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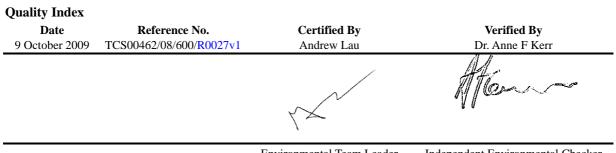
DRAINAGE SERVICES DEPARTMENT CONTRACT NO. DE/2005/05

SUPPLY AND INSTALLATION OF E&M EQUIPMENTS FOR NAM SANG WAI, SHA PO AND KAM TIN SEWAGE PUMPING STATIONS

MONTHLY ENVIRONMENTAL MONITORING & AUDIT (EM&A) REPORT FOR SEPTEMBER 2009 (No. 8)

PREPARED FOR

REC ENGINEERING COMPANY LIMITED



Environmental Team Leader Independent Environmental Checker

Version No.	Date	Remarks
1	9 October 2009	First Submission

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

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EXECUTIVE SUMMARY

- ES01. REC Engineering Company Limited has been awarded the DSD Contract No.: DE/2005/05 Supply and Installation of E&M Equipments for Nam Sang Wai, Sha Po and Kam Tin Sewage Pumping Stations. The Project requires an Environmental Monitoring and Audit (EM&A) program to be implemented by an Environmental Team (ET) throughout the contract period in accordance with the requirements as stated in the Environmental Permit (EP-220/2005), EIA Report, EM&A Manual (under the DC/2005/02 Contract – Designated Element) and the Particular Specifications (PS).
- ES02. Action-United Environmental Services and Consulting (AUES) has been commissioned by REC Engineering Company Limited (the Contractor) to be the Environmental Team (ET) to implement the EM&A program throughout the construction period.
- ES03. From the approved Baseline Monitoring Report (R0003 Revision 3), three nearest monitoring locations (AM5, AM6 and AM7) under the Contract DC/2005/02 would be adopted as the representative monitoring stations for this Project (Contract No.: DE/2005/05) which were agreed by the Engineer's Representative (ER) and the Independent Environmental Checker (IEC).
- ES04. This is the **eighth (8th)** Monthly Environmental Monitoring and Audit (EM&A) Report for **September 2009** presenting the EM&A program conducted from **1 to 30 September 2009** for the Contract No.: DE/2005/05. The EM&A program in **September 2009** covered air quality, construction noise and waste management only.

BREACH OF ACTION AND LIMIT (AL) LEVELS

- ES05. No 24-hour TSP monitoring results that triggered the Action and Limit Level were recorded in this month.
- ES06. No construction noise complaint (an Action Level exceedance) or exceedance of the Limit Level was recorded in this month.

COMPLAINT LOG

ES07. No environmental complaint was received in this month.

NOTIFICATION OF ANY SUMMONS AND SUCCESSFUL PROSECUTION

ES08. There was no environmental summons or prosecution notified this month.

REPORTING CHANGES

ES09. There are no changes in the reporting format or content to be reported in this month.

FUTURE KEY ISSUES

ES10. Construction activities undertaken in **October 2009** include carry out the equipment testing at both Sha Po and Kam Tin SPSs and installation of electrical service equipment, fire service equipment, deodorization units, sewage pumps, pipeworks & valves, penstocks and ventilation system at Nam Sang Wai SPS. Potential environmental impacts arising from the works include air quality, noise and water quality (particularly site runoff). Environmental mitigation measures will be properly implemented and maintained as per the Mitigation Implementation Schedule to ensure that site environmental performance is acceptable.



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1.0 INTRODUCTION

- 1.01 REC Engineering Company Limited has been awarded the DSD Contract No.: DE/2005/05 Supply and Installation of E&M Equipments for Nam Sang Wai, Sha Po and Kam Tin Sewage Pumping Stations, which forms part of the Yuen Long and Kam Tin Sewerage and Sewage Disposal PWP Item No. 215DS. The Project is for the provision of the supply and installation of electrical and mechanical installation in three Sewage Pumping Stations (SPS), namely Nam Sang Wai Sewage Pumping Station, Sha Po Sewage Pumping Station and Kam Tin Sewage Pumping Station. Layout plan showing the site boundary and work areas are shown in Annex A.
- 1.02 This is the **eighth (8th)** Monthly Environmental Monitoring and Audit (EM&A) Report for **September 2009** presenting the EM&A program conducted from **1 to 30 September 2009** for the Contract No.: DE/2005/05. The EM&A program in **September 2009** covered air quality, construction noise and waste management only.

PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

1.03 The organization chart and lines of communication with respect to the on-site management structure of the Project is shown in Annex B. The construction program for this project is shown in Annex C

CONSTRUCTION ACTIVITIES UNDERTAKEN IN THIS MONTH

1.04 The major construction activities undertaken during this month under the *Environmental Permit* (*EP-220/2005*) are shown in the **Table 1-1**.

Sewage Pumping Station	Construction Activities in this Month	
Nam Sang Wai	• Installation of electrical service equipment, fire service equipment,	
	deodorization units, penstocks and screens	
Sha Po	• Equipment testing	
Kam Tin	• Equipment testing	

REPORT STRUCTURE

1.05 The EM&A report is structured into the following sections:

SECTION 1	INTRODUCTION
SECTION 2	ENVIRONMENTAL STATUS
SECTION 3	SUMMARY OF EM&A REQUIREMENT
SECTION 4	STATUS OF ENVIRONMENTAL LICENSE AND PERMITS
SECTION 5	MONITORING METHODOLOGY AND RESULTS
SECTION 6	REPORT ON NON-COMPLIANCE, COMPLAINT, NOTIFICATIONS OF SUMMONS AND
	SUCCESSFUL PROSECUTIONS
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2.0 ENVIRONMENTAL STATUS

WORK UNDERTAKEN IN THIS MONTH WITH ILLUSTRATIONS

2.01 A summary of the work undertaken in this month with illustrations and environmental mitigation measures implemented is shown in Table 2-1.

Sewage Pumping Stations	Description of Construction Activities	Environmental Mitigation Measures	EM&A Ref.
Nam Sang Wai	 Building services installation works at the Transformer Room 	 Perform weekly inspection with ET and monthly audit with IEC Conduct noise and dust monitoring as per EM&A Manual during construction Implement trip-ticket system for waste disposal 	H1 1 & 2 D5
Sha Po	 Installation of lifting appliance Building services Fire services Pipework and valves Penstocks installation Ventilation system 	 Perform weekly inspection with ET and monthly audit with IEC Conduct noise and dust monitoring as per EM&A Manual during construction Implement trip-ticket system for waste disposal Restrict open fires and provide fire fighting equipment in the works area Apply and obtain appropriate waste disposal licenses 	H1 I1 & I2 D5 F9 D1
Kam Tin	 Installation of lifting appliance Building services Fire services Pipework and valves Penstocks installation Ventilation system 	 Maximize the use of quiet PME on site Implement trip-ticket system for waste disposal Restrict open fires and provide fire fighting equipment in the works area Conduct noise and dust monitoring as per EM&A Manual during construction Perform weekly inspection with ET and monthly audit with IEC 	B1, B2 D5 F9 I1 & I2 H1

 Table 2-1
 Works Undertaken and Illustrations of Mitigation Measures

PROJECT DRAWINGS

- 2.02 Drawings showing the work areas under EP-220/2005 and location of representative monitoring stations are presented in **Annex D**.
- 2.03 The monitoring points: AM5, AM6 & AM7, are the nearest stations for 24-hour TSP monitoring and NM3, NM6 & NM7 are the nearest locations for construction noise monitoring locations for this Project (Contract No.: DE/2005/05) as agreed by the Engineer's Representative (ER) and the Independent Environmental Checker (IEC). Locations of the monitoring stations and description are summary in the Table 2-2.

Table 2-2Description of Monitoring Stations

Station ID	Nature of Premise	Nearest Sewage Pumping Station	Station Coordinates
AM5	Site Boundary in FKH	Sha Po	835121 N 823515 E
AM6	Site Boundary in KT	Kam Tin	833308 N 823987 E
AM7	Site Boundary in NSW	Nam Sang Wai	836171 N 822586 E
NM3	Village House in NSW	Nam Sang Wai	835808 N 822817 E
NM6	Village House in KT	Kam Tin	833288 N 823999 E
NM7	Village House in FKH	Sha Po	835121 N 823495 E

2.04 During this month, impact monitoring was carried out at three designated air stations and three noise monitoring locations according to the monitoring schedule.



3.0 SUMMARY OF EM&A REQUIREMENTS

MONITORING PARAMETERS

- 3.01 Environmental monitoring and audit requirements are set out in the EM&A Manual under the DC/2005/02 Contract Designated Element. Air quality and construction noise have been identified as the key monitoring parameters during the construction phase of the project.
- 3.02 A summary of the impact EM&A requirements for air quality and construction noise as per the project EM&A Manual (under the DC/2005/02 Contract Designated Element) are shown in Table 3-1.

Environmental Issue	Monitoring Parameters		
Air Quality	24-hour TSP		
Construction Noise	Leq 30min day time 07:00 to 19:00 (Supplementary L10 and L90 for reference.)		

ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

3.03 A summary of the Action/Limit (A/L) Levels for air quality and construction noise is shown in Tables 3-2 and 3-3.

Table 3-2 Action and Limit Levels for Air Quality	Table 3-2	Action and Limit Lev	vels for Air Quality
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Monitoring Locations	Action Level (μg/m³)		Limit Level (μg/m³)	
Monitoring Locations	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
AM5	> 353	> 176	> 500	> 260
AM6	> 329	> 176	> 500	> 260
AM7	> 383	> 157	> 500	> 260

Table 3-3 Action and	Limit Levels for Construction Nois	е
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Monitoring Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one or more documented complaints are received	> 75 dB(A)

EVENT AND ACTION PLANS

3.04 An Event Action Plan for air quality and construction noise has been implemented for this project. Details of the Event Action Plan are presented in Annex E.

ENVIRONMENTAL MITIGATION MEASURES

3.05 The project EIA report has recommended environmental mitigation measures to minimize the potential impacts arising from the construction of the project. The environmental implementation mitigation schedule is shown in **Annex F**.

ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS

3.06 The environmental requirements in the contract documents conform to the requirements stipulated in the project EP (EP-220/2005) and the EM&A Manual under the DC/2005/02 Contract – Designated Element.



4.0 STATUS OF ENVIRONMENTAL LICENSE AND PERMITS

4.01 The status of permits, licenses, and/or notifications related to environmental protection during this month is presented in Table 4-1.

Table 4-1Status of Environmental Licenses and Permits

Item	Item Description	License/Permit Status
1	Environmental Permit No.: EP-220/2005	Issued in June 2005
2	Account for Disposal of Construction Waste No. 7003733	Registration on 16 May 2008



5.0 MONITORING METHODOLOGY AND RESULTS

MONITORING METHODOLOGY OF AIR QUALITY MONITORING

- 5.01 The 24-hour TSP monitoring was carried out by a High Volume Air Sampler (HVAS) in compliance with the EM&A Manual under the DC/2005/02 Contract Designated Element. The HVAS employed complies with the PS including.
 - Power supply of 220v/50 Hz for 24-hour continuous operation;
 - 0.6-1.7m³/min (20-60 SCFM) adjustable flow rate;
 - A 7-day mechanical timer for 24-hour operation;
 - An elapsed time indicator with ±2 minutes accuracy for 24-hour operation;
 - Minimum exposed area of 63in²;
 - Flow control accuracy of ±2.5% deviation over 24-hour operation;
 - An anodized aluminum shelter to protect the filter and sampler;
 - A motor speed-voltage control to control mass flow rate with accuracy of ±2.5% deviation over 24-hour sampling period;
 - Provision of a flow recorder for continuous monitoring;
 - Provision of a peaked roof inlet;
 - Incorporation with a manometer; and
 - An 8"x10" stainless steel filter holder to hold, seal and easy to change the filter paper.
- 5.02 The filter papers used in 24-hour TSP monitoring were of size 8"x10" and provided by a local HOKLAS-accredited laboratory, ALS Techichem Pty (HK) Limited (HOKLAS No. 66). The filters papers after measurements were returned to the laboratory for the required treatment and analysis. The validation of all monitoring practices and data were following the in-house QA/QC procedures. Blank filters samples were collected and delivered to the HOKLAS-accredited laboratory for QA/QC check.
- 5.03 The meteorological information in this month was obtained from Lau Fau Shan Station of the Hong Kong Observatory (HKO).

METHODOLOGY FOR CONSTRUCTION NOISE MONITORING

- 5.04 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level (Leq) measured in decibels (dB). Supplementary statistical results (L₁₀ and L₉₀) were also obtained for reference.
- 5.05 Hand-held sound level meters and associated acoustical calibrators in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications were used for taking the baseline noise measurements.
- 5.06 Windshield was fitted in all measurements. All noise measurements were made with the meter set to Fast response and on the A-weighted equivalent continuous sound pressure level (Leq).
- 5.07 No noise measurement was made in the presence of fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s.

LABORATORY AND MONITORING EQUIPMENT USED

- 5.08 A local HOKLAS-accredited laboratory, ALS Technichem (HK) Pty Ltd (HOKLAS No. 66), is responsible for the analytical testing of the 24-hour TSP filter papers.
- 5.09 Monitoring equipment used in the impact EM&A program is presented in Table 5-1.

Issue	Parameters	Monitoring Equipment
Air Quality	24-hour TSP	Greasby Anderson GMWS2310 High Volume Air Sampler
Noise	Leq(30mins)	B&K Sound Level Meter (Type 2238) & Acoustics Calibrator (Type 4231)

Table 5-1 Monitoring Equipment Used in Impact EM&A Program



EQUIPMENT CALIBRATION

- 5.10 Initial calibration of the HVAS was performed upon installation and thereafter at a six month intervals in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A). The calibration data are properly documented and the records are maintained by ET for future reference. No HVAS was required calibration in this month, monitoring equipment of HVS and sound level meter were required to calibrate in next month. Updated calibration schedule is shown in Annex G.
- 5.11 The sound level meters were calibrated using an acoustical calibrator prior to and after measurements. The meters are regularly calibrated in accordance with the manufacturer's instructions. Prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustical calibrator generating a known sound pressure level at a known frequency. Measurements were considered valid only if the calibration levels before and after the noise measurement agree to within 1.0 dB.
- 5.12 Calibration certificates of the sound level meters will provide depend on the annual calibration had undertaken.

PARAMETERS MONITORED

5.13 Monitoring parameters in this month were compliance with the EM&A requirements as stipulated in **Table 3-1**.

MONITORING LOCATIONS

- 5.14 Review the scope of works for this Project, the construction activities only localize at three Sewage Pumping Station (SPS). AM5, AM6 & AM7, are the nearest stations for 24-hour TSP monitoring and NM3, NM6 & NM7 are the nearest locations for construction noise monitoring locations for this Project (Contract No.: DE/2005/05) which were agreed by the Engineer's Representative and the Independent Environmental Checker.
- 5.15 Descriptions of the monitoring stations are summarized in **Table 5-2** and location plan are presented in **Annex D**.

Sewage Pumping Station	Monitoring Station/Location	Description
Air Quality (3 Station	s)	
Sha Po	AM5	Worksite boundary facing Fung Kat Heung
Kam Tin	AM6	Worksite boundary facing scattered near Route 3
Nam Sang Wai	AM7	Worksite boundary facing scattered house in Nam Sang Wai
Construction Noise (3 Locations)	
Sha Po	NM7	Fung Kat Heung
Kam Tin	NM6	Scattered House near Route 3
Nam Sang Wai	NM3	Village House in Nam Sang Wai

Table 5-2	Air Quality and Construction Noise Monitoring Stations/Locations
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MONITORING FREQUENCY AND PERIOD

- 5.16 The 24-hour TSP impact monitoring was conducted at the designated stations once every 6 days in compliance with the EM&A Manual (under the DC/2005/02 Contract Designated Element). In this month, **15** monitoring events of 24-hour TSP monitoring were conducted.
- 5.17 The impact noise monitoring was conducted at the designated stations once every 6 normal working days in compliance with the EM&A Manual under the DC/2005/02 Contract Designated Element. A total of **12** monitoring events were carried out in this month.



MONITORING RESULTS AND SCHEDULE

- 5.18 Monitoring results in this month for air quality and construction noise were summarized in Tables 5-3 to 5-6.
- 5.19 No exceedances of air quality monitoring were recorded in this reporting month.

Table 5-3	Summary	of Air Quality	/ Monitoring Results
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Date	24-hour TSP (μg/m³)							
Date	AM5	AM6	AM7					
3-Sep-09	155	53	80					
9-Sep-09	128	60	52					
15-Sep-09	168	42	41					
21-Sep-09	120	79	54					
26-Sep-09	185	40	14					
Average (Range)	151 (120-185)	55 (40-79)	48 (14-80)					
Action / Limit	> 237 / >260	> 183 / >260	> 204 / >260					

Notes: All 24-hour TSP monitoring were preset to start at 00:00 on each monitoring date. Bold and italic denotes exceedance of the Action Level.

Bold and underlined denotes exceedance of the Limit Level.

5.20 No construction noise complaint (Action Level) was received and no construction noise monitoring above the Limit Level was recorded in this month. Noise monitoring was cancelled due to the heavy rain condition on 16 September 2009.

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Summary of Noise Monitoring Results at NM3

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30	Corrected* Leq30
04-Sep-09	10:05	46.7	47.8	51.1	45.8	46.2	46.5	47.8	50.8
10-Sep-09	14:35	58.6	59.3	57.5	60.7	59.9	60.3	59.5	62.5
#16-Sep-09	-	-	-	-	-	-	-	-	-
22-Sep-09	15:00	53.4	54.6	56.4	52.4	55.9	54.9	54.8	57.8
28-Sep-09	09:15	62.6	63.4	62.7	63.2	62.4	62.7	62.8	65.8
Limit Lev	vel								75

Notes: * A façade correction of +3 dB(A) has been added according to acoustical principles and EPD guidelines. # Noise monitoring for 16 September 2009 was cancelled due to heavy rain condition.

 Table 5-5
 Summary of Noise Monitoring Results at NM6

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
04-Sep-09	11:29	53.9	53.5	54.2	53.3	53.3	54.7	53.8
10-Sep-09	11:27	56.3	54.8	55.5	55.0	54.6	54.1	55.1
#16-Sep-09	-	-	-	-	-	-	-	-
22-Sep-09	11:27	60.3	59.0	58.6	56.4	58.9	60.3	59.1
28-Sep-09	11:26	59.1	60.4	60.9	61.0	60.7	61.4	60.6
Limit Lev	/el							75

Limit Leve

Notes: * Noise monitoring was undertaken at the façade, correction was not necessary.

Noise monitoring for 16 September 2009 was cancelled due to heavy rain condition.

Table 5-6 Summary of Noise Monitoring Results at NM7

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
04-Sep-09	10:30	60.4	61.2	60.8	61.7	60.5	58.9	60.7
10-Sep-09	02:24	50.1	51.5	48.6	47.4	52.5	51.1	50.5
#16-Sep-09	-	-	-	-	-	-	-	-
22-Sep-09	09:20	53.2	51.7	56.1	49.7	52.4	51.9	53.0
28-Sep-09	10:00	56.7	57.4	57.2	56.2	56.8	57.2	56.9
Limit Lev							75	

Note: * Noise monitoring was undertaken at the façade, correction was not necessary.

Noise monitoring for 16 September 2009 was cancelled due to heavy rain condition.



5.21 The tentative monitoring schedule for the coming month (October 2009) is shown in Table 5-7.

Table 5-7	Tentative Schedule of Monitoring for the Next Month
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		-	
	Date	Air Quality	Noise Leq 30min
Thu	1-Oct-09		
Fri	2-Oct-09		
Sat	3-Oct-09		
Sun	4-Oct-09		
Mon	5-Oct-09		
Tue	6-Oct-09		
Wed	7-Oct-09		
Thu	8-Oct-09		
Fri	9-Oct-09		
Sat	10-Oct-09		
Sun	11-Oct-09		
Mon	12-Oct-09		
Tue	13-Oct-09		
Wed	14-Oct-09		
Thu	15-Oct-09		
Fri	16-Oct-09		
Sat	17-Oct-09		
Sun	18-Oct-09		
Mon	19-Oct-09		
Tue	20-Oct-09		
Wed	21-Oct-09		
Thu	22-Oct-09		
Fri	23-Oct-09		
Sat	24-Oct-09		
Sun	25-Oct-09		
Mon	26-Oct-09		
Tue	27-Oct-09		
Wed	28-Oct-09		
Thu	29-Oct-09		
Fri	30-Oct-09		
Sat	31-Oct-09		

Monitoring Day
Sunday or Public Holiday

WEATHER CONDITIONS DURING THE MONITORING MONTH

5.22 The meteorological data during the monitoring date are summarized in Annex H.

GRAPHICAL PLOTS OF TRENDS OF MONITORED PARAMETERS

5.23 The graphical plots of air quality and construction noise data are presented in Annex I.

WEATHER CONDITIONS THAT AFFECT THE MONITORING RESULTS

5.24 The weather conditions during the monitoring were considered acceptable for monitoring activities and did not have significant impacts on the monitoring results obtained.

OTHER FACTORS INFLUENCING THE MONITORING RESULTS

5.25 There were no other noticeable external factors generally affecting the monitoring results in this month.

QA/QC RESULTS AND DETECTION LIMITS

5.26 Not applicable.



6.0 REPORT ON NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

RECORD OF NON-COMPLIANCE OF ACTION AND LIMIT LEVELS

- 6.01~ No 24-hour TSP monitoring results that triggered the Action or Limit Level was recorded in this month.
- 6.02~ No construction noise complaint or monitoring noise level that exceeded the Limit Level was recorded in this month.

RECORD OF ENVIRONMENTAL COMPLAINTS RECEIVED

6.03 There was no environmental complaint received in this month.

RECORD OF NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTION

6.04 There was no notification of summons or prosecution received in this month.

REVIEW OF REASONS FOR AND IMPLICATIONS OF NC, COMPLAINTS AND NOS

6.05 No complaints or notification of summons was received in this month.

DESCRIPTION OF FOLLOW-UP ACTIONS TAKEN

- 6.06 As mentioned in Section 6.05, no non-compliance, complaints or notification of summons was received in this month. Therefore, no follow-up action was needed. The Contractor was reminded to implement the environmental mitigation measures presented in Table 2-1 as necessary.
- 7.0 OTHERS

FUTURE KEY ISSUES

7.01 Construction activities undertaken in **October 2009** include carry out the equipment testing at both Sha Po and Kam Tin SPSs and installation of electrical service equipment, fire service equipment, deodorization units, sewage pumps, pipeworks & valves, penstocks and ventilation system at Nam Sang Wai SPS. Potential environmental impacts arising from the works include air quality, noise and water quality (particularly site runoff). Environmental mitigation measures will be properly implemented and maintained as per the Mitigation Implementation Schedule to ensure that site environmental performance is acceptable.

SOLID AND LIQUID WASTE MANAGEMENT STATUS

7.02 The quantities of waste for disposal or reuse are summarized in Tables 7-1 and 7-2.

Type of Waste	Quantity	Disposal Location
C&D Materials (Inert) (tons) – Disposed	0	Tuen Mun 38 Fill Bank
C&D Materials (Inert) (tons) – Reused	0	DSD Contract DC/2005/02
C&D Materials (Non-Inert) (tons)	0	NA
General Refuse (tons)	5.2	Refuse Collector

 Table 7-1
 Summary of Waste Quantities for Disposal

Table 7-2	Summary	of Waste Quantities for Reuse/Recycl	ing

Type of Waste	Quantity	Disposal Location
Metals for Recycling (kg)	0	NA
Paper for Recycling (kg)	0	NA
Plastics for Recycling (kg)	0	NA

7.03 There was no site effluent or surface runoff discharged from the Project recorded in this month.



ENVIRONMENTAL INSPECTION AND AUDIT

- 7.04 Representatives of the Engineer, the Contractor and the ET carried out regular weekly site inspection on 1, 8, 17, 22 and 29 September 2009 to evaluate the site environmental performance. No non-compliance or observation was found in this month.
- 7.05 Summary of observations during the site inspection in this month are presented in Table 7-3.

Table 7-3Summary of the Site Observations

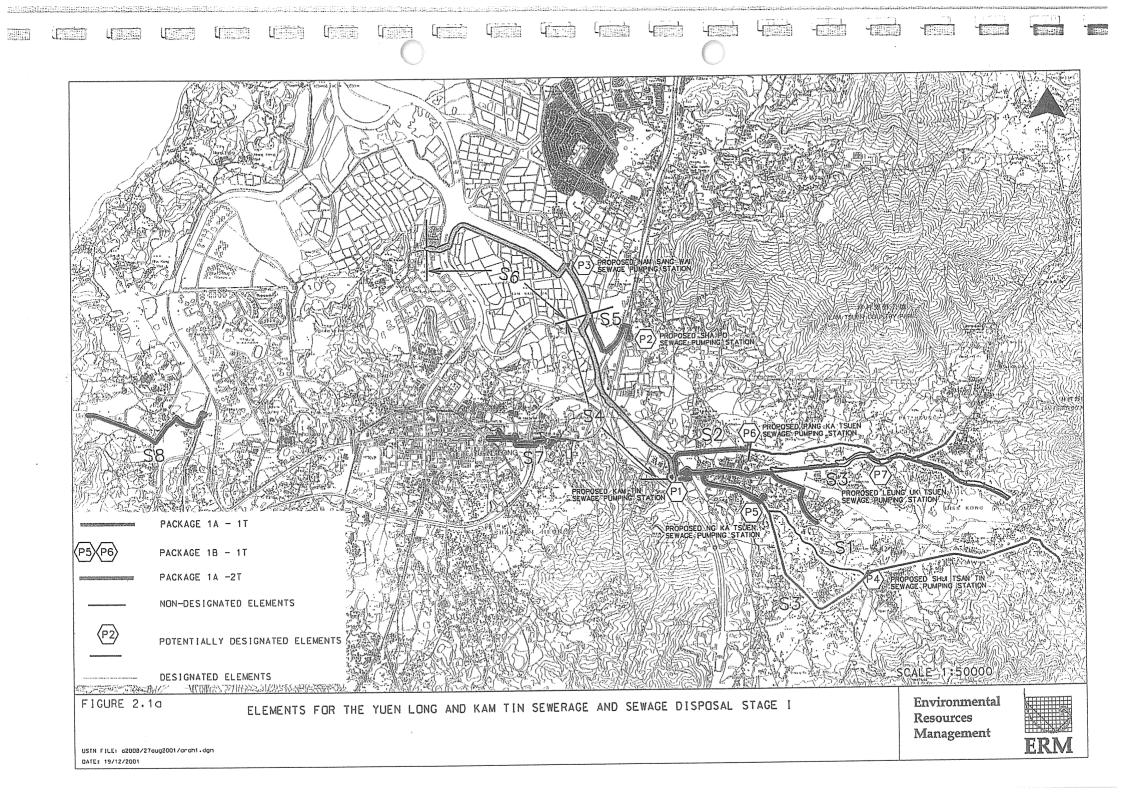
Inspection Date	Inspection/Audit Findings and Recommendation	Rectified on
1 September 2009	Muddy water cumulated at Nam San Wai pumping Station, the contractor was reminded to clean	8 September 2009
8 September 2009	The C&D waste scattered on the site at Sha Po Pumping Station should be disposed properly in order to maintain the site area clean and tidy. Stagnant water cumulated at Sha Po pumping Station should be cleaned to prevent mosquito breeding.	17 September 2009
17 September 2009	NA	NA
22 September 2009	NA	NA
29 September 2009	Surface runoff was observed at the public road near Nam San Wai pumping station, the contractor was reminded to provide sand bags to prevent surface runoff discharged	-

Note: * Joint IEC Monthly Site Audit. Please refer to DC/2005/02 Monthly EM&A Report (Designated Element) for details of the site audit.



ANNEX A

PROJECT SITE LAYOUT

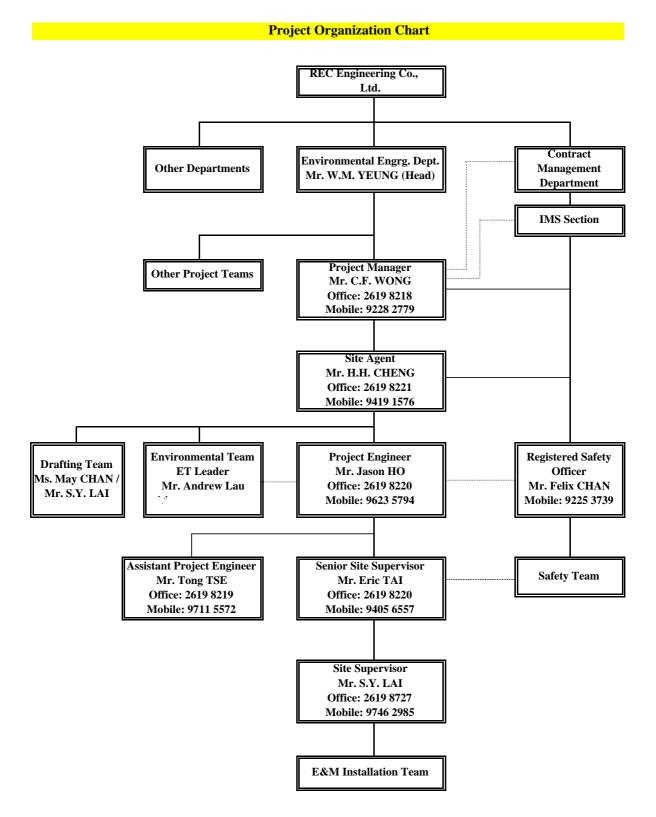




ANNEX B

PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

Contract No. DE/2005/05 S&I of E&M Equipment for Nam Sang Wai, Sha Po and Kam Tin Sewage Pumping Stations



Effective Date : 09 February 2009

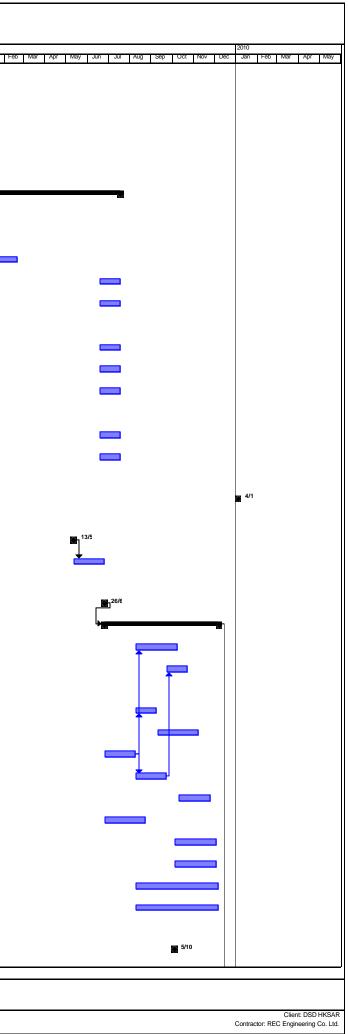


ANNEX C

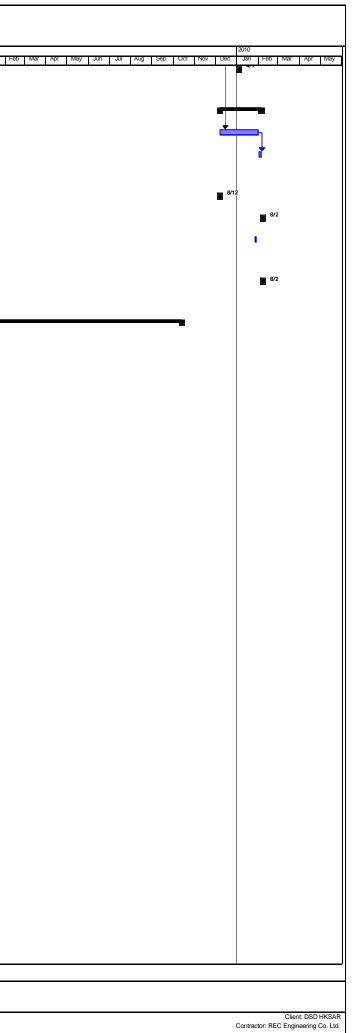
CONSTRUCTION PROGRAM

, ,	6	Task Name	Duration	Start	Finish	2007 Teb Mar Apr May Jun Jui Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jui Aug Sep Oct Nov Dec	2008 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov D	2009 ec Jan Heb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	2010 Jan Feb Mar Apr
		Contract Commencement Date		Mon 27/3/06					
		Section 1 Surge Analysis and Drawings Submission	120 days	Mon 27/3/06	Mon 24/7/06				
		Surge Analysis for 3 SPSs	90 days	Mon 27/3/06	Sat 24/6/06				
			90 days						
		Sewage Pumping Stations							
	11	Submission of GA Drawings, Equipment Layout Drawings, Electrical Schematic Drawings, Cable	90 days	Mon 27/3/06	Sat 24/6/06				
		Route Drawings, Electrical Services Drawings and PID							
1		Resubmission of above items	60 days	Fri 26/5/06	Mon 24/7/06				
	1	Approval of design works	0 days	Mon 24/7/06	Mon 24/7/06	24/7			
		Section 2 Works for Nam Sang Wai SPS		Mon 27/3/06	Mon 8/2/10				
_			days						
Ħ		Other Drawings Submission and Approval	180 days	Mon 27/3/06	Fri 22/9/06				
		Equipment Submission and Approval	240 days	Mon 27/3/06	Tue 21/11/06				
		Penstock and Actuator			Tue 21/11/06				
		Main sewage pump and VFD	240 days	Mon 27/3/06	Tue 21/11/06				
		Inlet Coarse Screen	240 days	Mon 27/3/06	Tue 21/11/06				
		Deodourising System	240 days	Mon 27/3/06	Tue 21/11/06				
		Lifting Appliance	240 days	Mon 27/3/06	Tue 21/11/06				
		Pipework and Valve	240 days	Mon 27/3/06	Tue 21/11/06				
		Measuring Instrument	240 days	Mon 27/3/06	Tue 21/11/06				
		LV Switchboard	240 days	Mon 27/3/06	Tue 21/11/06				
_		MACS, Telemetry and CCTV	240 days	Mon 27/3/06	Tue 21/11/06				
		Ventilation Fans	240 days	Mon 27/3/06	Tue 21/11/06				
		Building Services and Electrical Services	240 days	Mon 27/3/06	Tue 21/11/06				
		Equipment Fire Services Equipment			Tue 21/11/06				
			240 days	1001 27/3/00	100 21/11/00				
			040 1	Mr-d	Thu 40 5/07				
		Equipment Procurement and Manufacture	240 days	22/11/06		1			
1	11	Penstock and Actuator	240 days	Wed 22/11/06	Thu 19/7/07				
Ħ		Main sewage pump and VFD	240 days	Wed 22/11/06	Thu 19/7/07				
1		Inlet Coarse Screen	240 days	Wed 22/11/06	Thu 19/7/07				
Ħ		Deodourising System	240 days	Wed 22/11/06	Thu 19/7/07				
		Lifting Appliance	240 days	Wed 22/11/06	Thu 19/7/07				
		Pipework and Valve	240 days	Wed 22/11/06	Thu 19/7/07				
P	11	Measuring Instrument	240 days	Wed 22/11/06	Thu 19/7/07				
		LV Switchboard			Thu 19/7/07				
					Thu 19/7/07				
	##	Ventilation Fans	240 days	vved 22/11/06	Thu 19/7/07				
24/		Task	Progre	ss		Summary Roled Up Split Roled Up Progress Project Summary Project Summary	Deadline		

	Task Name Building Services and Electrical Services	Duration 240 days	Start Wed 22/11/06	Finish Thu 19/7/07	Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	2007 Jan Feb Mar Apr May Jun	Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May J	Jun Jul Aug Sep Oct Nov
	Equipment						_		
	Fire Services Equipment	240 days	Wed 22/11/06	Thu 19/7/07					
	Application of CLP Power Supply	0 days	Tue 27/3/07	Tue 27/3/07		27/3			
	Application of Telephone Line	0 days	Tue 27/3/07	Tue 27/3/07		27/3			
3	Equipment Delivery	437 days	Thu 8/5/08	Sat 18/7/09					
9	Penstock and Actuator	30 days	Thu 18/12/08	Fri 16/1/09					
) 📰	Main sewage pump and VFD	30 days	Thu 8/5/08	Fri 6/6/08					
	Inlet Coarse Screen	30 days	Thu 22/1/09	Fri 20/2/09					
2	Deodourising System	30 days							
3	Lifting Appliance	30 days							
1	Pipework and Valve	30 days							
5	Measuring Instrument	30 days	Fri 19/6/09	Sat 18/7/09					
6	LV Switchboard	30 days	Fri 19/6/09	Sat 18/7/09					
/	MACS, Telemetry and CCTV	30 days	Fri 19/6/09	Sat 18/7/09					
в 🔳	Ventilation Fans	30 days	Wed 29/10/08	Thu 27/11/08					
9 🔳	Building Services and Electrical Services	30 days	Fri 19/6/09	Sat 18/7/09					
D 📰	Equipment Fire Services Equipment	30 days	Fri 19/6/09	Sat 18/7/09					
1			11110/0/00						
2	Submission of Form 314 for Fire Services	0 days	Mon 4/1/10	Mon 4/1/10					
		0 days	1011 4/ 1/ 10	1011 4/ 1/ 10					
3				140/5/00					
4	1st stage Site Take Over Date for Section 2	0 days							
5 🏢	Site Installation at CLP Tx Room	45 days	Wed 13/5/09	Fri 26/6/09					
6									
	2nd stage Site Take Over Date for Section 2	0 days	Fri 26/6/09	Fri 26/6/09					
	Site Installation at Other Locations	165 days	Fri 26/6/09	Mon 7/12/09					
•	Penstock and Actuator	60 days	Mon 10/8/09	Thu 8/10/09					
	Main sewage pump and VFD	30 days	Thu 24/9/09	Fri 23/10/09					
I									
2	Inlet Coarse Screen	30 days	Mon 10/8/09	Tue 8/9/09					
3	Deodourising System	60 days	Thu 10/9/09	Sun 8/11/09					
4	Lifting Appliance	45 days	Fri 26/6/09	Sun 9/8/09					
5	Pipework and Valve	45 days		Wed 23/9/09					
6	Measuring Instrument			Wed 25/11/09					
7	LV Switchboard	60 days	Fri 26/6/09	Mon 24/8/09					
в 🔳	MACS, Telemetry and CCTV	60 days	Mon 5/10/09	Thu 3/12/09					
, 🔳	Ventilation Fans and air ducts	60 days	Mon 5/10/09	Thu 3/12/09					
	Building Services and Electrical Services	120 days	Mon 10/8/09	Mon 7/12/09					
	Equipment Fire Services Equipment	120 days	Mon 10/8/09	Mon 7/12/09					
2									
3	Tentative CLP Electricity Energisation	0 days	Mon 5/10/09	Mon 5/10/09					



							2007	2008
) () +	_	Name Submission of Form 501 for Fire Services	Duration 0 days	Start Mon 4/1/10		b Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
5								
;			00 1000	Tu: 0/10/00	Fri 5/2/10			
		Testing and Commissioning	60 days					
		Equipment testing	56 days	Tue 8/12/09	Mon 1/2/10			
		Tentative 3-days wet commissioning	4 days	Tue 2/2/10	Fri 5/2/10			
)		Submission of Draft O & M manual	0 days	Tue 8/12/09	Tue 8/12/09			
		Submission of Final O & M manual	0 days	Mon 8/2/10	Mon 8/2/10			
2	1	Training of Employer's Staff	3 davs	Wed 27/1/10	Fri 29/1/10			
3								
- 1		Completion of Section 2	0 days	Mon 8/2/10	Mon 8/2/10			
5								
6	Sect	ion 3 Works for Sha Po SPS	1297	Mon 27/3/06	Wed 14/10/09			
7			days			_		
3 💼		Other Drawings Submission and Approval	180 davs	Mon 27/3/06	Fri 22/9/06			
0	-	Equipment Submission and Approval	240 days	Mon 27/3/06	Tue 21/11/06			
11		Penstock and Actuator			Tue 21/11/06			
			240 days					
2		Main sewage pump and VFD		Mon 27/3/06				
3		Inlet Coarse Screen		Mon 27/3/06				
4		Deodourising System	240 days	Mon 27/3/06	Tue 21/11/06			
5		Lifting Appliance	240 days	Mon 27/3/06	Tue 21/11/06	ŀ		
6		Pipework and Valve	240 days	Mon 27/3/06	Tue 21/11/06	ŀ		
7		Measuring Instrument	240 days	Mon 27/3/06	Tue 21/11/06	ŀ		
8		LV Switchboard	240 days	Mon 27/3/06	Tue 21/11/06			
9		MACS, Telemetry and CCTV	240 days	Mon 27/3/06	Tue 21/11/06	· · · · · · · · · · · · · · · · · · ·		
0		Calcium Nitrate Dosing System	240 days	Mon 27/3/06	Tue 21/11/06	L		
1 🔳		Ventilation Fans	240 days	Mon 27/3/06	Tue 21/11/06			
2		Building Services and Electrical Services	240 days	Mon 27/3/06	Tue 21/11/06			
3		Equipment Fire Services Equipment		Mon 27/3/06				
4			240 days	1110112170700				
5								
6								
,	E	Equipment Procurement and Manufacture	240 days	Wed	Thu 19/7/07		<u>_</u>	
в 🎫		Penstock and Actuator		22/11/06 Wed 22/11/06		7		
•		Main sewage pump and VFD		Wed 22/11/06				
) 1		Inlet Coarse Screen		Wed 22/11/06				
1		Deodourising System	240 days	Wed 22/11/06	Thu 19/7/07			
2		Lifting Appliance	240 days	Wed 22/11/06	Thu 19/7/07	Ť.		
3		Pipework and Valve	240 days	Wed 22/11/06	Thu 19/7/07	t		
4		Measuring Instrument	240 days	Wed 22/11/06	Thu 19/7/07			
5		LV Switchboard	240 days	Wed 22/11/06	Thu 19/7/07	• • • • • • • • • • • • • • • • • • •		
		Task	Progre			ummary Rolled Up Split	Rolled Up Progress Project Summary	Deadine



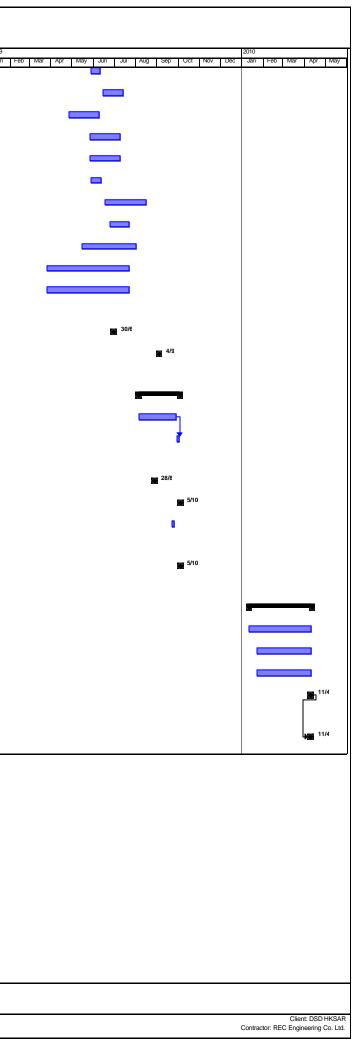
1 Task Name	Duration	Start	Finish		2008 C. Jan Feb I Mar For I May Liun I Jul Faug I Sep FOCT I Nov I Der	
MACS, Telemetry and CCTV		Wed 22/11/06		Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov De	with the max out out out out out the bet	roo mon right innay our our roug dep out NOV
Calcium Nitrate Dosing System	240 days	Wed 22/11/06	Thu 19/7/07			
Ventilation Fans	240 days	Wed 22/11/06	Thu 19/7/07			
Building Services and Electrical Services	240 days	Wed 22/11/06	Thu 19/7/07			
Equipment Fire Services Equipment	240 days	Wed 22/11/06	Thu 19/7/07			
Application of CLP Power Supply	0 days	Tue 27/3/07	Tue 27/3/07	27/3		
Application of Telephone Line	0 days	Tue 27/3/07	Tue 27/3/07	2//3		
Equipment Delivery	459 days	Tue 19/2/08	Fri 22/5/09		-	_
Penstock and Actuator	30 days	Mon 9/2/09	Tue 10/3/09			
Main sewage pump and VFD		Sat 10/5/08				
Inlet Coarse Screen		Tue 19/2/08				
Deodourising System	-	Thu 23/4/09				
Lifting Appliance	30 days					
					_	
Pipework and Valve		Wed 20/8/08				
Measuring Instrument		Thu 23/4/09				
LV Switchboard	30 days					
MACS, Telemetry and CCTV	30 days					
Calcium Nitrate Dosing System	30 days	Mon 27/10/08	Tue 25/11/08			
Ventilation Fans	30 days	Wed 29/10/08	Thu 27/11/08		_	
Building Services and Electrical Services Equipment	30 days	Thu 19/3/09	Fri 17/4/09			
Fire Services Equipment	30 days	Thu 19/3/09	Fri 17/4/09			
Submission of Form 314 for Fire Services	0 days	Mon 14/9/09	Mon 14/9/09			14/9
1st stage Site Take Over Date for Section 3	0 days	Tue 17/2/09				
Site Installation at CLP Tx Rm	45 days	Tue 17/2/09	Thu 2/4/09			
2nd stage Site Take Over Date for Section 3	0 days					1 1 1 1 1 1 1 1 1 1
Site Installation at Other Locations	133 days	Fri 3/4/09	Thu 13/8/09			Ч _{ан}
Penstock and Actuator	60 days	Mon 20/4/09	Thu 18/6/09			
Main sewage pump and VFD	45 days	Mon 4/5/09	Wed 17/6/09			
Inlet Coarse Screen	14 days	Fri 29/5/09	Thu 11/6/09			
Deodourising System	60 days	Mon 15/6/09	Thu 13/8/09			
Lifting Appliance	35 days	Mon 27/4/09	Sun 31/5/09			
Pipework and Valve	30 days	Mon 4/5/09	Tue 2/6/09			
Measuring Instrument	45 days	Wed 27/5/09	Fri 10/7/09			
LV Switchboard	30 days	Thu 30/4/09	Fri 29/5/09			
	1		1			

	Task Name	Duration	Start	Finish Teb Mar Apr May Jun Jul Aug Sep Oct Ni	2007 ov Dec Jan Heb Mar Apr May Jun Jul Aug Sep Oct Nov	2008 Dec Jan Heb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	2009 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov
	MACS, Telemetry and CCTV	60 days	Fri 12/6/09				
	Calcium Nitrate Dosing System	30 days	Fri 26/6/09	Sat 25/7/09			
	Ventilation Fans and air ducts	90 days	Fri 15/5/09	Wed 12/8/09			
	Building Services and Electrical Services	120 days	Fri 3/4/09	Fri 31/7/09			
	Equipment						
	Fire Services Equipment	120 days	Fri 3/4/09	Fri 31/7/09			
_							
_	Tentative CLP Electricity Energisation	0 days	Wed 15/7/09	Wed 15/7/09			15/7
				Mon 14/9/09			14/9
	Submission of Form 501 for Fire Services	0 days	10101114/9/09				
	Testing and Commissioning	60 days		Mon 12/10/09			
1	Equipment testing	56 days	Fri 14/8/09	Thu 8/10/09			
	Tentative 3-days wet commissioning	4 days	Fri 9/10/09	Mon 12/10/09			t t
				1			
	Submission of Draft O & M manual	0 days	Fri 28/8/09	Fri 28/8/09			28/8
	Submission of Final O & M manual	0 days	Wed 14/10/09	Wed 14/10/09			14/10
	Training of Employer's Staff	3 days	Tue 6/10/09	Thu 8/10/09			
	Completion of Section 3	0 days		Wed 14/10/09			14/10
			14/10/09				
	Section 4 Works for Kam Tin SPS		Mon 27/3/06	Mon 5/10/09			
		days					
	Other Drawings Submission and Approval	180 days	Mon 27/3/06	Fri 22/9/06			
	Surge analysis report submission and approval			Mon 24/7/06			
_	 A transmission address 						
	Equipment Submission and Approval	240 dave	Mon 27/3/06	Tue 21/11/06	-		
	Penstock and Actuator			Tue 21/11/06	1		
	Main sewage pump and VFD			Tue 21/11/06	1		
	Inlet Coarse Screen			Tue 21/11/06	P		
	Deodourising System	240 days	Mon 27/3/06	Tue 21/11/06	2		
	Lifting Appliance	240 days	Mon 27/3/06	Tue 21/11/06	P		
	Pipework and Valve	240 days	Mon 27/3/06	Tue 21/11/06	a		
	Measuring Instrument	240 days	Mon 27/3/06	Tue 21/11/06	a		
	LV Switchboard	240 days	Mon 27/3/06	Tue 21/11/06	3		
	MACS, Telemetry and CCTV	240 days	Mon 27/3/06	Tue 21/11/06	a		
	Ventilation Fans			Tue 21/11/06			
	Building Services and Electrical Services Equipment			Tue 21/11/06			
l	Fire Services Equipment	240 days	Mon 27/3/06	Tue 21/11/06	1		
				1			
	Equipment Procurement and Manufacture	240 days	Wed 22/11/06	Thu 19/7/07			
	Penstock and Actuator	240 days	Wed 22/11/06	Thu 19/7/07			
_				I		1	1

0	Task Name	Duration	Start Finish Feb Ma	Apr May Jun Jul Aug Sep Oct	2007 Nov Dec Jan Feb Mar Apr	May Jun Jul Aug Sep Oct Nov	2008 Dec Jan Feb Mar Apr Ma	iy Jun Jul Aug Sep Oct No	2009 v Dec Jan Feb Mar Apr May	Jun Jul Aug Sep Oct Nov Da	c Jan
Ē	Main sewage pump and VFD		Wed 22/11/06 Thu 19/7/07								
	Inlet Coarse Screen	240 days	Wed 22/11/06 Thu 19/7/07		¢						
	Deodourising System	240 days	Wed 22/11/06 Thu 19/7/07								
	Lifting Appliance	240 days	Wed 22/11/06 Thu 19/7/07								
+	Pipework and Valve	240 days	Wed 22/11/06 Thu 19/7/07		-						
	Measuring Instrument	240 days	Wed 22/11/06 Thu 19/7/07		•						
+	LV Switchboard	240 days	Wed 22/11/06 Thu 19/7/07		•						
+	MACS, Telemetry and CCTV	240 days	Wed 22/11/06 Thu 19/7/07								
+	Ventilation Fans	240 days	Wed 22/11/06 Thu 19/7/07								
\square	Building Services and Electrical Services	240 days	Wed 22/11/06 Thu 19/7/07								
	Equipment Fire Services Equipment	240 days	Wed 22/11/06 Thu 19/7/07								
+											
+	Application of CLP Power Supply	0 days	Tue 27/3/07 Tue 27/3/07		27/3						
	Application of Telephone Line	0 days	Tue 27/3/07 Tue 27/3/07		27/3						
+											
+	Equipment Delivery	358 days	Fri 30/5/08 Fri 22/5/09								
	Penstock and Actuator	30 days	Mon 9/2/09 Tue 10/3/09								
+	Main sewage pump and VFD	30 days	Fri 30/5/08 Sat 28/6/08								
+	Inlet Coarse Screen	30 days	Tue 1/7/08 Wed 30/7/08								
_	Deodourising System	30 days	Wed 19/11/08 Thu 18/12/08								
	Lifting Appliance	30 days	Thu 5/3/09 Fri 3/4/09								
	Pipework and Valve	30 days	Wed 20/8/08 Thu 18/9/08								
_	Measuring Instrument	30 days	Thu 23/4/09 Fri 22/5/09								
	LV Switchboard		Thu 23/4/09 Fri 22/5/09								
-	MACS, Telemetry and CCTV		Thu 23/4/09 Fri 22/5/09								
-	Ventilation Fans		Wed 29/10/08 Thu 27/11/08								
_	Building Services and Electrical Services		Sat 7/2/09 Sun 8/3/09								
+	Equipment Fire Services Equipment		Sat 7/2/09 Sun 8/3/09								
_	Submission of Form 314 for Fire Services	0 days	Fri 4/9/09 Fri 4/9/09							4/9	
_											
-	1st stage Site Take Over Date for Section 4	0 days	Sat 7/2/09 Sat 7/2/09						1 / ^{1/2}		
+	Site Installation at CLP Tx Room	45 days	Sat 7/2/09 Mon 23/3/09								
+											
+											
+											
	2nd stage Site Take Over Date for Section 4	0 days	Wed 25/3/09 Wed 25/3/09						25/3		
+	Site Installation at Other Locations	144 days	Thu 26/3/09 Sun 16/8/09								
+	Penstock and Actuator	60 days	Mon 20/4/09 Thu 18/6/09							-	
+											
	Main sewage pump and VFD	30 days	Wed 27/5/09 Thu 25/6/09								
t											
_		l			I		1		1		

0	Task Name	Duration	Start	Finish	2007 1ar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Heb Mar Apr May Jun Jul Aug Sep Oct Nov I	2008 Jec Jan Heb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
	Inlet Coarse Screen	14 days		Thu 11/6/09		
	Deodourising System	30 days	Mon 15/6/09	Tue 14/7/09		
	Lifting Appliance	45 days	Mon 27/4/09	Wed 10/6/09		
	Pipework and Valve	45 days	Wed 27/5/09	Fri 10/7/09		
	Measuring Instrument	45 days	Wed 27/5/09	Fri 10/7/09		
	LV Switchboard	15 days	Fri 29/5/09	Fri 12/6/09		
	MACS, Telemetry and CCTV	60 days	Thu 18/6/09	Sun 16/8/09		
	Calcium Nitrate Dosing System	30 days	Wed 24/6/09	Thu 23/7/09		
	Ventilation Fans and air ducts	80 days	Fri 15/5/09	Sun 2/8/09		
	Building Services and Electrical Services	120 days	Thu 26/3/09	Thu 23/7/09		
	Equipment Fire Services Equipment	120 days	Thu 26/3/09	Thu 23/7/09		
_						
	Tentative CLP Electricity Energisation	0 days	Tue 30/6/09	Tue 30/6/09		
	Submission of Form 501 for Fire Services	0 days		Fri 4/9/09		
		,0				
	Testing and Commissioning	60 days	Wed 5/8/09	Sat 3/10/09		
	Equipment testing	56 days		Tue 29/9/09		
	Tentative 3-days wet commissioning		Wed 30/9/09			
	Tentalive 5-uays wet commissioning	4 uays	1160 30/3/03	Sat 3/10/03		
	Submission of Draft O & M manual	0 days	Fri 28/8/09	Fri 28/8/09		
	Submission of Final O & M manual		Mon 5/10/09			
	Training of Employer's Staff	3 days	Wed 23/9/09	Fri 25/9/09		
	Completion of Section 4	0 days	Mon 5/10/09	Mon 5/10/09		
	Section 5 Remaining Works			Sun 11/4/10		
	Provision of Workshop Equipment for Nam Sang Wai SPS	90 days		Sun 11/4/10		
	Provision of Portable and Miscellaneous Equipment for 3 SPSs	79 days	Sat 23/1/10	Sun 11/4/10		
	Provision of minimum spare parts for 3 SPSs	79 days	Sat 23/1/10	Sun 11/4/10		
	Completion of Section 5	0 days	Sun 11/4/10	Sun 11/4/10		
	Project Completion Date	0 days	Sun 11/4/10	Sun 11/4/10		

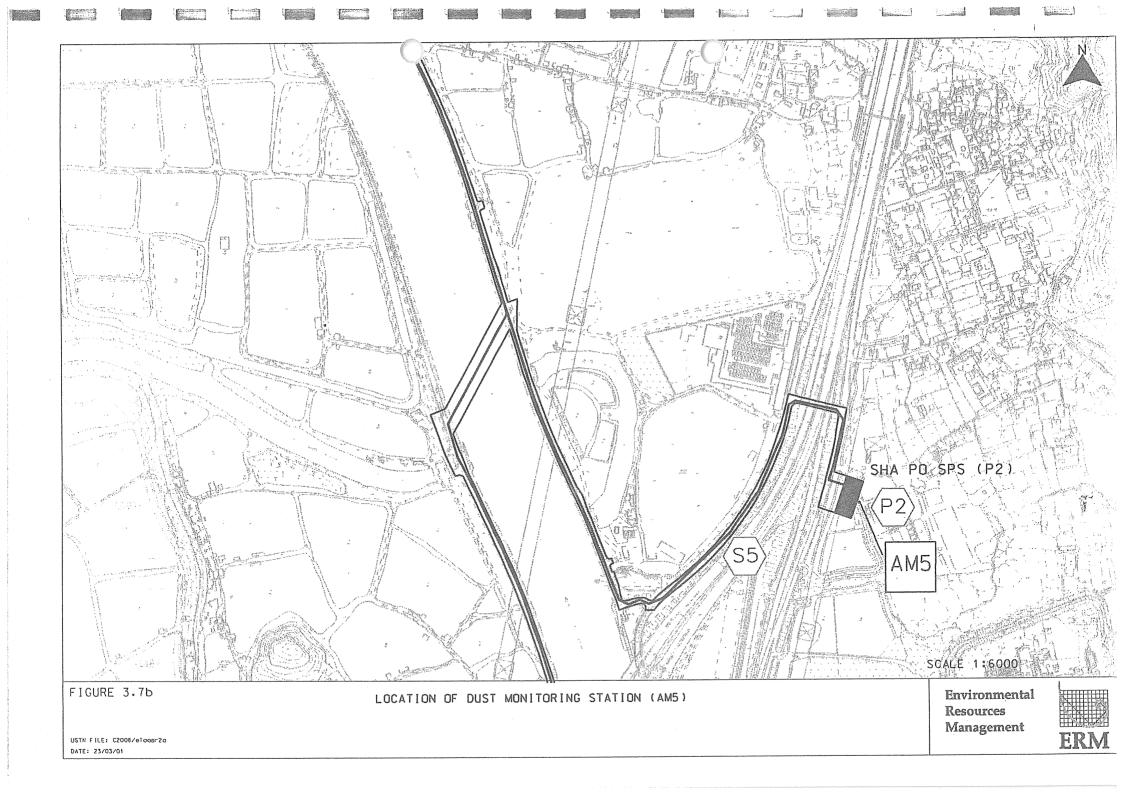
Date: 24/4/2009	Task Split		Summary Rolled Up Task	 Rolled Up Split Rolled Up Milestone	Rolled Up Progress External Tasks		Project Summary External Milestone	Deadline	æ	
						Page 7				

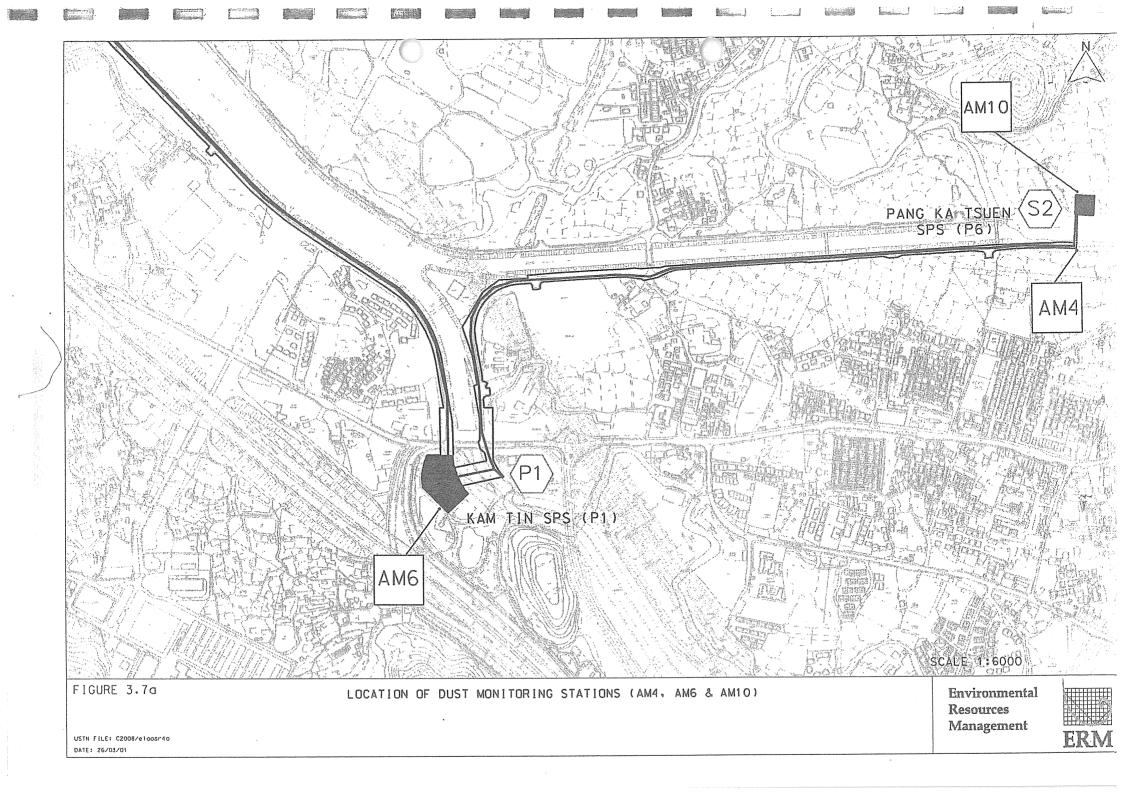


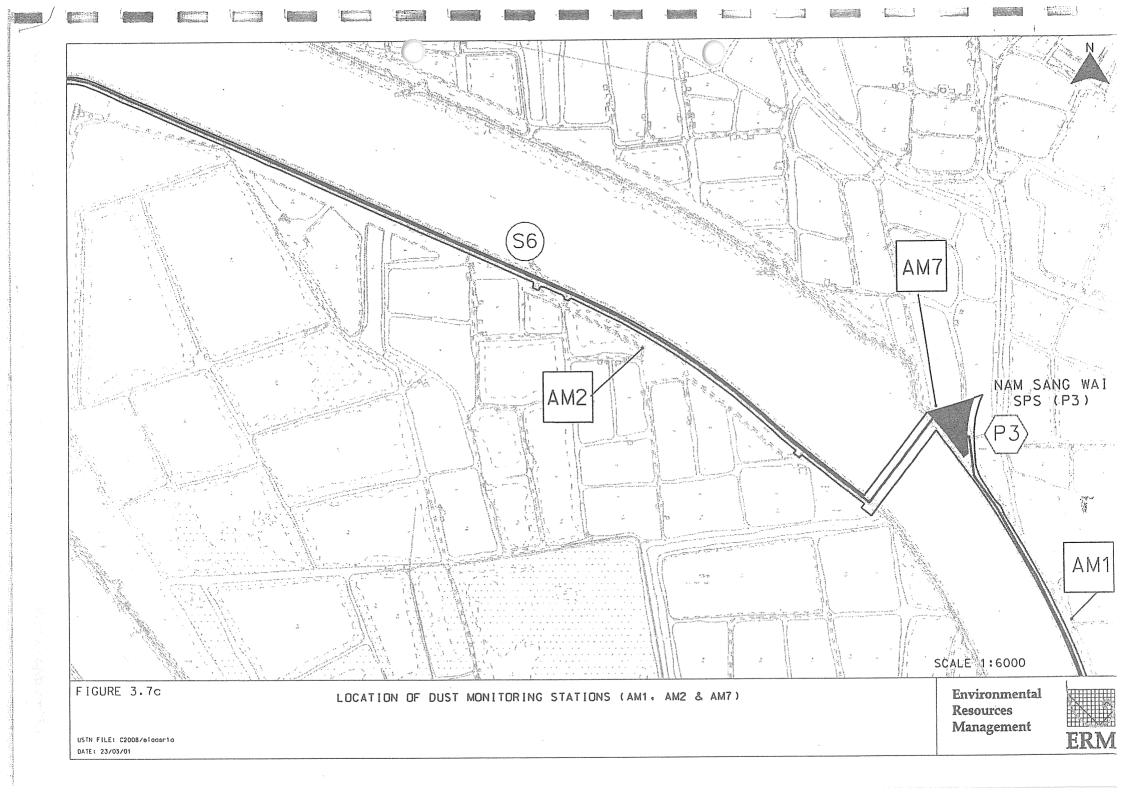


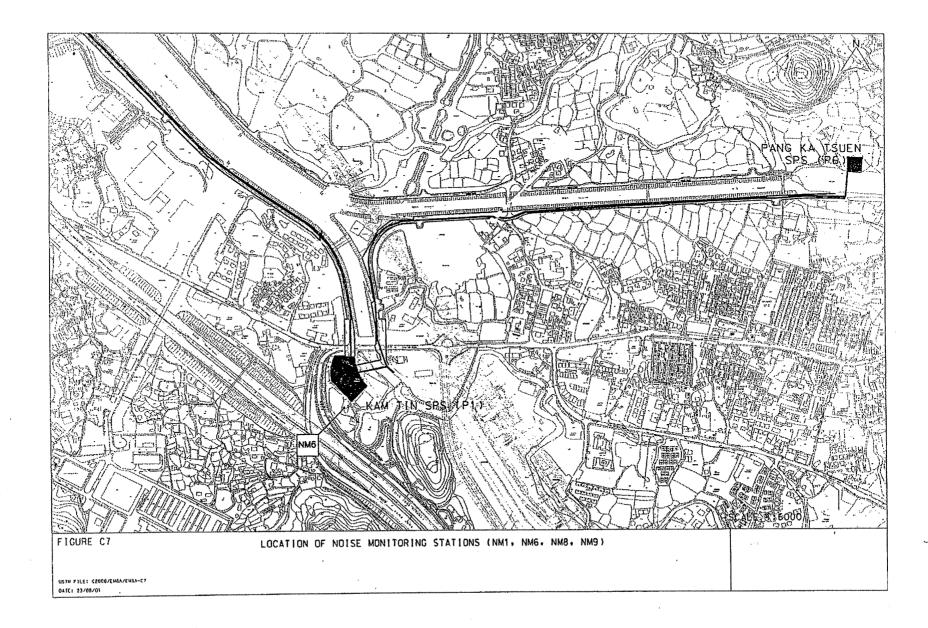
ANNEX D

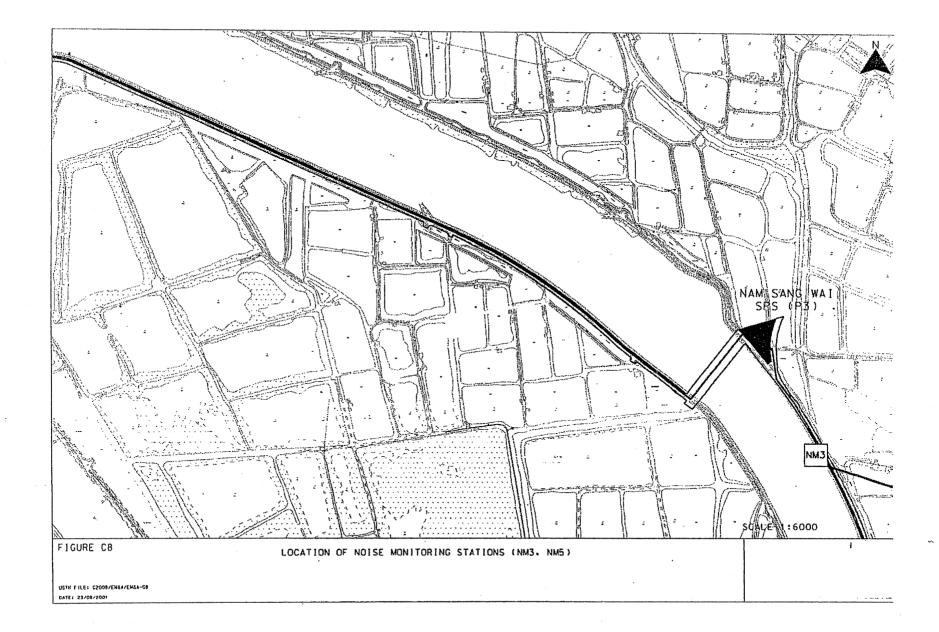
LOCATION OF MONITORING STATIONS

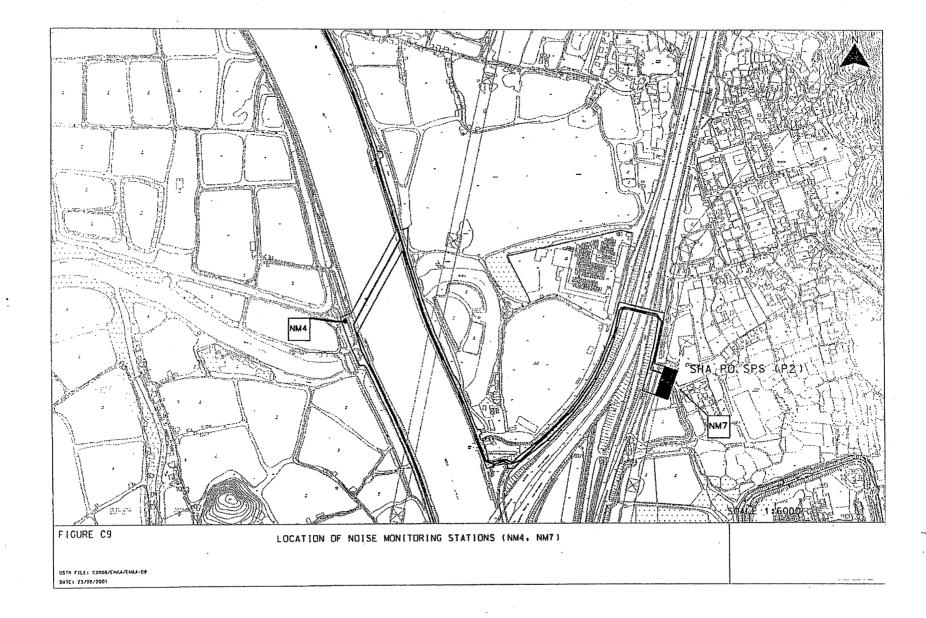














ANNEX E

EVENT AND ACTION PLAN



Event and Action Plan for Construction Phase Air Quality

EVENT		AC	CTION	
	ET Leader	IEC	Engineer	Contractor
Action Level				
Exceedance for one sample	 Identify source (s) of exceedance and inform IEC, Contractor and Engineer Repeat dust measurements to confirm findings Increase monitoring frequency to daily Assess efficacy of remedial measures and keep the Contractor, IEC, and Engineer informed 	 Check monitoring data submitted by ET Check monitoring data trends and Contractors working methods Check and confirm Contractors proposed remedial actions and working methods are appropriate 	 Confirm receipt of notification of exceedance in writing Remind the Contractor of his contractual obligations and review the Contractor's working methods Discuss remedial actions with the Contractor and IEC Inform complainant of actions taken, if necessary 	 Rectify any unacceptable practice Liaise with Engineer and IEC to develop appropriate remedial measures to reduce dust impact Amend working methods and remedial proposals if required by the Engineer or IEC Implement the agreed remedial actions upon instruction from the Engineer and IEC
Exceedance for two or more consecutive samples	 Identify source (s) of exceedance and inform IEC, Contractor and Engineer Repeat measurements to confirm findings Increase the monitoring frequency to daily to assess the efficacy of remedial measures and keep the Contractor informed Discuss remedial actions with IEC and Contractor If exceedance continues, arrange meeting with Engineer, IEC and Contractor to review working practices and identify further remedial actions If exceedance stops, inform the Contractor and cease additional monitoring 	 Check monitoring data submitted by ET Check monitoring data trends and Contractors working methods Discuss with Contractor and Engineer on possible remedial measures Check and confirm Contractors proposed remedial measures are appropriate Determine the efficacy of remedial actions and keep the Engineer informed 	 Confirm receipt of notification of exceedance in writing Remind the Contractor of his contractual obligations and review the Contractor's working methods Discuss remedial actions with the Contractor and IEC Ensure remedial measures are properly implemented Inform complainant of actions taken, if necessary. 	 Rectify any unacceptable practice, if possible Submit proposals for remedial actions to Engineer and IEC within three working days of notification Discuss and amend remedial actions, if required, by the Engineer and IEC Implement the remedial action (s) immediately upon instruction from the Engineer Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions



Event and Action Plan for Construction Phase Air Quality

EVENT		AC	CTION	
	ET Leader	IEC	Engineer	Contractor
Limit Level				
Exceedance for one sample	 Identify source (s) of exceedance and inform IEC, Contractor and Engineer Repeat dust measurements to confirm findings Increase monitoring frequency to daily Assess efficacy of remedial measures and keep the Contractor, IEC, Engineer and EPD informed 	 Check monitoring data submitted by ET Check monitoring data trends and Contractors working methods Check and confirm Contractors proposed remedial actions and working methods are appropriate Check and confirm Contractors proposed remedial measures are appropriate Determine the efficacy of remedial actions and keep the Engineer informed 	 Confirm receipt of notification of exceedance in writing Remind the Contractor of his contractual obligations and review the Contractor's working methods Discuss remedial actions with the Contractor and IEC, Ensure remedial measures are properly implemented Inform complainant of actions taken, if necessary. 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to Engineer and IEC within three working days of notification Discuss and amend remedial actions, if required, by the Engineer and IEC Implement the remedial action (s) immediately upon instruction from the Engineer Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions
Exceedance for two or more consecutive samples	 Identify source (s) of exceedance and inform IEC, Contractor and Engineer Repeat measurements to confirm findings Increase the monitoring frequency to daily to assess the efficacy of remedial measures and keep the Contractor informed Discuss remedial actions with IEC and Contractor If exceedance continues, arrange meeting with Engineer, IEC and Contractor to review working practices and identify further remedial actions If exceedance stops, inform the Contractor and cease additional monitoring. 	 Discuss with Contractor and Engineer on possible remedial measures Check and confirm Contractors proposed remedial measures are appropriate Determine the efficacy of remedial actions and keep the Engineer informed 	 Confirm receipt of notification of exceedance in writing Remind the Contractor of his contractual obligations and review the Contractor's working methods Discuss remedial actions with the Contractor and IEC Ensure remedial measures are properly implemented If exceedance continues, instruct the Contractor to stop the relevant portion of work until the exceedance is abated Inform complainant of actions taken, if necessary. 	 Rectify any unacceptable practice, if possible Submit proposals for remedial actions to Engineer and IEC within three working days of notification Discuss and amend remedial actions, if required, by the Engineer and IEC Implement the remedial action (s) immediately upon instruction from the Engineer Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions



Event and Action Pl	an for Construction Noise											
EVENT	ACTION											
	ET Leader	IEC	Engineer	Contractor								
Limit Level												
Exceedance for one sample	 Identify source (s) of exceedance and inform IEC, Contractor and Engineer Repeat dust measurements to confirm findings If repeat measurements confirm exceedance ,increase monitoring frequency to daily Assess efficacy of remedial measures and keep the Contractor, IEC, and Engineer informed If exceedance stops, inform Contractor and cease additional noise monitoring 	 Check monitoring data submitted by ET Check monitoring data trends and Contractors working methods Check and confirm Contractors proposed remedial actions and working methods are appropriate 	 Confirm receipt of notification of exceedance in writing Remind the Contractor of his contractual obligations and review the Contractor's working methods Discuss remedial actions with the Contractor and IEC Inform complainant of actions taken, if necessary 	 Rectify any unacceptable practice Liaise with Engineer and IEC to develop appropriate remedial measures to reduce noise impact Amend working methods and remedial proposals if required by the Engineer or IEC Implement the agreed remedial actions upon instruction from the Engineer and IEC 								
Exceedance for two or more consecutive samples	 Identify source (s) of exceedance and inform IEC, Contractor and Engineer Repeat measurements to confirm findings Increase the monitoring frequency to daily Discuss remedial actions with IEC, Engineer and the EPD Assess the efficacy of remedial measures and keep the Contractor informed If exceedance continues, arrange meeting with Engineer, IEC and Contractor to review working practices and identify further remedial actions If exceedance stops, inform the Contractor and cease additional monitoring. 	 Check monitoring data submitted by ET Check monitoring data trends and Contractors working methods Discuss with Contractor and Engineer on possible remedial measures Check and confirm Contractors proposed remedial measures are appropriate Determine the efficacy of remedial actions and keep the Engineer informed 	 Confirm receipt of notification of exceedance in writing Remind the Contractor of his contractual obligations and review the Contractor's working methods Discuss remedial actions with the Contractor and IEC Ensure remedial measures are properly implemented If exceedance continues, instruct the Contractor to stop the relevant portion of work until the exceedance is abated Inform complainant of actions taken, if necessary. 	 Rectify any unacceptable practice, if possible Submit proposals for remedial actions to Engineer and IEC within three working days of notification Discuss and amend remedial actions, if required, by the Engineer and IEC Implement the remedial action (s) immediately upon instruction from the Engineer Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions Stop the relevant portion of work as determined by the Engineer until the exceedance is abated 								



ANNEX F

MITIGATION IMPLEMENTATION SCHEDULE



EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Stage	**	tation		Relevant Legislation & Guidelines
						Des	С	0	Dec	
		CONSTRUCTION PHASE								
		AIR QUALITY - Construction Phase								
		The following measures are enforceable under the Air								
		Pollution Control (Construction Dust) Regulations								
		Use of vehicles								
3.5	A3	• where a vehicle leaving a construction site is carrying a	To control potential dust		The Contractor		\checkmark			Part IV, Clause 21, (1), Air
		load of dusty materials, the load should be covered	impacts from vehicle	throughout the full						Pollution Control
		entirely by clean impervious sheeting to ensure that the	movements.	duration of the						(Construction Dust)
		dusty materials do not leak from the vehicle;		construction contract.						Regulations
		Power-driven drilling, and cutting					,			
3.5	A4	• water should be continuously sprayed on the surface	To control potential dust		The Contractor		\checkmark			Part IV, Clause 22, Air
		where any mechanical breaking operation that causes	impacts during mechanical	throughout the full						Pollution Control
		dust emission is carried out, unless the process is	breaking.	duration of the						(Construction Dust)
		accompanied by the operation of an effective dusty		construction contract.						Regulations
		extraction and filtering device;								
		NOISE - Construction Phase								
4 7 1	D 1	General Site Clearance – Demolition Works		a						
4.7.1	B1	• Use of quiet PME which meet the SWLs taken from	To control potential noise		The Contractor		\checkmark			Annex 5 of EIAO-TM
		British Standard, Noise and Vibration Control on	impacts during site clearance and demolition works	throughout the full						
		Construction Open Sites, BS 5228: Part 1: 1997	and demonstron works	duration of the construction contract.						
		(Examples of these PME are shown in Table F2),		construction contract.						
4.7.1	В3	Sewers and Rising Mains using Open Trench Method • Use of quiet PME which meet the SWLs taken from	To control potential noise	Site wide and	The Contractor		\checkmark			Annex 5 of EIAO-TM
4.7.1	D 5	• Use of quiet PME which meet the SwLs taken from British Standard, <i>Noise and Vibration Control on</i>	impacts during excavation	throughout the full	The Contractor		×			Annex 5 0j EIAO-IM
		Construction Open Sites, BS 5228: Part 1: 1997,	works.	duration of the						
		Construction Open Siles, BS 5228. Full 1. 1997,	works.	construction contract.						
4.7.1	B4	• Use of handheld breakers for all initial road opening	To control potential noise	Where there are NSRs	The Contractor		1			
1	51	activities, when breaking tarmac/concrete road surface to	impacts during road opening	located within 50m of	The Conductor		•			
		a depth of 300mm or when granular material is reached.	activities.	the line of sight.						
		a deput of soonini of when grandial material is reached.		Throughout the full						
				duration of the road						
				opening activities.						
4.7.1	B5	• Use of movable noise barriers or 3 sided enclosures for	To control potential noise	Where there are NSRs	The Contractor		\checkmark			
		all initial road opening activities (breaking	impacts during road opening	located within 50m of						
		tarmac/concrete road surface to a depth of 300mm or	activities.	the line of sight.						
		when granular material is reached), where there are NSRs		Throughout the full						
		located within 50m of the line of sight from the works		duration of the road						
		area.		opening activities.						
1		Sewers and Rising Mains using Pipe Jacking Method								
4.7.1	B6	• Use of quiet PME which meet the SWLs taken from	To control potential noise		The Contractor		\checkmark			Annex 5 of EIAO-TM
		British Standard, Noise and Vibration Control on	impacts from PME during	throughout the full						
		Construction Open Sites, BS 5228: Part 1: 1997,	construction works	duration of the						
<u> </u>				construction contract.						
4 7 1	57	Road Pavement and Finishes		a						
4.7.1	B7	• Use of quiet PME which meet the SWLs taken from	To control potential noise		The Contractor		\checkmark			Annex 5 of EIAO-TM
		British Standard, Noise and Vibration Control on	impacts from PME during	throughout the full			1			
<u> </u>			pavement and finish works	duration of the		l	1			

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EIA* Ref.	EM&A Ref	Environmental Protection Measures	ronmental Protection Measures Objectives of the Recommended Measures & Main Concerns measure Implementation Ag	Implementation Agent	Impl Stage	plementation ge**			Relevant Legislation & Guidelines	
						Des	С	0	Dec	
		Construction Open Sites, BS 5228: Part 1: 1997,		construction contract.						
6.6.2	D1	 WASTE - Construction Phase The Contractor shall obtain the necessary waste disposal permits from the appropriate authorities for the disposal of chemical and C&D waste, Chemical Waste Producer and Chemical Waste Disposal Licence (Waste Disposal (Chemical Waste) (General) Regulations); and Dumping Licence (Land (Miscellaneous Provisions) 	To monitor the collection, handling and disposal of chemical waste and C&D waste, and in compliance with relevant Hong Kong Standards and Regulations.	Site wide and throughout the full duration of the construction contract.	The Contractor	~	~			Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste)(General) Regulation (Cap 354), the Land (Miscellaneous Provisions) Ordinance (Cap 28))
		Ordinance (Cap 28))								
6.6.2	D5	Management of Waste Disposal A trip-ticket system should be established which monitors the disposal of C&DM and solid wastes at public filling facilities and landfills and to control fly-tipping, in accordance with Land (Miscellaneous Provisions) Ordinance (Cap28) and the Works Bureau Technical Circular No. 5/99. Waste Management Plan	To monitor the disposal of C&DM and solid wastes at public filling facilities and landfills and to control fly-tipping.	To be implemented at all worksites throughout the full duration of the construction phase.	The Engineer/ Contractor		~			Land (Miscellaneous Provisions) Ordinance (Cap 295) and Works Bureau Technical Circular No. 5/99.
6.6.1 and 6.6.2	D6	 A Waste Management Plan (WMP) should be prepared and this WMP should be submitted to the Engineer for approval. Different types of waste should be segregated and stored in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. An on-site temporary storage area should be provided. A recording system for the amount of wastes generated, recycled and disposal (including the disposal sites) should be proposed. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling. 	To control the disposal of and management of waste.	To be implemented at all worksites throughout the full duration of the construction phase.	The Contractor		~			Works Bureau Technical Circular No 29/2000-Waste Management Plan
3.7	HI	 EM&A REQUIEMENTS - Construction Phase Air Quality Subject to the Environmental Protection Departments (EPDs) agreement, construction phase dust monitoring shall be undertaken at the following locations in accordance with the recommendations of the EIA (NDE). Sewer in Au Tau Area (S7) Worksite boundary near San Yuen Long Centre (AM7) Construction Noise 	Installations of the dust monitoring stations to ensure the action and limit levels are not exceeded.	At specified dust monitoring locations for the duration of the construction works.	To be undertaken by the Environmental Team (ET) and reviewed and audited by the Engineer /DSD		~			Air Pollution Control (Construction Dust) Regulations
4.9.1	I2	Subject to the Environmental Protection Departments (EPDs) agreement, construction phase noise monitoring shall be undertaken at the following locations in accordance with the recommendations of the EIA (NDE).	monitoring stations to ensure the	monitoring locations throughout the duration						Noise Control Ordinance



EM&A Ref		Objectives of the Recommended Measures & Main Concerns	Location measure	of the	Implementation Agent	Implementation Stage**				Relevant Guidelines	Legislation	&
						Des	С	0	Dec			
	• (NM3) Sun Yuen Long Centre;											
	• (NM6) Kam Tin San Tsuen;											
	• (NM7) Scattered House at Kam Sheung Road near Kam											
	Tin Shi											
	• and at any additional locations, where considered											
	necessary, in agreement with EPD											

Des = Design, C = Construction, O = Operation, Dec = Decommissioning



ANNEX G

EQUIPMENT CALIBRATION CERTIFICATES



Equipment Calibration List for DSD Contract No. DE/2005/05 Supply and Installation of E&M Equipments for Nam Sang Wai, Sha Po and Kam Tin Sewage Pumping Stations

Item	Aspect	Description of Equipment	Serial No.	Date of Calibration	Date of Next Calibration
1**		Greasby Anderson GMWS2310 High Volume Sampler	(AM5)	1 Aug 09	1 Oct 09
2**	TSP	Greasby Anderson GMWS2310 High Volume Sampler	(AM6)	1 Aug 09	1 Oct 09
3**		Greasby Anderson GMWS2310 High Volume Sampler	1283 (AM7)	1 Aug 09	1 Oct 09
4	Noise	Bruel & Kjaer 4231 Acoustical Calibrator	2326408	28 Apr 09	28 Apr 10
5	noise	Bruel & Kjaer 2238 Integrating Sound Level Meter	T212509	28 Apr 09	28 Apr 10

Note: Calibration certificates will only be provided if monitoring equipment is re-calibrated or new.

*Calibration done in this month, see calibration certificate attached.

**Calibration will be done in next month.



ANNEX H

METEOROLOGICAL DATA



Meteorological Data Extracted From the HK Observatory at Lau Fau Shan Weather Station

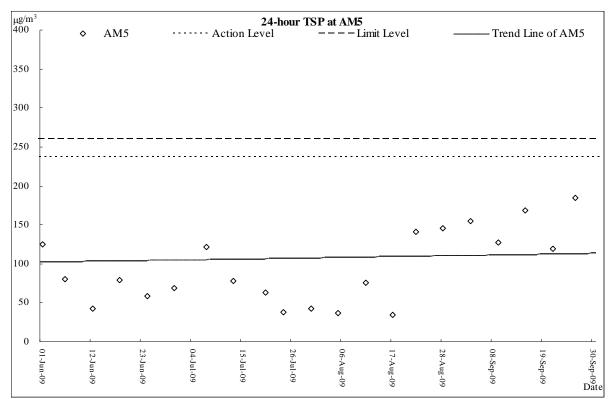
			Lau Fau Shan Weather Stati						
	Date	Weather	Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction		
Tue	1-Sep-09	fine/very hot/a few showers/moderate	Trace	29.9	18	72	E/NE		
Wed	2-Sep-09	fine/very hot/isolated showers/moderate	Trace	30.1	12.5	71	E/NE		
Thu	3-Sep-09	fine/very hot/hazy/moderate	Trace	31.2	10	69.5	E/NE		
Fri	4-Sep-09	fine/very hot/isolated showers/moderate	Trace	29.8	12	71	E/SE		
Sat	5-Sep-09	fine/very hot/isolated showers/moderate	Trace	31.1	13.7	65.2	E/NE		
Sun	6-Sep-09	fine/very hot isolated showers/moderate	0	31	14.5	68	E/NE		
Mon	7-Sep-09	fine/very hot/moderate	0	31.2	8.2	66.5	E/NE		
Tue	8-Sep-09	fine/very hot/moderate	0	30.6	13	61	E/SE		
Wed	9-Sep-09	sunny periods/hot/isolated showers/moderate	37.1	30.6	15	66	E/NE		
Thu	10-Sep-09	cloudy/squally showers/fresh/strong	0.9	30.3	14.7	63	E/NE		
Fri	11-Sep-09	cloudy/rain/squally thunderstorms/moderate/fresh/str	11.8	28.5	21.5	71.5	Е		
Sat	12-Sep-09	a few showers/sunny intervals/moderate/fresh	5.7	30.5	20	78.2	Е		
Sun	13-Sep-09	fresh/cloudy/rain/moderate	23.4	29.8	18.7	78.5	W/SW		
Mon	14-Sep-09	fresh/strong/gales/cloudy/squally thunderstorm	38.8	27.4	20	82	N/NE		
Tue	15-Sep-09	fresh/strong/gales	190.3	27	37.5	82.5	SE		
Wed	16-Sep-09	scattered showers/squally thunderstorms/sunny intervals/moderate/fresh	20.5	29.1	23	81.7	SE		
Thu	17-Sep-09	fine/hot/isolated showers/moderate	Trace	28.6	11.5	87.5	S/SE		
Fri	18-Sep-09	fine/very hot/moderate	0	29.6	16	80.5	W/SW		
Sat	19-Sep-09	fine/very hot/moderate	0	30.4	8.5	77.5	W/SW		
Sun	20-Sep-09	fine/very hot/moderate	Trace	30.3	12.2	73.5	S/SE		
Mon	21-Sep-09	cloudy/sunny intervals/haze/light winds/moderate/rain	9.5	30.7	11.2	81	S/SE		
Tue	22-Sep-09	fine/dry/moderate	1.3		Maintenance				
Wed	23-Sep-09	sunny periods/cloudy/rain/moderate	0	28.3	14.2	71.7	E/NE		
Thu	24-Sep-09	sunny periods/cloudy/fresh/strong	Trace	30.2	16.5	67	E/NE		
Fri	25-Sep-09	fine/hot/moderate/fresh	0	30.2	17	68	E/SE		
Sat	26-Sep-09	fine/dry/very hot/moderate	0.3	30.8	10.5	67	E/NE		
Sun	27-Sep-09	fine/hot/moderate/fresh	0	29.1	18.5	68	NE		
Mon	28-Sep-09	cloudy/rain/squally thunderstorms/fresh/strong	52.7	26.4	18.5	79.2	E/NE		
Tue	29-Sep-09	overcast/rain/fresh/strong	31	24.7	13.5	93.5	E/NE		
Wed	30-Sep-09	cloudy/rain/moderate/fresh	63	26.9	14.5	86	E/NE		

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ANNEX I

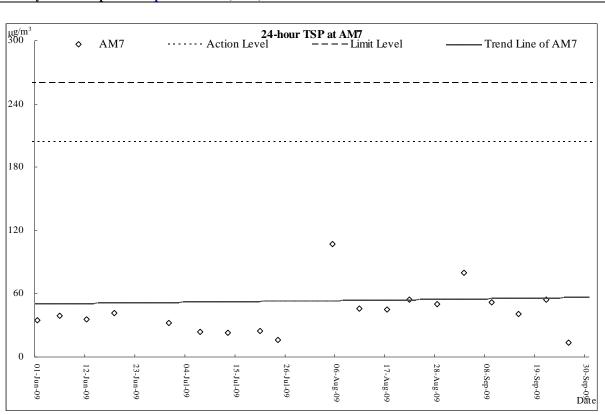
GRAPHICAL PLOTS OF AIR QUALITY AND CONSTRUCTION NOISE MONITORING RESULTS



μg/m³ 300 24-hour TSP at AM6 Action Level ____Limit Level AM6 Trend Line of AM6 0 240 180 ٥ ٥ 120 ٥ 60 ٥ ٥ ٥ ٥ 0 ٥ ٥ ٥ ٥ ٥ 0 ٥ ٥ ٥ 0 28-Aug-09 ^{30-Sep-09}ate 01-Jun-09 23-Jun-09 04-Jul-09 06-Aug-09 08-Sep-09 26-Jul-09 l 2-Jun-09 l 5-Jul-09 17-Aug-09 19-Sep-09

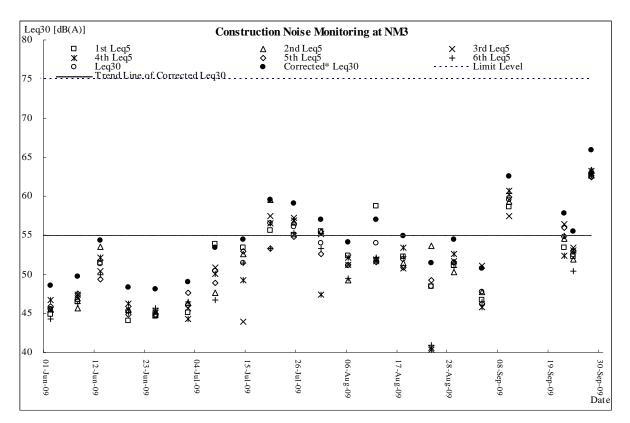
Air Quality Monitoring Results

E S

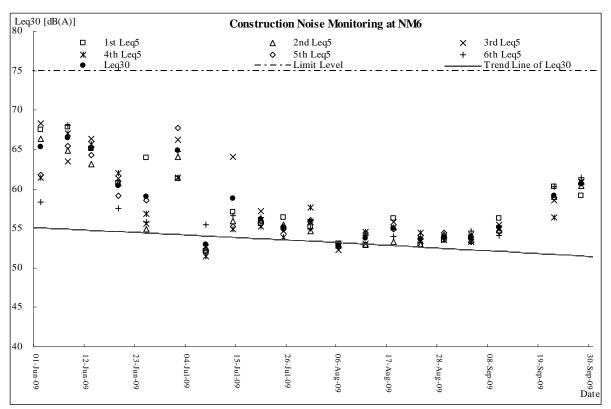


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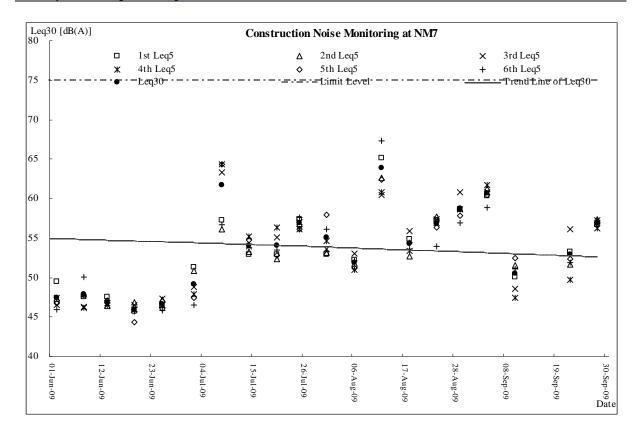














ANNEX J

RESPONSE TO COMMENT