(See Note 3)							(see Note 2)		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in'000kg)	(in '000m3/tonne)
Carried from Project Start	9.8321	-	-	-	9.8321	-	293.6300	-	-	-	0.3114
Jan	0.0154	-	-	-	0.0154	-	-	-	-	-	0.0045
Feb	0.0017	-	-	-	0.0017	-	-	-	-	-	0.0049
Mar	-	-	-	-		-	-	-	-	-	
Apr	-	-	-	-		-	-	-	-	-	
May	-	-	-	-		-	-	-	-	-	
June	0.0000	-	-	-		-	-	-	-	-	
Sub-total	0.0171	-	-	-	0.0171	-	-	-	-	-	0.0094
July	-	-	-	-		-	-	-	-	-	
Aug	-	-	-	-		-	-	-	-	-	
Sept	-	-	-	-		-	-	-	-	-	
Oct	-	-	-	-		-	-	-	-	-	
Nov	-	-	-	-		-	-	-	-	-	
Dec	-	-	-	-		-	-	-	-	-	
Total	0.0171	-	-	-	0.0171	-	-	-	-	-	0.0094
Acc. Total	9.8492 (accumulated quantity of the project = carried amount + this year amount)					293.6300				0.3208	

Notes:

- (1) The performance targets are given below:
 - All excavated materials to be sorted for recovering the inert portion of C&D materials, e.g. hard rocks, soil and broken concrete, for reuse on the Site or disposal to designated outlets;
 - All metallic waste to be recovered for collection by recycling contractors;
 - All cardboard and paper packaging (for plant, equipment and materials) to be recovered, properly stockpiled in dry and covered condition to prevent cross contamination;
 - All chemical wastes to be collected and properly disposed of by specialist contractors; and
 - All demolition debris to be stored to recover broken concrete, reinforcement bars, mechanical and electrical fittings, hardware as well as other fitting / materials that have established recycling outlets.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Broken concrete for recycling into aggregates.
- (4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.