



Our ref.: CCL/MA13003/Corres/Out/bw151210_Mrpt1511

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

By Courier

10 December 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 (November 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. Benjamin Wong at 2151-2098 or the undersigned at 2151 2089.

Yours faithfully,

Cinotech Consultants Ltd.

Dr. Priscilla Choy

Environmental Team Leader

Encl.

Cc. (all w/e)

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w/o encl.

Paul Y

(Attn: Mr. Edmond Chan)

w/encl.







ISO 9001 : 2008 ISO 9001 : 2008 ISO 9001 : 2008
Certificate No.: CC 2289 Certificate No.: CC 2289 Certificate No.: CC 2289

Paul Y. Construction Company, Limited

MTR Works Contract 1117-Pat Heung Depot Modification Works

Monthly Noise Monitoring Report for November 2015

(Version 1.0)

Certified By

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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MTR Corporation Limited

West Rail

Pat Heung Modification Works Monthly Noise Monitoring Report No. 33 [Period from 1 to 30 November 2015]

(December 2015)

Verified by: _	Fredrick Leong
Position: Inde	pendent Environmental Checker
Date:	16 Dec. 2015

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EXECUTIVE SUMMARY

Introduction

1. This is the 33rd 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 November to 30 November 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 P-Way Workshop
 - ABWF Works
 - Cross track ducts construction
 - Cable trough laying
 - · Hydroseeding
 - 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 1,159 m³ of inert C&D materials were generated during the reporting period. Non-inert C&D wastes include 7,740 kg of metals, 250 kg of paper/cardboard packaging materials and 17 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.

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

D	No. of Exceedance		A ation 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 P-Way Workshop
 - ABWF Works
 - Cross track ducts construction
 - Cable trough laying
 - Strengthening works for OHL Mast at Location 2 & 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 33rd Monthly Noise Monitoring Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 November to 30 November 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 P-Way Workshop
 - ABWF Works
 - Cross track ducts construction
 - Cable trough laying
 - Hydroseeding
 - 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**.

Table 2.1 Status of Environmental Licenses, Notification and Permits

	Valid	a			
Permit / License No.	From	То	Status		
Environmental Permit (EP)	Environmental Permit (EP)				
FEP-24/004/1998/J	21/10/2013	End of the Project	Valid		
Notification pursuant to Air Pollu	tion Control (Constru	ction Dust) Regulation			
No.351534	31/10/2012	N/A	Valid		
Billing Account for Construction	Waste Disposal				
Account No. 7016256	2/11/2012	N/A	Valid		
Registration of Chemical Waste P	roducer	<u>. </u>			
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-RN0385-15					
(Area D: Location 2 OHL					
Footing and Noise Barrier	25/6/2015	1/1/2016	Valid		
Modification near to Kam	23/0/2013	1/1/2010	v and		
Sheung Road Station) – 1 st					
renewal					
GW-RN0527-15					
(Area D: Location 5 Noise	27/8/2015	26/11/2015	Expired		
Barrier and OHL Modification)					
GW-RN0739-15					
(Area D: Location 5 Noise	27/11/2015	26/02/2016	Valid		
Barrier and OHL Modification)	2//11/2013	20/02/2010	v and		
- 2 nd Renewal					

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 **Table 3.2** summarises the location of noise monitoring stations and shows the established Action and Limit Levels for construction noise monitoring works respectively. Location of the monitoring stations is shown on **Figure 3**.

Table 3.1 Construction Noise Monitoring Stations

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

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 Noise

Time Period (1)	Noise Monitoring Station	Action Level	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 3.3 Noise Monitoring Equipment

Equipment	Model and Make	Quantity	
Integrating Cound Lavel Mater	Svantek Model 955	1	
Integrating Sound Level Meter	(Serial no. 27455);		
Calibrator	Pulsar Instruments Model 105	1	
Candrator	(Serial no. 51342)	1	

Monitoring Parameters, Frequency and Duration

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

Table 3.4 Noise Monitoring Parameters, Frequency and Duration

Station	Parameter	Period	Frequency
NM1, NM2 and NM3A	$L_{\text{eq},30 \text{ min.}}^{(1)}$ (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} , 5_{min} 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 : ATime weighting : Fas

- 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**.

Table 4.1 Status of Required Submissions under EP

EP Condition	Submission	Submission Date
Condition 4.5	Monthly Noise Monitoring Report (October 2015)	13 th November 2015

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 non-inert waste generated from the Project were disposed of at TM 38 Area Fill Bank and NENT respectively. 250 kg of paper/cardboard packaging materials were generated during the reporting period. Detail of waste management data is presented in **Appendix G**.

Table 5.1 Quantities of Waste Generated from the Project

			Quanti	ty		
		C&D Materials (non-inert) ^(b)				
Reporting Month	C&D Materials (inert) ^(a)	General Refuse	Chemical Waste	Paper/ cardboard	Plastics	Metals
November 2015	$1,159 m^3$	$17 m^3$	0 kg	250 kg	0 <i>kg</i>	7,740 kg

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, 16 and 24 November 2015 by ET. A joint site audit with the representative with IEC, ER, the Contractor and the ET was carried out on 16 November 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**.

Table 6.1 Site Audit Observations

Parameters	Date	Observations	Follow-up
Water Quality	11 November 2015	Reminder: Water in sedimentation tank in Area B was observed muddy. The Contractor was reminded to remove the sediment from the tank regularly.	The accumulated sediment was removed by the Contractor. Closing Date: 24 November 2015
Noise	N/A	N/A	N/A
Tree Protection/ Landscape and Visual	16 November 2015	Observation: Construction material was observed accumulated in the tree protection zone located near the entrance in the Area A. The Contractor was reminded to remove the construction waste from the tree protection zone.	Follow up status will be provided in the next reporting month.
	27 October 2015	Observation: Haul road in Area D is observed dry and dusty. The Contractor is reminded to provide regular water spray to the haul road in Area D to suppress dust generation.	The haul road is observed wet and the dust generation is suppressed. Closing Date: 3 November 2015
	11 November 2015	Reminder: The Contractor was reminded to cover the stockpile in the Area A to suppress dust generation.	The stockpile was covered properly. Closing Date: 16 November 2015
Air Quality	11 November 2015	Reminder: The Contractor was reminded to provide water spray to the haul road in Area C & D to suppress dust generation.	Water spray was provided to the haul road regularly by the Contactor and the dust generation was minimized. Closing Date: 16 November 2015
	16 November 2015 Reminder: Frequent water spray should be provided to the haul road in Area C to increase the efficiency of dust suppression.		The haul road in Area C was observed wet and it is believed that sufficient water spray was provided for dust suppression. Closing Date: 24 November 2015
Waste / Chemical Management	N/A	N/A	N/A
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
 - Waterproofing work P-Way Workshop
 - ABWF Works

- Cross track ducts construction
- Cable trough laying
- Strengthening works for OHL Mast at Location 2 & 5.
- Hydroseeding
- Construction of FAO Fencing

9 CONCLUSIONS

Conclusions

- 9.1 This Monthly Noise Monitoring Report presents the EM&A works undertaken during the period from 1 November to 30 November 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;

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.

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.

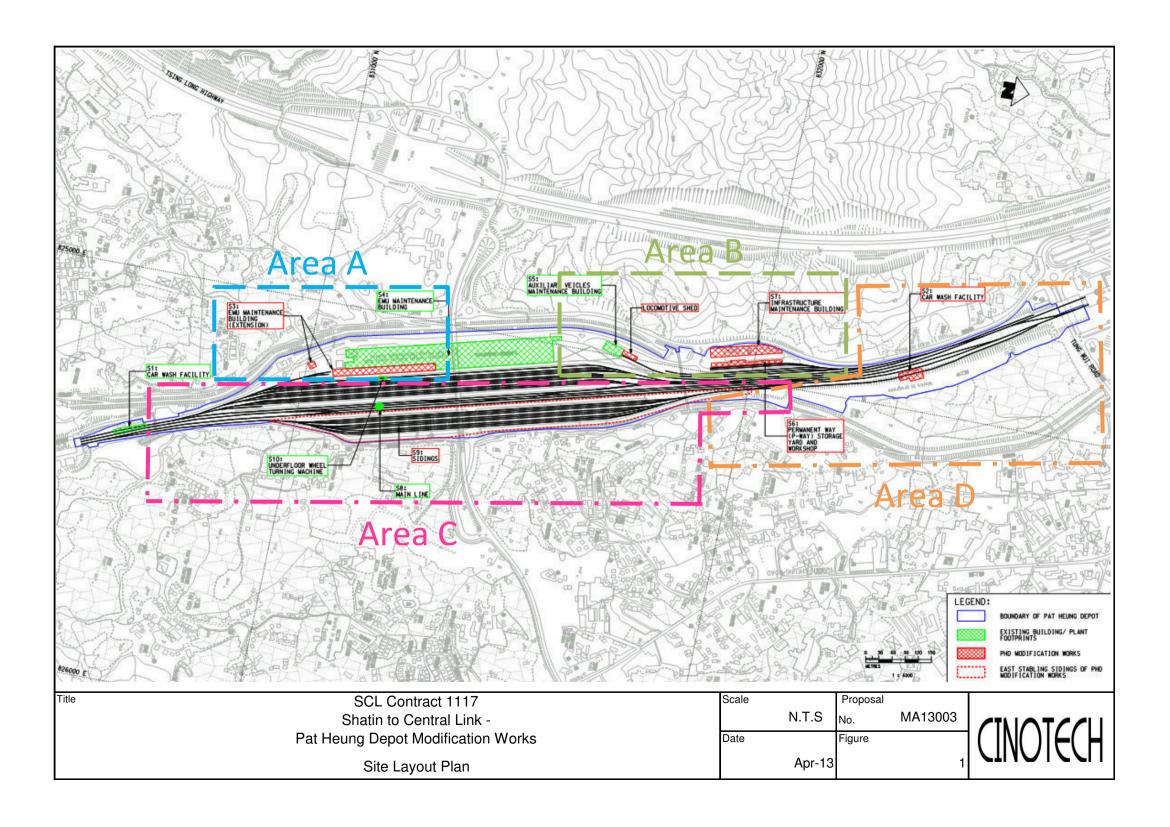
Tree Protection / Landscape and Visual

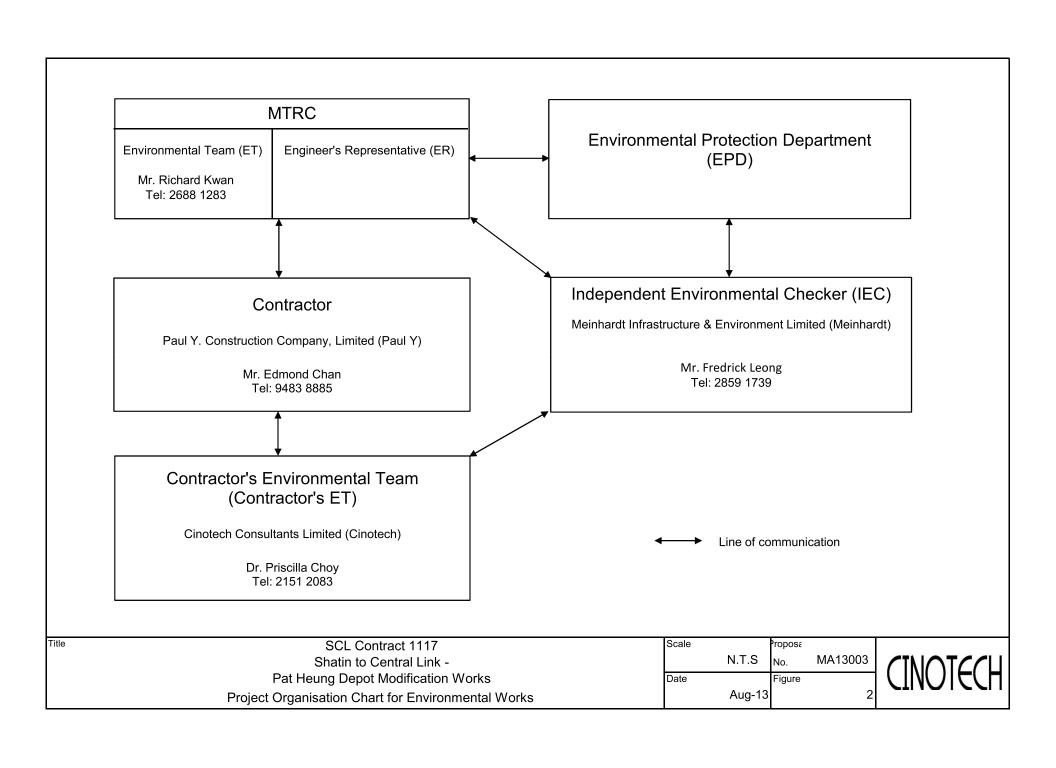
- To erect and maintain the protection fence around the retained trees;
- Avoid any construction materials being stored inside the tree protection zone.

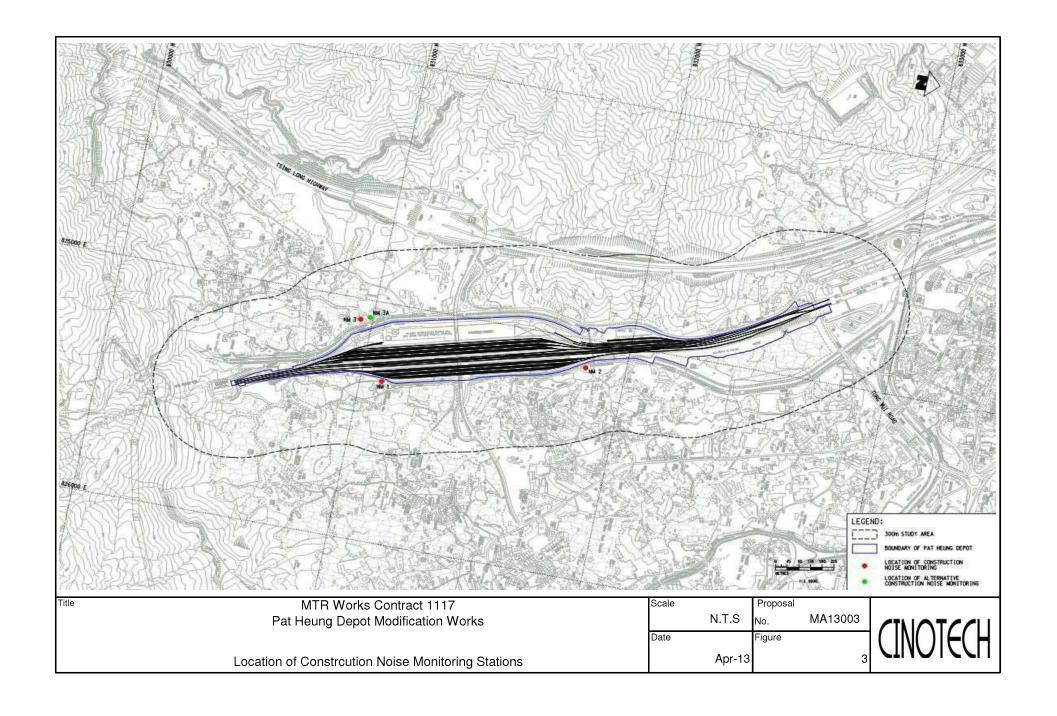
Construction Noise Impact

- 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





Date Revision Che... |Ap.. Page 1 of 3 04-Dec-13 CP04Frev1 (updated ver... 06-Sep-14





Revised Construction Programme (CP04Frev1)

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06-Sep-14

SCL 1117 Pat Heung Depot Modification Works							
Date	Revision	Che	Ар				
04-Dec-13	CP04Frev1 (updated ver						

Activity ID Activity Name		Rem	Start	Finish	Late Start	Late Finish	Total		2013		2014		2015		2016 01
Dina lasking (Cauth) (Aug C)	Dur	Dur	17-Jun-13 A	27-Jun-14	00 Aug 10	20 Jun 14	Float	DJF A	JJAS		AJJAS	J DIE	NCSALL A	DIJIF A	I JUNISO DU
Pipe Jacking (South) (Area C) Miscellaneous and External Works (Noise Barrier)	269				02-Aug-13	29-Jun-14 25-Sep-15	100								
			28-Oct-13	27-Apr-15	26-Mar-14		126								
Noise Barrier Location 3 (Area C)	181		28-Dec-13	09-Aug-14	21-May-14								<u> </u>		
Noise Barrier Location 4 (Area C)	441		28-Oct-13	27-Apr-15	26-Mar-14	25-Sep-15	126						<u> </u>		
Miscellaneous and External Works (Roadworks)			06-May-13 A		02-Aug-13	27-Dec-14	12								
Road Works at Works Area W3a (CH E1350-E1450) (Area C)	183		03-Jun-13 A		02-Aug-13		100							444	
Road Works at Works Area W3a (CH E1450-E1550) (Area C)			06-May-13 A		14-Aug-13	28-Jun-14	2								
Road Works at Works Area W3a (CH E1550-E1650) (Area C)			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)			02-Sep-13	26-Jun-14	04-Sep-13		2								
Road Works at Works Area W3a (CH E1850-E1900) (Area C)	166		02-Sep-13	24-Mar-14	04-Sep-13		76		1 1		1				
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								
Road Works at Works Area W3c (CH E2100-E2250) (Area C - North Fan Area)			13-Sep-13	21-Feb-14	19-Sep-13		12								
Road Works at Works Area W3b (CH E1150) (Area C)	121	121	21-Jul-14	11-Dec-14	06-Aug-14		12								
Road Works at Works Area W3b (CH E1150-E1250) (Area C)	118			06-Dec-14	16-Aug-14		16								
Road Works at Works Area W3b (CH E1250-E1350) (Area C)	116	116	26-Jul-14	11-Dec-14	23-Aug-14		12								
Area D - A100 Road Extension/Train Wash Plant & Building/Noise Barrier 2 & 5			22-Oct-12 A		02-Aug-13		30								
Preliminary Works Submission (Area D)	367	293	09-Jan-13 A	26-Jul-14	02-Aug-13	06-Jun-15	255								
Materials Procurement (Area D)	76	18	22-Oct-12 A	20-Aug-13	02-Aug-13	25-Feb-14	153								
Materials Submission (Area D	42	0	21-Jan-13 A	14-Mar-13 A	05-Feb-14	05-Feb-14									
Site Construction Works (Area D)	1009	935	21-Jan-13 A	23-Sep-16	02-Aug-13	31-Oct-16	30	<u> </u>							
Option 1 - MTR Cable Diversion Works (A64 Drawpit)	249	212	03-Jun-13 A	16-Apr-14	09-Nov-13	25-Jul-14	79	<mark>)</mark>							
Systemwide Cable Diversion - A64 Drawpit	249	212	03-Jun-13 A	16-Apr-14	09-Nov-13	25-Jul-14	79		•		?				
Miscellaneous and External Works (Pipe Jacking Works)	258	258	14-Jun-13 A	14-Jun-14	05-Sep-13	29-Jun-14	12								
Pipe Jacking (North) (Area D)	258	258	14-Jun-13 A	14-Jun-14	05-Sep-13	29-Jun-14	12								
Miscellaneous and External Works (Overhead Line)	474	474	11-Nov-13	22-Jun-15	18-Nov-13	23-Apr-16	250	<mark>)</mark>							
OHL Reprovision adjacent to WRL Main Line (Area D)	474	474	11-Nov-13	22-Jun-15	18-Nov-13	23-Apr-16	250)				-] 🔷		
Miscellaneous and External Works (Train Wash Facility)	772	772	17-Feb-14	23-Sep-16	19-Feb-14	25-Sep-16	1								
E1 - Excavation and Foundation	60	60	17-Feb-14	02-May-14	19-Feb-14	05-May-14	2	•		00					
E2 - Civil & Structures Works	68	68	03-May-14	24-Jul-14	07-May-14	27-Jul-14	2								
E3 - ABWF Works	220	220	28-Jul-14	24-Apr-15	16-Aug-14	24-Sep-16	423	1]		
E4 - BS Installation Works	640	640	30-Jul-14	23-Sep-16	16-Aug-14	25-Sep-16	1					1			
Miscellaneous and External Works (Noise Barrier)	596	374	22-Apr-13 A	22-Jun-15	14-May-14	31-Oct-16	406								
Noise Barrier (Area D)	596	374	22-Apr-13 A	22-Jun-15	14-May-14	31-Oct-16	406	•							
Miscellaneous and External Works (Tree Management)	114	0	21-Jan-13 A	23-Jul-13 A	02-Aug-13	26-Nov-13									
Tree Management (Area D)	114	0	21-Jan-13 A	23-Jul-13 A	02-Aug-13	26-Nov-13									
Miscellaneous and External Works (Fill Embankment)	218	181	01-Apr-13 A	09-Mar-14	02-Aug-13	12-May-14	49								
Fill Embankment Works	218	181	01-Apr-13 A	09-Mar-14	02-Aug-13	12-May-14	49) 							
Miscellaneous and External Works (Roadworks)	196	196	17-Feb-14	15-Oct-14	25-Mar-14	31-Oct-16	606								
A100 Access Road Extension (Area D)	196	196	17-Feb-14	15-Oct-14	25-Mar-14	31-Oct-16	606			. i i i i i i i i i i i i i i i i i i i	10 00 0				
										<u> </u>	<u> </u>		<u> </u>		<u></u>





SCL 1117 Pat Heung Depot Modification Works							
Date	Revision	Che	Ар				
04-Dec-13	CP04Frev1 (updated ver						

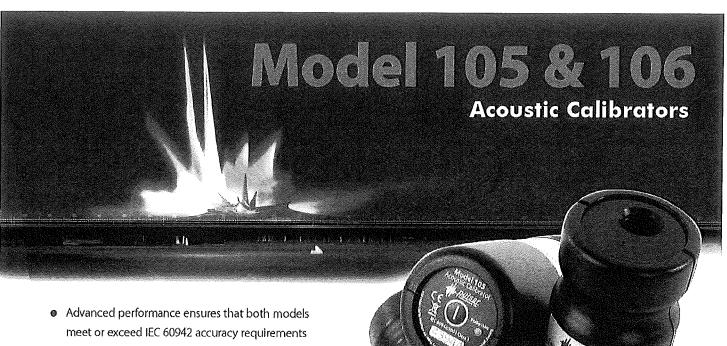
APPENDIX B EVENT AND ACTION PLAN

Event and Action Plan for Noise Monitoring during Construction Phase

Event	Action								
	ET		IEC		ER		Contractor		
Action	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	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





- Ergonomic and robust design
- Auto correction for temperature and barometric pressure
- Auto switch-off in normal mode and 'permanent-on' mode available
- Low battery indicator
- 94dB Sound Pressure Level
- Fits 1/2 inch international standard microphones
- 1/4 inch microphone adapter available

The Models 105 & 106 are part of the NEW generation of Pulsar Instruments acoustic calibrators that allow you to quickly check the accuracy of your sound level meter or dosemeter thus complying with International regulations and codes of practice.

Great care has been taken during the design process to ensure that the units are comfortable to hold, robust and easy to use, whilst performing accurately throughout a wide range of temperature, humidity and pressure conditions.

In use they fit over the microphone of the instrument and produce a stable 1kHz tone at 94dB, the frequency and sound level repectively, as mandated by the standard.

The Model 105 meets the precision of Class 1 of IEC 60942, while the lower cost Model 106 meets industrial Class 2.

The calibrators are powered by an easy to access single 9 volt battery giving many months or even years of operation. An automatic shut-off circuit ensures power conservation should you forget to switch the unit off after calibrating.



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1



CERTIFICATE OF CALIBRATION

Corf	ificato	Mo:

15CA0518 02-02

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of

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Item tested

Description:

Acoustical Calibrator (Class 1)
Pulsar Instruments Ltd.

Manufacturer: Type/Model No.:

Model 105

Serial/Equipment No.:

51342

Adaptors used:

.

Item submitted by

Curstomer:

Paul Y. General Contractors Limited

Address of Customer:

-

Request No.; Date of receipt:

18-May-2015

Date of test:

20-May-2015

Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B 53132A	Serial No. 2341427 2743150 2346941 61227 US36087050 GB41300350 MY40003662	Expiry Date: 15-Apr-2016 22-Apr-2016 22-Apr-2016 16-Apr-2016 17-Apr-2016 16-Apr-2016	Traceable to: SCL CEPREI CEPREI CEPREI CEPREI CEPREI CEPREI CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity:

60 ± 10 %

Air pressure:

1000 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B
 and the lab calibration procedure SMTP004-CA-156,
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013,25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942; 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions,

Details of the performed measurements are presented on page 2 of this certificate,

Huana-dian-M

Approved Signatory:

Date:

21-May-2015

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

@ Solls & Materials Engineering Co , Ltd

Form No CARP156-1/Issue 1/Rev D/01/03/2007



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Tel: (852) 2873 6860 Fax: (852) 2655 7533



CERTIFICATE OF CALIBRATION

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1. Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties,

			(Output level in dB re 20 µPa)
Frequency	Output Sound Pressure	Measured Oulput	Estimated
Shown	Level Setting	Sound Pressure Level	Expanded Uncertainty
Hz	dB	dВ	dB
1000	94,00	93.77	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be;

At 1000 Hz

STF = 0.003 dB

Estimated expanded uncertainty

0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 1000.1 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2,2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND ≈ 0.6 %

Estimated expanded uncertainty

0.7%

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95 %. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

- End

vannuated by:

Checked by:

Lon Tze Wal

Date:

Fung Chi Yip \ O-May-2015

Date

21-May-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

© Solla & Materials Envincering Co., Ltd.

Form No.CARP156-2/Issue 1/Rev.C/01/05/2005



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Tel : (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate I	10.:
---------------	------

15CA0518 02-01

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Item tested

Description:

Sound Level Meter (Type 1)

Microphone ACO, JAPAN

Manufacturer: Type/Model No.: SVANTEK, POLAND 955

7052E 50002

Serial/Equipment No.: Adaptors used:

Item submitted by

Customer Name:

Paul Y, General Contractors Limited

Address of Customer:

Request No.:

27455

Date of receipt:

18-May-2015

Date of test:

20-May-2015

Model:

Reference equipment used in the calibration

Description:

Multi function sound calibrator Signal generator

B&K 4226 DS 360 DS 360

Serial No. 2288444

33873

61227

Expiry Date: 20-Jun-2015 16-Apr-2016

16-Apr-2016

Traceable to: CIGISMEC CEPREI CEPREI

Ambient conditions

Temperature:

Signal generator

20 ± 1 °C 60 ± 10 %

Relative humidity: Air pressure:

1000 ± 5 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 ٦, and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, replaced by an equivalent capacitance within a tolerance of ±20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580; Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate,

Huang-Jiarr Min/Feng

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

un Qi

21-May-2015

Company Chop:

The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

O Solls & Materials Engineering Co., Ltd

Form No CARP152-1/Issue 1/Rev C/01/02/2007



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Tel ; (852) 2873 6860 Fax: (852) 2555 7533

2



CERTIFICATE OF CALIBRATION

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	0518

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1, **Electrical Tests**

> The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	Α	Pass	0.3	
	С	Pass	0.8	2.1
	Lín	Pass	1.6	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	Α	Pass	0.3	
	С	Pass	0,3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100μs rectangular pulse	Pass	0,3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
0 0	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0,3	
	Leq	Pass	0.4	

Acoustic tests 2,

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Welghting A at 125 Hz Welghting A at 8000 Hz	Pass Pass	0.3 0.5	
Response to associated so	und calibrator			

3,

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%, A coverage factor of 2 is assumed unless explicitly stated.

Callbrated by:

ung Chi Yio Date: 20-May-2015 End

Checked by:

Date:

Lam Tze Wai 21-May-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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Tel : (852) 2873 6860 Fax: (852) 2555 7533 A CIGIS GROUP COMPANY

Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:

955 7052E Serial No.

27455

20-May-2015 Date

Microphone

type:

Serial No.

50002

Report: 15CA0518 02-01

SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting

< 25.0

Noise level in C weighting

dΒ dB < 25.0

Noise level in Lin

< 25.0

dB

LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals.(SLM set to LEQ/SPL)

	Actual	level	Tolerance	Devia	tion
Reference/Expected level	non-integrated	Integrated		non-integrated	Integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124,0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134,0	134.0	134,0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0,0
139.0	139.0	139.0	0.7	0.0	0.0
140,0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0,0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	43.9	43.9	0.7	-0.1	-0.1



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Tol: (052) 2873 6860 Fax: (852) 2555 7533 COMENTAL COMPANY

Test Data for Sound Level Meter

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	und level met crophone	er type; type;	955 7052E		Serial No. Serial No.	27455 50002	Dat	te 20-May	y-2015
		TANKS OF STREET					Re	oort: 15CA05	18 02-01
	39.0		38.9	38.9	0.7	•	-0.1	-0.1	
1	34.0		33.9	33.9	0.7		-0.1	-0,1	!
,	29.0		28.7	28.7	0.7		-0,3	-0.3	
	28.0		27.6	27.6	0.7		-0.4	-0.4	******
	27.0		26.5	26.5	0.7		-0.5	-0.5	
	26,0		25,4	25.4	0.7		-0.6	-0.6	

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
25-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation	1
dB	dB	dB	+/- dB	dB	
25-140	27.0	26.5	0.7	-0.5	
	138.0	138.0	0.7	0.0	

FREQUENCY WEIGHTING TEST

The frequency response of the weighting netwoks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency	weighting A:

	Frequency	Ref. level	Expected level	Actual level	Tolera	nce(dB)	Devlation
1	Hz	dB	dB	dB	+		dB
,	1000.0	94.0	94.0	94.0	0.0	0.0	0.0
i	31.6	94.0	54.6	54.6	, 1.5	1.5	0,0
	63.1	94.0	67.8	67.8	1.5	1,5	0,0
	125.9	94.0	77.9	77.9	1.0	1.0	0.0
	251.2	94.0	85,4	85.3	1.0	1.0	-0.1
	501.2	94.0	90,8	90.7	1.0	1.0	-0.1
	1995.0	94.0	95.2	95.1	1.0	1.0	-0.1
	3981.0	94.0	95.0	95.0	1.0	1.0	0.0
I	7943.0	94.0	92.9	92.9	1.5	3.0	0.0
1	12590.0	94.0	89.7	89.6	3.0	6.0	-0.1

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolerar	rce(dB)	Deviation	
Hz	dB	dB	dB	+		dB	
1000.0	94.0	94.0	94.0	0.0	0.0	0,0	1
31.6	94.0	91.0	91.0	1.5	1.5	0.0	\$
63.1	94.0	93.2	93.1	1,5	1.5	-0.1	



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Test Data for Sound Level Meter

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	955		Serial No.			Date	20-May-2015
type:	/052E		Sellai No.	500		Report	15CA0518 02-01
94.0	1	93,8	93,8	1.0	1.0	0.0	
94.0	i	94.0	93.9	1.0	1.0	-0.1	
94.0		94.0	94.0	1.0	1.0	0.0	
94.0		93.8	93.8	1.0	1.0	0.0	
94.0	-	93.2	93.2	1.0	1.0	0.0	4
94.0		91.0	91.0	1.5	3.0	0.0	1
94.0		87.8	87.7	3.0	6.0	-0.1	
	94.0 94.0 94.0 94.0 94.0	94.0 94.0 94.0 94.0 94.0 94.0 94.0	type: 7052E 94.0 93.8 94.0 94.0 94.0 94.0 94.0 93.8 94.0 93.8 94.0 93.2 94.0 91.0	type: 7052E Serial No. 94.0 93.8 93.8 94.0 94.0 93.9 94.0 94.0 94.0 94.0 93.8 93.8 94.0 93.8 93.8 94.0 93.2 93.2 94.0 91.0 91.0	type: 7052E Serial No. 500 94.0 93.8 93.8 1.0 94.0 94.0 93.9 1.0 94.0 94.0 94.0 1.0 94.0 93.8 93.8 1.0 94.0 93.8 93.8 1.0 94.0 93.2 93.2 1.0 94.0 91.0 91.0 1.5 94.0 91.0 91.0 0.0 94.0 94.0 91.0 91.0 0.0 94.0 94.0 94.0 91.0 0.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0	type: 7052E Serial No. 50002 94.0	type: 7052E Serial No. 50002 94.0 93.8 93.8 1.0 1.0 0.0 94.0 94.0 93.9 1.0 1.0 -0.1 94.0 94.0 94.0 1.0 1.0 0.0 94.0 93.8 93.8 1.0 1.0 0.0 94.0 93.2 93.2 1.0 1.0 0.0 94.0 91.0 91.0 1.5 3.0 0.0

Frequency weighting Lin:

requency weigh Frequency	Ref. level	Expected level	Actual level	Tolerar	rce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000,0	94,0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	93,9	1.5	1.5	-0.1
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
125.9	94.0	94.0	93.9	1.0	1.0	-0.1
251,2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	.93,9	1.0	1.0	-0.1
1995.0	94.0	94.0	93.9	1.0	1.0	-0.1
3981.0	94.0	94.0	93,9	1.0	1.0	-0.1
7943.0	94.0	94.0	93.9	1.5	3,0	-0.1
12590.0	94.0	94.0	93.9	3.0	6.0	-0.1

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

When the signal is continuous.		70.9					
Ref. level	Expected level	Actual level	Tolerar	rce(dB)	Deviation		
dB	dB	dB	+		dB		
127.0	126.0	126.0	1.0	1.0	0.0		

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

When the signal is continuous.	(VVCIGITET)					
Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation	
dB	dB	dB	+		dB	
127.0	122.9	122.9	1.0	1.0	0.0	

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range. Positive polarities: (Weighting C, set the generator signal to single, Lcpmax)



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Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

955

Serial No.

27455

Date

20-May-2015

Microphone

type:

7052E

Serial No. 5

50002

Report: 15CA0518 02-01

Ref. level	Response to 10 ms		Tolerance	Deviation
dB	dB	dB	+/- dB	dB
130,0	130.0	129,8	2.0	-0.2

Negative polarities:

regulivo polarillos.					
Ref. level	Response to 10 ms			Deviation	
dΒ	dB	dB	+/- dB	dB	
130.0	130.0	129,8	2.0	-0.2	

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency:

2000 Hz

Amplitude:

2 dB below the upper limit of the primary indicator range.

Burst repetition frequency: 40 Hz

Tone burst signal;

11	cycles of	a sine wave	of frequency 2000 Hz.	(Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	₫B	indication(dB)	+/- dB	dB
Slow	129,0+6.6	129.0	129.0	0.5	0.0

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency:

2000 Hz

Amplitude:

The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

, en gradian and and an adiation	O 1110,			
Ref. Level	Single burs	t Indication	Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
131.0	122.2	122.2	2.0	0,0

Repeated at 100 Hz

Ref. Level Repeated burs		irst indication	Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
131.0	128.3	128.2	1.0	-0.1

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst:

4000 Hz

Duration of tone burst:

1 ms

Paration of torio paroti	1 1110					
Repetition Time	Level of	Expected	Actual	Tolerance	Deviation	Remarks
	tone burst	Leq	Leq			
msec	dB	dB	dB	+/- dB	dB	7
1000	108.0	108.0	107.9	1.0	-0.1	60s integ.
10000	98.0	98.0	97.9	1.0	-0.1	6min. integ,

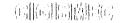
PULSE RANGE AND SOUND EXPOSURE LEVEL TEST



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Test Data for Sound Level Meter

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Sound level meter type:

955

Serial No.

27455

20-May-2015 Date

Microphone

type:

7052E

Serial No.

50002

Report: 15CA0518 02-01

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference rar Test frequency:

4000 Hz

Integration time:

10 sec

The integrating sound level meter set to Leg:

The integraning o	Coma to to the total			warmen and a second control of	;
Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	85.0	55.0	55.0	1.7	0.0

The integrating sound level meter set to SEL:

The mediams a	ound level motor	JULIO OLL.	g		,
Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	85,0	65.0	65.0	1.7	0.0

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency:

2000 Hz

Amplitude:

2 dB below the upper limit of the primary indicator range.

Burst repetition frequency:

40 Hz

Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
135.0	134.0	131.0	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as follow The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference rar

Test frequency:

4000 Hz

Integration time:

10 sec 1 msec

Single burst duration: 1 msec Rms level Level reduced by Expected level Actual level Tolerance Deviation at overload (dB) 1 dB dB dB dB dB				j	
				Tolerance	Deviation
		dB	i	dB	dB
140.9	139.9	99,9	99.9	2.2	0.0

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Expected level Actual level		Tolerance (dB)		
Hz	dB	Measured (dB)	+	-	dB	
1000	94.0	94.0	0.0	0.0	0,0	
125	77.9	77.9	1,0	1.0	0.0	
8000	92.9	93.9	1.5	3.0	1.0	

-----END-----

APPENDIX D UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

ERR ⁽¹⁾ ID Recommended Mitigation Measures		Ctatus	
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;	^
		 Appropriate storage and disposal of chemicals and chemical waste and the provision of sanitary facilities for on-site workers; 	^
		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;	^
		Avoidance of soil storage against trees or close to water bodies;	۸
		No on-site burning of waste; and;	^
		Waste and refuse in appropriate receptacles.	^
Landsca	pe & 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	۸
		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.	٨
		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,	

ID	Recommended Mitigation Measures S						
No.							
	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.						
CM1	Site Hoarding						
	Erection of solid screen during construction stage to prevent undesirable views of the construction site from visually sensitive areas.	۸					
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	۸					
	minimise landscape and visual impacts to adjacent VSRs and existing/retained site features.						
СМЗ	CM3 Construction programme						
	Employ construction techniques which assist in streamlining construction programme, minimise the duration of plant operations. Consider prefabrication of building elements						
	offsite to minimise on site works and construction period.						
ity							
-	Emission from Vehicles and Plants						
	All vehicles shall be shut down in intermittent use.	۸					
	Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke.	۸					
	All diesel fuelled construction plant within the works areas shall be powered by ultra-low sulphur diesel fuel (ULSD)	٨					
ction Du	ust Impact						
-	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	*					
	exposed worksites is recommended during construction phase to further alleviate the potential construction dust impacts.						
-	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	*					
	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;	۸					
	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	۸					
	CM1 CM2 CM3	Recommended Mitigation Measures 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 to all retained trees, including trees in contractor's works sites. CMI Site Hoarding Erection of solid screen during construction stage to prevent undesirable views of the construction site from visually sensitive areas. 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 minimise landscape and visual impacts to adjacent VSRs and existing/retained site features. CM3 Construction programme Employ construction techniques which assist in streamlining construction programme, minimise the duration of plant operations. Consider prefabrication of building elements of site to minimise on site works and construction period. Fity Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diseal fuelled construction plant within the works areas shall be powered by uitra-low sulphur diesel fuel (ULSD) All diseal fuelled construction plant within the works areas shall be powered by uitra-low sulphur diesel fuel (ULSD) 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 exposed worksites is recommended during construction phase to further alleviate the potential construction dust impacts. 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 or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty mate					

Appendix D - MTR Works Contract 1117–Summary of Environmental Mitigation Implementation Schedule

ERR ⁽¹⁾	ID		.			
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	٨			
		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	٨			
		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;	٨			
		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	٨			
		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				
		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	borne 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.				

Appendix D - MTR Works Contract 1117–Summary of Environmental Mitigation Implementation Schedule

ERR ⁽¹⁾	ID		
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	^
		the cumulative noise impacts on the NSRs.	
Water Q	uality (C	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	۸
		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	۸
		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 0.1 m ³ /s a sedimentation basin of 30 m 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	۸
		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	Pagammandad Mitigation Magaziros						
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 50m³should be covered with tarpaulin or similar fabric during	۸					
		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	٨					
		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	۸					
		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	۸					

ERR ⁽¹⁾	ID		
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	۸
		public fill 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 –	^
		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	۸
		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	۸
		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	Decommended Mitigation Massures						
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	٨					
	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						
		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;	٨					
		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.	٨					
		The storage area for chemical wastes should:						
		Be clearly labelled and used solely for the storage of chemical wastes;	٨					
		Be enclosed on at least 3 sides;	٨					
		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	٨					
		area, whichever is greatest;						

ERR ⁽¹⁾ Ref.	ID No.	Recommended Mitigation Measures Statu		Status	
		Have adequate ventilation;	•	٨	
		Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste, if necessary); and	•	٨	
		Be arranged so that incompatible materials are adequately separated.	•	۸	
	Disposal of chemical waste should:				
		Be via a licensed waste collector; and	•	۸	
		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	•	۸	
		containers; or			
		Be to a re-user of the waste, under approval from EPD. N/A ⁽²⁾	•	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

Impact Noise	Monitoring	Schedule	for	November	2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
29-Nov	30-Nov					
	<u>Noise</u> (1) at NM1, NM2 & NM3A					

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 Sci	chedule for December 2015
---------------------------------------	---------------------------

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
•	·	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec
6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec
	Noise (1) at NM1, NM2 & NM3A					
13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec
	<u>Noise</u> (1) at NM1, NM2 & NM3A					
20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec
	Noise (1) at NM1, NM2 & NM3A					
27-Dec	28-Dec	29-Dec	30-Dec	31-Dec		
	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

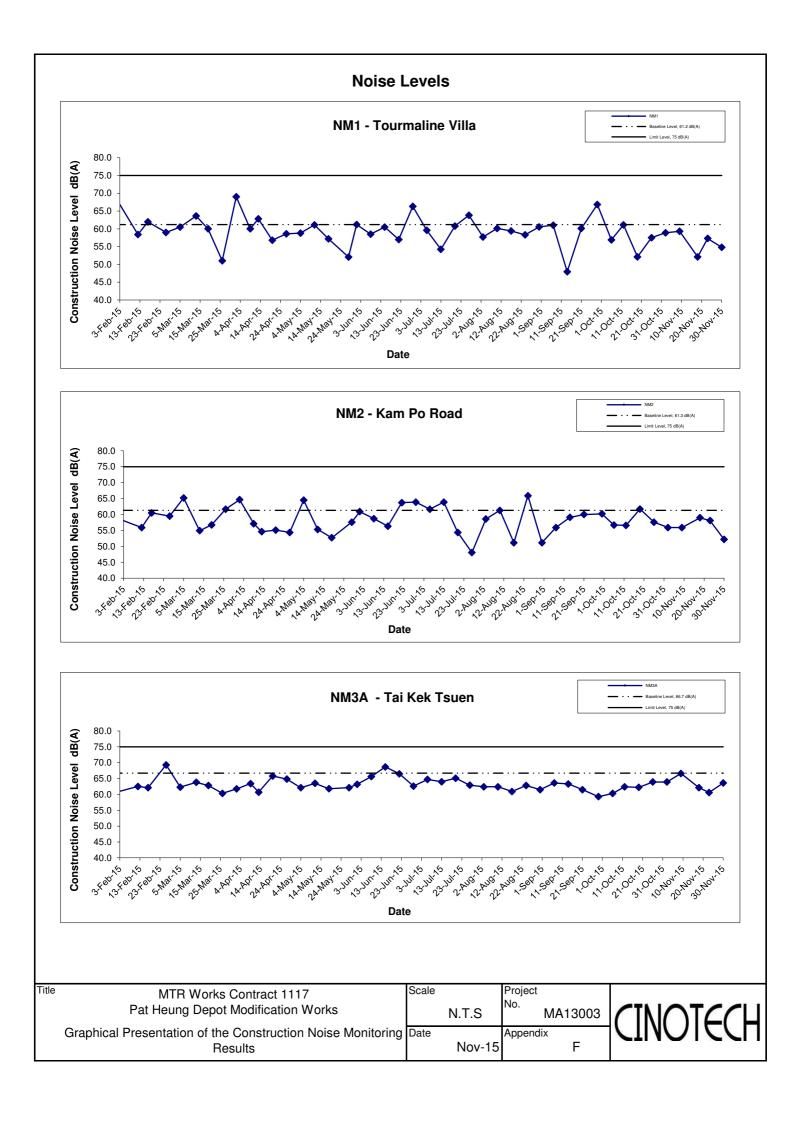
Appendix F - Noise Monitoring Results

Location NM1 - Tourmaline Villa								
		Unit: dB (A) (30-min)						
Date	Time	Weather	Mea	sured Noise	Level	Baseline Level	Construction Noise Level	
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
2-Nov-15	10:06	Cloudy	58.9	59.6	45.4		58.9 Measured ≤ Baseline	
9-Nov-15	10:10	Sunny	59.3	58	46.1		59.3 Measured \leq Baseline	
18-Nov-15	9:42	Sunny	61.7	56.4	46.8	61.2	52.1	
23-Nov-15	9:46	Sunny	57.3	55.9	45.9		57.3 Measured \leq Baseline	
30-Nov-15	9:44	Sunny	62.1	60.1	48		54.8	

Location NM2 - Kam Po Road										
				Unit: dB (A) (30-min)						
Date	Time	Weather	Mea	Measured Noise Level Baseline Level		Construction Noise Level				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
2-Nov-15	10:43	Cloudy	55.9	54.5	45.5		55.9 Measured \leq Baseline			
9-Nov-15	10:55	Sunny	55.9	57.5	46.2		55.9 Measured ≤ Baseline			
18-Nov-15	10:25	Sunny	63.3	60.5	49	61.3	59			
23-Nov-15	10:30	Sunny	63	59.7	46.4		58.1			
30-Nov-15	10:24	Sunny	61.8	55.9	44.4		52.2			

Location NM3A - Tai Kek Tsuen								
					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}	
2-Nov-15	9:00	Cloudy	63.9	57.1	52		63.9 Measured \leq Baseline	
9-Nov-15	9:15	Sunny	66.6	67.1	54		66.6 Measured \leq Baseline	
18-Nov-15	8:56	Sunny	62.1	58.8	53.6	66.7	62.1 Measured \leq Baseline	
23-Nov-15	8:57	Sunny	60.5	59.7	53		$60.5 \text{ Measured} \leq \text{Baseline}$	
30-Nov-15	9:00	Sunny	63.6	62.6	55.2		63.6 Measured \leq Baseline	

App F - Noise Cinotech



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 Qu	antities of Inc	ert C&D Mat	erials Genera	ted Monthly		Actual	Quantities of	C&D Wastes	s Generated I	Monthly
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	2.229	-	-	-	0.090	2.139	-	-	231	-	-	0.030
Oct '15	1.834	-	-	-	0.122	1.712	-	-	220	-	-	0.027
Nov '15	1.159	-	-	-	0.115	1.044	-	7.74	250	-	-	0.017
Dec '15	-	-	-	-	-	-	-	-	-	-	-	-
Total	23.028				1.117	21.911		256.330	2613.000			0.264

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	151103	
Date	3 November 2015 (Tuesday)	
Time	9:00 -11:30	

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 • 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 G - Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	
	Part H – Remark	, , , , , , , , , , , , , , , , , , ,
	• Follow-up on previous audit section (Ref. No.:151027), all the environmental deficiency was improved/rectified by the Contractor.	

	Name	///Signature	Date
Recorded by	Benjamin Wong	1/ Etago	3 November 2015
Checked by	Dr. Priscilla Choy	MI	3 November 2015

CINOTECH MA13003 151103_audit

Inspection Information

Checklist Reference Number	151111
Date	11 November 2015 (Wednesday)
Time	9:00 -11:30

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

Ref. No.	Remarks/Observations	Related Item
	Part B - Water Quality	
151111-001	Water in sedimentation tank in Area B was observed muddy. The Contractor was reminded to remove the sediment from the tank regularly.	B 6iii
	Part C - Tree Management Protection / Landscape & Visual Impact	
	No environmental deficiency was identified during the site inspection.	
	Part D – Air Quality	
151111-R02	The Contractor was reminded to cover the stockpile in the Area A to suppress	D7
	dust generation.	
151111-R03	The Contractor was reminded to provide water spray to the haul road in Area C & D to suppress dust generation.	D6
	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 section (Ref. No.:151103), no major environmental deficiency was identified during the site inspection.	
	 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 section (Ref. No.:151103), no major environmental 	

	Name	// Signature	Date
Recorded by	Benjamin Wong	Blue	11 November 2015
Checked by	Dr. Priscilla Choy	1157	11 November 2015

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Inspection Information

Checklist Reference Number	151116
Date	16 November 2015 (Monday)
Time	13:30 – 16:00

Re	ef. No.	Non-Compliance	Related Item No.
	-	None identified	

Ref. No.	Remarks/Observations	Related Item No.
151116-R02	 Part B - Water Quality The Contractor was reminded to remove the accumulated sediment from the sedimentation tank in Area B. 	B 6iii
151116-001	Part C - Tree Management Protection / Landscape & Visual Impact Construction material was observed accumulated in the tree protection zone located near the entrance in the Area A. The Contractor was reminded to remove the construction material from the tree protection zone.	C 1
151116-R03	 Part D - Air Quality Frequent water spray should be provided to the haul road in Area C to increase the efficiency of dust suppression. 	D6
	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 section (Ref. No.:151111), the item 151111-O01 was remarked as 151116-R02. 	•

	Name	Signature	Date
Recorded by	Benjamin Wong	Wrenger	16 November 2015
Checked by	Dr. Priscilla Choy	MIL	16 November 2015

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Inspection Information

Checklist Reference Number	151124
Date	24 November 2015 (Tuesday)
Time	9:00 – 11:30

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	
151124-001	The Contractor was reminded to remove the construction materials from the tree protection zone for carefully protecting the tree.	C1
	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.	
E	Part H – Remark	
	• Follow-up on previous audit section (Ref. No.:151116), the item 151116-O01 was remarked as 151124-O01.	

	Name	/a Signature	Date
Recorded by	Benjamin Wong	Mes	24 November 2015
Checked by	Dr. Priscilla Choy	I WI	24 November 2015

CINOTECH MA13003 151124_audit

APPENDIX I SUMMARY OF EXCEEDANCE

APPENIDX I – SUMMARY OF EXCEEDANCE

Reporting Month: November 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
			1		

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