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Environmental Protection Department Environmental Assessment Division Assessment and Noise Group 27th Floor, Southorn Centre, 130 Hennessy Road Wan Chai, Hong Kong

By Courier

14 September 2015

Attn.: Mr. LAM Wah King, Edward

Dear Sirs,

Environmental Permit (EP) No. FEP-24/004/1998/I West Rail, Phase I - MTRC Works Contract 1117 Pat Heung Depot Modification Works

- Monthly Noise Monitoring Report (August 2015) for Pat Heung Depot Modification Works

On behalf of MTRCL, we are pleased to submit herewith three hard copies and one electronic copy of the captioned report in accordance with Condition 4.5 of the Project EP.

Please kindly note that the captioned report has been certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC) as per Condition 4.5 of the Project EP.

Should you require any further information, please feel free to contact our Mr. Victor Wong at 2151-2078 or the undersigned at 2151 2089.

Yours faithfully, Cinotech Consultants Ltd.

Dr. Priscilla Choy Environmental Team Leader

Encl.

Cc. (all w/e)

EPD	(Attn: Mr. Wai CHAU)
MTRCL	(Attn: Mr. Richard KWAN)
Paul Y	(Attn: Mr. Edmond Chan)

w/encl. w/o encl. w/encl.



Directors: Dr. H F Chan (Managing Director), Dr. Priscilla Choy,

Paul Y. Construction Company, Limited

MTR Works Contract 1117-Pat Heung Depot Modification Works

Monthly Noise Monitoring Report for August 2015

(Version 1.0)

Certified By	Chupht
	Environmental Team Leader
	(Dr. Priscilla Choy)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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West Rail

Pat Heung Modification Works Monthly Noise Monitoring Report No. 30

[Period from 1 to 31 August 2015]

(September 2015)

Verified by:	Fredrick Leong

Position: Independent Environmental Checker

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EXECUTIVE SUMMARY

Introduction

 This is the 30th Monthly Noise Monitoring Report prepared by Cinotech Consultants Limited for MTR Works Contract 1117 - Pat Heung Depot (PHD) Modification Works. This report documents the findings of EM&A Works conducted from 1 August to 31 August 2015 since major construction works for Contract 1117 commenced on 1 March 2013.

Summary of Construction Works undertaken during Reporting Period

- 2. The major site activities undertaken in the reporting period include:
 - Site clearance and formation, site surveying
 - Sheet-piling
 - Embankment works, drainage works, manholes excavation
 - Waterproofing work for EMU extension building and IMB building
 - Modification works for protected corridor in existing EMU building
 - ABWF Works
 - Structural works at P-Way Workshop
 - Cross track ducts construction
 - Cable trench laying
 - Construction of permanent noise barrier at Location 3, Location 2 & Location 5
 - Construction of FAO Fencing
- 3. As of this reporting period, there is no record of any project changes from that originally proposed as described in the latest Environmental Review Report (ERR) for this Works Contract 1117.

Environmental Monitoring and Audit Progress

- 4. A summary of the monitoring activities in this reporting period is listed below:
 - Construction Noise Monitoring during normal weekdays

•	NM1	5 times
•	NM2	5 times
•	NM3A	5 times
•	Environmental Site Inspection	4 times

Noise

5. 5 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations during normal weekdays of the reporting period. No exceedance was recorded during the reporting period.

Waste Management

6. Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. About 2,172 m³ of inert C&D materials were

generated during the reporting period. Non-inert C&D wastes include 236 kg of paper/cardboard packaging materials and 13 m³ of general refuse were generated during the reporting period. The inert C&D materials generated from the Project were disposed of at TM 38 Area Fill Bank, while all non-inert waste was disposed of at NENT and WENT.

Environmental Site Inspection

7. A monthly joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET. Details of the audit findings and implementation status are presented in Section 6.

Environmental Exceedance/Non-conformance/Complaint/Summon and Prosecution

8. Summary of the events and action taken and key information in the reporting month is tabulated in **Table I** and **Table II** respectively.

Table I Summary Table for Events Recorded in the Reporting Month

Damantatan	No. of Ex	ceedance	A stion Taken	
Parameter	Action Level	Limit Level	Action Taken	
Impact Noise Monitoring	0	0	N/A	

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
Event	Number	Nature	Action Taken	Status	Kemark
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Notifications of any summons &prosecutions	0		N/A	N/A	

Future Key Issues

- 9. Major site activities for the coming reporting month will include:
 - Site clearance and formation, site surveying
 - Sheet-piling
 - Embankment works, drainage works, manholes excavation
 - Waterproofing work for EMU extension building and IMB building
 - ABWF Works
 - Structural works at P-Way Workshop
 - Cross track ducts construction
 - Cable trench laying
 - Construction of permanent noise barrier at Location 5

- Hydroseeding
- Construction of FAO Fencing

1 INTRODUCTION

1.1 Cinotech Consultants Limited (Cinotech) is commissioned by Paul Y. Construction Company, Limited as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme during construction phase of the MTR Works Contract 1117 –Pat Heung Depot (PHD) Modification Works (hereafter referred to "the Project").

Purpose of the Report

1.2 This is the 29th Monthly Noise Monitoring Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 July to 31 July 2015 since major construction works for Contract 1117 commenced on 1 March 2013.

Structure of the Report

1.3 The structure of the report is as follows:

Section 1: Introduction - details the scope and structure of the report.

Section 2: **Project Information** - summarises background and scope of the project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3: Environmental Monitoring Requirement - summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event / Action Plans, environmental mitigation measures as recommended in the Environmental Review Report (ERR) and relevant environmental requirements.

Section 4: **Implementation Status on Environmental Mitigation Measures -** summarises the implementation of environmental protection measures during the reporting period.

Section 5: **Monitoring Results** - summarises the monitoring results obtained in the reporting period.

Section 6: **Environmental Site Inspection -** summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance - summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 8: **Future Key Issues -** summarises the impact forecast and monitoring schedule for the next three months.

Section 9: Conclusions and Recommendations

2 PROJECT INFORMATION

Background

- 2.1 West Rail Line (WRL) is one of the strategic rail infrastructures in Hong Kong providing the people of Hong Kong an environmentally friendly and convenient way to travel between the western part of the New Territories and western Kowloon. Under the approved WRL Environmental Impact Assessment (EIA) Report (EIA-149/BC), it has a total length of about 30.5km with 9 stations, including Nam Cheong, Mei Foo, Tsuen Wan West, Kam Sheung Road, Yuen Long, Long Ping, Tin Shui Wai, Siu Hong, Tuen Mun and one depot at Pat Heung.
- 2.2 The EIA Report of WRL was prepared and submitted to Environmental Protection Department (EPD) prior to the enactment of the Environmental Impact Assessment Ordinance (EIAO) in1998. Since the first Environmental Permit (EP) (EP-004/1998), there have been amendments made to the permit through a number of EP variation applications related to the main line of WRL.
- 2.3 This Works Contract 1117 covers the modification works at the existing Pat Heung Depot (PHD) of WRL to meet future operational and maintenance requirements. The PHD modification works include the construction of a new train wash plant, locomotive shed, permanent way workshop, stabling sidings, extension of maintenance building and modification of noise barriers.
- 2.4 Since the modification works at PHD forms part of the WRL, a variation of environmental permit (VEP) was applied and a VEP (EP No. EP-004/1998/I) were subsequently granted. Moreover, a further Environmental Permit (FEP) (EP No: FEP-24/004/1998/I) on construction and operation of WRL (including the PHD modification works) was issued by Director of Environmental Protection (DEP) to the MTR Corporation Limited on 23 July 2012.

General Site Description

2.5 The site layout and proposed modification works are illustrated in Figure 1.

Construction Programme and Activities

- 2.6 A summary of the major construction activities undertaken in this reporting period is shown as follows. The tentative construction programme is presented in **Appendix A**.
 - Site clearance and formation, site surveying
 - Sheet-piling
 - Embankment works, drainage works, manholes excavation
 - Waterproofing work for EMU extension building and IMB building
 - Modification works for protected corridor in existing EMU building
 - ABWF Works
 - Structural works at P-Way Workshop
 - Cross track ducts construction
 - Cable trench laying
 - Construction of permanent noise barrier at Location 3, Location 2 & Location 5
 - Construction of FAO Fencing

Project Organisation

- 2.7 Different parties with different levels of involvement in the project organization include:
 - Engineer or Engineer's Representative (ER)– MTR Corporation (MTRC)
 - Contractor's Environmental Team (Contractor's ET) Cinotech Consultants Ltd. (Cinotech)
 - Independent Environmental Checker (IEC) Meinhardt Infrastructure and Environment Limited (MIEL)
 - Contractor Paul Y. Construction Company, Limited(Paul Y)
- 2.8 The responsibilities of respective parties are detailed in Section 2 of the approved EM&A Programme for PHD Modification Works.
- 2.9 The project organisation including key personnel contact names and telephone numbers is presented in **Figure 2**.

Status of Environmental Licences, Notification and Permits

2.10 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.1**.

Demait / Lissen av Na	Valid	S 4 - 4	
Permit / License No.	From	То	Status
Environmental Permit (EP)			
FEP-24/004/1998/J	21/10/2013	End of the Project	Valid
Notification pursuant to Air Pollu	tion Control (Construe	ction Dust) Regulation	
No.351534	26/10/2012	N/A	Valid
Billing Account for Construction	Waste Disposal		
Account No. 7016256	2/11/2012	N/A	Valid
Registration of Chemical Waste P	roducer	·	
5218-531-P2991-02	4/12/2012	N/A	Valid
Effluent Discharge License under	Water Pollution Cont	rol Ordinance (WPCO))
WT00015378-2013	26/3/2013	31/3/2018	Valid
Construction Noise Permit			
GW-RN0134-15			
(Area D: Location 5 Noise	5/3/2015	26/8/2015	Expired
Barrier and OHL Modification)			
GW-RN0140-15			
(Area C: Location 4 Noise	18/3/2015	12/9/2015	Valid
Barrier Upgrade)			
GW-RN0180-15	26/3/2015	19/09/2015	Valid
(Area A: EMU Extension)	20/3/2013	19/09/2013	v allu
GW-RN0253-15			
(Area C: OHL Footing near Tai	5/5/2015	4/8/2015	Expired
Lam Tunnel)			

Table 2.1 Status of Environmental Licenses, Notification and Permits

Permit / License No.	Valid	Status		
Perinit / License No.	From To		Status	
GW-RN0385-15				
(Area D: Location 2 OHL				
Footing and Noise Barrier	2/7/2015	1/1/2016	Valid	
Modification near to Kam				
Sheung Road Station)				
GW-RN0527-15				
(Area D: Location 5 Noise	27/8/2015	26/11/2015	Valid	
Barrier and OHL Modification)				

Summary of EM&A Requirements

- 2.11 The EM&A programme under Works Contract 1117 require construction noise monitoring as well as environmental site audits. The EM&A requirements are described in the following sections, including:
 - all monitoring parameters;
 - environmental quality performance limits (Action and Limit levels);
 - Event-Action Plans;
 - Environmental mitigation measures, as recommended in the Environmental Review Report (ERR) for the VEP (EP No. FEP-24/004/1998/I); and
 - Environmental requirements in contract documents.
- 2.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 2.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely construction noise as well as audit works for the Project in the reporting month.

3 ENVIRONMENTAL MONITORING REQUIREMENTS

Construction Noise Monitoring

Monitoring Requirements

- 3.1 Noise monitoring was conducted in accordance with the approved EM&A Programme for PHD Modification Works.
- 3.2 With reference to the baseline monitoring report for the Project, Table 3.1 and Table3.2 summarises the location of noise monitoring stations and shows the establishedAction and Limit Levels for construction noise monitoring works respectively. Location of the monitoring stations is shown on Figure 3.

ID in the approved EM&A Programme	ID in Baseline Noise Monitoring Report	Construction Noise Monitoring Station
NM1	NM1	Tourmaline Villa
NM2	NM2	Kam Po Road
NM3	NM3A ⁽¹⁾	Tai Kek Tsuen

 Table 3.1
 Construction Noise Monitoring Stations

Note:

(1) Since permission of access could not be obtained, an alternative location at a village house just next to the original proposed monitoring location in the EM&A Programme was adopted for the baseline noise monitoring.

Table 3.2 Criteria for Action and Limit Levels for Construction Nois	e
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Time Period ⁽¹⁾	eriod ⁽¹⁾ Noise Monitoring Action Level Station		Limit Level, dB (A)
	Tourmaline Villa (NM1)		
0700-1900 hrs of normal weekdays	Kam Po Road (NM2)	When one documented valid complaint is received.	75.0
	Tai Kek Tsuen (NM3A)		

Note:

(1) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority should be followed.

3.3 Should non-compliance of the criteria in **Table 3.2** occur, action in accordance with the Event and Action Plan in **Appendix B** should be carried out.

Monitoring Equipment

3.4 **Table 3.3** summarizes the noise monitoring equipment model being used.

Table 3.3Noise Monitoring Equipment

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	Pulsar Instruments Model 93 (Serial no. B22369)	1
Calibrator	Pulsar Instruments Model 105 (Serial no. 60220)	1

Monitoring Parameters, Frequency and Duration

3.5 **Table 3.4** summarizes the monitoring parameters, frequency and total duration of monitoring.

Table 3.4Noise Monitoring Parameters, Frequency and Duration

Station	Parameter	Period	Frequency
NM1, NM2 and NM3A	L _{eq,30 min.} ⁽¹⁾ (L ₁₀ and L ₉₀ were also recorded as supplementary information)	0700-1900 hours on normal weekdays	Once a week

Note (1): Leq, 30_{min.} as six consecutive L_{eq}, _{5min} readings.

Monitoring Methodology and QA/QC Procedures

Field Monitoring

- 3.6 The monitoring procedures are as follows:
 - The microphone head of the sound level meter was positioned 1m exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

Frequency weighting	: A
---------------------	-----

- Time weighting : Fast

- Measurement time : 5 minutes (obtaining six consecutive L_{eq} , $_{5min}$ readings for a L_{eq} , $_{30 min}$ reading)
- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- The wind speed at the monitoring station was checked with the portable wind meter. Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- At the end of the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- A façade correction of +3dB (A) shall be made to the noise parameter obtained by free field measurement.

Maintenance and Calibration

- 3.7 Maintenance and Calibration procedures were as follows:
 - The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
 - The sound level meter and calibrator were checked and calibrated at yearly intervals. Copies of calibration certificates are attached in **Appendix C**.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

4.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the ERR, the Environmental Permit and approved EM&A Programme for PHD Modification Works. The status of submission required under the Environmental Permit is summarized in **Table 4.1**. The implementation status of the environmental mitigation measures during the reporting period is summarized in **Appendix D**.

EP Condition	Submission	Submission Date
Condition 4.5	Monthly Noise Monitoring Report (July 2015)	12 th August 2015

Table 4.1 S	Status of Req	uired Submi	issions und	er EP
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5 MONITORING RESULTS

Noise

- 5.1 In this reporting period, noise monitoring during non-restricted hours was conducted as scheduled at the designated locations. The noise monitoring schedule is shown in **Appendix E**.
- 5.2 The details of the monitoring results and graphical presentations are shown in **Appendix F**. The weather during the monitoring sessions was mainly cloudy and sunny.
- 5.3 Based on the on-site measurement, traffic on nearby major road is considered as a noise source other than construction works of the Project that affects the monitoring results of the reporting month.
- 5.4 No Action/Limit Level exceedance for construction noise monitoring was recorded in the reporting period.

Waste Management

5.5 Waste generated from this Project includes inert construction and demolition (C&D) materials, non-inert C&D materials and dredging materials. Non-inert C&D materials are made up of general refuse, chemical waste, paper/cardboard packaging materials, plastic materials and metals. Metals generated from the project are also grouped into non-inert C&D materials as the metals were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in **Table 5.1**. The inert C&D materials and general refuse generated from the Project were disposed of at TM 38 Area Fill Bank, TKO 137 Area Fill Bank, WENT and NENT respectively. 236 kg of paper/cardboard packaging materials were generated during the reporting period. Detail of waste management data is presented in **Appendix G**.

			ty			
			C&D Mat	erials (non-in	ert) ^(b)	
Reporting Month	C&D Materials (inert) ^(a)	General Refuse	Chemical Waste	Paper/ cardboard	Plastics	Metals
August 2015	2,172 m^3	$13 m^3$	0 kg	236 kg	0 <i>kg</i>	0 <i>kg</i>

Table 5.1 Quantities of Waste Generated from the Project
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Notes:

(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.

(b) Non-inert C&D materials include steel, paper/cardboard packaging waste, plastics and other wastes such as general refuse. Steel materials generated from the project are grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials.

6 ENVIRONMENTAL SITE INSPECTION

Site Audits

- 6.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix H**.
- 6.2 Site audits were conducted on 3, 11, 19 and 28 August 2015 by ET. A joint site audit with the representative with IEC, ER, the Contractor and the ET was carried out on 28 August 2015. No site inspection was conducted by EPD during the reporting period. The details of observations during site audit can refer to **Table 6.1**.

Implementation Status of Environmental Mitigation Measures

- 6.3 According to the ERR, Environmental Permit and the approved EM&A Programme of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix D**.
- 6.4 During site inspections in the reporting period, no non-conformance was identified. The observations made during the audit sessions are summarized in **Table 6.1**.

Parameters	Date	Observations	Follow-up
	22 July 2015	Muddy water should be connected to the sedimentation tank before discharging (Area A); The sedimentation tanks in Area B should be desilted to improve discharge quality and provide additional sediment tank should be provided when needed.	The discharge quality has been improved in Area A and one of the Area B's sedimentation tank on 3 August 2015; The sedimentation tank in Area B was disused and the onsite water has been retained within site area on 28 August 2015.
30 July 2015 Water Quality		Mud near the water intake to the sedimentation tank should be cleared to improve the discharge quality (Area B); Retained water after rainstorm should be discharged through the sedimentation tank or sprayed on the haul road (Area C).	The retained water in Area C has been reused for watering the slope on 3 August 2015; The sedimentation tank in Area B was disused and the onsite water has been retained within site area on 28 August 2015.
3 August 2015 11 August 2015	Discharge quality should be improved by redirecting the onsite water for watering; and the sedimentation tank should be desilted regularly (Area B and D).	The water hose in Area D has been removed on 11 August 2015; The sedimentation tank in Area B was disused and the onsite water has been retained within site area on 28 August 2015.	
	-	Onsite water and surface run-off should be reused for watering whenever possible; The mud near the water intake of the sedimentation tank should be cleared (Area B).	The sedimentation tank in Area B was disused and the onsite water has been retained within site area on 28 August 2015.

Table 6.1Site Audit Observations

Parameters	Date	Observations	Follow-up
	19 August 2015	Accumulated sediment in the sedimentation tank should be removed (Area A).	The sediment has been cleared on 28 August 2015.
Noise	N/A	N/A	N/A
Tree Protection/ Landscape and Visual	28 August 2015	The trees adjacent to the footpath should be fenced off; The footpath should be located away from the tree protective zone (Area B).	Follow up status will be provided in the next reporting month.
Air Quality	N/A	N/A	N/A
Waste / Chemical Management	11 August 2015	<u>Reminder</u> : Chemical containers should be stored in designated area or treated as chemical waste (Area B).	The identified containers were removed on 28 August 2015.
Permits/ Licenses	N/A	N/A	N/A

7 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

7.1 No exceedance of monitoring results was recorded in the reporting period. The summary of exceedance is provided in **Appendix I**.

Summary of Environmental Non-Compliance

7.2 No environmental non-compliance was recorded in the reporting period.

Summary of Environmental Complaint

7.3 No environmental Project-related complaint was received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix J**.

Summary of Environmental Summon and Successful Prosecution

7.4 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution since the commencement of the Project is presented in **Appendix J**.

8 FUTURE KEY ISSUES

Key Issues in the Coming Month

- 8.1 Key issues to be considered in the coming month include:
 - Handling of waste water arising from drilling works and surface run-off;
 - Dust control during loading of materials and excavation;
 - Oil leakage from equipment;
 - Noise nuisance generated by on-site construction and demolition works; and
 - Protection of retained trees within construction site.
 - Maintaining the sand bags and bunding at the u-channel to prevent muddy run-off from directly accessing the main drainage channels.

Monitoring Schedule for the Next Month

8.2 The tentative construction noise monitoring schedule for the next month is shown in **Appendix E**.

Construction Programme for the Next Month

- 8.3 A tentative construction programme is provided in **Appendix A**. The major construction activities in the coming month will include:
 - Site clearance and formation, site surveying.
 - Sheet-piling.
 - Embankment works, drainage works, manholes excavation.
 - RC substructure works, superstructural works and waterproofing work for EMU extension building and IMB building.
 - Modification works for protected corridor in existing EMU building.
 - ABWF Works.
 - Construction of pile cap at P-Way Workshop.
 - Cross track ducts construction.
 - Cable trench laying.
 - Construction of permanent noise barrier at Location 3, Location 2 & Location 5.
 - Hydroseeding.

9 CONCLUSIONS

Conclusions

- 9.1 This Monthly Noise Monitoring Report presents the EM&A works undertaken during the period from 1 August to 31 August 2015 since major construction works for Contract 1117 commenced on 1 March 2013 in accordance with approved EM&A Programme for PHD Modification Works and the requirement under FEP-24/004/1998/I.
- 9.2 As of this reporting period, there is no record of any project changes from that originally proposed as described in the latest Environmental Review Report (ERR) for this Works Contract 1117.
- 9.3 No exceedance of monitoring results was recorded in the reporting period.
- 9.4 There was no environmental complaint, prosecution or notification of summons received.
- 9.5 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

9.6 The following recommendations were made in the reporting month to the Contractor during the site audits:

Water Quality

- Sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all time;
- Bunding should be provided to confine the runoff in site area, particularly along the drainage channel;
- U-channels are to be maintained by regularly remove trapped mud and provide coverage and sediment baffles to the channel wherever possible;
- The discharge quality must meet the requirements specified in the discharge licence.

Waste and Chemical Management

- Good site practice of providing drip trays for temporary use of chemicals is recommended to sustain; Drip trays should be properly maintained;
- Proper maintenance should be provided to equipment in site to prevent oil leakage;
- Oil stains on the floor are to be treated as chemical waste and cleaned off immediately.
- To provide adequate rubbish bins/skips for waste collection and check for any accumulation of wasted construction materials or general refuse on site.

Air Quality

- Proper covering of stockpile, especially cement, should be provided to reduce dust generation;
- Adequate water spraying should be applied on the haul roads and site entrances to reduce dust emission generated by traffic movement.

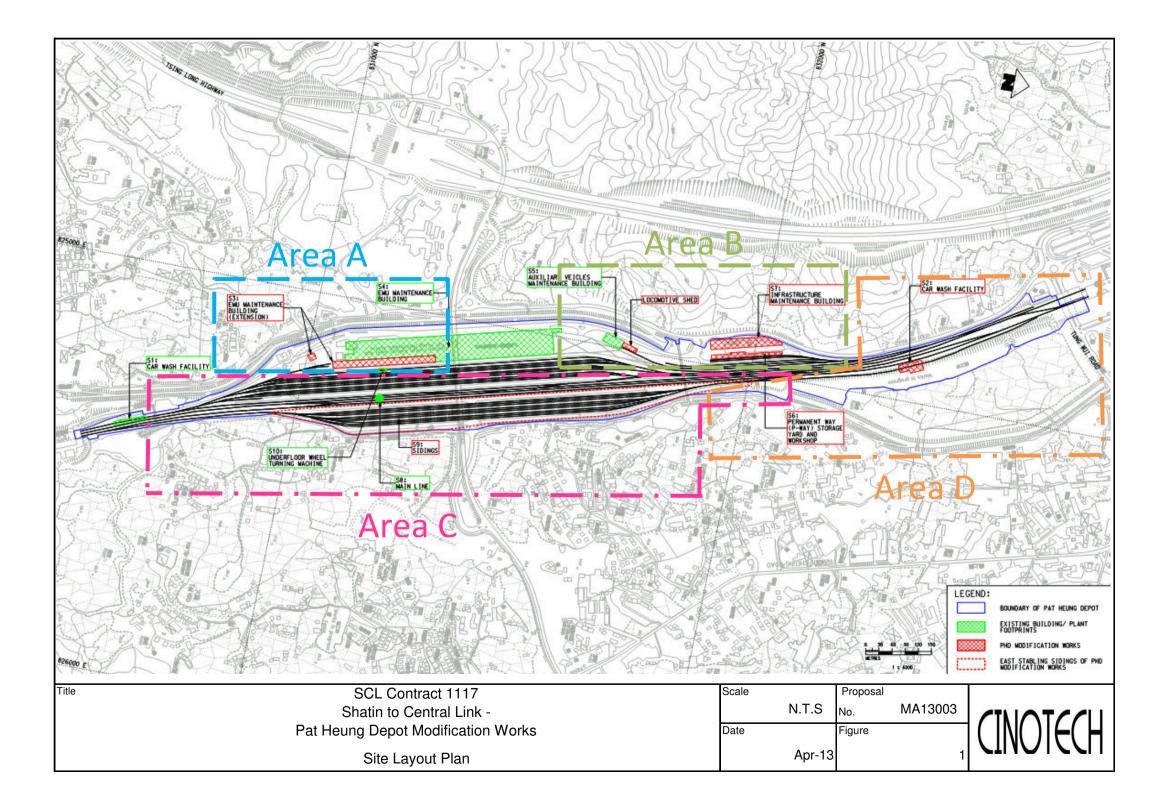
Tree Protection / Landscape and Visual

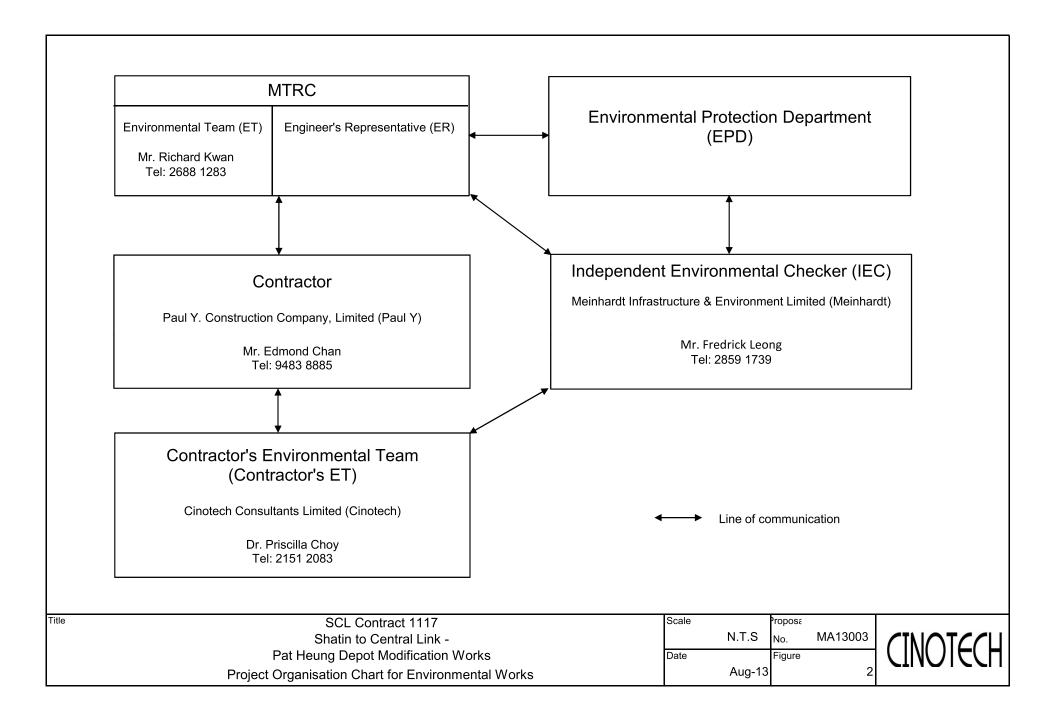
- To erect and maintain the protection fence around the retained trees;
- Avoid any construction materials being stored inside the tree protection zone.

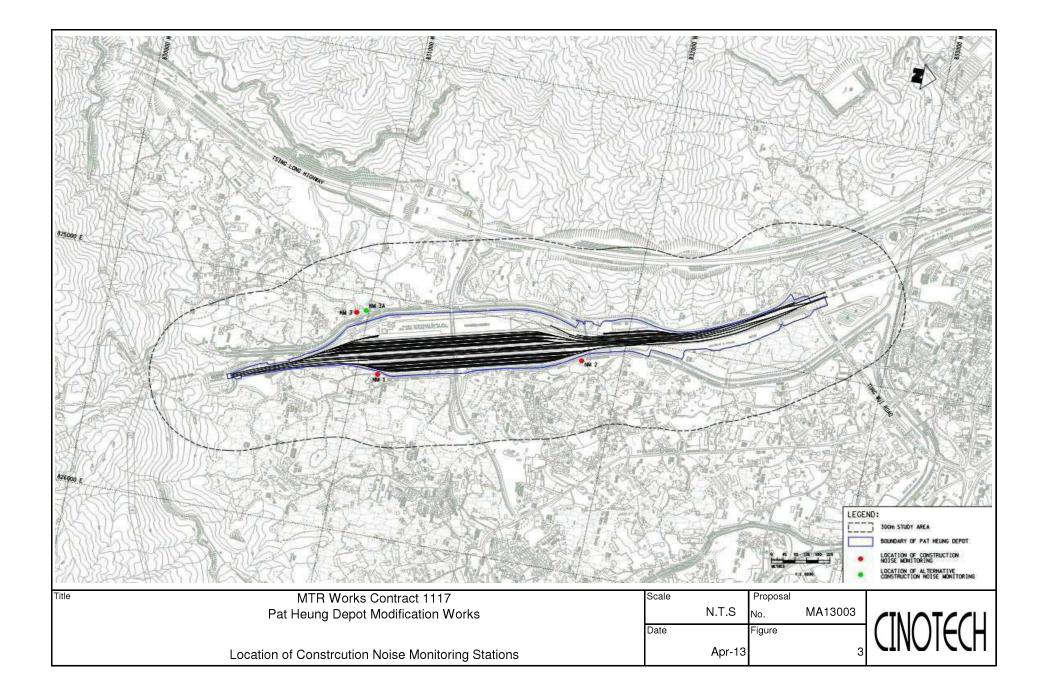
Construction Noise Impact

- Maintain the mechanical equipment to reduce noise nuisance.
- Provide temporary noise barriers for operations of mechanical equipment near noise sensitive receivers in an appropriate location.

FIGURES



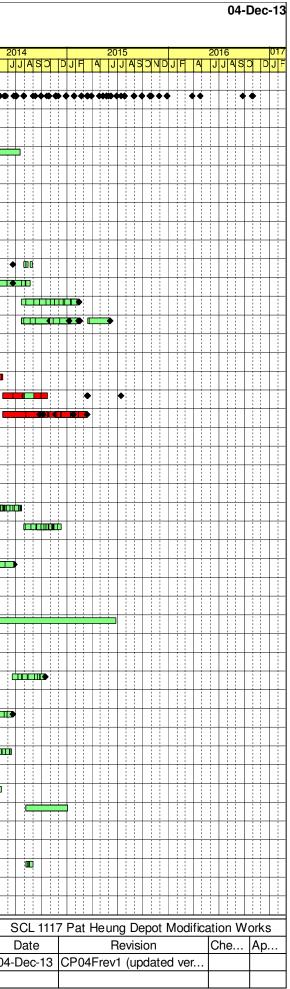




APPENDIX A TENTATIVE CONSTRUCTION PROGRAMME

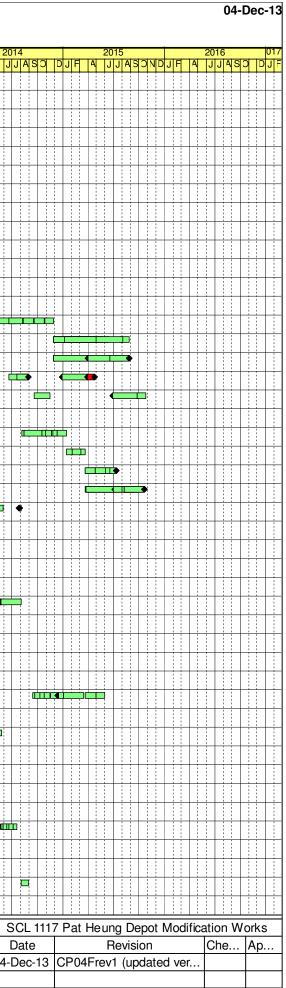
SCL 1117 Pat Heung Depot Modification Works

Activity ID Activity Name	Orig Dur	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	DJF	201			2 F A .	
Preliminaries and General Requirements	1764		22-Oct-12 A	29-Oct-17	16-Mar-13	29-Oct-17	0						-
Preliminaries and General Requirements	1764	1552	22-Oct-12 A	29-Oct-17	16-Mar-13	29-Oct-17	0	• •• •	• •	• •• •	* *** *	****	•
Area A - EMU Bldg Ext/Extg EMU Bldg/Noise Barrier 1/E&M Ancl Bldg	771	579	22-Oct-12 A	15-Jul-15	08-Feb-13	29-Oct-17	680						Ť
Preliminary Works Submission (Area A)	204	130	22-Nov-12 A	06-Jan-14	16-Mar-13	29-Oct-17	1129				de se s		
Materials Procurement (Area A)	333	283	29-Jan-13 A	15-Jul-14	21-Jun-13	27-Aug-14	37						Ē
Materials Submission (Area A)	120	9	31-Dec-12 A	09-Aug-13	24-Aug-13	17-Jan-14	128			∎ਂ⊺			-
Site Construction Works (Area A)	771	579	22-Oct-12 A	15-Jul-15	08-Feb-13	29-Oct-17	680						-
EMU Building Extension	716	547	22-Oct-12 A	05-Jun-15	03-Aug-13	29-Oct-17	712						1
E0 - Geotechnical Instrumentation and Monitoring	25	0	16-Mar-13 A	19-Apr-13 A	03-Aug-13	03-Aug-13		C C					1
E0 - General Site Clearance	345	171	22-Oct-12 A	03-Mar-14	23-Nov-13	29-Oct-17	1083		 :	e ttip		•	
E1 - Excavation and Foundation	371	321	10-Apr-13 A	28-Aug-14	03-Aug-13	22-Nov-14	71					-	٠
E2 - Civil & Structures Works	145	145	22-Feb-14	19-Aug-14	26-Feb-14	30-Oct-14	59					<u>i i i</u>	
E3 - ABWF Works	174	174	21-Jul-14	14-Feb-15	31-Jul-14	06-Jun-15	87						
E4 - BS Installation Works	260	260	21-Jul-14	05-Jun-15	31-Jul-14	06-Jun-15	1						
Ancillary E&M Plant Building	579	579	15-Apr-13 A	15-Jul-15	08-Feb-13	24-Jan-15	-136						-
E1 - Excavation and Foundation	116	116	15-Apr-13 A	16-Dec-13	08-Feb-13	06-Jul-13	-136			 			+
E2 - Civil & Structures Works	115	115	17-Dec-13	13-May-14	08-Jul-13	10-Jan-14	-96						-
E3 - ABWF Works	348	348	14-May-14	15-Jul-15	10-Feb-14	24-Jan-15	-136						ľ
E4 - BS Installation Works	251	251	14-May-14	14-Mar-15	22-Nov-13	27-Sep-14	-136					=	Ē
Existing EMU Building	408	408	20-Jun-13 A	11-Dec-14	14-Feb-14	06-Jun-15	140						
Underground Drainage	30	30	20-Dec-13	27-Jan-14	14-Apr-14	23-May-14	91						
E1 - Excavation and Foundation	18	18	28-Jan-14	20-Feb-14	24-May-14	14-Jun-14	91					3	-
E2 - Civil & Structures Works	12	12	21-Feb-14	06-Mar-14	16-Jun-14	28-Jun-14	91						-
BS Works (Existing EMU Building) Phase A	288	288	20-Jun-13 A	21-Jul-14	14-Feb-14	06-Jun-15	260					ni ni nin i	T
BS Works (Existing EMU Building) Phase B)	115	115	28-Jul-14	11-Dec-14	27-Aug-14	06-Jun-15	140						1
Option 1 - MTR Cable Diversion Works	676	564	22-Feb-13 A	26-Jun-15	01-Aug-13	31-Oct-16	401						
Cable Containment (Area A)	302	265	20-May-13 A	23-Jun-14	06-Aug-13	31-Oct-16	700					<u>i i i i i</u>	
Demolition	18	0	22-Feb-13 A	14-Mar-13 A	03-Aug-13	03-Aug-13							-
General Site Clearance	59	0	22-Apr-13 A	29-Jul-13 A	02-Aug-13	06-Sep-13			B				-
Cable Diversion - Area A (A3 & A5 Drawpit Cable Diversion)	616	564	16-Mar-13 A	26-Jun-15	01-Aug-13	27-Jun-15	1		i i i i	ri in	inini i	++++	4
Area A Storm Drain Diversion for A3/A5 Systemwide Cable Diversion	61	61	31-Jul-13	11-Oct-13	03-Sep-13	15-Nov-13	29						-
Miscellaneous and External Works (Overhead Line)	432	358	11-Apr-13 A	15-Oct-14	02-Aug-13	25-Oct-14	9						-
Overhead Line Construction	432	358	11-Apr-13 A	15-Oct-14	02-Aug-13	25-Oct-14	9						¢
Miscellaneous and External Works (Noise Barrier)	177	177	12-Nov-13	20-Jun-14	21-Mar-14	26-Oct-14	105						-
External Works near Noise Barrier (Area A)	177	177	12-Nov-13	20-Jun-14	21-Mar-14	26-Oct-14	105						•
Miscellaneous and External Works (Roadworks)	107	107	03-Feb-14	14-Jun-14	13-Feb-14	25-Jun-14	9						
Road Works & External Works	107	107	03-Feb-14	14-Jun-14	13-Feb-14	25-Jun-14	9				1		
Area B - New Fuel Station/Extg Fuel Station/New Loco Shed/New Training Track/IMB/P-Way Workshop	891	665	22-Oct-12 A	27-Oct-15	27-Jul-13	28-Nov-15	28						-
Preliminary Works Submission (Area B)	301	227	21-Nov-12 A	08-May-14	27-Jul-13	15-Aug-14	82						
Materials Procurement (Area B)	650	419	22-Oct-12 A	02-Jan-15	27-Jul-13	15-Apr-15	81		╞┿┿┿		╪╪┿╡		-
Site Construction Works (Area B)	743	665	03-Dec-12 A	27-Oct-15	27-Jul-13	28-Nov-15	28						
Site Preparation Works	397	323	03-Dec-12 A	30-Aug-14	31-Jul-13	12-Sep-14	10						+
Works Areas W6, W6A, W6B, W6C & W6D	397		03-Dec-12 A	30-Aug-14	31-Jul-13	12-Sep-14	10		⊨				-
Option 1 - MTR Cable Diversion Works	153	67	26-Apr-13 A	19-Oct-13	31-Jul-13	19-Oct-13	0						+
Systemwide Cable Diversion (Red) (Area B)	153	67	26-Apr-13 A	19-Oct-13	31-Jul-13	19-Oct-13	0						-
					d Construct		ame //			-		<u>; ; ;</u> 	S
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Paul Y. Construction Company, Limited Remaining Work						06-Sep-14							-
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ID	Activity Name	Orig Dur	Rem	Start	Finish	Late Start	Late Finish	Float		2013 A JJ		
ea B - New Fuel	Station - Works Area W5A	95		01-Mar-13 A	13-Aug-13	27-Jul-13	25-Sep-13	36				10
molition		6	0	30-Mar-13 A	06-Apr-13 A	27-Jul-13	27-Jul-13					
arding Erection	ı (Stage 1)	6	0	12-Mar-13 A	28-Mar-13 A	27-Jul-13	27-Jul-13					
Geotechnical	Instrumentation and Monitoring	12	0	01-Mar-13 A	14-Mar-13 A	27-Jul-13	27-Jul-13					T
Excavation ar	nd Foundation	9	0	06-Apr-13 A	23-Apr-13 A	27-Jul-13	27-Jul-13					
- Civil & Struct	ures Works	43	0	24-Apr-13 A	31-Jul-13 A	27-Jul-13	27-Jul-13					
- BS Installatio	n Works	40	0	01-Jun-13 A	11-Jul-13 A	27-Jul-13	27-Jul-13					t
erfacing Coord	ination (Area B)	14	14	31-Jul-13	13-Aug-13	12-Sep-13	25-Sep-13	43	,			+
ea B - AVM Build	ling - Works Area W5B	170	170	17-Aug-13	13-Mar-14	16-Dec-13	30-Mar-14	14				+
WF Works (AVI	MB Building) (Area B)	48	48	17-Aug-13	15-Oct-13	16-Dec-13	15-Feb-14	100	<mark>,</mark>			+
Installation Wo	orks (AVMB Building) (Area B)	36	36	28-Jan-14	13-Mar-14	17-Feb-14	30-Mar-14	14				1
	ture Maintenance Building (IMB)	699	665	22-Apr-13 A	27-Oct-15	17-Sep-13	28-Nov-15	28				+
- Excavation ar		268	234	22-Apr-13 A	16-May-14	17-Sep-13	05-Jul-14	41				ŧ
- Civil & Struct		162	162	17-May-14	27-Nov-14	07-Jul-14	17-Jan-15	41				+
- ABWF Works		220		-	27-Aug-15	02-Feb-15	31-Oct-15	53	<mark>,</mark> † † † †			+
- BS Installatio		220			27-Aug-15	19-Jan-15	31-Oct-15	53				+
Insformer Roor		252		20-Jun-14	25-Apr-15	17-Oct-14	26-Apr-15	0				+
Shaft at IMB		329		17-Sep-14	27-Oct-15	30-Apr-15	28-Nov-15	28				+
	t Way (P-Way) Workshop	659		15-Jul-13 A	20-Oct-15	14-Aug-13	31-Oct-15	10				+
- Excavation ar		134		04-Aug-14	14-Jan-15	14-Aug-14	24-Jan-15	10				+
- Civil & Struct		54		14-Jan-15	21-Mar-15	26-Jan-15	01-Apr-15	10				+
· ABWF Works		88		21-Mar-15	11-Jul-15	02-Apr-15	31-Oct-15	94				+
- BS Installatio		172		21-Mar-15 21-Mar-15	20-Oct-15	16-Apr-15	31-Oct-15	10				+
- Associated W		299		15-Jul-13 A	02-Aug-14	14-Aug-13		10				╁
	Shed - Works Area W5C			25-Jul-13 A	, v	, v	14-Aug-14	40			+++++	Ŧ
		298		25-Jul-13 A	01-Aug-14 09-Dec-13	17-Sep-13 17-Sep-13	27-Sep-14	48				+
- Excavation ar		110					20-Dec-13	10				
- Civil & Struct		48		19-Oct-13	13-Dec-13	26-Oct-13	20-Dec-13	6				' •
- ABWF Works		82		14-Dec-13	26-Mar-14	21-Dec-13	09-Jun-14	57				7
- BS Installatio		156		20-Jan-14	01-Aug-14	03-Feb-14	27-Sep-14	48				_
	ination (Loco Shed)	0		18-Jan-14	18-Jan-14	25-Jan-14	25-Jan-14	6				_
I Training Track		104		17-Jun-13 A	21-Oct-13	31-Jul-13	21-Oct-13	0				_
_	k - Works Area W6A (Area B)	104		17-Jun-13 A		31-Jul-13	21-Oct-13	0				_
	External Works (Overhead Crane)	424			30-May-15	23-Dec-13	25-Jul-15	47				
	Works Area W6/W6B/W6D	424		18-Dec-13	30-May-15	23-Dec-13	25-Jul-15	47				5
	bling/Extg Loco Shed/Noise Barrier 3 & 4/Extg A			22-Oct-12 A	27-Apr-15	31-Jul-13	25-Sep-15	126				
	Submission (Area C)	314		03-Dec-12 A		31-Jul-13	29-Aug-14	82				4
	ment (Area C)	35		22-Oct-12 A		31-Jul-13	02-Aug-13					_
erials Submise		24		17-Jun-13 A	J J	28-Aug-13	02-Sep-13	24				_
	Works (Area C)	588		21-Nov-12 A	<u> </u>	31-Jul-13	25-Sep-15	126				_
	orks (Works Areas W11, W12, W13, W3a & W3b)	360		21-Nov-12 A	18-Jul-14	31-Jul-13	05-Aug-14	15				
nolition		360		21-Nov-12 A	18-Jul-14	31-Jul-13	05-Aug-14	15				
neral Site Clear		48		28-Dec-12 A		31-Jul-13	31-Jul-13					
a C - Existing L	oco Shed	24		02-Aug-14	29-Aug-14	30-Aug-14	27-Sep-14	24				
molition		24		02-Aug-14	29-Aug-14	30-Aug-14	27-Sep-14	24				\downarrow
cellaneous and	External Works (Pipe Jacking Works)	269	268	17-Jun-13 A	27-Jun-14	02-Aug-13	29-Jun-14	1				
134		Remaining Level of Effort Critical Remaining	ainina V	/ork	Revised	I Construct	ion Progran	nme (CP04F	-rev1)		
	建 築 有 限 公 司	Actual Work					-	•		-		
1木 芋							Page 2 of 3					

SCL 1117 Pat Heung Depot Modification Works



ty ID Activity Name	Orig	Rem	Start	Finish	Late Start	Late Finish	Total		201			-
Pipe Jacking (South) (Area C)	Dur 269	Dur 268	17-Jun-13 A	27-Jun-14	02-Aug-13	29-Jun-14	Fioal 1					
Aliscellaneous and External Works (Noise Barrier)	441	441		27-Apr-15	26-Mar-14	25-Sep-15	126	+				+
Noise Barrier Location 3 (Area C)	181	181		09-Aug-14	21-May-14	27-Dec-14	115	+	++++	+++	•	,
Noise Barrier Location 4 (Area C)	441		28-Oct-13	27-Apr-15	26-Mar-14	25-Sep-15	126	+++	++++	+++		_
Aliscellaneous and External Works (Roadworks)	445		06-May-13 A	11-Dec-14	02-Aug-13	27-Dec-14	12					+
Road Works at Works Area W3a (CH E1350-E1450) (Area C)	183		03-Jun-13 A	24-Feb-14	02-Aug-13	28-Jun-14	100	+		╧		n
Road Works at Works Area W3a (CH E1450-E1550) (Area C)	305	268	06-May-13 A	26-Jun-14	14-Aug-13	28-Jun-14	2	+				
Road Works at Works Area W3a (CH E1550-E1650) (Area C)	173		21-Nov-13	25-Jun-14	23-Nov-13	28-Jun-14	3	+	++++	+++		
Road Works at Works Area W3a (CH E1650-E1750) (Area C)	145		26-Oct-13	24-Apr-14	29-Oct-13	07-Jun-14	35	+++				╡
Road Works at Works Area W3a (CH E1750-E1850) (Area C)	240		02-Sep-13	26-Jun-14	04-Sep-13	28-Jun-14	2			╧		╡
Road Works at Works Area W3a (CH E1850-E1900) (Area C)	166		02-Sep-13	24-Mar-14	04-Sep-13	28-Jun-14	76	+		╧		Ē
Road Works at Works Area W3c (CH E1900-E2100) (Area C - North Fan Area)	144		15-Aug-13	10-Feb-14	17-Aug-13	28-Mar-14	40	+	+			ī
Road Works at Works Area W3c (CH E2100-E2250) (Area C - North Fan Area)	130	130	<u> </u>	21-Feb-14	19-Sep-13	07-Mar-14	12	+	+	╉		K
Road Works at Works Area W3b (CH E1150) (Area C)	121	121		11-Dec-14	06-Aug-14	27-Dec-14	12	+	+	+++		-
Road Works at Works Area W3b (CH E1150-E1250) (Area C)	118	118		06-Dec-14	16-Aug-14	27-Dec-14	16	+	+	+++		-
Road Works at Works Area W3b (CH E1250-E1350) (Area C)	116	116		11-Dec-14	23-Aug-14	27-Dec-14	12	+++	++++	+++		-
rea D - A100 Road Extension/Train Wash Plant & Building/Noise Barrier 2 & 5	1009	935		23-Sep-16	02-Aug-13	31-Oct-16	30			+++		-
reliminary Works Submission (Area D)	367		09-Jan-13 A	26-Jul-14	02-Aug-13	06-Jun-15	255					õ
laterials Procurement (Area D)	76		22-Oct-12 A	20-Aug-13	02-Aug-13	25-Feb-14	153					-
laterials Submission (Area D	42				05-Feb-14	05-Feb-14	100		++++	+++	+++	
ite Construction Works (Area D)	1009		21-Jan-13 A	23-Sep-16	02-Aug-13	31-Oct-16	30					-
Option 1 - MTR Cable Diversion Works (A64 Drawpit)	249		03-Jun-13 A	16-Apr-14	09-Nov-13	25-Jul-14	79	+				-
Systemwide Cable Diversion - A64 Drawpit	249		03-Jun-13 A	16-Apr-14	09-Nov-13	25-Jul-14	79	+++	•			Ī
Aliscellaneous and External Works (Pipe Jacking Works)	258		14-Jun-13 A	14-Jun-14	05-Sep-13	29-Jun-14	12	+	+	+++		-
Pipe Jacking (North) (Area D)	258		14-Jun-13 A	14-Jun-14	05-Sep-13	29-Jun-14	12	+++	1			
Aliscellaneous and External Works (Overhead Line)	474		11-Nov-13	22-Jun-15	18-Nov-13	23-Apr-16	250					-
OHL Reprovision adjacent to WRL Main Line (Area D)	474		11-Nov-13	22-Jun-15	18-Nov-13	23-Apr-16	250	+		+++		ī
Aliscellaneous and External Works (Train Wash Facility)	772		17-Feb-14	23-Sep-16	19-Feb-14	25-Sep-16	1	+				-
E1 - Excavation and Foundation	60		17-Feb-14	02-May-14	19-Feb-14	05-May-14	2	+	+	+++		
E2 - Civil & Structures Works	68		03-May-14	24-Jul-14	07-May-14	27-Jul-14	- 2	+	+	+++		-
E3 - ABWF Works	220	220	-	24-Apr-15	16-Aug-14	24-Sep-16	423	+++	+	+++	+++	
E4 - BS Installation Works	640	640		23-Sep-16	16-Aug-14	25-Sep-16	1	++++		+++		
Aliscellaneous and External Works (Noise Barrier)	596		22-Apr-13 A	22-Jun-15	14-May-14	31-Oct-16	406	++++	+++	+++		
Noise Barrier (Area D)	596		22-Apr-13 A	22-Jun-15	14-May-14	31-Oct-16	406	+		+++		-
Aliscellaneous and External Works (Tree Management)	114		21-Jan-13 A		02-Aug-13	26-Nov-13	100	+	+	+++	++	-
Tree Management (Area D)	114		21-Jan-13 A		02-Aug-13	26-Nov-13				┛╋	+++	-
Aliscellaneous and External Works (Fill Embankment)	218		01-Apr-13 A	09-Mar-14	02-Aug-13	12-May-14	49	+	+	+++	++	-
Fill Embankment Works	218		01-Apr-13 A	09-Mar-14	02-Aug-13	12-May-14	49	++++				Ē
Aliscellaneous and External Works (Roadworks)	196		17-Feb-14	15-Oct-14	02-Aug-13 25-Mar-14	31-Oct-16	606		+	+++	++	_
A100 Access Road Extension (Area D)	196		17-Feb-14	15-Oct-14	25-Mar-14	31-Oct-16	606		+	╉	+	

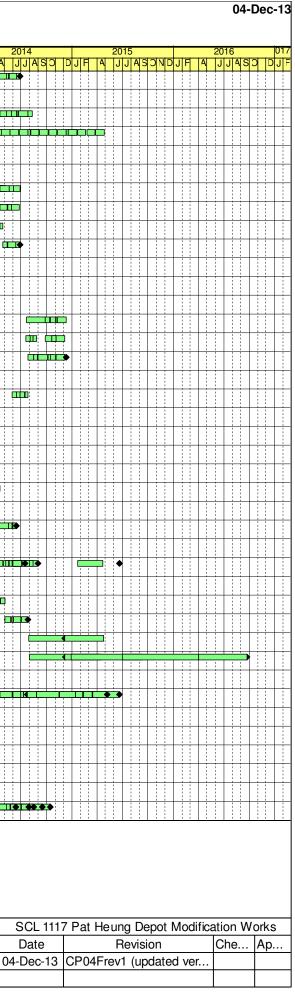
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SCL 1117 Pat Heung Depot Modification Works

Remaining Level of Effort Critical Remaining Work Milestone

Revised Construction Programme (CP04Frev1)

Page 3 of 3 06-Sep-14



APPENDIX B EVENT AND ACTION PLAN

Event and Action Plan for Noise Monitoring during Construction Phase

Event			Ad	ction			
	ET		IEC		ER		Contractor
Action	1. Notify IEC, Contactor, and ER;	1.	Review the investigation	1.	Confirm receipt of notification of	1.	Investigate the complaint and
Level	2. Discuss with the ER, IEC, and Contractor		results submitted by the		failure in writing;		propose remedial measures;
	on remedial measures required; and		contractor; and	2.	Notify Contractor, IEC and ET;	2.	Report the results of investigation
	3. Increase monitoring frequency to check	2.	Review and advise the	3.	Review and agree on the remedial		to the IEC, ET and ER;
	mitigation effectiveness.		ET and ER on the		measures proposed by the	3.	Submit noise mitigation proposals
			effectiveness of the		Contractor; and		to ER with copy to the IEC and ET
			remedial measures	4.	Supervise implementation of		within 3 working days of
			proposed by the		remedial measures.		notification; and
			Contractor.			4.	Implement noise mitigation
							proposals.
Limit	1. Notify IEC, EPD and Contractor;	1.	Check monitoring data	1.	Confirm receipt of notification of	1.	Identify source and investigate
Level	2. Repeat measurement to confirm findings;		submitted by the ET;		failure in writing;		the causes of exceedance;
	3. Increase monitoring frequency;	2.	Check the Contractor's	2.	Notify Contractor, IEC and ET;	2.	Take immediate action to avoid
	4. Carry out analysis of Contractor's working		working method;	3.	In consultation with the ER and IEC,		further exceedance;
	procedures to determine possible mitigation	3.	Discuss with the ER, ET,		agree with the Contractor on the	3.	Submit proposals for remedial
	to be implemented;		and Contractor on the		remedial measures to be		actions to ER with copy to IEC
	5. Arrange meeting with the IEC, Contractor		potential remedial		implemented;		and ET within 3 working days;
	and ER to discuss the remedial measures		measures; and	4.	Supervise the implementation of	4.	Implement the agreed proposals;
	to be taken;	4.	Review and advise the		remedial measures; and	5.	Revise and resubmit proposals if
	6. Inform IEC, ER, EPD the causes and		ET and ER on the	5.	If exceedance continues, consider		problem still not under control;
	actions taken for the exceedances; and		effectiveness of the		what portion of the work is		and
	7. Assess effectiveness of Contractor's		remedial measures		responsible and instruct the	6.	Stop the relevant portion of works
	remedial actions and keep IEC, EPD and		proposed by the		Contractor to stop that portion of		as determined by the ER until the
	ER informed of the results.		Contractor.		work until the exceedance is abated.		exceedance is abated

APPENDIX C COPIES OF CALIBRATION CERTIFICATES



华南国家计量测试中心 广东省计量科学研究院 SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY



校准证书

CALIBRATION CERTIFICATE

证书编号 Certificate No.	SSD201406950			第 Page		,, of		6 J	页
委托方 Client	Paul Y Construction	Co. L	.td	5 ⁰⁷	5			mo.	
委托方地址 Add. of Client	1 - Charles and a company	AC.R.		2 m		200		14	
计量器具名称 Description	Sound Level Meter	A. C.	17. 20	N. Contraction		C.M.			
型号规格 Model/Type	93	2		3	1.	N	2	30	
制造厂 Manufacturer	Pulsar		5	and the second		3	juli -		30
出厂编号 Serial No.	B22369		设备 Equi						- CM
接收日期 Date of Receip	pt	2014		12		15	日 D		
结论 Conclusion	符合JJG 188-2002中1	级技术	:要求	2					ar S
校准日期 Date of Calib	pration	2014	年 Y				日 D		15 m
准人 proved Signatory	苏ロント								

核验 Inspected by 校准 Calibrated by

批 App

> 证书专用章 Stamp



本中心地址:中国广州市广园中路松柏东街30号 邮政编码: 510405 电话: (8620)86594172 传真: (8620)86590743 投诉电话: (8620)26296063 E-mail: scm@scm.com.cn Add: No.30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, P. R. China Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)26296063 证书真伪查询: <u>www.scm.com.cn</u>; <u>www.mtpsp.com</u> Certificate AuthenticityIdentify: <u>www.scm.com.cn</u>; <u>www.mtpsp.com</u>

H25980 1



华南国家计量测试中心 东省计量科学研究院 SOUTH CHINA NATIONAL CENTER OF METROLOGY **GUANGDONG INSTITUTE OF METROLOGY**



日月

证书编号 SSD201406950 Certificate No.

DIRECTIONS

第2页,共6页 Page of

1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构,计量授权证书号是: (国)法计 (2012)01043号、(国)法计(2012)01032号。本中心质量管理体系符合IS0/IEC 17025:2005标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) under authorization certificates No.(2012)01043 & (2012)01032. The quality system is in accordance with ISO/IEC 17025:2005.

2. 本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and International System of Units (SI).

3. 本次校准的技术依据:

Reference documents for the calibration:

JJG 188-2002 声级计检定规程 V.R. of Sound Level Meters

4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration

Iviajo	or standards of measurement u	ised in the canoration.		
	设备名称/型号 Name of Equipment	编号 Serial No.	证书号/有效期 Certificate No.	计量特性 Metrological
	/Model		/Due Date	Characteristic
	标准传声器 Standard Microphones /4180	2488312	LSae2014-1017 /2015-04-13	声压灵敏度 级:0.05dB~0.12dB(<i>k</i> =2) Sound pressure sensitivity level:0.05dB~0.12dB(<i>k</i> =2)
	消音箱	1	SSD201402646	允差:±1.5 dB
	Sound Reducing Enclosure /2.0 m×1.4 m×1.4 m		/2015-05-26	MPE: ±1.5 dB
	PULSE分析系统 Pulse analyzer System /3560C(3110模块)	2392397	SSD201402188 /2015-04-24	电平: <i>U</i> _{rel} =0.1%,频 率: <i>U</i> _{rel} =0.001%(<i>k</i> =2) Voltage: <i>U</i> _{rel} =0.1%,Frequency : <i>U</i> _{rel} =0.001%(<i>k</i> =2)
校准:	地点、环境条件:			
	and environmental condition	s of the calibration:		
地点 Place	A		±3)℃ 相对湿度 R.H.	(40~50) %

6. 被校准仪器限制使用条件:

5. 校 PI 地

Limiting condition of the instrument calibrated:

注: 1. 本证书校准结果只与受校准仪器有关。

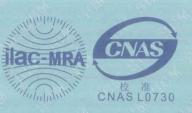
2. 未经本机构书面批准,不得部分复制此证书。

Note: 1. The results relate only to the items calibrated.

2. This certificate shall not be reproduced except in full, without the written approval of our laboratory.



华南国家计量测试中心 广东省计量科学研究院 SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY



校准结果 RESULTS OF CALIBRATION

证书编号: SSD201406950 Certification No.	原始记录编号: 2201406 Record No.	5950 第3页,共6页 Page of
1 外观: 合格		
Apparent inspection: Pass		
2 声级计指示声级调整:		
Level Calibration		
(声校准器型号: 4231	标准声压级: 94.0 dB)	
Sound Level Calibrator Type	Standard level	
校准前示值: 93.7 dB	校准后示值: 94.0 dB	传声器型号/编号: UK224/20042221
Indication before Calibrated	Indication after Adjusted	Microphone type/serial number
3 频率计权:见表1、表2、表3		
Frequency weightings: Showed in	table 1, table2, table 3	

表1 Table 1

	Per Audre I		
标称频率(Hz)	实测值A计权(dB)	允许范围 (dB)	结论
Nominal frequency	Measured Value A-weighting	Tolerance	Conclusion
10	-67.5	-∞ ~ -66.9	合格(Pass)
20	-50.2	-53.0 ~ -48.0	合格(Pass)
31.5	-39.6	-41.4 ~ -37.4	合格(Pass)
63	-26.4	-27.7 ~ -24.7	合格(Pass)
125	-15.9	-17.6 ~ -14.6	合格(Pass)
250	-8.5	-10.0 ~ -7.2	合格(Pass)
500	-3.2	-4.6 ~ -1.8	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	+1.2	-0.4 ~ +2.8	合格(Pass)
4000	+0.9	-0.6 ~ +2.6	合格(Pass)
8000	-1.2	-4.2 ~ +1.0	合格(Pass)
16000	-6.1	$-23.6 \sim -3.1$	合格(Pass)
20000	-8.5		合格(Pass)



华南国家计量测试中心 广东省计量科学研究院 SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY



校准结果 RESULTS OF CALIBRATION

·编号: SSD2014069 tification No.	50 原始记录编号: Record No.	2201406950	第4 引 Page
Star Star	表2 Table 2	and the second second	
标称频率 (Hz)	实测值C计权(dB)	允许范围(dB)	结论
Nominal frequency	Measured Value C-weighting	Tolerance	Conclusion
10 0	-14.5	-∞ ~ -10.8	合格(Pass)
20 20	-6.3	-8.7 ~ -3.7	合格(Pass)
31.5	-3.1	-5.0 ~ -1.0	合格(Pass)
63	-0.9	-2.3 ~ +0.7	合格(Pass)
125	-0.2	-1.7 ~ +1.3	合格(Pass)
250	0.0	-1.4 ~ +1.4	合格(Pass)
500	0.0	-1.4 ~ +1.4	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	-0.2	$-1.8 \sim +1.4$	合格(Pass)
4000	-1.0	-2.4 ~ +0.8	合格(Pass)
8000	-3.2	-6.1 ~ -0.9	合格(Pass)
16000	-8.3	-25.5 ~ -5.0	合格(Pass)
20000	-10.7	-∞ ~ -7.2	合格(Pass)
the second second	表3 Table 3		
标称频率(Hz)	实测值Z计权(dB)	允许范围(dB)	结论
Nominal frequency	Measured Value Z-weighting	Tolerance	Conclusion
10	-1.4	-∞ ~ +3.5	合格(Pass)
20	-0.4	-2.5 ~ .+2.5	合格(Pass)
31.5	-0.2	-1.5 ~ +1.5	合格(Pass)
63	-0.1	-1.5 ~ +1.5	合格(Pass)
125	0.0	-1.5 ~ +1.5	合格(Pass)
250	0.0	-1.4 ~ +1.4	合格(Pass)
500	0.0	-1.4 ~ +1.4	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	0.0	-1.6 ~ +1.6	合格(Pass)
4000	0.0	$-1.6 \sim +1.6$	合格(Pass)
8000	0.0	-3.1 ~ +2.1	合格(Pass)
16000	+0.1	-17.0 ~ +3.5	合格(Pass)
20000	0.0	-∞ ~ +4.0	合格(Pass)





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校准结果 RESULTS OF CALIBRATION

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4 级线性(参考频率 1 kHz)

Level linearity error (Reference frequency 1 kHz)

4.1 级程变化误差 (参考频率: 1000 Hz): 见表4

Level Change Error(Reference frequency: 1000 Hz): Showed in table 4

	No. M.	表4 Table 4		Ca. So
标准值(dB)	指示值 (dB)	误差 (dB)	允差 (dB)	结论
Reference Value	Indication Value	Error	Tolerance	Conclusion
20	19.4	-0.6	±0.7	合格(Pass)
30	30.2	+0.2	±0.7	合格(Pass)
40	40.4	+0.4	±0.7	合格(Pass)
50	50.2	+0.2	±0.7	合格(Pass)
60	60.1	+0.1	±0.7	合格(Pass)
70	70.1	+0.1	±0.7	合格(Pass)
80	80.1	+0.1	±0.7	合格(Pass)
90(ref.)	90.0	0.0		合格(Pass)
100	100.1	+0.1	±0.7	合格(Pass)
110	110.1	+0.1	±0.7	合格(Pass)
120	120.1	+0.1	±0.7	合格(Pass)
130	130.0	0.0	±0.7	合格(Pass)

4.2 参考级量程

Reference range

起始点指示声级: 90 dB

Start point

起始点以上间隔 1 dB点的最大误差: 0.1 dB Maximum Error for each 1 dB above start point 起始点以下间隔 1 dB点的最大误差: 0.1 dB Maximum Error for each 1 dB below start point





校准结果 RESULTS OF CALIBRATION

	号: SSD201406950 tion No.	原始记录编号: 220 Record No.	1406950	第 6 页, 共 6 页 Page of
5 本机	噪声:	the state of the	60 ⁰ 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Resid	lual noise			
Ait	·权: <20 dB 结论: 合格(Pa	iss)		
А-и	veighting Conclusion			
6 F和	S时间计权:			
Tim	e weightings F/S			
衰调	战速率: F: >25 dB/s ((允许范围: ≥25 dB/s)	1. 30° - 20°	
Atte		olerance		
		允许范围: 3.4 dB/s~5.3	dB/s);	
and the second		olerance		
	S差值: 0.0 dB			
	bersion F/S			
7 过载:				
	r loading indication 售: 1.3 dB(允许范围: ≤1.8 d	IB) 结论:合格(Pas	s)	
Errc		Conclusion	- 20 - 50°	
说明(Not	te):			
1 声压	级测量结果扩展不确定度:			
Expa	nded uncertainty of measuremen	t in Sound Pressure Level	Calibration:	
\$ <u>.</u> C	10 Hz \sim 200 Hz, $U=0.5$ dB, $k=2$	2011 01 11		
	250 Hz \sim 400 Hz , U =0.4 dB, k =			
	500 Hz \sim 1.25 kHz , U =0.4 dB, k			
	1.6 kHz \sim 10 kHz , U =0.6 dB, k = 12.5 kHz \sim 20 kHz , U =1.0 dB, k			
	JJF 1059.1-2012 测量不确定用			
	ording to JJF 1059.1-2012 Evaluation		poortainty in Maas	(imamont)
		ation and Expression of O	ncertainty in Meas	surement)
	EC 61672-1-2002标准。	and the state		
	ence standard: IEC 61672-1-200			
	校准周期不超过1年。			
The p	eriod of calibration advised with	in one year.		





校准证书 **CALIBRATION CERTIFICATE**

证书编号 Certificate No.	SSD201406951		第 1 页 Page		4页	
托方 lient	Paul Y Constructio	on Co. Ltd				
委托方地址 Add. of Client	200 - 10 - CN	JON S	and they	27	E. M.	
·量器具名称 escription	Sound Level Calibr	ator			50 8	1) 1) 1)
型号规格 Model/Type	105	S SCAL	Strain F	15- 16-		
制造厂 Manufacturer	Pulsar	Car and	1.8°	50 10 10		50
出厂编号 Serial No.	60220	设备 Equip	编号 — oment N	0.		-th
接收日期 Date of Receip	pt	2014 年 Y	12 月 M	15 E		
i论 onclusion	符合JJG 176-2005中	1级技术要求				
校准日期 Date of Calib	pration	2014 年 Y	12 月 M	17 E	E	20°

批准人 Approved Signatory 核验 Inspected by

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Inspected by 校 准 Calibrated by √<u>></u> ₹-178

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本中心地址:中国广州市广园中路松柏东街30号 邮政编码: 510405 电话: (8620)86594172 传真: (8620)86590743 投诉电话: (8620)26296063 E-mail: scm@scm.com.cn Add: No.30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, P. R. China Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)26296063 证书真伪查询: <u>www.scm.com.cn</u>; <u>www.mtpsp.com</u> Certificate AuthenticityIdentify: <u>www.scm.com.cn</u>; <u>www.mtpsp.com</u>

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说 明

<mark>证书编号</mark> SSD201406951 Certificate No.

DIRECTIONS

第 2 页, 共 4 页 Page of

1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构,计量授权证书号是: (国)法计 (2012)01043号、(国)法计(2012)01032号。本中心质量管理体系符合IS0/IEC 17025:2005标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) under authorization certificates No.(2012)01043 & (2012)01032. The quality system is in accordance with ISO/IEC 17025:2005.

2. 本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and International System of Units (SI).

3. 本次校准的技术依据:

Reference documents for the calibration:

JJG 176-2005 声校准器检定规程 V.R. of Sound Calibrators

4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

5 m	设备名称/型号 Name of Equipment /Model PULSE分析系统 Pulse analyzer System /3560C(3110模块)	编号 Serial No. 2392397	证书号/有效期 Certificate No. /Due Date SSD201402188 /2015-04-24	计量特性 Metrological Characteristic 电平: $\mathcal{U}_{tel}=0.1\%$, 频 率: $\mathcal{U}_{tel}=0.001\%$ (k=2) Voltage: $\mathcal{U}_{tel}=0.1\%$, Frequency : $\mathcal{U}_{tel}=0.001\%$ (k=2)
	声校准器 Sound Calibrator /4231	2713562	SSD201402647 /2015-05-26	1 级 Grade 1

5. 校准地点、环境条件:

 Place and environmental conditions of the calibration:

 地点
 声学/振动实验室
 温度
 (23±3) ℃
 相对湿度
 (30~40) %

 Place
 Acoustics/Vibration Lab.
 Temperature
 R.H.

6. 被校准仪器限制使用条件:

Limiting condition of the instrument calibrated:

注: 1. 本证书校准结果只与受校准仪器有关。

2. 未经本机构书面批准, 不得部分复制此证书。

Note: 1. The results relate only to the items calibrated.

2. This certificate shall not be reproduced except in full, without the written approval of our laboratory.





校准结果 RESULTS OF CALIBRATION

证书编号: SSD201406951 Certification No. 原始记录编号: 2201406951 Record No.

第 3 页, 共 4 页 Page of

1 外观: 合格

Apparent inspection: Pass

2 声压级 (dB): 见表1

Sound Pressure Level: Showed in table 1

表1 Table 1

标称值 (dB)	实测值(dB)	允差(dB)	结论	稳定度(dB)	稳定度允差(dB)	结论
Nominal Value	Measured Value	Tolerance	Conclusion	Stabilization	Stabilization Tolerance	Conclusion
94	93.81	±0.40	合格(Pass)	0.01	≤0.10	合格(Pass)

3 频率: 见表2

Frequency: Showed in table 2

表2 Table 2

标称值(Hz)	实测值(Hz)	允差(%)	结论
Nominal Value	Measured Value	Tolerance	Conclusion
1000	1000.30	±1.0	合格(Pass)

4 总失真: 见表3

Total harmonic distortion: Showed in table 3

表3 Table 3

频率(Hz)	声压级(dB)	总失真(%)	允差(%)	结论
Frequency	Sound Pressure Level	Total Harmonic Distortion	Tolerance	Conclusion
1000	94	0.1	≤3	合格(Pass)





校准结果 RESULTS OF CALIBRATION

证书编号: SSD201406951 Certification No. 原始记录编号: 2201406951 Record No. 第4页,共4页 Page of

说明(Note):

- 1 测量结果扩展不确定度:
 - Expanded uncertainty of measurement:
 - 声压级: U=0.15 dB, k=2
 - Sound Pressure Level Calibration
 - 频率: U_{rel}=0.1%, k=2

Frequency

失真度: U_{rel}=1.4%, k=2

Harmonic distortion

(依据JJF 1059.1-2012测量不确定度评定与表示)

(According to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

2 建议校准周期不超过1年。

The period of calibration advised within one year.

APPENDIX D UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

ERR ⁽¹⁾	ID	Decomposed of Mitisetics Measures	Chattara
Ref.	No.	Recommended Mitigation Measures	Status
Ecology	(Consti	ruction Phase)	
S7.6.2	-	Tree Felling and Vegetation Clearance	
		Tree felling and compensatory planting will be implemented in accordance with the requirements of ETWB TCW No. 3/2006 as far as practicable.	^
		Water Quality	
		Good construction site practices as required in ProPECC PN1/94 will be followed as appropriate. Implementation of some good construction practices are presented as follows:	
		Containment of silt runoff within the site boundary;	۸
		Appropriate storage and disposal of chemicals and chemical waste and the provision of sanitary facilities for on-site workers;	۸
		• Erection of temporary geo-textile silt or sediment fences/oil traps around any earth-moving works to trap any sediments and prevent them from entering watercourses;	۸
		Avoidance of soil storage against trees or close to water bodies;	^
		• No on-site burning of waste; and;	^
		Waste and refuse in appropriate receptacles.	^
Landsca	ape & Vi	sual (Construction Phase)	
S9.11	-	The following good site practices and measures have been recommended:	
		Re-use of Existing topsoil and fill generated from site	
		 For soil conservation, existing topsoil shall be re-used where possible for new planting areas within the project. The construction program shall consider using the soil 	^
		removed from one phase for backfilling another. Suitable storage ground, gathering ground and mixing ground may be set up on-site as necessary.	^
		• To maximise protection to existing trees, ground vegetation and the associated under storey habitats, construction contracts may designate "No-intrusion Zone"	
		to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should closely monitor	^
		and restrict the site working staff from entering the "no-intrusion zone", even for indirect construction activities and storage of equipment.	
		All retained trees should be recorded photographically at the commencement of the Contract, and carefully protected during the construction period.	
		Detailed tree protection specification shall be allowed for and included in the Contract Specification, which specifies the tree protection requirement,	#
		submission and approval system, and the tree monitoring system,	

ERR ⁽¹⁾	ID	Decommonded Militation Mecourse	Chatria
Ref.	No.	Recommended Mitigation Measures	Status
		• In addition, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent	۸
		to all retained trees, including trees in contractor's works sites.	
Table 9.7	CM1	Site Hoarding	
		Erection of solid screen during construction stage to prevent undesirable views of the construction site from visually sensitive areas.	۸
Table 9.7	CM2	Management of facilities on work sites	
		To provide proper site management of the facilities on the sites, give control on the height and disposition/ arrangement of all welfare facilities and construction plant on site to	٨
		minimise landscape and visual impacts to adjacent VSRs and existing/retained site features.	
Table 9.7	СМЗ	Construction programme	
		Employ construction techniques which assist in streamlining construction programme, minimise the duration of plant operations. Consider prefabrication of building elements	٨
		offsite to minimise on site works and construction period.	
Air Qual	ity		·
-	-	Emission from Vehicles and Plants	
		All vehicles shall be shut down in intermittent use.	٨
		Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke.	^
		All diesel fuelled construction plant within the works areas shall be powered by ultra-low sulphur diesel fuel (ULSD)	^
Constru	ction D	ust Impact	
S6.3.3	-	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation potential dust impacts. 8-time watering per day on	٨
		exposed worksites is recommended during construction phase to further alleviate the potential construction dust impacts.	
S6.3.3	-	• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed	٨
		or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;	
		Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;	^
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.	۸
		• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from	^

ERR ⁽¹⁾	ID	Decommended Mitigetien Mecourse	Chatura
Ref.	No.	Recommended Mitigation Measures	Status
		the vehicle;	
		• Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle	۸
		washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore;	
		• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the	۸
		site boundary with provision for public crossing; Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly	
		maintained throughout the construction period;	
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;	۸
		• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust	۸
		suppression chemical continuously;	
		• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so	۸
		as to maintain the entire surface wet;	
		• Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the	N/A ⁽²⁾
		scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;	
		Any skip hoist for material transport should be totally enclosed by impervious sheeting;	٨
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface	٨
		stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	
Constru	ction Ai	rborne Noise	
S5.5.6	-	Implement the following good site practices:	
		Louvres should be orientated away from adjacent NSRs, preferably onto the main line of WRL which are less sensitive.	N/A ⁽²⁾
		• Direct noise mitigation measures including silencers, acoustic louvers and acoustic enclosures should be allowed for in the design for the maintenance buildings, plant	N/A ⁽²⁾
		buildings and workshops.	
		• The façade and doors for these plant / workshops would have adequate sound insulation properties to minimise the noise emanating through the building fabric to	٨
		acceptable level.	

ERR ⁽¹⁾	ID		0				
Ref.	No.	Recommended Mitigation Measures	Status				
		• Acoustic treatments such as silencer, acoustic louvers, noise barriers and acoustic enclosures should be installed for the existing equipment where necessary to minimise	٨				
		the cumulative noise impacts on the NSRs.					
Water Quality (Construction Phase)							
S12.5	-	In accordance with the Practice Noise for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction					
		phase mitigation measures shall include the following:					
		Construction Runoff and Site Drainage					
		• At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and	*				
		sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be					
		provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the					
		commencement of construction.					
		• The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the	^				
		runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to					
		enhance deposition rates.					
		• The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps	N/A ⁽²⁾				
		should be 5 minutes under maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1m ³ /s a sedimentation basin of 30m ³ would be					
		required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the					
		commencement of construction.					
		• All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of	^				
		earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means.					
		• The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse	N/A ⁽²⁾				
		stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the					
		reduction of surface sheet flows.					
		• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and	*				

ERR ⁽¹⁾	ID		0
Ref.	No.	Recommended Mitigation Measures	Status
		particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.	
		• Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and	N/A ⁽²⁾
		backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal	
		facilities.	
		• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during	٨
		rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	
		• Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being	^
		washed into the drainage system and storm runoff being directed into foul sewers.	
		• Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after	N/A ⁽²⁾
		rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially	
		for areas located near steep slopes.	
		• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately	٨
		designed and sited wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and	
		removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the	
		public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	
		• Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to	N/A ⁽²⁾
		prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing	
		during heavy rain.	
S12.5.1.2	-	Sewage Effluent	
		• Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be	٨
		employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	
S12.5.1.3	-	Accidental Spillage	
		• In order to prevent accidental spillage of chemicals, proper storage and handling facilities should be provided. All the tanks, containers, storage area should be bunded	*

ERR ⁽¹⁾	ID		0
Ref.	No.	Recommended Mitigation Measures	Status
		and the locations should be locked as far as possible from the sensitive watercourse and storm water drains. The Contractor should register as a chemical waste producer	
		if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings. Disposal of	
		chemical wastes should be conducted in compliance with the requirements as stated in the Waste disposal (Chemical Waste) (General) Regulation.	
Waste M	lanagen	nent (Construction Waste)	
S11.5.1	-	A trip-ticket system should be established and will comply with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill	٨
		and solid wastes at public filling facilities and landfills, and to control fly-tipping.	
S11.5.1	-	C & D Material	
		Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;	۸
		Carry out on-site sorting;	۸
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;	۸
		• Adopt "Selective Demolition" technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where	N/A ⁽²⁾
		possible;	
		• Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and	۸
		• Implement an enhanced Waste Management Plan, which become a part of the Environmental Management Plan in accordance with "ETWBTC (Works) No. 19/2005 –	٨
		Waste Management on Construction Site", to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.	
		• In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal	٨
		sites to the Project Proponent and get its approval before implementation.	
S11.5.1	-	C&D Waste	
		• Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic	٨
		facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance	
		the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.	
		• The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or	۸

ERR ⁽¹⁾	ID	Decomposed of Mitisetics Measures	Chatria
Ref.	No.	Recommended Mitigation Measures	Status
		skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel	
		reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	
S11.5.1	-	General Refuse	
		• General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector	۸
		should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest	
		and litter impacts. Burning of refuse on construction sites is prohibited by law.	
		• Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their	۸
		deposit should be provided if feasible.	
		• Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be	^
		considered by the Contractor. In addition, waste separation facilities for paper, aluminium cans, plastic bottles etc., should be provided.	
S11.5.1	-	Chemical Waste	
		Chemical waste producers should be registered with EPD. For those processes which generate chemical waste, the Contractor shall identify any alternatives that generate	
		reduced quantities or even no chemical waste, or less dangerous types of chemical waste.	
		Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows.	
		Containers used for storage of chemical wastes should:	
		• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	^
		Have a capacity of less than 450 L unless the specification have been approved by EPD; and	N/A ⁽²⁾
		• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.	^
		The storage area for chemical wastes should:	
		• Be clearly labelled and used solely for the storage of chemical wastes;	۸
		• Be enclosed on at least 3 sides;	^
		• Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the	^
		area, whichever is greatest;	

ERR ⁽¹⁾ Ref.	ID No.	Recommended Mitigation Measures	Status					
nei.	INO.							
		Have adequate ventilation;	~					
		• Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste, if necessary); and	^					
		Be arranged so that incompatible materials are adequately separated.						
		Disposal of chemical waste should:						
		• Be via a licensed waste collector; and	^					
		• Be to a facility licensed to receive chemical waste, such as the CWTC which also offers a chemical waste collection service and can supply the necessary storage	*					
		containers; or						
		• Be to a re-user of the waste, under approval from EPD.	N/A ⁽²⁾					

Remarks:

- (1) The latest Environmental Review Report (ERR) for Pat Heung Depot Modification Works is referred in preparation of this summary.
- ^ Compliance of mitigation measure X Non-compliance of mitigation measure
 - Non-compliance but rectified by the contractor
 - * Recommendation was made during site audit but improved/rectified by the contractor.
 - # Recommendation was made during site audit but not yet improved/rectified by the contractor.

N/A⁽¹⁾ Not Applicable

N/A⁽²⁾ Not Applicable at this stage

APPENDIX E ENVIRONMENTAL MONITORING SCHEDULE

Contract No. SCL 1117 Pat Heung Depot Modification Works Tentative Impact Noise Monitoring Schedule for August 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Aug
02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug
	N					
	Noise					
	(1) at NM1, NM2 & NM3A					
09-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug
	Noise					
	(1) at NM1, NM2 & NM3A					
	(1) at MM1, MM2 & MM3A					
16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug
	N					
	Noise					
	(1) at NM1, NM2 & NM3A					
23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug
	Naiaa					
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
	(1) at MM1, MM2 & MM3A					
30-Aug	31-Aug					
	N					
	Noise					
	(1) at NM1, NM2 & NM3A					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Noise Monitoring Station:

NM1 - Tourmaline Villa NM2 - Kam Po Road NM3A - Tai Kek Tsuen

Category	Time Period	
(1)	0700-1900 hrs on normal weekdays	

Contract No. SCL 1117 Pat Heung Depot Modification Works Tentative Impact Noise Monitoring Schedule for September 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Sep	02-Sep	03-Sep	04-Sep	05-Sep
06-Sep	07-Sep	08-Sep	09-Sep	10-Sep	11-Sep	12-Sep
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep
	Naiaa					
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
	Noise					
	(1) at NM1, NM2 & NM3A					
27-Sep	28-Sep	29-Sep	30-Sep			
		Noise				
		(1) at NM1, NM2 & NM3A				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Noise Monitoring Station:

NM1 - Tourmaline Villa NM2 - Kam Po Road NM3A - Tai Kek Tsuen

Category	Time Period	
(1)	0700-1900 hrs on normal weekdays	

APPENDIX F NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

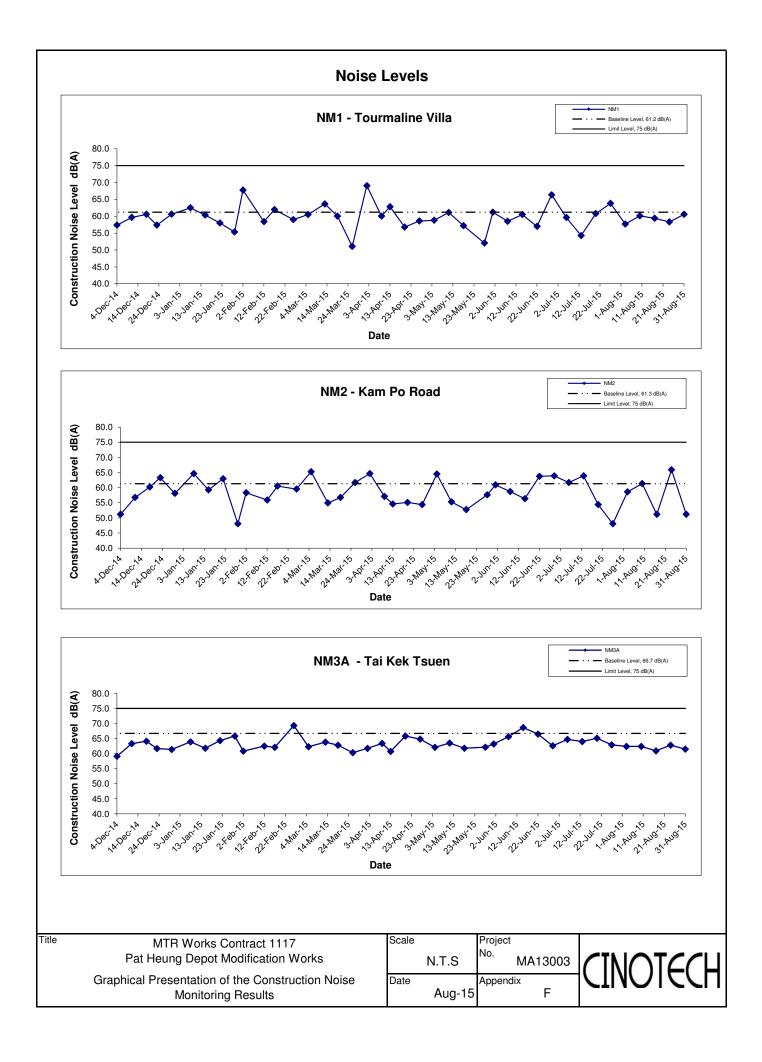
Appendix F - Noise Monitoring Results

Location NM1	- Tourmalir	ne Villa					
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Aug-15	10:11	Sunny	57.7	56.5	45.5		57.7 Measured \leq Baseline
10-Aug-15	9:57	Cloudy	63.7	61.4	50.6	Ī	60.1
17-Aug-15	9:55	Sunny	63.4	57.5	50.2	61.2	59.4
24-Aug-15	9:49	Sunny	58.3	60	49.7	Ī	58.3 Measured \leq Baseline
31-Aug-15	9:46	Cloudy	63.9	61.5	48.7		60.6

Location NM2 - Kam Po Road

			Unit: dB (A) (30-min)						
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
			L _{eq} L ₁₀ L ₉₀		L _{eq}	L _{eq}			
3-Aug-15	10:53	Sunny	58.6	59.4	46.8		58.6 Measured \leq Baseline		
10-Aug-15	10:39	Cloudy	61.3	61.3	49.6		61.3 Measured \leq Baseline		
17-Aug-15	10:39	Sunny	61.7	63.3	47.9	61.3	51.1		
24-Aug-15	10:35	Sunny	67.2	69.1	47.8		65.9		
31-Aug-15	10:34	Cloudy	61.7	64.8	45.7		51.1		

Location NM3A - Tai Kek Tsuen													
					Unit	: dB (A) (30-min)							
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}						
3-Aug-15	9:26	Sunny	62.4	61.3	53.9		62.4 Measured \leq Baseline						
10-Aug-15	9:16	Cloudy	62.4	60.7	54.3		62.4 Measured \leq Baseline						
17-Aug-15	9:14	Sunny	60.9	61.3	53.8	66.7	60.9 Measured \leq Baseline						
24-Aug-15	9:02	Sunny	62.8	64.5	57.4		62.8 Measured \leq Baseline						
31-Aug-15	9:01	Cloudy	61.5	59.9	52.1		61.5 Measured \leq Baseline						



APPENDIX G WASTE GENERATION IN THE REPORTING MONTH

Paul Y. Construction Company, Limited MTR Contract 1117 Pat Heung Depot Modification Works

Monthly Summary Waste Flow Table for 2015 (year)

		Actual Q	Quantities of In	ert C&D Mate	erials Generate	d Monthly		Actua	al Quantities of	f C&D Wastes	Generated M	onthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed to Sorting Facilities	Disposed to Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in kg)	(in kg)	(in kg)	(in '000m ³)
Jan '15	2.781	-		-	0.114	2.667	-	104.95	175	-	-	0.006
Feb '15	1.690	-	-	-	0.074	1.617	-	1.49	315	-	-	0.058
Mar '15	2.934	-	-	-	0.088	2.846	-	44.75	213	-	-	0.013
Apr '15	2.060	-	-	-	0.064	1.997	-	33.48	207	-	-	0.023
May '15	2.691	-	-	-	0.099	2.592	-	18.18	252	-	-	0.010
Jun '15	1.547	-	-	-	0.136	1.411	-	45.74	217	-	-	0.049
Sub-total	13.704	-	-	-	0.574	13.129	-	248.590	1379	-	-	0.159
Jul '15	1.930	-	-	-	0.115	1.816	-	-	297	-	-	0.018
Aug '15	2.172	-	-	-	0.101	2.070	-	-	236	-	-	0.013
Sep '15	-	-	-	-	-	-	-	-	-	-	-	-
Oct '15	-	-	-	-	-	-	-	-	-	-	-	-
Nov '15	-	-	-	-	-	-	-	-	-	-	-	-
Dec '15	-	-	-	-	-	-	-	-	-	-	-	-
Total	17.806				0.790	17.016		248.590	1912.000			0.190

Note:

Assume the densities of Rock, Soil, Mix Rock and Soil are Regular Spoil to be 2.0 tonnes/m3. Assumption the densities of general refuse is 1.0 tonnes/m3

APPENDIX H SITE AUDIT SUMMARY

Inspection Information

Checklist Reference Number	150803
Date	3 August 2015 (Monday)
Time	14:00 -16:30

Ref. No.	Non-Compliancé	Related Item	I
	2	No.	ı
-	None identified		I

Ref. No.	Remarks/Observations Part B - Water Quality	Related Item No.
150803-001	• Discharge quality should be improved by redirecting the onsite water for watering; and the sedimentation tank should be desilted regularly (Area B and D).	B 1 & B 6ii & B 8
	 <i>Part C - Tree Management Protection / Landscape & Visual Impact</i> No environmental deficiency was identified during the site inspection. 	
	 <i>Part D – Air Quality</i> No environmental deficiency was identified during the site inspection. 	
	 <i>Part E – Construction Noise Impact</i> No environmental deficiency was identified during the site inspection. 	
	 Part F – Waste/Chemical Management No environmental deficiency was identified during the site inspection. 	
	 <i>Part G - Permit / Licenses</i> No environmental deficiency was identified during the site inspection. 	
	Part H – Remark • -	

	Name	Signature	Date
Recorded by	Victor Wong	A	3 August 2015
Checked by	Dr. Priscilla Choy	WIL	3 August 2015
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Inspection Information Checklist Reference Number 150811 Date 11 August 2015 (Tuesday) Time 14:00 - 17:30

Ref. No.	Non-Compliance	Related Item
		No.
-	None identified	-

Ref. No.	Remarks/Observations Part B - Water Quality	Related Item No.
150811-001	 Onsite water and surface run-off should be reused for watering whenever possible; The mud near the water intake of the sedimentation tank should be cleared (Area B). 	B1&B8
	 Part C - Tree Management Protection / Landscape & Visual Impact No environmental deficiency was identified during the site inspection. 	
	 <i>Part D – Air Quality</i> No environmental deficiency was identified during the site inspection. 	
	 <i>Part E – Construction Noise Impact</i> No environmental deficiency was identified during the site inspection. 	
150811-R02	 <i>Part F – Waste/Chemical Management</i> Chemical containers should be stored in designated area or treated as chemical waste (Area B). 	F 2ii
	<i>Part G - Permit / Licenses</i>No environmental deficiency was identified during the site inspection.	
	 Part H Remark Follow-up on previous audit sessions (ref: 150803), item 150803-001 is remarked as 150811-001 for further rectification. 	

	Name	Signature	Date
Recorded by	Victor Wong	VA	11 August 2015
Checked by	Dr. Priscilla Choy	Nih	11 August 2015

Inspection Information

Checklist Reference Number	150819
Date	19 August 2015 (Wednesday)
Time	09:00 -11:30

Ref. No.	Non-Compliance	Related Item
		No.
-	None identified	-

Ref. No.	Remarks/Observations Part B - Water Quality	Related Item No.
150819-001	 Accumulated sediment in the sedimentation tank should be removed (Area A). 	B 6ji & B 6iii
	 Part C - Tree Management Protection / Landscape & Visual Impact No environmental deficiency was identified during the site inspection. Part D - Air Quality No environmental deficiency was identified during the site inspection. Part E - Construction Noise Impact No environmental deficiency was identified during the site inspection. Part F - Waste/Chemical Management No environmental deficiency was identified during the site inspection. Part F - Waste/Chemical Management No environmental deficiency was identified during the site inspection. Part G - Permit / Licenses No environmental deficiency was identified during the site inspection. 	

	Name	Signature	Date
Recorded by	Victor Wong	the	19 August 2015
Checked by	Dr. Priscilla Choy	WIL	19 August 2015

Inspection Information	
Checklist Reference Number	150828
Date	28 August 2015 (Friday)
Time	14:00 -17:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	Part B - Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	Part C - Tree Management Protection / Landscape & Visual Impact	
150828-001	• The trees adjacent to the footpath should be fenced off; The footpath should be located away from the tree protective zone (Area E).	C 2
	Part D – Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	Part E – Construction Noise Impact	
	• No environmental deficiency was identified during the site inspection.	
	Part F – Waste/Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	Part G - Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	Part H Remark	
	• Follow up on previous audit sessions (ref: 150819), the items were observed to be improved/rectified by the Contractor.	

Name	Signature	Date
Victor Wong	the	28 August 2015
Dr. Priscilla Choy	WA	28 August 2015
	Victor Wong	Victor Wong Dr. Priscilla Choy

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APPENDIX I SUMMARY OF EXCEEDANCE

APPENIDX I – SUMMARY OF EXCEEDANCE

Reporting Month: August 2015

a) Exceedance Report for Noise Monitoring (NIL)

APPENDIX J CUMULATIVE LOG FOR COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

Appendix J - Cumulative Log for Complaints, Notifications of Summons and Successful Prosecutions

Cumulative Complaint Log

Log Ref.	Date/Location	Complainant/ Date of Contact	Details of Complaint	Investigation/ Mitigation Action	File Closed

Cumulative Log for Notifications of Summons

Log Ref.	Date/Location	Subject	Status	Total no. Received in this reporting month	Total no. Received since project commencement

Cumulative Log for Successful Prosecutions

Log Ref.	Date/Location	Subject	Status	Total no. Received in this reporting month	Total no. Received since the commencement of the project