#### 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 1.0) January 2016

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

#### CINOTECH CONSULTANTS LTD

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#### TABLE OF CONTENTS

	1 age
EXEC	UTIVE SUMMARY1
Introdu	etion1
	mental Monitoring and Audit Works
Enviror	mental Licenses and Permits
	ormation in the Reporting Month
Future 1	Key Issues
1 IN	TRODUCTION4
Backgr	ound4
	ction Programme
	ry of EM&A Requirements5
2 NO	DISE MONITORING6
Monito	ring Requirements6
	ring Locations 6
	ring Equipment
	ring Parameters, Frequency and Duration
	ring Methodology and QA/QC Procedures
	and Observations
3 EN	NVIRONMENTAL AUDIT9
Site An	dits9
	of Environmental Monitoring Procedures
Status of	of Environmental Licensing and Permitting
	of Waste Management 9
	entation Status of Environmental Mitigation Measures
Summa	ry of Exceedance
	entation Status of Event Action Plans
Summa	ry of Complaint and Prosecution
4 FU	TURE KEY ISSUES
Monito	ring Schedule for the Next Month
	ction Program for the Next Month
	ONCLUSIONS AND RECOMMENDATIONS
	sions
	mendations
LIST (	OF TABLES
Table I	Summary Table for Events Recorded in the Reporting Month
Table I	,
Table II	, , , , , , , , , , , , , , , , , , , ,
Table 1	
Table 2	•
Table 2	<del>-</del>
Table 2	Noise Monitoring Parameters, Frequency and Duration
Table 2	Baseline Noise Level and Allowed Construction Noise Level for Monitoring
Table 2	Station Summary Table of Noise Monitoring Results during the Reporting Month

- Table 3.1 Summary of Environmental Licensing and Permit Status
- Table 3.2 Observations and Recommendations of Site Audit

#### LIST OF FIGURE

Figure 1 Site Layout Plan with location of Noise Monitoring Station

Figure 2 ET's Organization Chart

#### LIST OF APPENDICES

Appendix A Action and Limit Level
-----------------------------------

Appendix B Copies of Calibration Certificates

Appendix C Environmental Monitoring Schedules

Appendix D Noise Monitoring Results and Graphical Presentations

Appendix E Summary of Exceedance

Appendix F Site Audit Summary

Appendix G Event Action Plan

Appendix H Updated Environmental Mitigation Implementation Schedule

Appendix I Waste Generation in the Reporting Month

Appendix J Complaint Log

Appendix K Construction Programme

#### **EXECUTIVE SUMMARY**

#### Introduction

- 1. This is the 20<sup>th</sup> 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 2016.
- 2. This report is the last monthly EM&A report. According to the letter received dated 2 February 2016 (ref: NTE-ST2/458CL/117) from project proponent, CEDD, the captioned project is terminated on 31 January 2016. EM&A programme including noise monitoring and site audits are also terminated.
- 3. The major site activities undertaken in the reporting month included:
  - Bicycle stands construction
  - Cycle-track pavement and traffic signs erection

#### **Environmental Monitoring and Audit Works**

- 4. 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.
- 5. 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

Parameter	No. of Ex	ceedance	No. of Exceedance	Action Taken
rarameter	<b>Action Level</b>	Limit Level	Due to this Project	Action Taken
Noise	0	0	0	N/A

Construction Noise

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

#### **Environmental Licenses and Permits**

7. 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**

8. 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	<b>Event Details</b>		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 2015)	Submitted to EPD on 14 <sup>th</sup> January 2016.	N/A	
Notifications of any summons & prosecutions	0		N/A	N/A	

#### **Future Key Issues**

Major site activities for the coming month will include:

• No site activity for the coming month.

Monthly EM&A Report – January 2016

**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 Eivils				
	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.	
lse	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	

#### 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 19<sup>th</sup> 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 20<sup>th</sup> monthly EM&A report summarizing the EM&A works conducted for the Projects in January 2016.
- 1.7 This report is the last monthly EM&A report. According to the letter received dated 2 February 2016 (ref: NTE-ST2/458CL/117) from project proponent, CEDD, the captioned project is terminated on 31 January 2016. EM&A programme including noise monitoring and site audits are also terminated.

#### **Project Organizations**

- 1.8 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.
- 1.9 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.
OED D	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	2618 2836	3007 8648
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**

- 1.10 The site activities undertaken in the reporting month were:
  - Bicycle stands construction
  - Cycle-track pavement and traffic signs erection

#### **Summary of EM&A Requirements**

- 1.11 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.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.
- 1.13 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 B&K - 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	$\begin{array}{c} L_{10}(30 \text{ min.}) \ dB(A) \\ L_{90}(30 \text{ min.}) \ dB(A) \\ L_{eq}(30 \text{ min.}) \ dB(A) \\ L_{eq}(5 \text{min}) \ dB(A)^* \end{array}$	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	Allowed CNL,
	(A)	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: <a href="http://www.st201301.com/test/">http://www.st201301.com/test/</a>.

2.10 No 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 L <sub>eq</sub> (30min) / L <sub>eq</sub> (5min)* dB (A)	Action Level	Limit Level
	6 January 2016	65.3 Measured ≤ Baseline		
N6	12 January 2016	64.9	When one documented complaint is received	75dB(A)
	19 January 2016	64.4		
	25 January 2016	64.6		

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 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 29<sup>th</sup> January 2016 by ET. A joint site audit with the representative with IEC, ER, the Contractor and the ET was carried out on 29<sup>th</sup> January 2016. 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		Chahara	
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	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\3213-730-33797-01	13/11/2014	N/A	contaminated soil with spent lubricating oil)	
Effluent Discharge License und	Effluent Discharge License under Water Pollution Control Ordinance			
WT00019462-2014	8/7/2014	31/8/2019	Valid	
<b>Construction Noise Permit</b>				
N/A	N/A	N/A	N/A	

#### **Status of Waste Management**

3.5 There are 1.77 m<sup>3</sup> of 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 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

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 Observations and Recommendations of Site Audit

Parameters	Date	Observations	Remedial Actions
Water Quality	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A
Noise	N/A	N/A	N/A
Waste/ Chemical Management	N/A	N/A	N/A
Permit/ Licenses	N/A	N/A	N/A

#### **Summary of Exceedance**

3.8 No exceedance of monitoring result 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 related to the project 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.
- 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:
  - No key issue

#### **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 most updated version is provided by Contractor. The major construction activities were ended in August stated in the programme.

#### 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 Limit Level exceedance was recorded.
- 5.3 There was no environmental complaint received in the reporting month. No prosecution or notification of summons received.
- 5.4 This report is the last monthly EM&A report. According to the letter received dated 2 February 2016 (ref: NTE-ST2/458CL/117) from project proponent, CEDD, the captioned project is terminated on 31 January 2016. EM&A programme including noise monitoring and site audits are also terminated.

#### Recommendations

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

#### Water Quality

N/A

#### Air Quality

• N/A

Termination Letter dated 2 February 2016 (ref: NTE-ST2/458CL/117)



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77 Mody Road, Tsim Sha Tsui,

Kowloon, Hong Kong

#### **BY FAX 3107 1388 AND POST**

2 February 2016

Cinotech Consultants Limited, Room 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong (Attn: Dr. Priscilla Choy)

Dear Sirs,

Contract No. ST93/03

Sha Tin New Town Stage II **Environmental Team for Road T3 and Associated Roadworks** 

#### Proposal for Termination of Environmental Monitoring and Audit (EM&A) Programme (Contract No. ST/2013/01)

I refer to your letter dated 4 January 2016 regarding the captioned subject.

We have no objection to your proposal for termination of the Construction Phase EM&A programme for Road T3 works under Contract No. ST/2013/01 on 31 January 2016. Please notify EPD accordingly.

Yours faithfully,

(Stephen TSLI) for Project Manager (NTE)

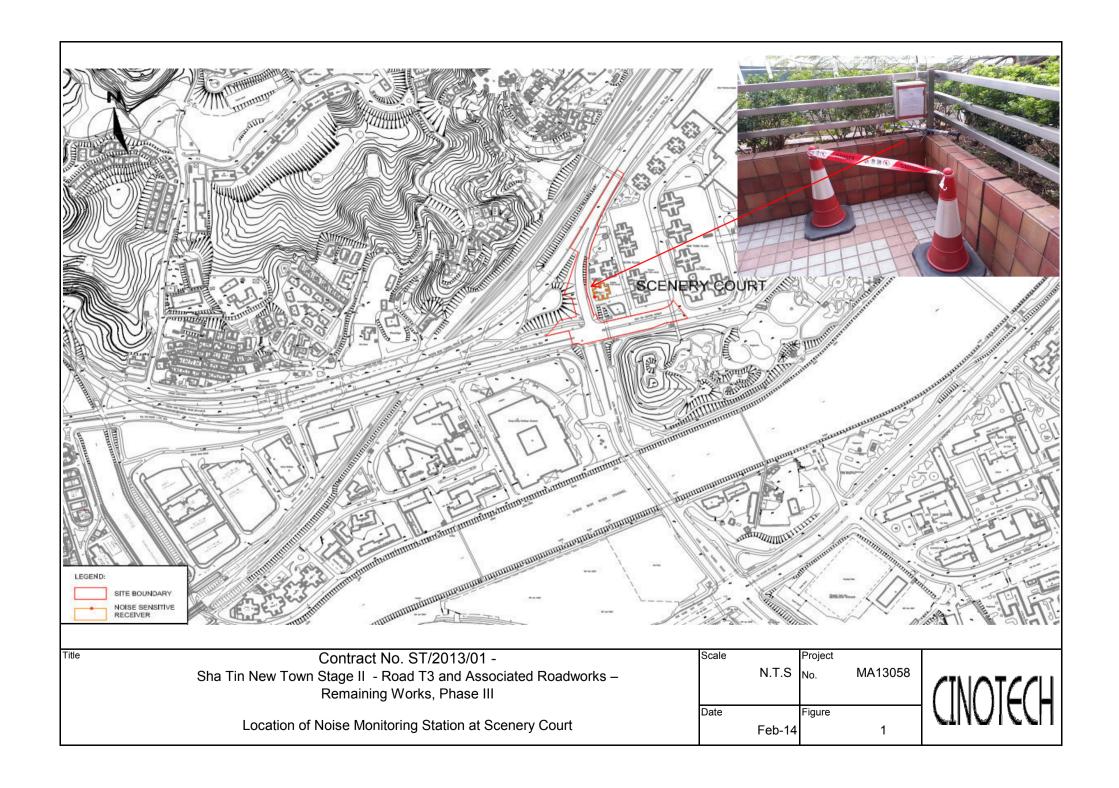
c.c.

AACL (Attn.: Mr Kelvin CHENG) Fax: 3922 9797 AACL (Attn.: Mr Ken WONG) Fax: 2687 2322 ANewR (Attn: Adi LEE) Fax: 3007 8648

卓越工程 建設香港

We Engineer Hong Kong's Development

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: Carrie Leung (Tel: 2151 2078)** 

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	Aug-15	Figure	2



## APPENDIX A ACTION AND LIMIT LEVEL

#### 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.

<sup>(\*)</sup> reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

#### APPENDIX B COPIES OF CALIBRATION CERTIFCATES



Rms 1516, 1701 & 1716, 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/151231 Date of Issue: 2016-01-04 Date Received: 2015-12-31 Date Tested: 2015-12-31 Date Completed: 2016-01-04 Next Due Date: 2017-01-03

ATTN:

Mr. W. K. Tang

Page:

1 of 1

#### **Certificate of Calibration**

#### Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 14303 : 35222

Microphone No. Equipment No.

: N-08-05

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 53%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### Results:

Remark:

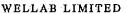
Reference S	et Point, dB	Instrument Readings, dB
9	4	94.0
1:	14	114.0

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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.





2016-08-23

1 of 1

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/150821/3
Date of Issue: 2015-08-24
Date Received: 2015-08-21
Date Tested: 2015-08-21
Date Completed: 2015-08-24

ATTN: Mr. W.K. Tang

#### **Certificate of Calibration**

#### Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Next Due Date:

Page:

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 21459 : 43676

Microphone No. Equipment No.

: N-08-08

#### Test conditions:

Room Temperatre

: 22 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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



WELLAB LIMITED 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/151127/3
Date of Issue: 2015-11-30
Date Received: 2015-11-27
Date Tested: 2015-11-27
Date Completed: 2015-11-30
Next Due Date: 2016-11-29

ATTN:

Mr. W.K. Tang

Page:

1 of 1

#### **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

: 24 degree Celsius

Relative Humidity

: 62%

#### **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



WELLAB LIMITED

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

Websitet 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/151003/1
Date of Issue:	2015-10-04
Date Received:	2015-10-03
Date Tested:	2015-10-03
Date Completed:	2015-10-04
Next Due Date:	2016-10-03

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

: 23 degree Celsius

Relative Humidity

: 57%

#### 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



WELLAB LIMITED

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/151003/3
Date of Issue:	2015-10-04
Date Received:	2015-10-03
Date Tested:	2015-10-03
Date Completed:	2015-10-04
Next Due Date:	2016-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

: 24791

Serial No.

Equipment No.

: N-09-04

#### Test conditions:

Room Temperatre

: 23 degree Celsius

Relative Humidity

: 57%

#### 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.



WELLAB LIMITED 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/150821/4
Date of Issue: 2015-08-24
Date Received: 2015-08-21
Date Tested: 2015-08-21
Date Completed: 2015-08-24
Next Due Date: 2016-08-23

ATTN:

Mr. W.K. Tang

Page:

1 of 1

#### **Certificate of Calibration**

#### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

#### Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 54%

#### 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 TŠE \\
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 2016

Noise	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Noise						1-Jan	2-Jan
Noise							
Noise							
Noise							
Noise							
Noise							
Noise	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan
10-Jan							
10-Jan							
10-Jan				Noise			
Noise				TVOISC			
Noise							
Noise	10.1	11 T	10.1	12.1	14.7	15.7	16.1
Noise   Nois	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
Noise   Nois							
Noise   Nois							
Noise  Noise  Noise  Noise  Noise			Noise				
Noise  Noise  Noise  Noise  Noise							
Noise  Noise  Noise  Noise  Noise							
24-Jan         25-Jan         26-Jan         27-Jan         28-Jan         29-Jan         30-Jan           Noise         Noise         Image: Control of the property	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
24-Jan         25-Jan         26-Jan         27-Jan         28-Jan         29-Jan         30-Jan           Noise         Noise         Image: Control of the property							
24-Jan         25-Jan         26-Jan         27-Jan         28-Jan         29-Jan         30-Jan           Noise         Noise         Image: Control of the property							
Noise Noise			Noise				
Noise Noise							
Noise Noise							
Noise Noise	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan
		Noise					
31-Jan		TVOISC					
31-Jan							
31-jaii	21 1						
	31-Jan						

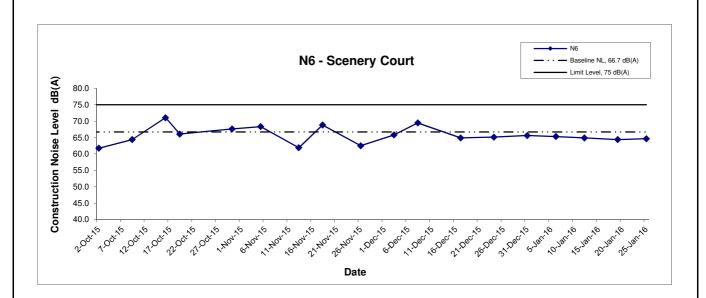
APPENDIX D NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

#### App D - Noise Monitoring Results

Location N6 - Scenery Court							
			Unit: dB (A) (30-min)				
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>
6-Jan-16	16:45	Sunny	65.3	66.6	64.0		65.3 Measured ≤ Baseline
12-Jan-16	17:00	Cloudy	68.9	71.6	66.2	66.7	64.9
19-Jan-16	11:00	Cloudy	68.7	69.8	67.3	64.4	64.4
25-Jan-16	16:00	Sunny	68.8	69.8	67.4		64.6

MA13058/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 16	Appendix D



#### APPENDIX E SUMMARY OF EXCEEDANCE

#### APPENIDX E – SUMMARY OF EXCEEDANCE

**Reporting Month:** January 2016

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	160108
Date	8 January 2016 (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	
	No environmental deficiency was identified during site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	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	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 151231), all environmental deficiencies were rectified by Contractor.	

Name	Signature	Date
Carrie Leung	Care	8 January 2016
Dr. Priscilla Choy	WI	8 January 2016
	Carrie Leung	Carrie Leung Co-e

## 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	160115
Date	15 January 2016 (Friday)
Time	16:00-17:00

		Related
Ref. No.	Non-Compliance	Item No.
	None identified	1
	•	Related
Ref. No.	Remarks/Observations	Item No.
	A. Water Quality	
	No environmental deficiency was identified during site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	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	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 160108), all environmental deficiencies were rectified by Contractor.	

	Name	Signature	Date
Recorded by	Carrie Leung	aire	18 January 2016
Checked by	Dr. Priscilla Choy		18 January 2016

#### 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	160122
Date	22 January 2016 (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	
	No environmental deficiency was identified during site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	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	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	Follow-up on previous site audit session (Ref. No. 160115), all environmental deficiencies were rectified by Contractor.	-

	Name	Signature	Date
Recorded by	Carrie Leung	a e	22 January 2016
Checked by	Dr. Priscilla Choy	· WI	22 January 2016

#### 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	160129
	29 January 2016 (Friday)
Time	10:00-11:45

		Related
Ref. No.	Non-Compliance	Item No.
	None identified	
		Related
Ref. No.	Remarks/Observations	Item No.
	A. Water Quality	
	No environmental deficiency was identified during site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	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	
	No environmental deficiency was identified during site inspection.	
	F. Others	
	• Follow-up on previous site audit session (Ref. No. 160122), no major environmental deficiencies were observed during last site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	air	29 January 2016
Checked by	Dr. Priscilla Choy	WI	29 January 2016

#### 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				
	<ol> <li>Undertake measurement to establish validity of complaint</li> <li>Identify the source(s) of the complaint</li> <li>Inform ER &amp; IEC in writing.         Discuss remedial actions required with ER &amp; IEC</li> <li>Increase monitoring frequency to assess efficacy of remedial measures</li> <li>If exceedance continues, meet with ER&amp;IEC to review implementation of appropriate mitigation measures</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol> <li>Review the analyzed results submitted by the ET</li> <li>Review the proposed remedial measures by the Contractor and advise the ER &amp; ET accordingly</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of complaint and notify Contractor if proven</li> <li>Check monitoring data trends and Contractor's working methods.</li> <li>Remind the Contractor of his Contractual obligations and discuss with ET, IEC and Contractor on proposed remedial actions.</li> <li>Assess the efficacy of remedial actions and keep the Contractor informed</li> <li>Inform complainant of actions</li> </ol>	<ol> <li>Submit proposals for remedial actions to ER within three working days of notification</li> <li>Amend proposals if required by the Engineer</li> <li>Implement the remedial actions immediately upon instruction</li> <li>Liaise with the ER to optimise the effectiveness of the agreed mitigation</li> <li>Amend proposal if appropriate</li> </ol>
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	<ol> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to ER within three working days of notification</li> <li>Amend proposals if required by the ER</li> <li>Implement remedial actions immediately upon instruction</li> <li>Liaise with the ER to optimize the effectiveness of the agreed mitigation</li> <li>Resubmit proposals if problem still not under control</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is aborted.</li> </ol>

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 /	<ul> <li>Where available, the Contractor shall use quiet items of PME or model of plants that are quieter than those specified in the EPD's</li> </ul>	Contractor	At active construction	Construction stage
2.3	Technical Memorandum (GW-TM) for undertaking construction works.		locations.	
	<ul> <li>Where practicable, the Contractor shall use movable noise barriers and avoid simultaneous noisy activities.</li> </ul>			
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 2016 (year)

		Actual Quanti		Materials Generate				Actual Quantities of	C&D Wastes G	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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
G.Total (Jan-Jun 2016)	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep	0.000	0.000	0.000	0.000	0.000	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
GTotal (Jul-Dec 2016)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

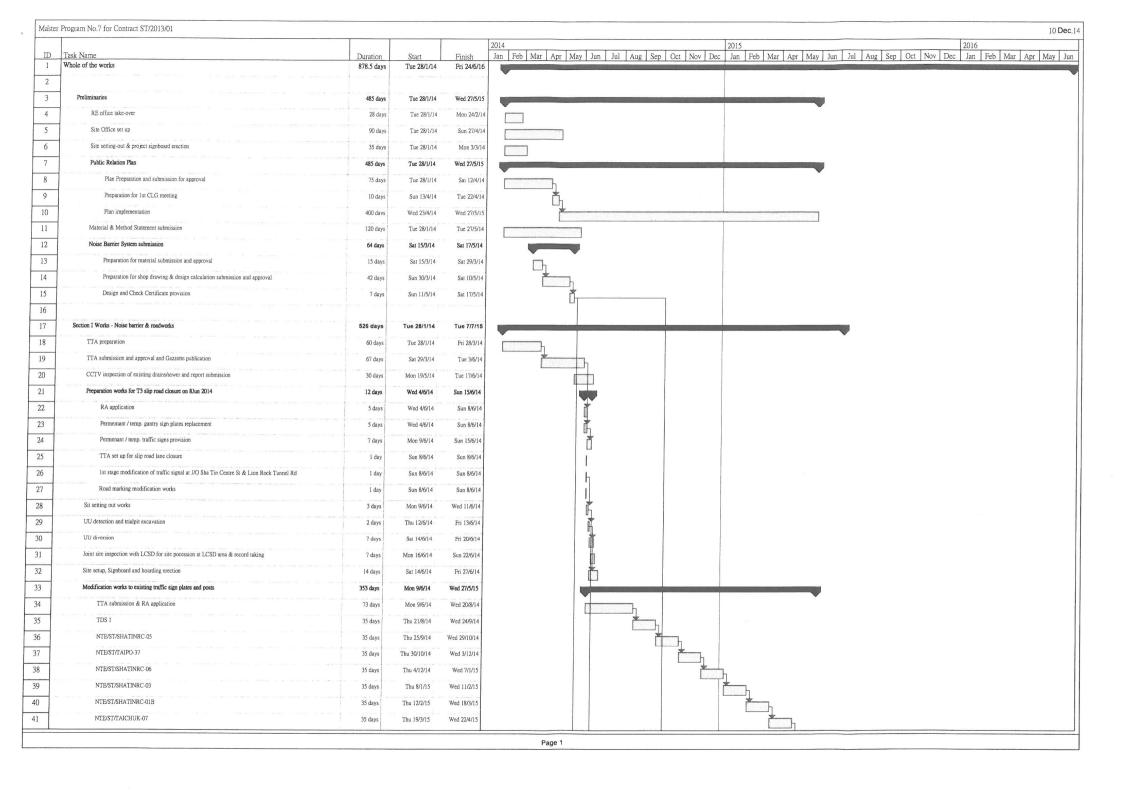
#### APPENDIX J COMPLAINT LOG

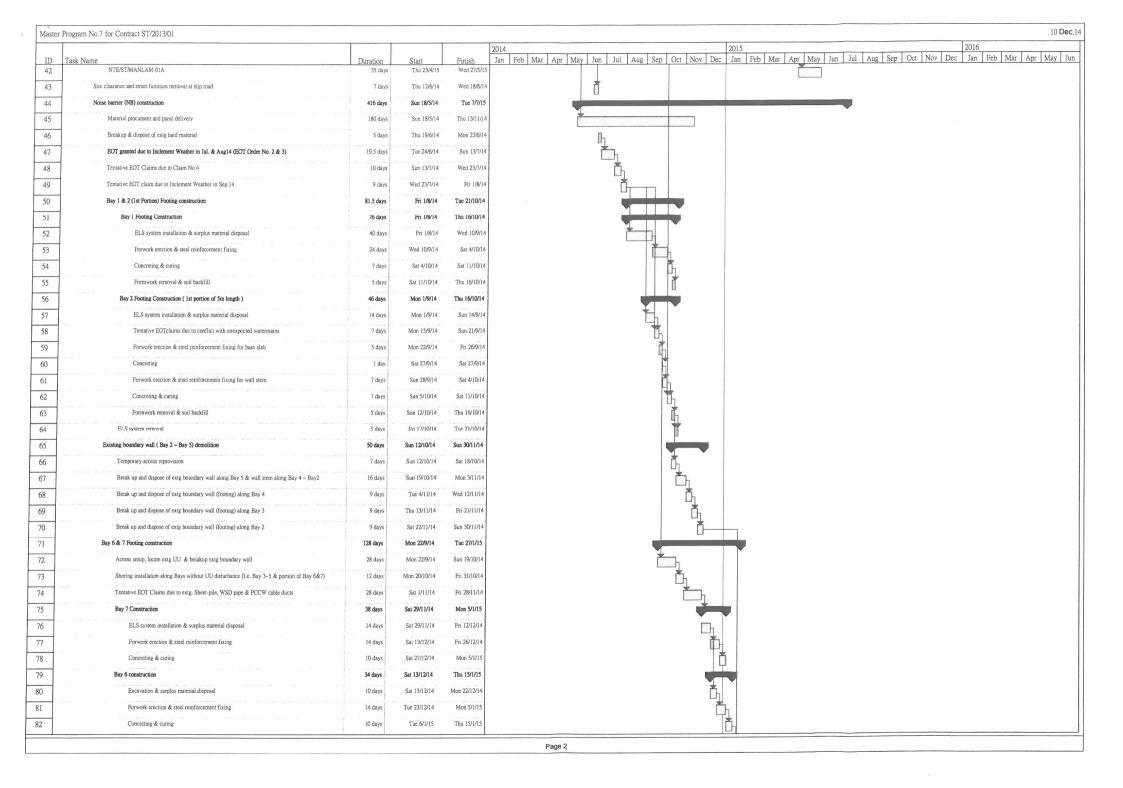
**Reporting Month**: January 2016

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Com- 2014-11- 01	Tai Po Slip Road	15 <sup>th</sup> 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 <sup>th</sup> November 2014 (Saturday). The complainant concerned about the noisy construction works conducted before 10 a.m.	Action  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	Closed
				commenced after 10 a.m. based on the requirement specified in the PS.	
Com- 2014-12- 01	Tai Po Slip Road	29 <sup>th</sup> December 2014	The complaint was received by Environmental Protection Department (EPD) (EPD Complaint Ref: RN32146-14) in the morning of 29 <sup>th</sup> 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 issue before 29th December 2014.	Closed

Log Ref.	Location	Received Date	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
				Improper effluent discharge was observed during the site inspections on 3 <sup>rd</sup> , 10 <sup>th</sup> and 22 <sup>nd</sup> 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 <sup>nd</sup> December 2014.	
				The improper effluent discharge was ceased as per the rectified photos given by the Contractor on 24 <sup>th</sup> December 2014, as well as during the site inspection on 6 <sup>th</sup> 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 <sup>th</sup> January 2015 and from the site inspection on 7 <sup>th</sup> January 2015.	

#### APPENDIX K CONSTRUCTION PROGRAMME





Waster Prop	ram No.7 for Contract ST/2013/01			
ID Tas	k Name	Duration	Start	Finish
83	Formwork removal & soil backfill	7 days	Fri 16/1/15	Thu 22/1/15
84	ELS system removal	5 days	Fri 23/1/15	Tue 27/1/15
85	Bay 4 & 5 Footing construction	52 days	Fri 23/1/15	Sun 15/3/15
86	Excavation & surplus material disposal	12 days	Fri 23/1/15	Tue 3/2/15
87	Forwork erection & steel reinforcement fixing	18 days	Wed 4/2/15	Sat 21/2/15
88	Concreting & curing	10 days	Sun 22/2/15	Tue 3/3/15
89	Formwork removal & soil backfill	7 days	Wed 4/3/15	Tue 10/3/15
90	ELS system removal	5 days	Wed 11/3/15	Sun 15/3/15
91	Bay 3 and 2 (2nd portion of 7m span) Footing construction	52 days	Mon 16/3/15	Wed 6/5/15
92	Excavation & surplus material disposal	12 days	Mon 16/3/15	Fri 27/3/15
93	Forwork erection & steel reinforcement fixing	18 days	Sat 28/3/15	Tue 14/4/15
94	Concreting & curing	10 days	Wed 15/4/15	Fri 24/4/15
95	Formwork removal & soil backfill	7 days	Sat 25/4/15	Fri 1/5/15
96	ELS system removal	5 days	Sat 2/5/15	Wed 6/5/15
97	Noise Barrier Sytem Steelwork Erection	140 days	Wed 28/1/15	Tue 16/6/15
98	Noise Barrier Panel, cladding and gutter fixing	21 days	Wed 17/6/15	Tue 7/7/15
99	New Sign Gantry construction	283 days	Mon 1/9/14	Wed 10/6/15
100	Shop drawing and E&M works submission and approval	150 days	Mon 1/9/14	Wed 28/1/15
101	Footing modification	21 days	Thu 7/5/15	Wed 27/5/15
102	Steelwork fabrication, delivery & erection	14 days	Thu 28/5/15	Wed 10/6/15
103	Drainage works	28 days	Thu 7/5/15	Wed 3/6/15
104	Carriageway construction	34 days	Thu 4/6/15	Tue 7/7/15
105	St lighting duct laying and street furniture provision	12 days	Thu 11/6/15	Mon 22/6/15
106	Irrigation system construction	7 days	Tue 23/6/15	Mon 29/6/15
107	Cycletracks & footpath construction	14 days	Tue 23/6/15	Mon 6/7/15
108	Landscaping works	27 days	Thu 11/6/15	Tue 7/7/15
109	2nd stage modification of traffic signal at J/O Sha Tin Centre St & Lion Rock Tunnel Rd	1 day	Tue 7/7/15	Tue 7/7/15
110	Joint site inspection with LCSD for handover posessed site	l day	Tue 7/7/15	Tue 7/7/15
111				