CONTRACT NO: CV/2012/07

DEVELOPMENT AT ANDERSON ROAD - FOOTBRIDGE D AND ASSOCIATED WORKS AREA

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT -JANUARY 2016 -

CLIENTS:

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DATE:

10 February 2016



Ref.: OAPANDSNEM00_0_1648L.16.docx

18 February 2016

By Post and Fax: 2407 8382

Engineer's Representative Ove Arup & Partners Level 5, Festival Walk 80 Tat Chee Avenue Kowloon Tong, Kowloon Hong Kong

Attention: Mr. Dennis Leung

Dear Sir/Madam,

Re: Contract No. CV/2012/07

Development at Anderson Road Footbridge D and Associated Works Area Monthly EM&A Report for January 2016

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for January 2016 received by e-mail on 17 February 2016 for our review and comment.

We are pleased to inform you that we have no adverse comment on the captioned report.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,

David Yeung

Managing Director

c.c. Lam

Attn.: Mr. Derek Lo

LPWJV Attn.: Mr. Tak-Leung Lo

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – January 2016 of "Development at Anderson Road – Footbridge D and Associated Works Area" (Hereafter called "this Project"). The construction works of this project was commenced on 20 July 2013. This is the 31st month of EM&A report presenting the environmental monitoring findings and information recorded during the period of 1 January 2016 to 31 January 2016. The cut-off date of reporting is at the end of each reporting month.

Construction Activities for the Reported Period

- Construction Tower C (Portion C2)
- Construction of Pier D (Portion C2)
- Construction of tower B footing (Portion C2)

Noise Monitoring

ii. Noise monitoring during daytime was conducted at the stations NM1 and NM2 on a weekly basis in the reporting month. No exceedance was recorded in the reporting month.

Air Quality Monitoring

iii. Air quality monitoring has been conducted at station AQM1. No exceedance was recorded in the reporting month.

Complaints, Notifications of Summons and Successful Prosecutions

i. No complaint and notifications of summons or successful prosecutions were recorded in this reporting month.

Site Inspections and Audit

ii. The Environmental Team (ET) conducted weekly site inspections for Contract no. CV/2012/07 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.

Future Key Issues

- iii. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:
 - Construction Tower C (Portion C2)
 - Construction of Pier D (Portion C3)
 - Construction of tower B footing (Portion C2)

Reporting Change

vii. There are no reporting changes in this Reporting Period.

1. Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Development of Anderson Road.
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 1.4 of EM&A Manual and "Environmental Monitoring and Audit Requirements" under Particular Specification Section 25.
- 1.1.3. The construction works of this project was commenced on 20 July 2013. This report documents the finding of EM&A works for this Project and during the period of 1 January 2016 to 31 January 2016. The cut-off date of reporting is at the end of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5 Monitoring Results** summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent

activities of the concurrent Projects.

Section 8 Site Inspection – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 9 Complaints, Notification of summons and Prosecution – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 10 Conclusion

2. Project Background

2.1 Background

- 2.1.1. The main objective of the project "Development at Anderson Road Footbridge D and Associated Works Area" (Hereafter called "this Project") is to construct a footbridge, Footbridge D, and associated lift towers across Shun On Road between the existing Shun Tin Estate and the future development platform.
- 2.1.2. For this project, Tin Wan House (NM1) and Ning Po No.2 College (NM2 and AQM1) are the designated monitoring station during the construction period. Owing to this contract is under the master project and on the other hand, the construction area is vicinity to the monitoring station (On Yat House) ID2 and (Sau Nga House) ID3 of the master project, so that the baseline noise and air quality monitoring will adopt the baseline data from those stations instead of conducting baseline monitoring. All the baseline data are referred to the baseline report from the public domain web site (www.anderson-road.com/main.htm).
- 2.1.3. The construction works of this project was commenced on 20 July 2013. During the construction phase of the project, air quality (dust) and noise impacts from the development site itself and the adjacent Anderson Road Quarry and other nearby construction sites are identified as the major environmental issues of concern. Besides, waste management is also identified in the EIA study as another environmental issue during the construction phase of the project that requires mitigation measures.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly near Shun Tin Estate and Ning Po No.2 College, as shown in *Figure 2.1*.
- 2.2.2. The scope of the Project comprises:
 - Construction of footbridge and associated lift towers between Shun On Road and future platform at +152mPD and across Shun On Road. In Conjunction with these footbridge works are the associated furniture, drainage system, irrigation system and traffic signs.
 - Construction of drainage system for diversion of an existing stream on the slope adjoining Footbridge D.
 - Site formation and associated slope works for Footbridge D adjacent to Shun On Road.

2.3 Project Organization and Contact Personnel

- 2.3.1. Civil Engineering and Development Department is the overall project controllers for this project. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.3.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.1*.

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Ove Arup	Engineer	Chief Resident Engineer	Dennis Leung	2407 0300	2407 8382
		Resident Engineer	Heidi Fung	3656 3000	3656 1000
Lam-Po Wing Joint Venture	Contractor	Project Manager	K.C. Wong	2318 0281	3171 7222
	Contract no. CV/2012/07	Site Agent	T.L. Lo	2318 0281	
		Safety Officer	K.W. Lau	2318 0281	
		Environment al Officer	K.I. lp	2318 0281	
Ramboll	Independent	Independent	Mr. David	3465 2888	3465
Environ Hong	Environment	Environment	Yeung		2899
Kong Limited	al Checker (IEC)	al Checker (IEC)			
Lam	Environment	Environment	Mr. Derek Lo	2882 3939	2882
Environmenta	al Team (ET)	al Team			3331
I Services Limited		Leader (ETL)			



2.3.3. For Contract no. CV/2012/07, the principal work activities in this reporting month included:

- Construction Tower C (Portion C2)
- Construction of Pier D (Portion C2)
- Construction of tower B footing (Portion C2)
- 2.3.4. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:
 - Construction Tower C (Portion C2)
 - Construction of Pier D (Portion C3)
 - Construction of tower B footing (Portion C2)

3. Status of Regulatory Compliance

- 3.1 Status of Environmental Licensing and Permitting under the Project
- 3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	WT00015447-20 13	27 March 2013	31 March 2018	Valid
Billing Account under Waste Disposal Ordinance	7017083	15 March 2013	N/A	Valid
The Air Pollution Control (Construction Dust) Regulation	355705	14 February 2013	N/A	Valid
Form A – Application for Water Pollution Control Licence	355706	14 February 2013	N/A	Valid
Application for Registration as a Chemical Waste Producer	WPN5213-292-L 2825-01	28 November 2013	N/A	Valid

4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring has been undertaken at the designated locations Tin Wan House (NM1) and Ning Po No.2 College (NM2). The detailed information of monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Stations

Station ID	Monitoring Location
NM1	G/F of Tin Wan House
NM2	G/F of Ning Po No.2 College

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.4. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

4.1.5. As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound

pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.1.6. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring has been conducted at the designated location Ning Po No.2 College (AQM1). The air monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Air Monitoring Station

Station ID	Monitoring Location
AQM1	Roof Top of Ning Po No.2 College

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m³ per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;

am

Lam Environmental Services Limited

- capable of providing a minimum exposed area of 406 cm²;
- flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- equipped with a shelter to protect the filter and sampler;
- incorporated with an electronic mass flow rate controller or other equivalent devices;
- equipped with a flow recorder for continuous monitoring;
- provided with a peaked roof inlet;
- incorporated with a manometer;
- able to hold and seal the filter paper to the sampler housing at horizontal position;
- easily changeable filter; and
- capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The calibration data shall be properly documented for future reference by concerned parties such as the IEC. All the data should be converted into standard temperature and pressure equivalents.

LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. If a site laboratory is set up or a non-HOKLAS accredited laboratory is retained for analysis, laboratory equipment shall be provided by the ER in consultation with the IC(E). Measurement performed by the laboratory shall be demonstrated to the satisfaction of the ER and the IC(E). The IC(E) shall conduct regular audit to the measurement performed by the laboratory to ensure the accuracy of measurement results. The ET leader shall provide the ER with one copy of the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), and Appendix B for his reference.
- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months prior to disposal.

5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the sensitive receivers which would be mostly affected. Overall layout showing the work area, latest status of work commencement and monitoring stations are shown in *Figure 2.1* and *Figure 4.1*.
- 5.0.2. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

5.1.1. The noise monitoring results for Contract no. CV/2012/07 are summarized in *Table 5.1* below:

Table 5.1 Summary of Noise Monitoring Results at NM1 and NM2

Date	Time	Location	Leq (dB)	Limit Level
6-Jan-16	14:18	NM1	66.9	75
0-Jan-16	13:20	NM2	64.8	70
12-Jan-16	14:18	NM1	65.8	75
12-Jan-16	13:11	NM2	64.9	70
18-Jan-16	14:09	NM1	65.6	75
10-Jan-10	15:13	NM2	64.6	70
20 Jan 16	13:20	NM1	66.1	75
29-Jan-16	14:31	NM2	65.0	70
Limit Level			65 / 70 /75*	

Note:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- 5.1.2. Day time period noise monitoring was conducted at the Tin Wan House (NM1) and Ning Po No.2 College (NM2).
- 5.1.3. Noise monitoring results measured in this reporting period are reviewed and summarized. No exceedance was recorded in reporting month. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2*.

5.2 Air Monitoring Results

5.2.1. The air monitoring results are summarized in *Table 5.2* and *Table 5.3* below. No exceedance was recorded in the reporting month.

Table 5.2 Summary of Air Monitoring Results at AQM1 - 24 hr TSP Monitoring



Date	Time	TSP Level, (μg /m³)
5-Jan-16	8:00	54
11-Jan-16	8:00	40
16-Jan-16	8:00	50
22-Jan-16	8:00	19
28-Jan-16	8:00	19
Actio	on Level	200
Limi	t Level:	260

Table 5.3 Summary of Air Monitoring Results at AQM1 - 1 hr TSP Monitoring

Date Time		TSP Level, (μg /m³)
2-Jan-15	9:00	63
2-Jan-15	10:10	85
2-Jan-15	13:00	29
6-Jan-16	13:00	46
6-Jan-16	14:06	32
6-Jan-16	15:21	38
12-Jan-16	13:20	52
12-Jan-16	14:30	171
12-Jan-16	15:40	176
18-Jan-16	13:00	49
18-Jan-16	14:05	49
18-Jan-16	15:20	63
23-Jan-16	8:15	68
23-Jan-16	9:30	71
23-Jan-16	10:50	81
29-Jan-16	8:20	48
29-Jan-16	9:30	59
29-Jan-16	10:35	58
Action	n Level	197
Limit	Level:	500

5.2.2. Air monitoring results measured in this reporting period are reviewed and summarized. No exceedance was recorded in reporting month. Details of air monitoring results can be referred

in Appendix 5.3.

5.3 Waste Monitoring Results

5.3.1. Inert and non-inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.4.*

Table 5.4 Details of Waste Disposal for Contract no. CV/2012/07

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0.2600	11.70544	TKO137
Inert C&D materials recycled, m ³	0	0	N/A
Non-inert C&D materials disposed, m³	0	0	N/A
Non-inert C&D materials recycled, kg	0	34.54	N/A
Chemical waste disposed, kg	0	0	N/A
General refuse,m ³	0.00292	0.06602	NENT

6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in <u>Appendix 6.1.</u>

6.1 Noise Monitoring

6.1.1. No exceedance was recorded in the reporting month.

6.2 Air Monitoring

6.2.1. No exceedance was recorded in the TSP monitoring in the reporting month.

6.3 Review of the Reasons for and the Implications of Non-compliance

6.3.1. There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 7.

6.4 Summary of action taken in the event of and follow-up on non-compliance

6.4.1. There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

7. Environmental Site Audit

7.0.1. According to EM&A Manual stipulation, the regular weekly site inspections on 5, 12, 19 and 26 January 2016 were carried out by ET, IEC, the Contractor and ARUP for Contracts no. CV/2012/07 to ensure the environmental performance. Observations and findings are summarized in *Table 7.1*.

Table 7.1 Summary of Environmental Inspections for Contract no. CV/2012/07

Date	Observations	Follow-Up
5 - Jan - 2016	Obs.1:Stagnant water should be pumped to	The findings were rectified
	avoid directed to public road (Portion C3)	before inspection on 12
	Obs.2: Sediment tank at C2 should be	January 2016
	maintained properly.	
	Obs.3:Debris in the u-channel should be	
	cleared regularly (C3)	
12 - Jan - 2016	Obs.1: A NRMM (excavator) was found	The finding observation 1
	operated within the site without proper label.	was rectified before
	Contractor was reminded to provide proper	inspection on 19 January
	label to all NRMM	2016
	Obs.2: Housekeeping should be provided	The findings observation 2
	regularly at Pier D	was rectified before
		inspection on 26 January
		2016
19 - Jan - 2016	Obs.1: Temporary plastic board should be	The findings were improved
	installed on water barrier as temporary hording	before inspection on 26
	so as to prevent smoke from excavator	January 2016
	affecting public (Portion C3)	
	Obs.2: Stagnant water was observed,	
	contractor was reminded to clean more	
	frequently.(Portion A)	
26 - Jan - 2016	Obs.1: Contractor was reminded to store the	The findings were rectified
	chemical in drip tray(Portion C1)	before inspection on 2
	Obs.2: Contractor was reminded to put the	February 2016
	compressor in drip tray.(Portion C2)	
	Obs.3: Contractor was reminded to improve	
	the house keeping (Portion C2)	

8. Complaints, Notification of Summons and Prosecution

- 8.0.1. No complaint and notification of summons or successful prosecutions were recorded in this reporting month.
- 8.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 8.1*.
- 8.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 8.1* and *Table 8.2* respectively.

Table 8.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
January 2016	0
Project-to-Date	1

Table 8.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Waste	-	0	0
Total	-	0	0



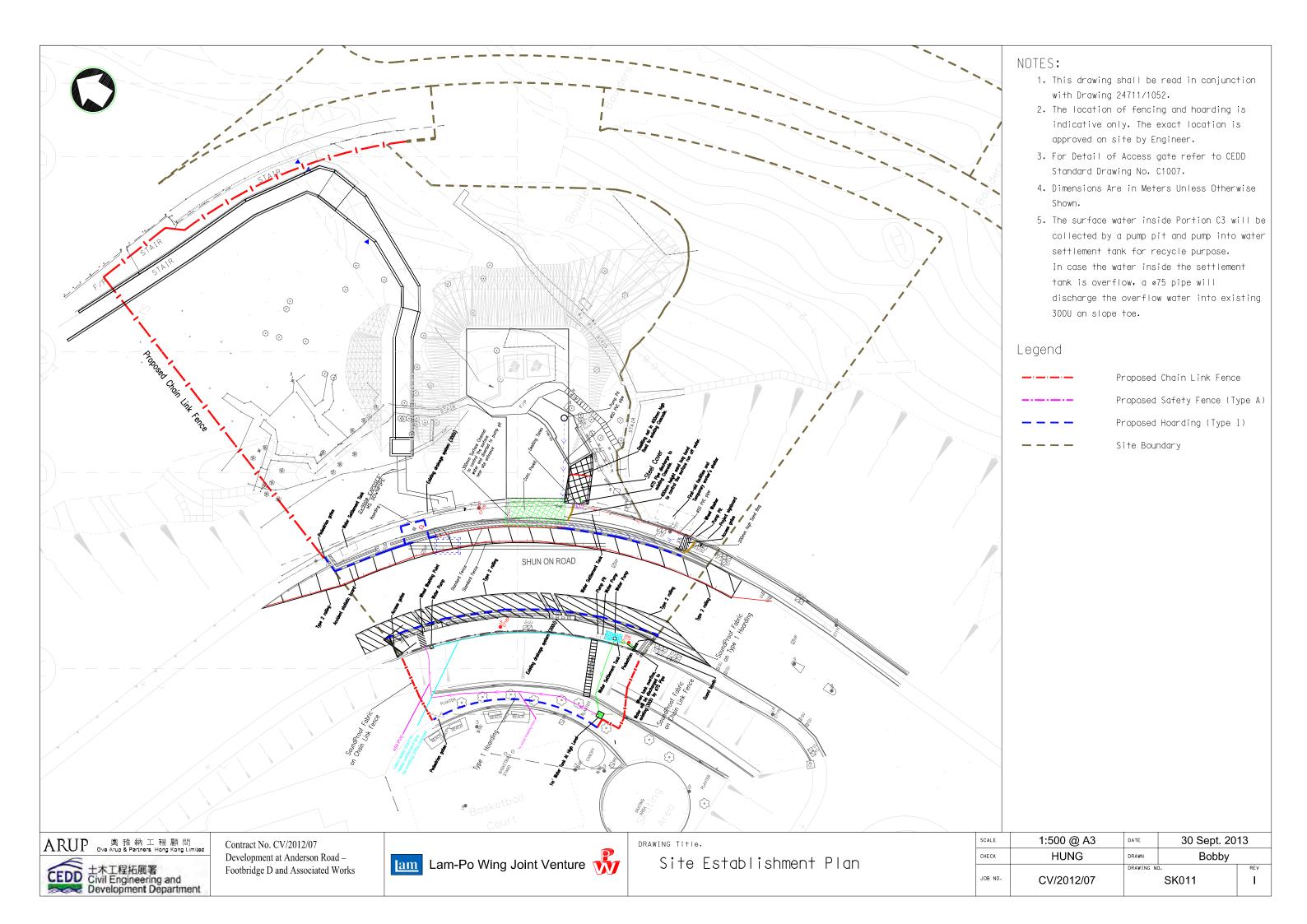
9. Conclusion

9.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

- 9.0.2. No construction air and noise monitoring results that triggered the Limit Level and Action level was recorded. No complaint of air and noise were received by the ARUP and the contractor. Furthermore, no notification of summons or successful prosecution was received in this reporting month.
- 9.0.3. Construction noise should be a key environmental impact during the works. The noise mitigation measures such as use of quiet plants and installation of temporary noise barrier at the construction noise predominate area should be fully implemented as accordance with the EM&A requirement. Moreover, breaking works should be the potential construction dust impact since the construction site located nearby residential area of Shun Tin Estate. It is reminded that mitigation measures for dust should be properly implemented.

Figure 2.1

Project Layout



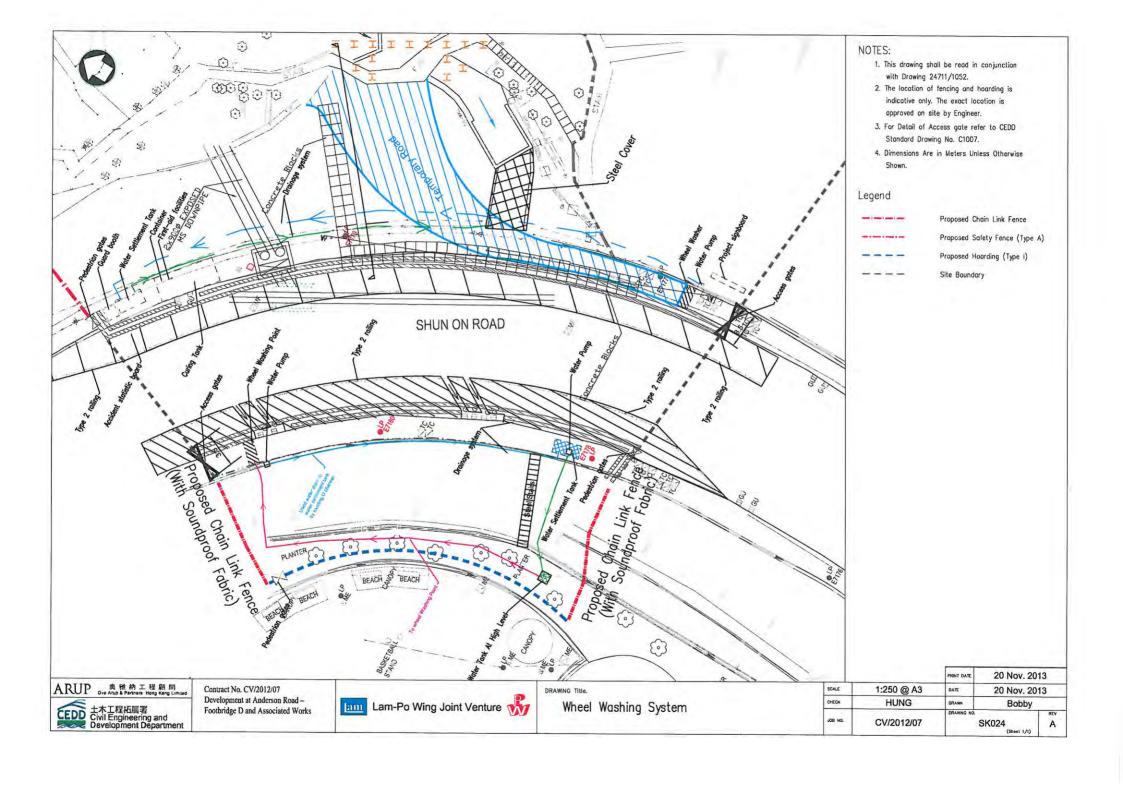


Figure 2.2

Project Organization Chart



Project Organization Chart

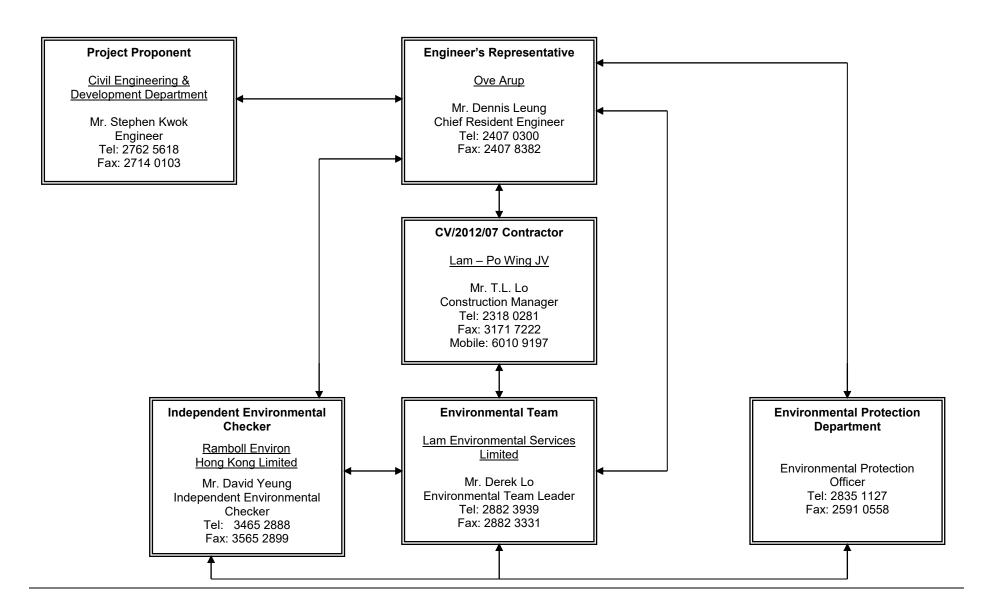
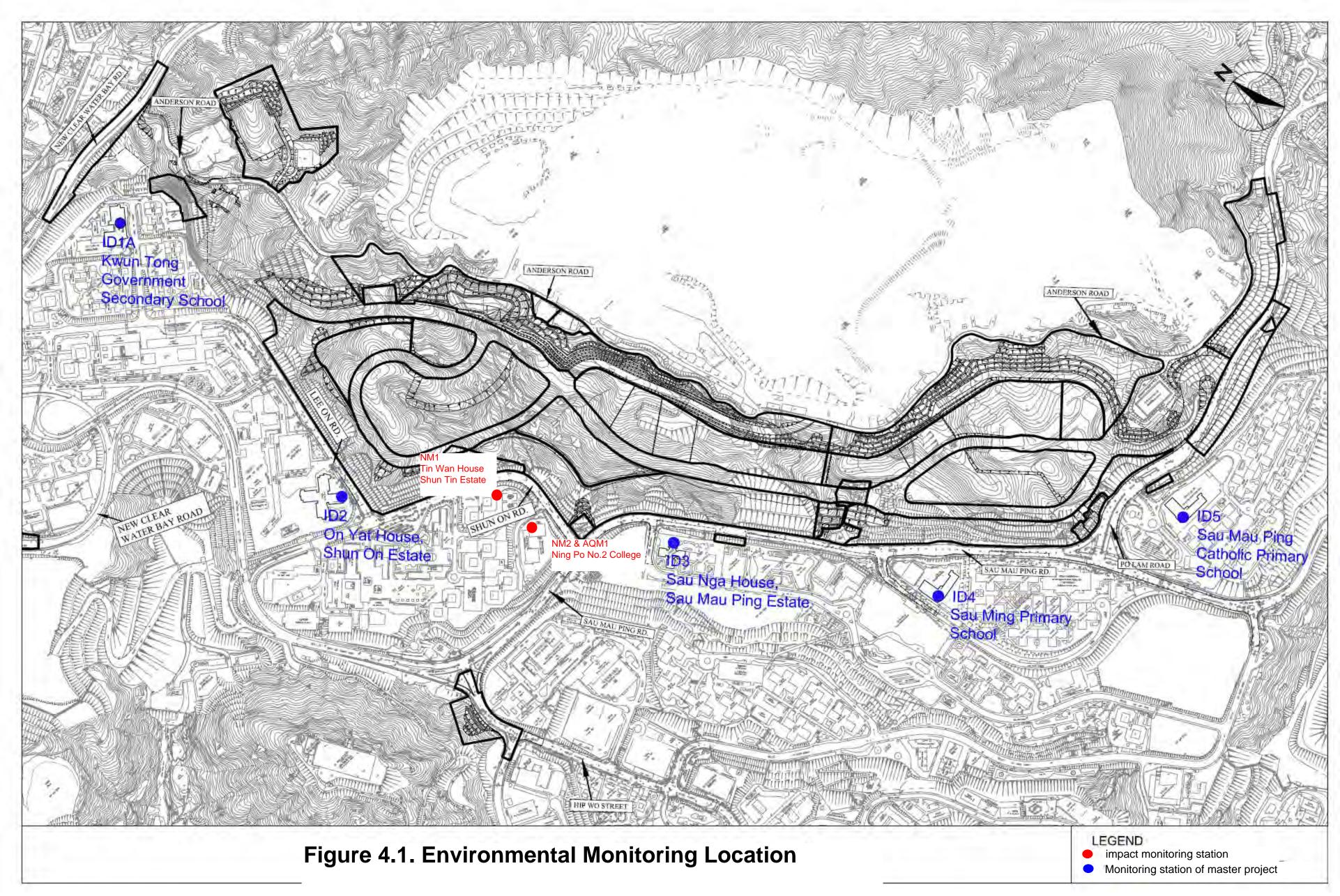


Figure 4.1

Locations of Environmental Monitoring Stations



Appendix 3.1

Environmental Mitigation Implementation Schedule



Environmental Mitigation Implementation Schedule

Implementation Schedule for Construction Dust Control

EIA Ref.	EM&A Log Ref.	Log Ref. cc	Location (duration/ completion of measures)	Funding Agent	Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines
						D	С	
S2.7	S1, Site Practice • Mean vehicle speed of haulage trucks at 10 km/hr. • Twice daily watering of all open site areas. • Regular watering (once every 1 hour) of all site roads and access roads with frequent truck movement. • Tarpaulin covering of all dusty vehicle loads transported to, form and between site locations. • Establishment and use of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary. • Suitable side and tailboards on haulage vehicles. • Watering of temporary stockpiles. Blasting • Use of select aggregate and fines to stem the charge with drill holes and watering of blast face. • Use of vaccum extraction drilling methods. • Carefully sequenced blasting. Crushing • Fabric filters installed for the crushing plant. • Water sprays at all fixed loading and unloading points (at the crusher and conveyor belts). • The loading point at the crusher is enclosed with dust curtains are used for controlling dust. • When transferring materials from conveyor belt or crusher to the dump trucks, chutes or dust curtains are used for controlling dust. • Cover the conveyor belts with steel roof and canvas sides.	Nean vehicle speed of haulage trucks at 10 km/hr. Twice daily watering of all open site areas. Regular watering (once every 1 hour) of all site roads and access roads with frequent truck movement. Tarpaulin covering of all dusty vehicle loads transported to, form and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary.	sites (late 2007 to	CEDD	Lam – Po Wing JV	√	√	TM on EIA Process, APCO, Air Pollution Control (Construction Dust) Regulation
		Use of select aggregate and fines to stem the charge with drill holes and watering of blast face. Use of vaccum extraction drilling methods.						

^{*} All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction

Implementation Schedule for Construction Noise Control

EIA Ref.	ef. Log Ref. complete	completion of	Funding Agent	Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines	
			measures)			D	С	
\$3.7	\$1, \$3.7	Site Formation Silenced powered mechanical equipment (PME) for most equipment5 (including drill rig, backhoe, dump truck, breaker and crane) and the decrease of percentage on time usage of drill rig among the Central Area form 50% to 40% is prosed. Temporary movable noise barrier shall be used to shield the noise emanating from the drilling rig in order to provide adequate shielding for the affected NSRs.	All Construction sites (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, NCO, TM on Noise from Construction Work other than Percussive Pilling, ProPECC Note PN2/93

^{*}All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction



Implementation Schedule for Water Quality Control

EIA Ref.	EM&A Log Ref.	Ref.	Location (duration/ completion of measures)	Funding Agent	Agent Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines
						D	С	
S6.4	S1	Construction Phase All active working areas should be bounded to retain storm water with sufficient retention time to ensure that suspended solids are not discharged from the site in concentrations above those specified in the TM for the Victor Harbour (Phase I) WCZ. All fuel storage areas should be bounded with drainage directed to an oil interceptor. Separate treatment facilities may be required for effluent from site offices, toilets (unless chemical toilets are used) and canteens. Discharged wastewater from the construction sites to surface water and /or public drainage systems should be controlled through licensing. Discharges should follow fully the terms and conditions in the licences. Relevant practice for dealing with various typr of construction discharges provided in EPD's ProPECC Note 1/94 should be adopted.	All Construction sites (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, WPCO, ProPECC Note PN 1/94

^{*} All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction



Implementation Schedule for Construction Waste Management

EIA Ref.	EM&A Log Ref.	Log Ref.	Location (duration/ completion of measures)	Funding Agent	Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines
						D	С	
S8.4	S1,S4	Different types of wastes should be segregated, stored, transported and disposed of proper practice of waste management. Sorting of wastes should be done on-site. Different types of wastes should be segregated and stored in different stockpiles, containers or skips to enhance recycling of materials and proper disposal of wastes. Excavated spoil should be used as much as possible to minimize off-site fill material requirements and disposal of spoil. During road transportation of excavated spoil, vehicles should be covered to avoid dust impact. Wheel washing facilities should be installed at all site exits together with regular qatering of the site access roads. Chemical waste should be recycled on-site or removed by licenced companies. It should be handled according to the Code of practice on the packaging, Labelling and Storage of Chemical Wastes. When off-site disposal is required, it should be collected and delivered by licenced contractors to Tsing Yi Chemical Waste Treatment Facility and disposed of in accordance with the Chemical Waste (General) Regulation. Necessary mitigation measures should be adopted to prevent the uncontrolled disposal of chemical and hazardous waste into air, soil, surface waters and ground waters.	All Construction sites (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, WDO, DGO, Waste Disposal (Chemical Waste) (General) Regulation



Contract No. CV/2012/07 Development at Anderson Road – Footbridge D and Associated Works Area

Waste Storage		
Chemical material storage areas should be bounded, constructed of impervious materials, and have the capacity to contain 120 percent of the total volume of the containers. Indoor storage areas must have sufficient ventilation to prevent the build-up of fumes, and must be capable of evacuating the space in the event of an accidental release. Outdoor storage areas must be covered with a canopy or contain provisions for the safe removal of rainwater. In both cases, storage areas must not be connected to the foul or stormwater sewer system.		
Dangerous materials as defined under the DGO, including fuel, oil and lubricants, should be stored and properly labeled on site in accordance with the requirements in the DGO. If transportation of hazardous materials is necessary, hazardous materials, chemical wastes and fuel should be packed or stored in containers or vessels of suitable design and construction to prevent leakage, spillage or escape.		
Human waste should be discharged into septic tanks provided by the contractors and removed regularly by a hygiene services company. Refuse containers such as open skips should be provided at every work site for use by the workforce; On-site refuse collection points must also be provided.		

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^{**} D=Design, C=Construction

Appendix 4.1

Action and Limit Level



Lam Environmental Services Limited

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 db(A) ^{Note 1}

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Level in μ g/m ³		24-hour TSP Level in μ g/m ³		
	Action Level	Limit Level	Action Level	Limit Level	
AQM1	197	500	200	260	

Appendix 4.2

Copies of Calibration Certificates



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



CERTIFICATE OF CALIBRATION

Certificate No.:

15CA0312 03

Page

of

2

Item tested

Description: Manufacturer: Type/Model No.: Sound Level Meter (Type 1) CESVA Instruments s.l.

Microphone **CESVA** C-130 12624

Serial/Equipment No.: Adaptors used:

SC-20e T217501

Item submitted by

Customer Name: Address of Customer: Pilot Testing Limited

Request No .:

Date of receipt:

12-Mar-2015

Date of test:

13-Mar-2015

Reference equipment used in the calibration

Description: Multi function sound calibrator Signal generator Signal generator

Model: B&K 4226 DS 360 DS 360

Serial No. 2288444 33873 61227

Expiry Date: 20-Jun-2015 09-Apr-2015 09-Apr-2015

Traceable to: CIGISMEC CEPREI CEPREI

Ambient conditions

Temperature: Relative humidity: Air pressure:

21 ± 1 °C 60 ± 10 % 1010 ± 5 hPa

Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580; Part 1: 1997 1, 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.

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 Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

13-Mar-2015

Company Chop:

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

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



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 15CA0312 03 Page 2 of 2

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	A	Pass	0.3	
200,80	C	Pass	0.8	2.1
	Lin	N/A	N/A	
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	N/A	N/A	
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	N/A	N/A	
	Repeated at frequency of 100 Hz	N/A	N/A	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	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	

2, Acoustic tests

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	Weighting A at 125 Hz	Pass	0.3	
and the second	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

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.

1

Calibrated by: / Fung Chi Yip

Checked by:

Lam Tze Wai

Date:

13-Mar-2015

Date:

13-Mar-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.

End

Soils & Materials Engineering Co., Ltd.

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



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Test Data for Sound Level Meter Page 1 of 5

Sound level meter type: SC-20e Serial No. T217501 Date 13-Mar-2015

Microphone type: C-130 Serial No. 12624
Report: 15CA0312 03

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 17.3 dB Noise level in C weighting 21.6 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)

Reference/Expected level	Actual	Actual level		Devia	tion
Neierence/Expected lever	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
125.0	125.0	125.0	0.7	0.0	0.0
126.0	126.0	126.0	0.7	0.0	0.0
127.0	127.0	127.0	0.7	0.0	0.0
128.0	127.9	127.9	0.7	-0.1	-0.1
129.0	128.9	128.9	0.7	-0.1	-0.1
130.0	129.9	129.9	0.7	-0.1	-0.1
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	53.9	53.9	0.7	-0.1	-0.1
49.0	48.9	48.9	0.7	-0.1	-0.1
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	38.9	38.9	0.7	-0.1	-0.1
34.0	33.9	33.9	0.7	-0.1	-0.1



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Test Data for Sound Level Meter

Page 2 of 5

Sound level me	eter type:	SC-20e		Serial No.	T217501	Date	13-Mar-2015
Microphone	type:	C-130		Serial No.	12624		
						Repo	ort: 15CA0312 03
33.0		33.0	33.0	0.7		0.0	0.0
32.0		32.1	32.1	0.7		0.1	0.1
31.0		31.1	31.1	0.7		0.1	0.1
30.0		30.1	30.1	0.7		0.1	0.1

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
30-130	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
dB	dB	dB	+/- dB	dB
20.120	32.0	32.1	0.7	0.1
30-130	128.0	127.9	0.7	-0.1

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	Tolerar	nce(dB)	Deviation
Hz	dB	dB	dB	+	4	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.4	1.5	1.5	-0.2
63.1	94.0	67.8	67.7	1.5	1.5	-0.1
125.9	94.0	77.9	77.8	1.0	1.0	-0.1
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	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.0	1.0	1.0	0.0
7943.0	94.0	92.9	92.8	1.5	3.0	-0.1
12590.0	94.0	89.7	87.8	3.0	6.0	-1.9
Frequency weigh	ting C:					
Frequency	Ref. level	Expected level	Actual level	Tolerar	nce(dB)	Deviation
Hz	dB	dB	dB	+	6	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	90.9	1.5	1.5	-0.1
63.1	94.0	93.2	93.0	1.5	1.5	-0.2
125.9	94.0	93.8	93.7	1.0	1.0	-0.1
251.2	94.0	94.0	93.9	1.0	1.0	-0.1



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Test Data for Sound Level Meter

Page 3 of 5

Sound level me	eter type:	SC-20e		Serial No.	T21	7501	Date	13-Mar-2015
Microphone	type:	C-130		Serial No.	126	24	Report:	15CA0312 03
501.2	94.0	9	94.0	94.0	1.0	1.0	0.0	
1995.0	94.0	9	93.8	93.8	1.0	1.0	0.0	
3981.0	94.0	9	93.2	93.2	1.0	1.0	0.0	
7943.0	94.0	9	91.0	90.9	1.5	3.0	-0.1	
12590.0	94.0	8	37.8	85.8	3.0	6.0	-2.0	

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)

Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	164	dB
86.0	85.0	85.0	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)

******	the digital to continuada.	(Toight in in institut					
	Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation	
	dB	dB	dB	+	-	dB	
	86.0	81.9	81.9	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)

1 ositive polarities.	(vicigitally o, set the ger	icrator orginar to on	igio, Lopinax)	
Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
89.0	89.0	88.5	2.0	-0.5
Negative polarities:				
Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
89.0	89.0	88.5	2.0	-0.5

RMS ACCURACY TEST

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

Test freq	uency:	2000 Hz			
Amplitud	e:	2 dB below the up	per limit of the primar	y indicator ra	inge.
Burst rep	etition frequency:	40 Hz			
Tone bur	st signal:	11 cycles of a sine	e wave of frequency 2	000 Hz.	(Set to INT)
	Ref. Level	Expected level	Tone burst signal	Tolerance	e Dev

Ref. Level Expected level Tone burst signal Tolerance Deviation
Time wighting dB dB indication(dB) +/- dB dB
Slow 88.0+6.6 88.0 88.0 0.5 0.0



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Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

SC-20e

Serial No.

T217501

Date

13-Mar-2015

Microphone

type:

C-130

Serial No.

12624

Report: 15CA0312 03

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

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	100.0	100.0	99.9	1.0	-0.1	60s integ.
10000	90.0	90.0	89.9	1.0	-0.1	6min. integ

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

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 Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	88.0	58.0	58.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	88.0	68.0	68.0	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:

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
132.3	131.3	128.3	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

4000 Hz Test frequency: Integration time: 10 sec 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



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Test Data for Sound Level Meter

Page 5 of 5

Sound level me	eter type:	SC-20e		Serial No.	T217501	Date	13-Mar-2015
Microphone	type:	C-130		Serial No.	12624	2	
						Report:	15CA0312 03
137.1	136.1	1 9	96.1	96.1	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	Actual level	Tolerar	nce (dB)	Deviation
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	91.6	1.5	3.0	-1.3





G/F, 9/F, 12/F, 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

15CA1203 04-02

Page:

of

2

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Rion Co., Ltd. NC-73

Type/Model No.: Serial/Equipment No.: Adaptors used:

10707358

- 3

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer: Request No.:

Date of receipt:

03-Dec-2015

Date of test:

04-Dec-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature:

22 ± 1 °C 50 ± 10 %

Relative humidity: Air pressure:

1010 ± 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.

Huang Jian Mir Feng Jun Qi

Approved Signatory:

Date:

05-Dec-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.

Soils & Materials Engineering Co. Ltd

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



G/F, 9/F, 12/F, 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黄竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA1203 04-02

Page:

2

2

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 Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.05	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 = 0.002 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 = 992.8 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 = 0.3 %

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:

Fnd

Fung Chi Yip

Checked by:

Lam Tze Wa

Date: 04-Dec-2015

Date:

05-Dec-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.

Soils & Materials Engineering Co., Ltd.

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

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



Date

Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	: Ning P	o No.2 Co	llege			Calbrat	ion Date	: 30-Nov-15
ID :	:	AQM1				Calbrat	ion Due Date	: 30-Jan-16
CALIBRATION OF CO	NTINUOUS	S FLOW R	ECORDER					
			,	Ambient C	ondition			
Temperature, T _a		295	5	Kelvin	Pressure, P	a	,	1019 mmHg
			Orifice Tra	ansfer Star	ndard Inform	nation		
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc	-0.01209
Last Calibration Date)	30-Jun-1	5		(Нх	P _a / 101	13.3 x 298 /	$(T_a)^{1/2}$
Next Calibration Date	e	30-Jun-1	6		=	m _c x	$Q_{std} + b_c$	
				Calibration	n of TSP			
Calibration	Mar	nometer R	eading	C) _{std}	Continu	uous Flow	IC
Point	Н (inches of	water)	(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-axis
1	6.1	6.1	12.2	1.7	7656		50	50.3947
2	5.3	5.3	10.6	1.6	6462		43	43.3395
3	3.5	3.5	7.0	1.0	3389		33	33.2605
4	2.3	2.3	4.6	1.0	0865		25	25.1974
5	1.2	1.2	2.4	0.7	7865		15	15.1184
By Linear Regression c	of Y on X							
	Slope, m	=	34.8	859	Inte	ercept, b =	= -12	2.7524
Correlation (Coefficient*	=	0.99	969				
Calibratio	n Accepted	=	Yes/	\0 **				
* if Correlation Coefficie	≥nt < 0 990	check and	d recalibration	n again				
		, onoon an		r again.				
** Delete as appropriate	e.							
Remarks :								
Calibrated by	:	Kit Au				Checke	ed by	: Derek Lo
Data	: 3	0-Nov-15				Date		: 30-Nov-15



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

					METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3870	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.0
3	NA	NA	1.00	0.8760	7.9	5.0
4	NA	NA	1.00	0.8340	8.8	5.50
5	NA	NA	1.00	0.6860	12.7	8.0

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9692	0.7078 0.9944 1.1135 1.1683 1.4128	1.4042 1.9859 2.2203 2.3286 2.8084		0.9957 0.9915 0.9894 0.9882 0.9830	0.7179 1.0086 1.1294 1.1849 1.4330	0.8919 1.2613 1.4101 1.4790 1.7837
Qstd slo	ot (b) =	1.99175 -0.00041 0.99991		Qa slop intercep coeffici	t (b) =	1.24720 -0.00026 0.99991
y axis =	SQRT[H2O(P	a/760) (298/5	ra)]	y axis =	SQRT[H2O(T	Ca/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{ [SQRT H2O(Ta/Pa)] - b\}$

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month



Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works Area Environmental Monitoring Schedule January 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Dec	28-Dec 24 hr TSP	29-Dec 1hr TSP x 3	30-Dec		1-Jan	
		Noise		24111 101		1111 101 13
3-Jan			6-Jan	7-Jan	8-Jan	9-Jan
			1hr TSP x 3 Noise			
			140/36			
10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
	24 hr TSP	1hr TSP x 3				24 hr TSP
		Noise				
17-Jan	40.1	19-Jan	20-Jan	04.1	00.1	23-Jan
	18-Jan 1hr TSP x 3	19-Jan	20-Jan		22-Jan 24 hr TSP	1hr TSP x 3
	Noise					
24-Jan	25-Jan	26-Jan	27-Jan	28-Jan 24 hr TSP	29-Jan 1hr TSP x 3	30-Jan
					Noise	
31-Jan	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb

Noise Monitoring Station NM1: Tin Wan House NM2: Ning Po No. 2 College Air Monitoring Station AQM1: Ning Po No.2 College



Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works Area Tentative Environmental Monitoring Schedule February 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31-Jan	24 hr TSP	2-Feb 1hr TSP x 3 Noise	3-Feb			6-Feb 1hr TSP x 3
7-Feb	8-Feb	9-Feb	10-Feb		12-Feb 1hr TSP x 3 Noise	13-Feb
14-Feb	15-Feb		17-Feb 24 hr TSP	18-Feb 1hr TSP x 3 Noise		20-Feb 24 hr TSP
21-Feb		24 hr TSP	24-Feb 1hr TSP x 3 Noise	25-Feb	26-Feb	27-Feb
28-Feb	24 hr TSP	1-Mar 1hr TSP x 3 Noise	2-Mar	3-Mar	4-Mar	5-Mar

Noise Monitoring Station NM1: Tin Wan House NM2: Ning Po No. 2 College Air Monitoring Station AQM1: Ning Po No.2 College

Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Contract No. CV/2012/07

Development at Anderson Road -Footbridge D and Associated Works Area

CS_J2013-02_CV201207 LPWJV JOB NO:

CLIENT:

		Daytir	me(07:00-19:00)		
Date	Time	Location	Leq (dB)	L10 (dB)	L90 (dB)
6-Jan-16	14:18	NM1	66.9	70.0	63.0
0-Jan-10	13:20	NM2	64.8	69.0	61.0
12-Jan-16	14:18	NM1	65.8	69.0	60.0
12-Jan-10	13:11	NM2	64.9	69.0	60.0
18-Jan-16	14:09	NM1	65.6	69.0	61.0
10-Jan-10	15:13	NM2	64.6	68.0	60.0
29-Jan-16	13:20	NM1	66.1	70.0	62.0
29-Jaii-10	14:31	NM2	65.0	69.0	61.0

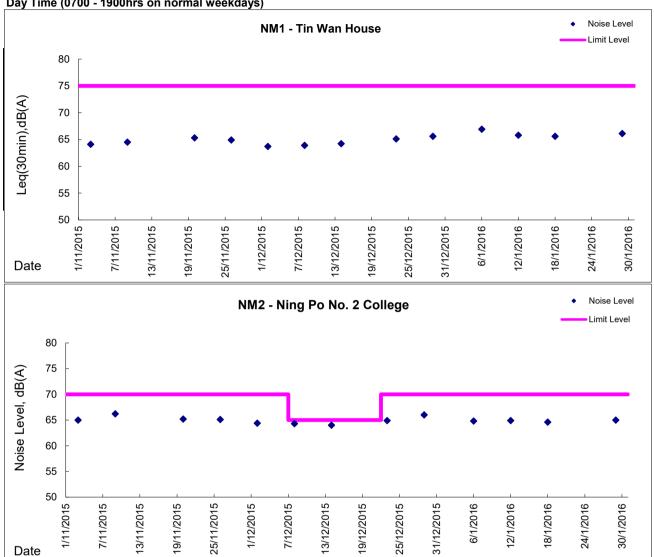
NM1 - Tin Wan House

NM2 - Ning Po No. 2 College



Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: AQM1-Ning Po No.2 College

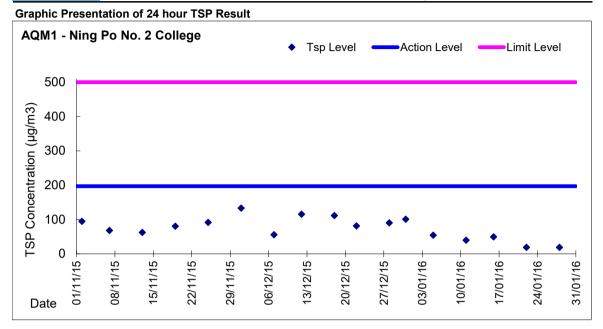
Report on 24-hour TSP monitoring Action Level (µg/m3) - 200 Limit Level (µg/m3) - 260

Date	Sampling Weather Filt		Filter	Filter Weight, g		Elapse Time, hr		Sampling	Flow	/ Rate, m³	/min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
5-Jan-16	8:00	Rainy	014309	2.8905	3.0044	4335.65	4359.65	24.00	1.45	1.45	1.45	2093	54
11-Jan-16	8:00	Rainy	014313	2.9132	2.9903	4362.65	4386.65	24.00	1.35	1.35	1.35	1947	40
16-Jan-16	8:00	Rainy	014318	2.8259	2.9223	4390.00	4414.00	24.00	1.35	1.35	1.35	1944	50
22-Jan-16	8:00	Fine	014314	2.8786	2.9157	4417.08	4441.08	24.00	1.36	1.37	1.36	1965	19
28-Jan-16	8:00	Fine	014592	2.8150	2.8511	4444.08	4468.08	24.00	1.35	1.35	1.35	1949	19

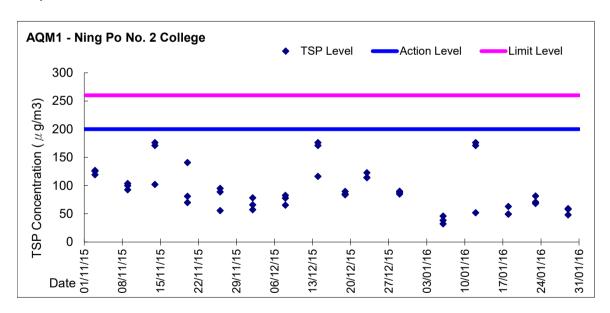
Report on 1-hour TSP monitoring Action Level (μg/m3) - 197 Limit Level (μg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weig	ht, g	Elapse Tim	e, hr	Sampling	Flow	/ Rate, m³	/min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, Q _{sf}	Average	Volume, m ³	µgm³
2-Jan-15	9:00	Cloudy	014306	2.8916	2.8967	4332.65	4333.65	1.00	1.35	1.35	1.35	81	63
2-Jan-15	10:10	Cloudy	014307	2.9026	2.9095	4333.65	4334.65	1.00	1.35	1.35	1.35	81	85
2-Jan-15	13:00	Cloudy	014308	2.8771	2.8795	4334.65	4335.65	1.00	1.38	1.38	1.38	83	29
6-Jan-16	13:00	Rainy	014310	2.8781	2.8818	4359.65	4360.65	1.00	1.35	1.35	1.35	81	46
6-Jan-16	14:06	Rainy	014311	2.8839	2.8865	4360.65	4361.65	1.00	1.35	1.35	1.35	81	32
6-Jan-16	15:21	Rainy	014312	2.8997	2.9028	4361.65	4362.65	1.00	1.35	1.35	1.35	81	38
12-Jan-16	13:20	Cloudy	014315	2.8296	2.8338	4387.00	4388.00	1.00	1.35	1.35	1.35	81	52
12-Jan-16	14:30	Cloudy	014316	2.8435	2.8487	4388.00	4389.00	1.00	1.35	1.35	1.35	81	171
12-Jan-16	15:40	Cloudy	014317	2.8420	2.8482	4389.00	4390.00	1.00	1.35	1.35	1.35	81	176
18-Jan-16	13:00	Cloudy	014319	2.8190	2.8230	4414.00	4415.00	1.00	1.36	1.36	1.36	81	49
18-Jan-16	14:05	Cloudy	014320	2.8332	2.8372	4415.00	4416.00	1.00	1.36	1.36	1.36	81	49
18-Jan-16	15:20	Cloudy	014321	2.8306	2.8357	4416.00	4417.00	1.00	1.36	1.36	1.36	81	63
23-Jan-16	8:15	Fine	014590	2.8226	2.8282	4441.08	4442.08	1.00	1.37	1.37	1.37	82	68
23-Jan-16	9:30	Fine	014587	2.8033	2.8091	4442.08	4443.08	1.00	1.37	1.37	1.37	82	71
23-Jan-16	10:50	Fine	014586	2.8284	2.8351	4443.08	4444.08	1.00	1.37	1.37	1.37	82	81
29-Jan-16	8:20	Fine	014591	2.8219	2.8258	4468.08	4469.08	1.00	1.35	1.35	1.35	81	48
29-Jan-16	9:30	Fine	014589	2.8250	2.8298	4469.08	4470.08	1.00	1.35	1.35	1.35	81	59
29-Jan-16	10:35	Fine	014588	2.8125	2.8172	4470.08	4471.08	1.00	1.35	1.35	1.35	81	58





Graphic Presentation of 1 hour TSP Result



Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

EVENT		A	CTION	
	ET	IC(E)	ER	CONTRACTOR
Exceedance for Action Level	Notify IC(E) and Contractor; Carry out investigation; Report the results of investigation to IC(E) and Contractor; Discuss with Contractor and formulate remedial measures;; Increase monitoring frequency to check mitigation effectiveness.	Review the analysed results submitted by ET; Review the proposed remedial measures by the Contractor and advise ER accordingly; Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IC(E); Implement noise mitigation proposals.
Exceedance for Limited Level	1. Notify IC(E), ER, EPD and Contractor; 2. Identify sources; 3. Repeat measurements to confirm finding; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IC(E), ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct Contractor to stop that portion of work until the exceedance is abated.	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IC(E) within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Construction Air Quality

EVENT		ACTION		
EAFIAI	ET	IC(E)	ER	CONTRACTOR
ACTION LEVEL				
Exceedance for one sample	Inform IC(E) and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily.	Check monitoring data submitted by ET; Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice; Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	1. Identif y source; 2. Inform IC(E) and ER; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency to daily; 5. Discuss with IC(E) and Contractor for remedial actions required; 6. If exceedance continues, arrange meeting with IC(E) and ER; 7. If exceedance stops, cease additional monitoring.	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented.	Submit proposals for remedial actions t IC(E) within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
LIMITED LEVEL				
Exceedance for one sample	Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results.	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures.	Confirm receipt of notification of failure in writing: Notif y Contractor; Ensure remedial measures properly implemented.	Take immediate action to avoid further exceedance; Submit proposals for remedial actions IEC within 3 working days of notificatio Implement the agreed proposals; Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	Notify IEC, ER, Contractor and EPD; Identif y source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring.	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IC(E), agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	Take immediate action to avoid further exceedance; Submit proposals for remedial actions in IC(E) within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix 6.2

Summary for Notification of Exceedance_Air and Noise

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

Appendix 8.1

Complaint Log

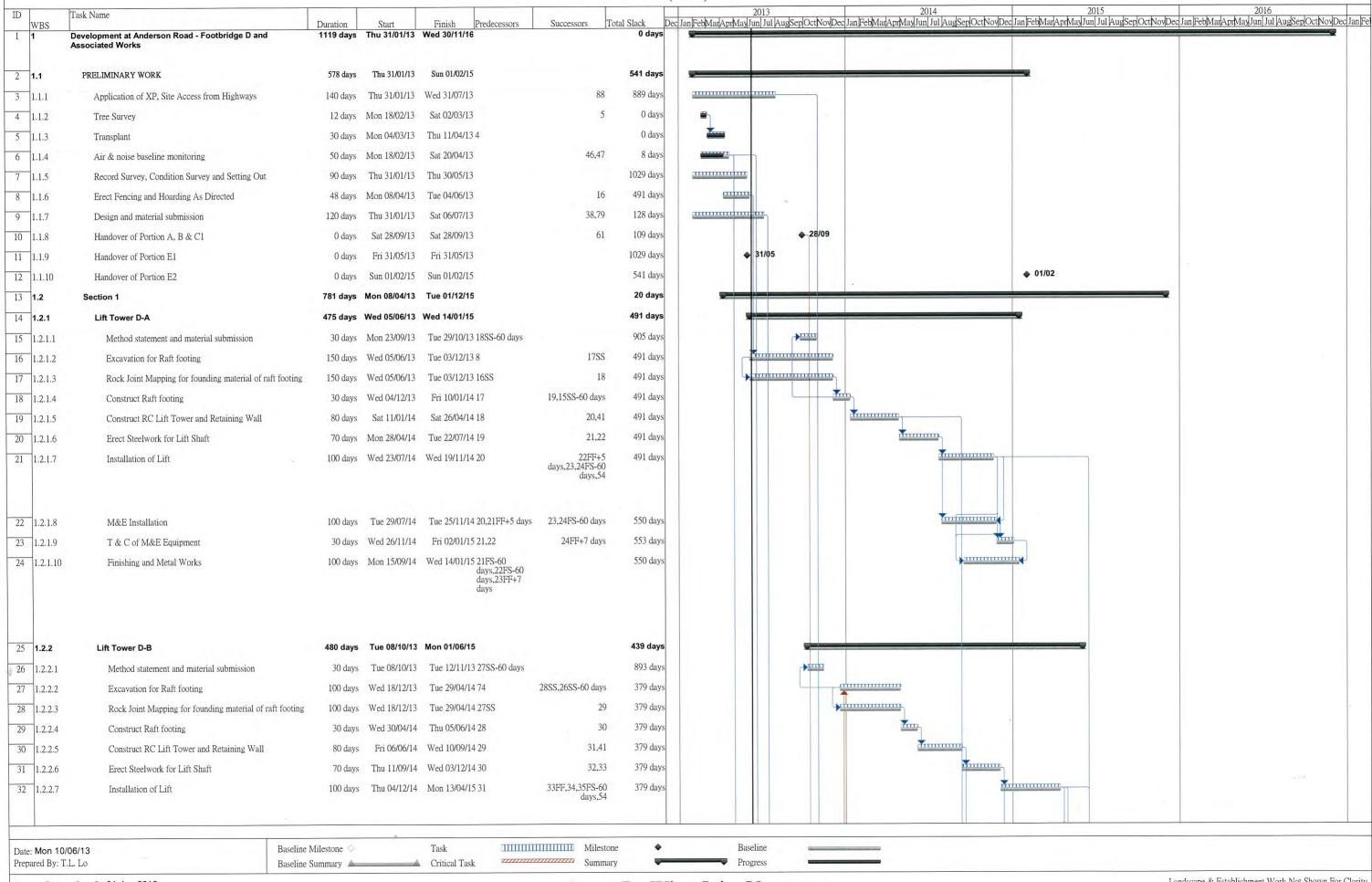
Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
140813	13 Aug 2014	Resident complained via hotline by RE	The slope opposite to Tin Wan House, Shun Tin Estate, Kowloon	Noise was emanated from the construction site at the slope opposite to Tin Wan House, Shun Tin Estate, Kowloon at around 1620 hrs on 13 Aug 2014 and requested follow up action by relevant department.	2)	RSS notified ET on 15 Aug 2014 ET confirmed with site staff the major noise generating construction activities undertaken at works area at the slope opposite to Tin Wan House including slope works After reviewing the noise monitoring data at monitoring stations (NM1 - Tin Wan House and NM2 - Ning Po No.2 College), no limit level exceedances were recorded during routine noise monitoring event on 14 Aug 2014. As similar construction works activities conducted on 13 Aug 2014 was continued across the above monitoring period, the noise emanated from the construction activities under Contract CV/2012/07 was considered to comply with the statutory requirement. In addition, weekly environmental site inspection was conducted on 12 Aug 2014 at around 10:00. According to the inspection record, no particular observation regarding noise impact was recorded and the mitigation measures including erection of temporary noise barrier was observed in place.	Closed

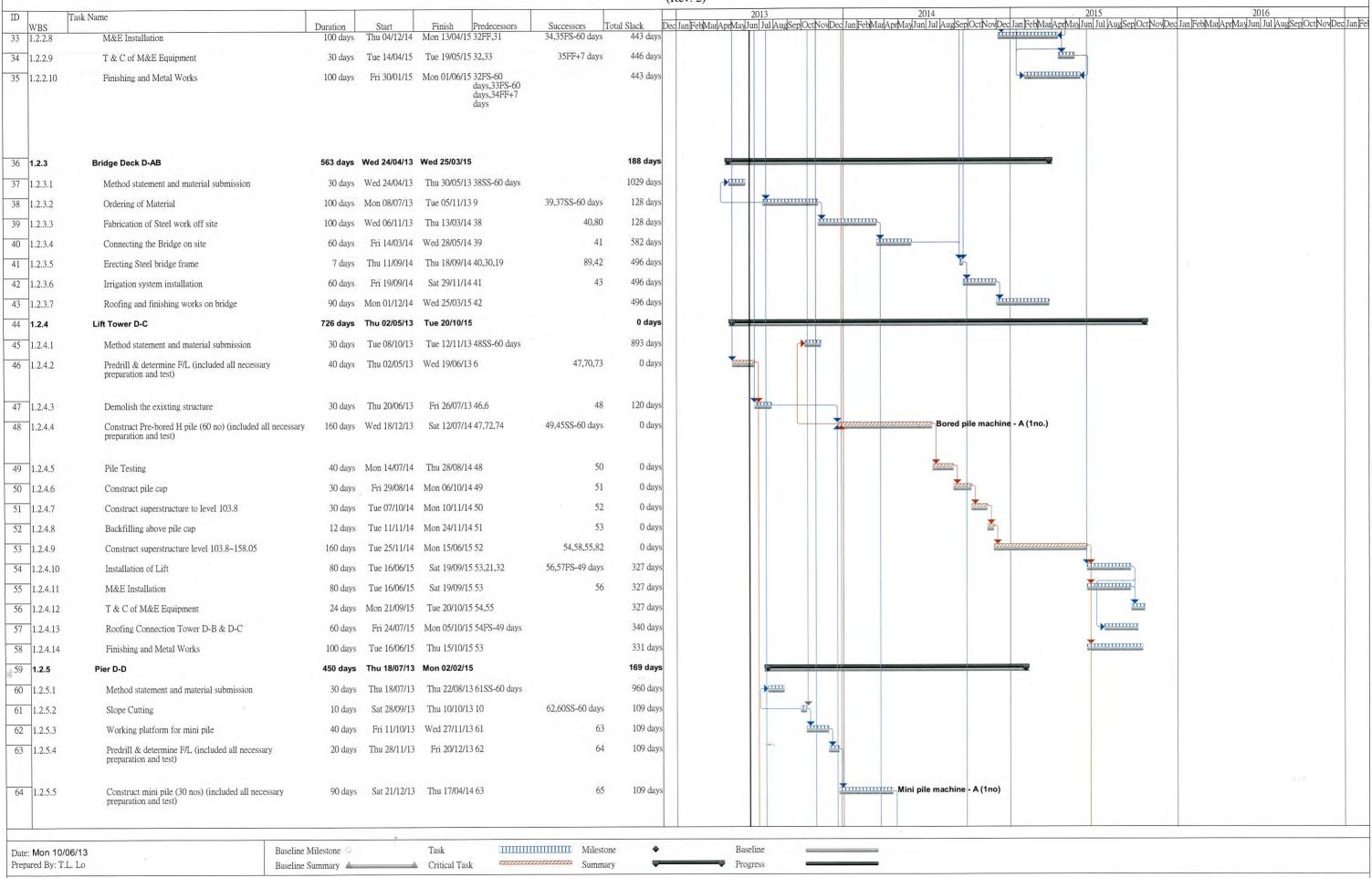
Appendix 9.1

Construction Programme

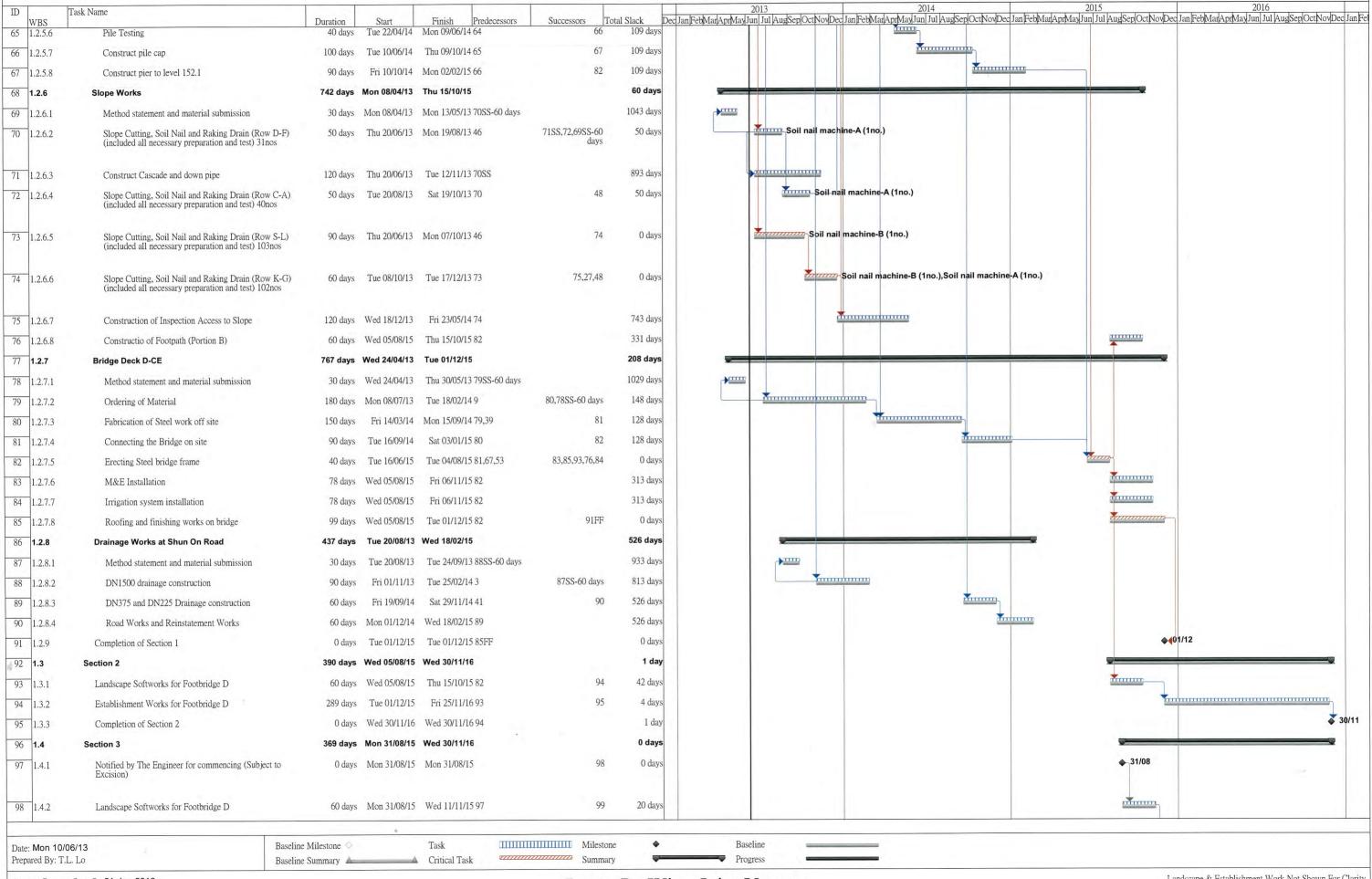
Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)



Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)



Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)



Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works 2013 2014 2015 2016 Dec Jan FebMar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Fe ID Task Name Total Slack Finish Successors 99 1.4.3 Landscape Softworks and Establishment Works for Footbridge A, B and C 289 days Thu 12/11/15 Mon 07/11/16 98 20 days **30/11** 0 days Wed 30/11/16 Wed 30/11/16 99 0 days 100 1.4.4 Completion of Section 3 Baseline Milestone Task IIIIIIII Milestone Baseline Date: Mon 10/06/13 Prepared By: T.L. Lo Critical Task Progress Baseline Summary