Civil Engineering and Development Department

Contract No. ST/2013/01 Sha Tin New Town Stage II Road T3 and Associated Roadworks – Remaining Works, Phase III

Monthly EM&A Report (Version 2.0) January 2015

Certified By

(Environmental Team Leader)

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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EXECUTIVE SUMMARY

Introduction

- 1. This is the 8th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for CEDD Contract No. ST/2013/01 "Sha Tin New Town Stage II, Road T3 and Associated Roadworks Remaining Works, Phase III" (hereinafter referred to as 'the Project'). This report documents the findings of EM&A Works conducted in January 2015.
- 2. The major site activities undertaken in the reporting month included:
 - Reinforcement fixing
 - Formwork erection/removal
 - Welding and cutting steel members
 - Concreting
 - Soil backfill & compaction

Environmental Monitoring and Audit Works

- 3. Environmental monitoring and audit works for the Project were performed regularly and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the non-compliance of the reporting month is tabulated in **Table I**.

Table I Summary Table for Events Recorded in the Reporting Month

Domomoton	No. of Exceedance		No. of Exceedance	A ation Taken	
Parameter	Action Level	Limit Level	Due to this Project	Action Taken	
Noise	0	0	0	N/A	

Construction Noise

5. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

6. Environmental related licenses/permits granted to the Project include the Environmental Permit (EP) for the Project and the Water Discharge Licence.

Key Information in the Reporting Month

7. Summary of key information in this reporting month is tabulated in **Table II**. The key information in the EIA Report is summarized in the Table III below. According to the EIA Report, air quality and noise would be the key environmental issues during the

construction of the Project. Details of the implementation of mitigation measures are provided in the Appendix H.

Table II Summary Table for Key Information in the Reporting Month

Event	Even	t 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	
Status of submissions under EP	1	Monthly EM&A Report for (December 2014)	Submitted to EPD on 16 th January 2015.	N/A	
Notifications of any summons & prosecutions	0		N/A	N/A	

Future Key Issues

Major site activities for the coming month will include:

- Reinforcement fixing
- Formwork erection/ removal
- Welding and cutting steel members
- Concreting
- Soil backfill & compaction

The anticipated major environmental issues will be mainly on silty surface runoff, blocking of drainage system and ponding water during rainy season; and dust and noise nuisance due to roadwork activities.

Monthly EM&A Report – January 2015

Key Information in the EIA Report and the Status of EMIS Table III

	Table III Key Information in the EIA Report and the Status of Eivil					
	Issues	Assumptions and Assessment	Recommended Mitigation Measures	Status of Implementation of Mitigation Measures		
	Air	With the implementation of dust suppression mitigation measures, the level of construction dust would comply with the relevant AQO.	Watering the work area at least twice a day. Environmental pollution control measures for minimizing construction dust impact as stipulated in the APCO.	During the audit sessions, it was observed that: • Watering the work site was provided.		
1Se	Noise	Noise level at most of NSRs would exceed the noise criteria without mitigation measures.	Good site practices, adoption of quiet construction plant, reduction of on-time operation of plant, movable noise barrier, avoid simultaneous noisy activities.	During the audit sessions, it was observed that: • Simultaneous noisy activities were avoided.		
Construction Phase	Water	The potential impact rose from the construction of flyovers spanning to the upper Shing Mun River Channel.	Construction works spanning the upper Shing Mun River should be undertaken in the dry season All storm runoff should be routed through oil/grit separators and/or sediment basins/traps before being allowed to be discharged into the nearby receiving waters. All stockpiled areas should be covered. All sediment removable facilities should be maintained and the deposited sediments should be removed regularly.	The construction of flyovers spanning to the upper Shing Mun River Channel was completed under Sha Tin New Town – Stage II, Trunk Road T3 Project in 2009		

Monthly EM&A Report – January 2015

1 INTRODUCTION

Background

- 1.1 'Road T3 and Associated Roadworks Remaining Works, Phase III' Project (hereinafter referred to as "the Project") is the remaining works of the Project 'Sha Tin New Town Stage II, Trunk Road T3 (Tai Wai)' which is a Schedule 2 Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of environmental impact assessment (EIA) was undertaken for the 'Sha Tin New Town Stage II, Trunk Road T3 (Tai Wai)' to consider the key issues of to provide information on nature and extent of environmental impacts arising from the construction and operation of Road T3, and identify possible mitigation measures associated with the works. An EIA Report was approved by the Environmental Protection Department (EPD) on March 1998.
- 1.2 The Project includes the construction of an outstanding 1-lane slip road in the original Road T3 Scheme under the Environmental Permit EP-135/2002/J (EP) issued for Schedule 2 Project 'Sha Tin New Town, Stage II Road T3 and associated roadworks' on 6 February 2014. The construction period of the Contract is tentatively 16 months. The commencement date of major construction works of the Project was scheduled to 19th June 2014.
- 1.3 Cinotech Consultants Limited was commissioned by the CEDD to undertake the Environmental Monitoring and Audit (EM&A) works for the Project.
- 1.4 The site layout plan and the location of noise monitoring station are shown in **Figure 1.**
- 1.5 According to the Baseline Environmental Monitoring Plan submitted to EPD on 21 February 2014, there is one noise monitoring station under the Project for monitoring the impact construction noise. No comment was received from EPD.
- 1.6 This is the 8th monthly EM&A report summarizing the EM&A works conducted for the Projects in January 2015.

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD)
 - Engineer's Representative (ER) AECOM
 - Environmental Team (ET) Cinotech Consultants Ltd.
 - Independent Environmental Checker (IEC) ANEWR Consulting Limited
 - Contractor Sheen Billion Development Ltd.
- 1.8 The key contacts of the Project are shown in **Table 1.1**, and the organization chart of ET is shown in **Figure 2**.

Table 1.1 Key Project Contacts

Party	Role	Name	Position	Phone No.	Fax No.
GED 5	Project	Mr. Bryan YUEN	Engineer	2301 1398	/
CEDD	Proponent	Mr. T.M. KONG	Engineer	2762 5392	2714 5174
AECOM	Engineer's Representative	Mr. Daniel KO	Resident Engineer	2607 7805	2687 2322
Cinotech	Environmental Team Leader	Dr. Priscilla CHOY	Director	2151 2089	3107 1388
ANEWR	Independent Environmental Checker	Mr. James CHOI	Director	2869 6018	3007 8556
Sheen Billion		Mr. Walance LI	Project Manager	9609 1908	
Development Ltd.	Contractor	Mr. Ryan CHAN	Site Engineer / Environmental Officer	9708 7539	3427 9289

Construction Programme

- 1.9 The site activities undertaken in the reporting month were:
 - Reinforcement fixing
 - Formwork erection/removal
 - Welding and cutting steel members
 - Concreting
 - Soil backfill & compaction

Summary of EM&A Requirements

- 1.10 The EM&A programme requires construction phase noise monitoring as well as environmental site audits. The EM&A requirements are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.
- 1.12 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely noise as well as audit works for the Project in the reporting month.

2 NOISE MONITORING

Monitoring Requirements

2.1 One noise monitoring station, namely N6 was approved for impact monitoring. **Appendix A** shows the established Action and Limit Level for the environmental monitoring works.

Monitoring Locations

2.2 Noise monitoring was conducted at one designated monitoring station as presented in **Table 2.1**. **Figure 1** shows the location of the monitoring station.

Table 2.1 Location of Noise Monitoring Station

Monitoring Station	Description	Location of Measurement
N6	Scenery Court	Block 1 of Scenery Court

Monitoring Equipment

2.3 **Table 2.2** summarizes the noise monitoring equipment model being used.

Table 2.2 Noise Monitoring Equipment

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	SVANTEK - SVAN 955 and SVAN 957	3
Calibrator	SVANTEK - SV30A and Brüel & Kjær - 4231	3

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters, frequency and total duration of monitoring.

Table 2.3 Noise Monitoring Parameters, Frequency and Duration

Station	Parameter	Period	Frequency	Measurement
N6	$\begin{array}{c} L_{10}(30 \text{ min.}) \ dB(A) \\ L_{90}(30 \text{ min.}) \ dB(A) \\ L_{eq}(30 \text{ min.}) \ dB(A) \end{array}$	0700-1900 hrs. on normal weekdays	Once a week	Façade

Monitoring Methodology and QA/QC Procedures

Field Monitoring

- 2.5 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 : Fast

- measurement time : 30 minutes

- 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.

Maintenance and Calibration

- 2.6 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 B**.

Results and Observations

- 2.7 In the reporting month, noise monitoring was conducted as scheduled at the designated location. The noise monitoring schedule is provided in **Appendix C**.
- 2.8 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the allowed CNL at the designated noise monitoring station are presented at Table

2.4.

Table 2.4 Baseline Noise Level and Allowed Construction Noise Level for Monitoring Station

Station	Baseline Noise Level, dB (A)	Allowed CNL, dB (A)
N6 – Scenery Court	66.7	75.0

- 2.9 The details of the monitoring results and graphical presentations are shown in **Appendix D**. The weather during the monitoring session was sunny and cloudy. In accordance with Condition 6.2 of the EP, all environmental monitoring data was made available to the public via internet access at the website: http://www.st201301.com/test/.
- 2.10 No Action/Limit Level exceedance for construction noise monitoring was recorded in the reporting month. The Action/Limit Level and the noise monitoring result are summarized at Table 2.5.

Table 2.5 Summary Table of Noise Monitoring Results during the Reporting Month

Parameter	Date	CNLs Leq(30min) dB (A)	Action Level	Limit Level
N6	6 January 2015	65.6		
	13 January 2015	69.3	When one documented	75dB(A)
	22 January 2015	66.9	complaint is received	130D(A)
	29 January 2015	74.1		

2.11 According to our field observations, the major noise sources identified at the designated monitoring station are as follows:

Station	Major Noise Sources
N6 – Scenery Court	Road Traffic

3 ENVIRONMENTAL AUDIT

Site Audits

- 3.1 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 F**.
- 3.2 Site audits were conducted on 7th, 14th, 21st and 30th January 2015 by ET. A joint site audit with the representative with IEC, ER, the Contractor and the ET was carried out on 30th January 2015. The details of observations during site audit can refer to **Table 3.3**.

Review of Environmental Monitoring Procedures

3.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

3.4 All permits/licenses obtained for the Project are summarized in **Table 3.1**.

Table 3.1 Summary of Environmental Licensing and Permit Status

Permit / License No.	Valid Period		C4-4
Permit / License No.	From	To	Status
Environmental Permit (EP)			
EP-135/2002/J	6/2/2014	N/A	Valid
Billing Account for Construction	n Waste Dispo	osal	
RS01172	19/2/2014	N/A	Valid
Registration of Chemical Waste Producer			
WPN5213-758-S3797-01	4/2/2014	12/11/2014	Valid (Updated with two chemical waste types added – spent lubricating oil and
W11\J213-730-33737-01	13/11/2014	N/A	contaminated soil with spent lubricating oil)
Effluent Discharge License under Water Pollution Control Ordinance			
WT00019462-2014	8/7/2014	N/A	Valid
Construction Noise Permit			
GW-RN0712-14	17/11/2014	16/12/2014	Expired

Status of Waste Management

3.5 There was 366.27 m³ Construction and Demolition (C&D) materials generated in this reporting month. The table summarizing the quantities of waste generated in this

reporting month is presented in **Appendix I**.

Implementation Status of Environmental Mitigation Measures

3.6 The key information in the EIA Report is summarized in **Table 3.2**. With referring to the EIA Report, air quality and noise would be the key issues during the construction of the Project. Details of the implementation of mitigation measures are provided in the **Appendix H**.

Table 3.2 Key Information in the EIA Report and the Status of EMIS

	Issues	Assumptions and Assessment	Recommended Mitigation Measures	Status of Implementation of Mitigation Measures
	Air	With the implementation of dust suppression mitigation measures, the level of construction dust would comply with the relevant AQO.	Watering the work area at least twice a day. Environmental pollution control measures for minimizing construction dust impact as stipulated in the APCO.	During the audit sessions, it was observed that: • Watering the work site was provided.
hase	Noise	Noise level at most of NSRs would exceed the noise criteria without mitigation measures.	Good site practices, adoption of quiet construction plant, reduction of on-time operation of plant, movable noise barrier, avoid simultaneous noisy activities.	During the audit sessions, it was observed that: • Simultaneous activities were avoided.
Construction Phase	Water	The potential impact rose from the construction of flyovers spanning to the upper Shing Mun River Channel.	Construction works spanning the upper Shing Mun River should be undertaken in the dry season All storm runoff should be routed through oil/grit separators and/or sediment basins/traps before being allowed to be discharged into the nearby receiving waters. All stockpiled areas should be covered. All sediment removable facilities should be maintained and the deposited sediments should be removed regularly.	The construction of flyovers spanning to the upper Shing Mun River Channel was completed under Sha Tin New Town – Stage II, Trunk Road T3 Project in 2009

3.7 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarized in

Table 3.3.

Table 3.3 Observations and Recommendations of Site Audit

Parameters	Date	Observations	Remedial Actions	
	28 November 2014 3 December 2014 10 December 2014 17 December 2014	Hoarding should be surrounded with bunds to prevent muddy surface runoff from leaking offsite, and the sand accumulated on the cycling road offsite should be cleared.		
	22 December 2014	Properly surround the hoarding with bunds to prevent soil and muddy surface runoff from leaking offsite.	Follow-up action will be reported during the next reporting period.	
Water Quality	29 December 2014 7 January 2015 14 January 2015	To reinforce the bunding at the bottom of water barrier to avoid the leakage of muddy water.		
	21 January 2015 30 January 2015	Enhance the bundings at the bottom of water barriers, and clear the soil on the cycling road.		
	29 December 2014 7 January 2015	Clear the floating rubbish at the sedimentation tank to ensure it can function properly.	The observation was observed to be improved/rectified by the Contractor during the audit session on 14 January 2015.	
	29 December 2014			
	7 January 2015	Properly cover the exposed slope with tarpaulin sheet. be improved/rectified by Contractor during the	The observation was observed to be improved/rectified by the	
	14 January 2015		Contractor during the audit session on 30 January 2015.	
	21 January 2015			
	30 January 2015	Regularly provide water spray to the stockpile.	Follow-up action will be reported during the next reporting period.	
	29 December 2014			
Air Quality	7 January 2015 14 January 2015	Properly cover the exposed slope with tarpaulin sheet.	The observation was observed to be improved/rectified by the Contractor during the audit	
	21 January 2015		session on 30 January 2015.	

Parameters	Date	Observations	Remedial Actions
Noise	N/A	N/A	N/A
	29 December 2014	Clear and avoid the oil leakage at underneath of steel bar threading machine.	The observation was observed to be improved/rectified by the Contractor during the audit session on 7 January 2015.
Waste / Chemical	29 December 2014	Clear the withered leaves accumulated at the gully.	The observation was observed to be improved/rectified by the Contractor during the audit session on 7 January 2015.
Management	14 January 2015	Provide drip tray to the chemical	The observation was observed to be improved/rectified by the
	21 January 2015	containers.	Contractor during the audit session on 30 January 2015.
	30 January 2015	Clear the oil stain on the paved ground.	Follow-up action will be reported during the next reporting period.
Permit/ Licenses	N/A	N/A	N/A

Summary of Exceedance

3.8 No exceedance of monitoring results was recorded in the reporting month. Summary of exceedance is provided in **Appendix E**.

Implementation Status of Event Action Plans

3.9 The Event Action Plan for construction noise is presented in **Appendix G**. No exceedance was recorded and thus no action was required to be implemented.

Summary of Complaint and Prosecution

- 3.10 There was no environmental complaint received in the reporting month. There was an environmental complaint was received on 29th December 2014.
- 3.11 No prosecution or notification of summons was received in the reporting month. The Complaint Log is attached in **Appendix J.**

4 FUTURE KEY ISSUES

- 4.1 Key issues to be considered in the coming month include:
 - Effluent discharge generated from surface runoff;
 - Dust generation from excavation works, concrete breaking works and stockpile of dusty materials;
 - Noise generation from the operation of PMEs
 - Accumulation of stagnant water in the site areas; and
 - Accumulation of C&D waste on site.

Monitoring Schedule for the Next Month

4.2 The tentative environmental monitoring schedule for the next month is shown in **Appendix C**.

Construction Program for the Next Month

- 4.3 A tentative construction programme is provided in **Appendix K**. The major construction activities in the coming month will include:
 - Reinforcement fixing
 - Formwork erection/ removal
 - Welding and cutting steel members
 - Concreting
 - Soil backfill & compaction

5 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 5.1 Environmental monitoring and audit works were conducted in the reporting month. Site inspections were conducted on a weekly basis. The results were reviewed and checked.
- 5.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 5.3 There was no environmental complaint received in the reporting month. No prosecution or notification of summons received.

Recommendations

5.4 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Quality

- Provide mitigation measures to prevent muddy surface runoff from leaking offsite
- Discharge groundwater and surface runoff to the discharge point via sedimentation tank only, and maintain the sedimentation tank to ensure it functions properly

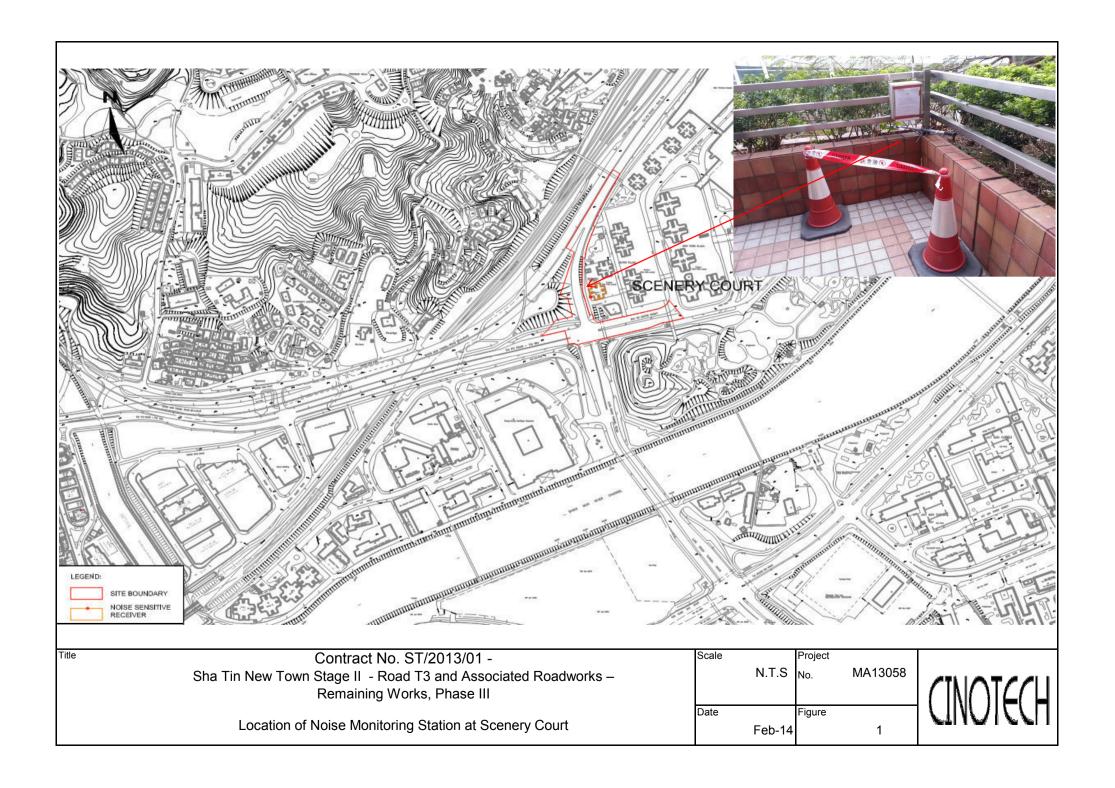
Air Quality

• Regularly clear the sand on haul road and water the haul road to prevent dust generation

Waste / Chemical Management

• Provide mitigation measure to prevent oil spillage/leakage from construction equipment

FIGURE(S)



Environmental Team Leader Dr. Priscilla Choy (Tel: 2151 2089)

Project Coordinator

coordination of the Project and compile reports
 lvy Tam

(Tel: 2151 2090)

Monitoring Team

- perform environmental monitoring works

Team Leader: Tang Wing Kwai (Tel: 2151 2073)

Team Members: Lee Man Hei, Mo Yik Wai, Lam Ho Chun, Man Chun Fai, Ching Ka Wai, Ho Ka Chun

Title

Audit Team

- conduct site inspection, complete the environmental checklist once a week

Team Leader: Ivy Tam (Tel: 2151 2090)

Site Auditor: Harris Wong (Tel: 2151 2098)

Contract No. ST 2013/01 Sha Tin New Town, Stage II Environmental Team for Road T3 & Associated Roadworks - Remaining Works, Phase III

ET's Organization Chart

Scale	N.T.S	Project No.	MA13058
Date	Jun-14	Figure	2



APPENDIX A ACTION AND LIMIT LEVEL

Monthly EM&A Report

APPENDIX A - Action and Limit Level

Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays		75 dB(A)
0700-2300 hrs on holidays; and 1900- 2300 hrs on all other days	When one documented complaint is received	70* dB(A)
2300-0700 hrs of next day		55* dB(A)

Notes:

Notes: If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

^(*) reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES



WELLAB LIMITED

Rms 816, 1516 & 1701, Technology Park,
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Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/150103

Date of Issue: 2015-01-05

Date Received: 2015-01-03 Date Tested: 2015-01-03

Date Completed: 2015-01-05 Next Due Date: 2016-01-04

ATTN:

Mr. W. K. Tang

Page:

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Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer Madal No.

: SVANTEK

Model No.

: SVAN 955

Serial No. Microphone No.

: 14303 : 35222

Equipment No.

: N-08-05

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 54%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
. 114	114.0

Remark: 1)This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

For and On Behalf of WELLAB Ltd.

PREPARED AND CHECKED BY:

PATRICK TSE



Rrns 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140822/3

Date of Issue: 2014-08-25

Date Received: 2014-08-22 Date Tested: 2014-08-22

Date Completed: 2014-08-25

Next Due Date: 2015-08-24

ATTN:

Mr. W.K. Tang

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Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 21459

Microphone No.

: 43676

Equipment No.

: N-08-08

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 55%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



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TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/141129/3 Date of Issue: 2014-12-01 Date Received: 2014-11-29 Date Tested: 2014-11-29 Date Completed: 2014-12-01 Next Due Date: 2015-11-30

ATTN:

Mr. W.K. Tang

Page:

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Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 23851

Microphone No.

: 48532

Equipment No.

: N-08-12

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



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TEST REPORT

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Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/141003/1
Date of Issue:	2014-10-04
Date Received:	2014-10-03
Date Tested:	2014-10-03
Date Completed:	2014-10-04
Next Due Date:	2015-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24803

Equipment No.

: N-09-03

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 56%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



Rrns 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/141003/3
Date of Issue:	2014-10-04
Date Received:	2014-10-03
Date Tested:	2014-10-03
Date Completed:	2014-10-04
Next Due Date:	2015-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24780

Equipment No.

: N-09-05

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 56%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140822/2
Date of Issue: 2014-08-25
Date Received: 2014-08-22
Date Testado: 2014-08-22

Date Tested: 2014-08-22
Date Completed: 2014-08-25

Next Due Date: 2015-08-24

1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description

: Acoustical Calibrator

Page:

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager

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APPENDIX C ENVIRONMENTAL MONITORING SCHEDULES

Contract No. ST/2013/01 Sha Tin New Town Stage II Road T3 and Associated Roadworks – Remaining Works, Phase III Noise Monitoring Schedule in January 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jan	2-Jan	3-Jan
4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan
		Noise				
		Noise				
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
		Noise				
		110100				
10 X	10.1	20.1	21.7	22.1	22.1	24.7
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
				Noise		
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
25-Jan	20-Jan	Z1-Jaii	20-Jan	29-Jan	50-Jan	31-Jan
				Noise		

Contract No. ST/2013/01 Sha Tin New Town Stage II Road T3 and Associated Roadworks – Remaining Works, Phase III Tentative Noise Monitoring Schedule in February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb
		Noise				
		NOISC				
0 Eab	O Esh	10 Esh	11 Feb	10 Feb	12 Feb	14 Feb
8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb
				Noise		
15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb
	NT-:					
	Noise					
40 77 1		2171				40 = 4
22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb
					Noise	

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

Noise Monitoring Stations

N6 - Scenery Court

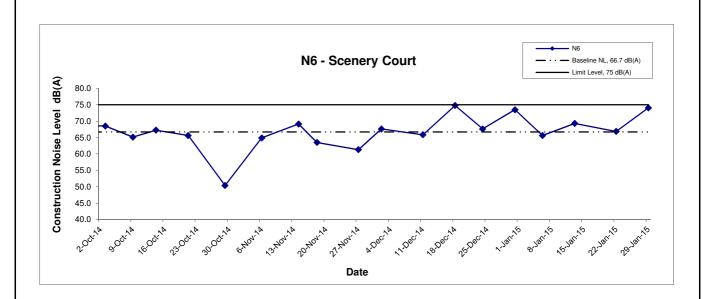
APPENDIX D NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

App D - Noise Monitoring Results

Location N6 - Scenery Court							
			Unit: dB (A) (30-min)				
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level	
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
6-Jan-15	11:30	Sunny	69.2	71.4	66.9		65.6
13-Jan-15	14:00	Cloudy	71.2	73.4	69.7	66.7	69.3
22-Jan-15	16:30	Sunny	69.8	72.0	66.7	00.7	66.9
29-Jan-15	16:05	Sunny	74.8	76.5	67.7		74.1

MA14009/Noise Cinotech

Noise Levels



Title	Sha Tin New Town Stage II
	Road T3 and Associated Road Works- Remaning Works,
	Phase III
	Graphical Presentation of Construction Noise Monitoring
	Results

Scale		Project No.
	N.T.S	MA13058
Date	Jan 15	Appendix D



APPENDIX E SUMMARY OF EXCEEDANCE

Monthly EM&A Report – January 2015

APPENIDX E – SUMMARY OF EXCEEDANCE

Reporting Month: January 2015

a) Exceedance Report for Construction Noise (NIL)

APPENDIX F SITE AUDIT SUMMARY

Sha Tin New Town Stage II

Road T3 and Associated Roadworks - Remaining Works, Phase III

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	150107	
Date	7 January 2015 (Wednesday)	
Time	10:00-11:00	

Ref. No.	Non-Compliance	Related Item No.
	None identified	
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
150107-R01	Clear the floating rubbish at the sedimentation tank.	B6iv
150107-R02	Properly cover the exposed slope with tarpaulin sheet.	B10
150107-R03	To reinforce the bunding at the bottom of water barrier to avoid the leakage of muddy water.	B2
	B. Air Quality	
150107-R02	Properly cover the exposed slope with tarpaulin sheet.	C 7
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	E. Permits/Licences	<u></u>
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 141229), follow-up actions are required for the items 141229-R02, R03 and R05 which were renamed as 150107-R01, R02 and R03 respectively.	

Date	Name	
7 January	Harris Wong	Recorded by
7 January 2	Dr. Priscilla Choy	Checked by
<u> </u>	Dr. Priscilla Choy	Checked by

1

Sha Tin New Town Stage II

Road T3 and Associated Roadworks - Remaining Works, Phase III

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	150114
Date	14 January 2015 (Wednesday)
Time	14:00-15:00

D-C M-	N. C. L.	Related Item No.
Ref. No.	Non-Compliance None identified	Rem No.
	None identified	Related
Ref. No.	Remarks/Observations	Item No.
	A. Water Quality	
150114-R01	Reinforce the bunding at the bottom of water barriers.	B2
150114-R02	Properly cover the exposed slope with tarpaulin sheet.	B10
	B. Air Quality	
150114-R02	Properly cover the exposed slope with tarpaulin sheet.	C 7
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Waste/Chemical Management	
150114-R03	Provide drip tray to the chemical containers.	E 8
	E. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 150107), follow-up actions are required for the items 150107-R02 and R03 which were renamed as 150114-R02 and R01 respectively.	

	Name	Signature	Date
Recorded by	Harris Wong	A	14 January 2015
Checked by	Dr. Priscilla Choy	WI	14 January 2015
		1	

Sha Tin New Town Stage II

Road T3 and Associated Roadworks - Remaining Works, Phase III

Weekly Site Inspection Record Summary Inspection Information

Ins	pect	ion	Iniorn	iatio	n

Checklist Reference Number	150121
Date	21 January 2015 (Wednesday)
Time	10:00-11:00

Ref. No.	Non-Compliance	Related Item No.
	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
150121-R01	• Enhance the bundings at the bottom of water barriers, and clear the soil on the cycling road.	B2
150121-R02	Cover the slope with tarpaulin sheet.	B10
	B. Air Quality	
150121-R02	Cover the slope with tarpaulin sheet.	C 7
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Waste/Chemical Management	
150121-R03	Provide drip tray to the chemical containers.	E 8
	E. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 150114), follow-up actions are required for the items 150114-R01, R02 and R03 which were renamed as 150121-R01, R02 and R03 respectively.	

	Name	Signature	Date
Recorded by	Harris Wong	A	21 January 2015
Checked by	Dr. Priscilla Choy	NF	21 January 2015

Sha Tin New Town Stage II

Road T3 and Associated Roadworks - Remaining Works, Phase III

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	150130
Date	30 January 2015 (Friday)
Time	10:00-11:00

		Related
Ref. No.	Non-Compliance	Item No.
	None identified	-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Related
Ref. No.	Remarks/Observations	Item No.
	A. Water Quality	
150130-R01	Enhance the bundings at the bottom of water barriers, and clear the sand on the cycling road.	B2
	B. Air Quality	
150130-R02	Regularly provide water spray to the stockpile.	C13
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Waste/Chemical Management	
150130-R03	Clear the oil stain on the paved ground.	E7
	E. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 150121), follow-up action is required for the items 150121-R01 which was renamed as 150130-R02.	

	Name ·	Signature	Date
Recorded by	Harris Wong	A	30 January 2015
Checked by	Dr. Priscilla Choy	WF	30 January 2015

APPENDIX G EVENT ACTION PLAN

Appendix G Event/Action Plan

Event/Action Plan for Construction Noise

		AC	TION	
EVENT	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
	 Undertake measurement to establish validity of complaint Identify the source(s) of the complaint Inform ER & IEC in writing. Discuss remedial actions required with ER & IEC Increase monitoring frequency to assess efficacy of remedial measures If exceedance continues, meet with ER&IEC to review implementation of appropriate mitigation measures If exceedance stops, cease additional monitoring 	 Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER & ET accordingly Supervise the implementation of remedial measures. 	 Confirm receipt of notification of complaint and notify Contractor if proven Check monitoring data trends and Contractor's working methods. Remind the Contractor of his Contractual obligations and discuss with ET, IEC and Contractor on proposed remedial actions. Assess the efficacy of remedial actions and keep the Contractor informed Inform complainant of actions 	 Submit proposals for remedial actions to ER within three working days of notification Amend proposals if required by the Engineer Implement the remedial actions immediately upon instruction Liaise with the ER to optimise the effectiveness of the agreed mitigation Amend proposal if appropriate
LIMIT LEVEL			taken	
LIMIT LEVEL	Repeat measurement to confirm findings Identify the source(s) of impact Inform ER&IEC and EPD in writing Discuss remedial actions required with ER&IEC Increase monitoring frequency to assess efficacy of remedial measures If exceedance continues, meet with ER&IEC to identify appropriate mitigation measures If exceedance stops, cease additional monitoring	1. Check monitoring data submitted by ET 2. Review Contractor's remedial actions to assure their effectiveness and advise the ER &ET accordingly 3. Supervise the implementation of the remedial measures	1. Confirm receipt of notification of exceedance and notify Contractor 2. Check monitoring data trends and Contractor's working methods 3. Discuss with ET, IC(E) and Contractor on proposed remedial actions to be implemented 4. Assess the efficacy of remedial actions and keep the Contractor informed 5. If exceedance continuous, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is aborted	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to ER within three working days of notification Amend proposals if required by the ER Implement remedial actions immediately upon instruction Liaise with the ER to optimize the effectiveness of the agreed mitigation Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is aborted.

APPENDIX H UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

Appendix H - Implementation Schedule of Environmental Mitigation Measures

EIA/ ERR Ref. Ref.	Recommended Mitigation Measures	Who to implement the measures?	Location of the measures	When to Implement the measures?
Construct	ion Noise			
2.5.4 /	 Where available, the Contractor shall use quiet items of PME or model of plants that are quieter than those specified in the EPD's 	Contractor	At active construction	Construction stage
2.3	Technical Memorandum (GW-TM) for undertaking construction works.		locations.	
	 Where practicable, the Contractor shall use movable noise barriers and avoid simultaneous noisy activities. 			
Air Quality				
3.5.3/	Watering the works area at least twice a day	Contractor	Work site	Construction
3.4.5	,			stage
3.5.4/	Environmental pollution control measures for minimizing construction	Contractor	Work site	Construction
3.4.5	dust impact as stipulated in the Air Pollution Control Regulation.			stage
Waste Mai	nagement			
5.2 -	Environmental pollution control measures for minimizing waste arising	Contractor	Within the works	Construction stage
5.6/4.5	from the construction works.		boundary	
Water Qua	ality			
4.5.1/5.5.1	Environmental pollution control measures for minimizing impacts on water quality.	Contractor	All construction sites	Construction stage
Landscap	e and Visual			-
-/Table 6-1	Storage of materials and plant shall be limited to areas less visible to receivers.	Contractor	Project site	Construction stage
-/Table 6-1	Preservation wherever possible of existing trees and transplanting wherever practical of trees affected by the Works.	Contractor	Project site	Construction stage
-/Table 6-1	Stripping, storing and re-use of topsoil.	Contractor	Project site	Construction stage

Note: EIA Ref. refers to Trunk Road T3 (Tai Wai) - Updated Final Environmental Impact Assessment Report, March 1998

APPENDIX I WASTE GENERATION IN THE REPORTING MONTH

Civil Engineering and Development Department

Contract No. ST/2013/01 Sha Tin New Town Stage II Road T3 and Associated Roadworks – Remaining Works, Phase III

Monthly Summary Waste Flow Table for 2014 and 2015 (year)

		Actual Quanti		Materials Generate	ed Monthly			Actual Quantities of		enerated Monthly	
Month	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
June	0.228	0.000	0.000	0.000	0.228	0.000	0.000	0.000	0.000	0.000	0.000
July	0.542	0.005	0.000	0.000	0.537	0.000	0.000	0.000	0.000	0.000	0.000
Aug	0.391	0.000	0.000	0.000	0.391	0.000	0.000	0.000	0.000	0.000	0.000
Sept	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
G.Total (2014)	1.221	0.005	0.000	0.000	1.216	0.000	0.000	0.000	0.000	0.000	0.000
Jan	0.366	0.018	0.000	0.000	0.348	0.000	0.000	0.000	0.000	0.000	0.000
G.Total	1.587	0.023	0.000	0.000	1.564	0.000	0.000	0.000	0.000	0.000	0.000

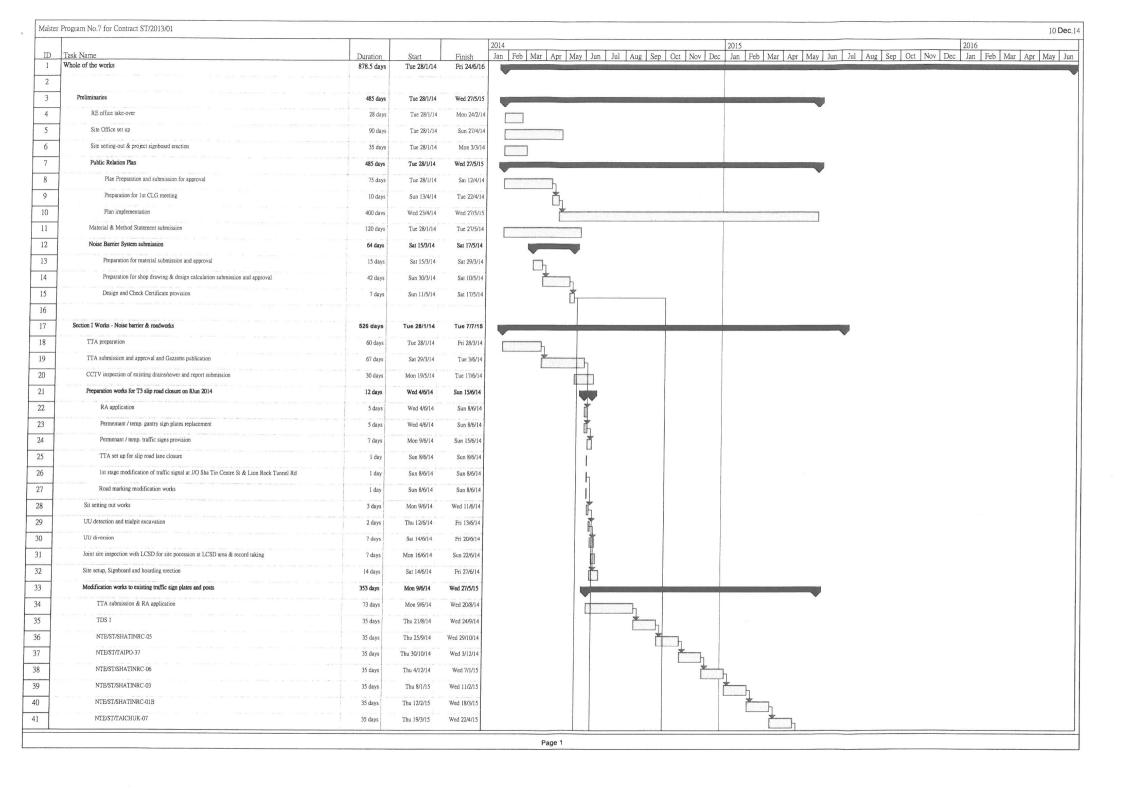
APPENDIX J COMPLAINT LOG

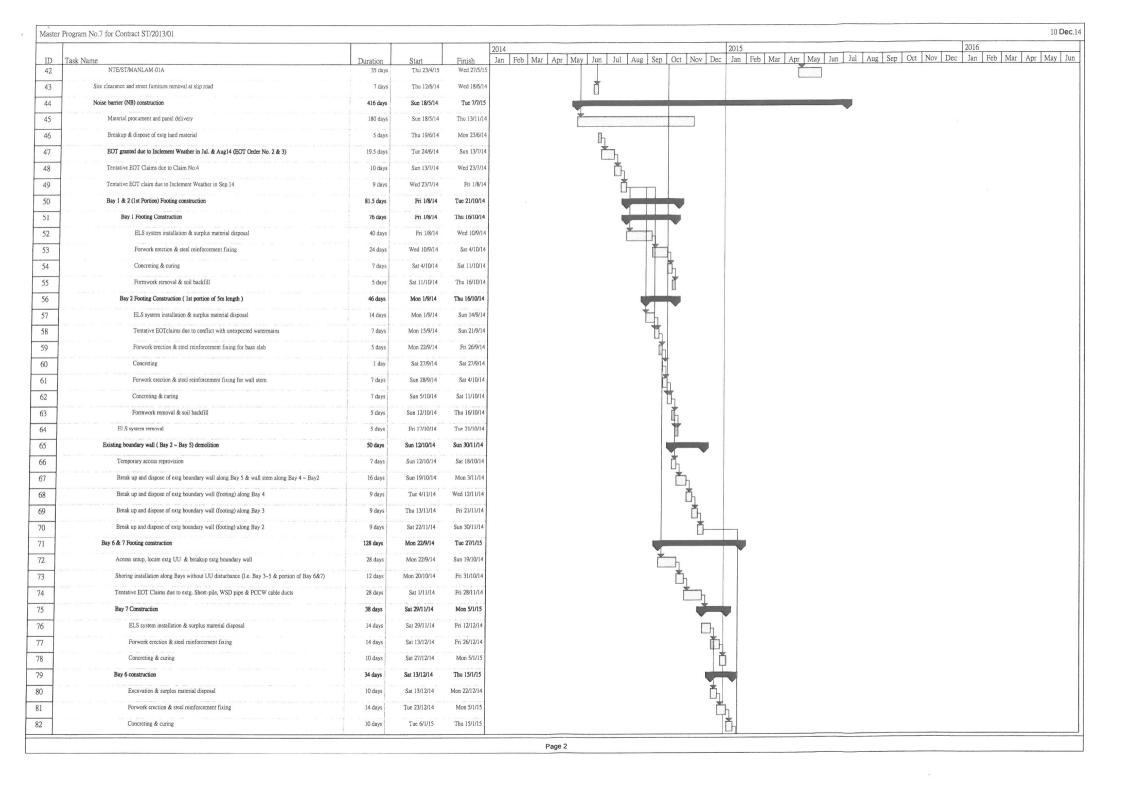
Reporting Month: January 2015

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Com- 2014-11- 01	Tai Po Slip Road	15 th November 2014	The complaint was received from a resident of Hilton Plaza by the Public Relation Officer (PRO) of Contractor (Sheen Billion Development Ltd) at 8:50 a.m. on 15 th November 2014 (Saturday). The complainant concerned about the noisy construction works conducted before 10 a.m.	According to the information provided by the Contractor, the noisy construction work at the time of complaint was concrete breaking work using an excavator-mounted breaker. No violation of the Noise Control Ordinance as the noisy construction work was conducted within the nonrestricted hour (07:00 to 19:00 on normal weekdays). However, according to item 2 of section 25.11B in PS of the Contract, demolition of existing artificial hard material should not be conducted during 8a.m. to 10a.m. Thus, the Contractor did not fulfil such requirement. After received the complaint, PRO coordinated the site personnel to stop the noisy works once the complaint was received. The noisy construction works have been re-scheduled to be commenced after 10 a.m. based on the requirement specified in the PS.	Closed
Com- 2014-12- 01	Tai Po Slip Road	29 th December 2014	The complaint was received by Environmental Protection Department (EPD) (EPD Complaint Ref: RN32146-14) in the morning of 29 th December 2014. The complainant complained about the effluent discharge to a gully in the worksite may cause pollution to the nearby environment.	According to the information provided by the Contractor, the effluent discharge was due to groundwater leakage from the trench excavation at deep depth of Bay 7 of the worksite. Since site inspection was also conducted in the morning of 29th December 2014 and no improper effluent discharge was observed, it is likely that the complainant observed the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				issue before 29 th December 2014.	
				Improper effluent discharge was observed during the site inspections on 3 rd , 10 th and 22 nd December 2014. Recommendations were given to the Contractor during the site inspections, and a further reminder was also given to the Contractor through email dated 22 nd December 2014.	
				The improper effluent discharge was ceased as per the rectified photos given by the Contractor on 24 th December 2014, as well as during the site inspection on 6 th January 2015. The discharge pipes were also connected to the discharge point via the sediment tank as per the photographic records given by the Contractor on 6 th January 2015 and from the site inspection on 7 th January 2015.	

APPENDIX K CONSTRUCTION PROGRAMME





Master Program No.7 for	Contract 51/2013/01				1
ID Task Name		Duration	Start	Finish	2014 2015 2015 2016 2017 2017 2017 2018
83	Formwork removal & soil backfill	7 days	Fri 16/1/15	Thu 22/1/15	5
4	ELS system removal	5 days	Fri 23/1/15	Tue 27/1/15	
5 Ba	y 4 & 5 Pooting construction	52 days	Fri 23/1/15	Sun 15/3/15	
5	Excavation & surplus material disposal	12 days	Fri 23/1/15	Tue 3/2/15	
	Forwork erection & steel reinforcement fixing	18 days	Wed 4/2/15	Sat 21/2/15	
	Concreting & curing	10 days	Sun 22/2/15	Tue 3/3/15	
)	Formwork removal & soil backfill	7 days	Wed 4/3/15	Tue 10/3/15	
	ELS system removal	5 days	Wed 11/3/15	Sun 15/3/15	
Ba	/ 3 and 2 (2nd portion of 7m span) Footing construction	52 days	Mon 16/3/15	Wed 6/5/15	
2	Excavation & surplus material disposal	12 days	Mon 16/3/15	Fri 27/3/15	
	Forwork erection & steel reinforcement fixing	18 days	Sat 28/3/15	Tue 14/4/15	
1	Concreting & curing	10 days	Wed 15/4/15	Fri 24/4/15	
;	Formwork removal & soil backfill	7 days	Sat 25/4/15	Fri 1/5/15	
5	ELS system removal	5 days	Sat 2/5/15	Wed 6/5/15	
Noi	se Barrier Sytem Steelwork Erection	140 days	Wed 28/1/15	Tue 16/6/15	
Noi	se Barrier Panel, cladding and gutter fixing	21 days	Wed 17/6/15	Tue 7/7/15	
New Sign	Gantry construction	283 days	Mon 1/9/14	Wed 10/6/15	
Sho	drawing and E&M works submission and approval	150 days	Mon 1/9/14	Wed 28/1/15	
Foo	ing modification	21 days	Thu 7/5/15	Wed 27/5/15	
	work fabrication, delivery & erection	14 days	Thu 28/5/15	Wed 10/6/15	
Drainage v	orks	28 days	Thu 7/5/15	Wed 3/6/15	
	y construction	34 days	Thu 4/6/15	Tue 7/7/15	
	duct laying and street furniture provision	12 days	Thu 11/6/15	Mon 22/6/15	
	vstem construction	7 days	Tue 23/6/15	Mon 29/6/15	
	& footpath construction	14 days	Tue 23/6/15	Mon 6/7/15	
Landscapin	g works	27 days	Thu 11/6/15	Tue 7/7/15	
2nd stage n	odification of traffic signal at J/O Sha Tin Centre St & Lion Rock Tunnel Rd	1 day	Tue 7/7/15	Tue 7/7/15	
2nd stage n Joint site in	spection with LCSD for handover posessed site	l day	Tue 7/7/15	Tue 7/7/15	
1					