

**DRAINAGE SERVICES DEPARTMENT (DSD)  
CONTRACT NO. DC/2005/02**






**CONSTRUCTION OF SEWERS, RISING MAINS  
& SEWAGE PUMPING STATION AT KAM TIN, NAM SANG  
WAI AND AU TAU IN YUEN LONG**

**4<sup>th</sup> Bi-Annual Construction Phase EM&A Report  
October 2007 – March 2008 (Designated Elements)**

**PREPARED FOR**

**Leader Civil Engineering Corporation Ltd**

**Quality Index**

<b>Date</b>	<b>Reference No.</b>			
10 April 2008	TCS/00310/06/600/R521			
<b>Prepared by</b>	<b>Reviewed by</b>	<b>Certified by</b>	<b>Approved by</b>	<b>Verified by</b>
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## **EXECUTIVE SUMMARY**

ES.01 Leader Civil Engineering Corporation Ltd (the Contractor) has been awarded the DSD Contract DC/2005/02 Construction of Sewers, Rising Mains and Sewage Pumping Station at Kam Tin, Nam Sang Wai and Au Tau in Yuen Long (the Project). The Project requires an Environmental Monitoring and Audit (EM&A) program to be implemented by an Environmental Team (ET) throughout the contract period in compliance with the requirements as stated in the project Environmental Permit (EP-220/2005) and the project's Updated EM&A (Designated Elements) Manual.

ES.02 This is the Forth Bi-Annual Construction Phase EM&A Report (October 2007 – March 2008, Report No. B4) reporting the environmental impact monitoring and audit (EM&A) conducted from 01 October 2007 to 31 March 2008. EM&A program implemented in this reporting period (October 2007 – March 2008) covered air quality, noise and waste management.

### **BREACH OF ACTION AND LIMIT (AL) LEVELS**

ES.03 No Action or Limit Level exceedance was recorded for 24-hour TSP monitoring in this reporting period.

ES.04 There was no breach of Action or Limit level for noise monitoring in this reporting period.

### **COMPLAINT LOG**

ES.05 No environmental complaint was received in this reporting period.

### **Notification of Any Summons and Successful Prosecution**

ES.06 There was no environmental summons or prosecution in this reporting period.

### **Reporting Changes**

ES.07 There are no changes to be reported in this reporting period.

### **Adequacy of EM&A**

ES.08 Based on the data collected and reviewed for the period between October 2007 to March 2008 (as reported herein), it can be confirmed that the monitoring work is effective and that it is generating data to categorically confirm the observe of impact attributable to the works.

## **1.0 BASIC PROJECT INFORMATION**

- 1.01 Leader Civil Engineering Corporation Ltd (the Contractor) has been awarded the DSD Contract DC/2005/02 Construction of Sewers, Rising Mains and Sewage Pumping Station at Kam Tin, Nam Sang Wai and Au Tau in Yuen Long (the Project). The Project is part of the Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKTSSD) Scheme. A site layout map showing the site boundary and the work areas is shown in **Annex A**.
- 1.02 This 4<sup>th</sup> Bi-annual Construction Phase EM&A Report (October 2007 – March 2008, Report No. B4) summarizes the impact monitoring results and audit findings in the reporting period from October 2007 to March 2008.

### **Project Organization**

- 1.03 The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in **Annex B**.

### **Construction Program for the Reporting Period**

- 1.04 A construction program showing the construction work undertaken in this reporting period is shown in **Annex C**. Environmental mitigation measures implemented are shown in **Table 2-1**.

### **Management Structure**

- 1.05 The management structure of the Project is shown in **Annex B**.

### **Works Undertaken during the Reporting Period**

- 1.06 The major construction work undertaken during the reporting period under the Environmental Permit (EP-220/2005) is shown as follows:

Reporting Month	Construction Activities
October 2007	<ul style="list-style-type: none"> <li>• Excavation at Kam Tin Pumping Station (P1);</li> <li>• Excavation at Sha Po Pumping Station (P2);</li> <li>• Excavation at Nam Sang Wai Pumping Station (P3);</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking, grouting and extract sheet pile at Nam Sang Wai Road (S4); and</li> <li>• Sheet piling, excavation, pipe laying, backfilling and extract sheet pile at Pok Wai South Road (S5 and S6).</li> </ul>
November 2007	<ul style="list-style-type: none"> <li>• Backfilling and concreting at Kam Tin Pumping Station (P1);</li> <li>• Sheet piling and excavation at Sha Po Pumping Station (P2);</li> <li>• Concreting at Nam Sang Wai Pumping Station (P3);</li> <li>• Excavation, pipe laying, backfilling, concreting, pipe jacking and grouting at Nam Sang Wai Road (S4); and</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Pok Wai South Road (S5 and S6).</li> </ul>
December 2007	<ul style="list-style-type: none"> <li>• Concreting at Kam Tin Pumping Station (P1);</li> <li>• Excavation at Sha Po Pumping Station (P2);</li> <li>• Backfilling and concreting at Nam Sang Wai Pumping Station (P3);</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking, grouting, extract sheet pile at Nam Sang Wai Road (S4); and</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, extract sheet pile at Pok Wai South Road (S5 and S6).</li> </ul>
January 2008	<ul style="list-style-type: none"> <li>• Backfilling and concreting at Kam Tin Pumping Station (P1);</li> <li>• Backfilling at Sha Po Pumping Station (P2);</li> <li>• Backfilling and concreting at Nam Sang Wai Pumping Station (P3);</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Nam Sang Wai Road (S4); and</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Pok Wai South Road (S5 and S6).</li> </ul>
February 2008	<ul style="list-style-type: none"> <li>• Backfilling and concreting at Kam Tin Pumping Station (P1);</li> <li>• Backfilling at Sha Po Pumping Station (P2);</li> <li>• Backfilling and concreting at Nam Sang Wai Road (S4); and</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Pok Wai South Road (S5 and S6).</li> </ul>
March 2008	<ul style="list-style-type: none"> <li>• Backfilling and concreting at Kam Tin Pumping Station (P1);</li> <li>• Backfilling and concreting at Sha Po Pumping Station (P2);</li> <li>• Backfilling and concreting at Nam Sang Wai Pumping Station (P3);</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Nam Sang Wai Road (S4); and</li> <li>• Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking, extract sheet pile at Pok Wai South Road (S5 and S6).</li> </ul>

## 2.0 ENVIRONMENTAL STATUS

### Work Undertaken during the Reporting Period with Illustrations

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

**Table 2-1 Work Undertaken in Reporting Period with Illustrations of Mitigation Measures**

Location	Description of Construction Activities	Environmental Mitigation Measures	EM&A Ref.
P3 (Nam Sang Wai Pumping Station)	Excavation and shoring installation	<ul style="list-style-type: none"> <li>• Erect 2.4m high noise barrier hoarding around the works area</li> <li>• Remove dust and spray water at the construction access</li> <li>• Cover the stockpiles of dusty material properly</li> <li>• Spray water to all dusty materials immediately before loading and unloading</li> <li>• Wash the wheels of vehicles before leaving the site</li> <li>• Install and use power-operated cover at the dump trucks</li> <li>• Spray water at the pavement breaking locations</li> <li>• Spray the working area of excavation frequently</li> </ul>	A1 & F6 A2 A3 A4 A5 A6 A7 A8
S5 (Pok Wai South Road)	Pipe Jacking Grouting for ground treatment	<ul style="list-style-type: none"> <li>• Maximize the use of quiet PME on site</li> <li>• Apply and obtain appropriate waste disposal licenses</li> <li>• Handle, store and dispose of chemical wastes as per relevant regulations</li> <li>• Implement trip-ticket system for waste disposal</li> <li>• Restrict open fires and provide fire fighting equipment in the works area</li> <li>• Perform weekly inspection with ET and monthly audit with IEC</li> <li>• Conduct noise and dust monitoring as per EM&amp;A manual during construction</li> <li>• Recycle wheel washing water and provide sedimentation tanks for treating site discharge.</li> <li>• Remove dust and spray water at the construction access</li> <li>• Cover or provide shelters to the stockpiles / operation of dusty material properly</li> <li>• Spray water to all dusty materials immediately before loading and unloading</li> <li>• Wash the wheels of vehicles before leaving the site</li> <li>• Install and use power-operated cover at the dump trucks</li> <li>• Spray the working area of excavation frequently</li> <li>• Maximize the use of quiet PME on site</li> <li>• Apply and obtain appropriate waste disposal licenses</li> </ul>	B1, B2 & F5 D1 D2, D3 & D4 D5 F9 H1 I1 & I2 - A2 A3 A4 A5 A6 A8 B1, B2 & F5 D1
S4 (Nam Sang Wai Road)	Grouting for ground treatment	<ul style="list-style-type: none"> <li>• Handle, store and dispose of chemical wastes as per relevant regulations</li> <li>• Implement trip-ticket system for waste disposal</li> <li>• Restrict open fires and provide fire fighting equipment in the works area</li> <li>• Perform weekly inspection with ET and monthly audit with IEC</li> <li>• Conduct noise and dust monitoring as per EM&amp;A manual during construction</li> <li>• Provide sedimentation tanks for treating site discharge.</li> <li>• Remove dust and spray water at the construction access</li> <li>• Cover or provide shelters to the stockpiles / operation of dusty material properly</li> <li>• Spray water to all dusty materials immediately before loading and unloading</li> <li>• Wash the wheels of vehicles before leaving the site</li> <li>• Spray the working area of excavation frequently</li> <li>• Maximize the use of quiet PME on site</li> <li>• Apply and obtain appropriate waste disposal licenses</li> <li>• Handle, store and dispose of chemical wastes as per relevant regulations</li> <li>• Restrict open fires and provide fire fighting equipment in the works area</li> <li>• Perform weekly inspection with ET and monthly audit with IEC</li> <li>• Conduct noise and dust monitoring as per EM&amp;A manual during construction</li> <li>• Provide sedimentation tanks for treating site discharge.</li> </ul>	D2, D3 & D4 D5 F9 H1 I1 & I2 - A2 A3 A4 A5 A8 B1, B2 & F5 D1 D2, D3 & D4 F9 H1 I1 & I2 -

2.02.1 Photographic records showing the implemented 2.4m high noise barrier at the pumping station (S3) are shown in **Annex D**.

### Project Drawings

2.03 Drawings showing the work areas under EP-220/2005 and the locations of the designated monitoring stations are presented in **Annex E**.

2.04 There are four designated air quality and four noise monitoring stations under the project EP. In this reporting period, the monitoring was carried out at four designated air (AM1, AM5, AM6 & AM7) and four noise (NM3, NM4, NM6 & NM7) monitoring stations.

Station ID	Nature of Premise	Site Work Description	Station Coordinates
AM1	Site Boundary in NSW	Sheet piling and trench excavation.	835829 N 822910 E
AM5	Site Boundary in FKH		835121 N 823515 E
AM6	Site Boundary in KT		833308 N 823987 E
AM7	Site Boundary in NSW		836171 N 822586 E
NM3	Village House in NSW		835808 N 822817 E
NM4	Village House in NSW		835282 N 822811 E
NM6	Village House in KT		833288 N 823999 E
NM7	Village House in FKH		835121 N 823495 E

2.05 In this reporting period, the impact monitoring was carried out at four designated air and four noise monitoring stations in 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 Updated EM&A manual. Air quality and construction noise have been identified to be the key monitoring parameters during the impact phase for the construction of the project.

3.02 A summary of the impact EM&A requirements for air quality and construction noise as per the project Updated EM&A Manual are shown in **Table 3-1**.

**Table 3-1 Summary of EM&A Requirements**

Environmental Aspect	Monitoring Parameters
Air Quality	24-Hour TSP
Construction Noise	Leq 30min during 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 Monitoring**

Monitoring Stations	Action Level ( $\mu\text{g}/\text{m}^3$ )		Limit Level ( $\mu\text{g}/\text{m}^3$ )	
	1-Hour TSP	24-Hour TSP	1-Hour TSP	24-Hour TSP
AM1	>391	>184	>500	>260
AM5	>353	>237	>500	>260
AM6	>329	>183	>500	>260
AM7	>383	>204	>500	>260

**Table 3-3 Action and Limit Levels for Construction Noise**

Monitoring Period	Action Level in dB(A)	Limit Level in dB(A)
0700-1900 hrs 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 F**.

### Environmental Mitigation Measures

- 3.05 The project EIA report has recommended environmental mitigation measures to minimize potential environmental impacts arising from the construction of the project. A full list of the mitigation measures is detailed in **Annex G**.

### Environmental Requirements in Contract Documents

- 3.06 The environmental requirements in the contract documents generally refer to the compliance of the requirements as stipulated in the project EP and the updated EM&A Manual.

## 4.0 IMPLEMENTATION STATUS AND ENVIRONMENTAL SUBMISSIONS

- 4.01 The implementation status of environmental protection and pollution control/mitigation measures as recommended in the project EIA report is summarized in **Table 2-1** and the implementation schedule as shown in **Annex G**.
- 4.02 A summary status of the permits, licences, and/or notifications on environmental protection for this Project in the reporting period is presented in **Table 4-1**.

**Table 4-1 Status of Environmental Licenses and Permits in the Reporting Period**

Item	Item Description	Licenses/Permit Status
1	Environmental Permit No.: EP-220/2005	Issued in June 2005
2	Air Pollution Control (Construction Dust)	Notified EPD on 24 Dec 2005
3	Chemical Waste Producer Registration (5213-528-L2544-08)	Registration on 27 Jan 2006
4	Water Pollution Control (Discharge license No. 1U434/1)	Applied to EPD on 7 Feb 2006
5	Account for Disposal of Construction Waste No. 5004959	Registration on 27 Dec 2005
6	Piling Permit (CNP No. PP-RN0001-07)	Valid (7 Mar 2007 to 06 Dec 2007)
7	Piling Permit (CNP No. PP-RN0004-07)	Valid (7 May 2007 to 06 Feb 2008)
8	Construction Noise Permit (CNP No. GW-RN0183-07)	Valid (03 May 2007 to 02 Nov 2007)
9	Construction Noise Permit (CNP No. GW-RN0355-07)	Valid (24 Aug 2007 to 23 Feb 2008)
10	Construction Noise Permit (CNP No. GW-RN0379-07)	Valid (09 Sep 2007 to 02 Mar 2008)
11	Construction Noise Permit (CNP No. GW-RN0479-07)	Valid (06 Nov 2007 to 05 May 2008)



## 5.0 MONITORING RESULTS

### PARAMETERS MONITORED

- 5.01 The environmental parameters monitoring in the reporting period is compliance with the monitoring requirements as in **Table 3-1**.

### MONITORING LOCATIONS

- 5.02 There are four designated air quality and four noise monitoring stations under the project EP. For this reporting period, monitoring was carried out at four designated air (AM1, AM5, AM6 & AM7) and four noise (NM3, NM4, NM6 & NM7) monitoring stations/locations. The locations of the designated monitoring stations/locations are shown in **Table 5-1** and geographically in **Annex E**.

**Table 5-1 Location of Air Quality and Construction Noise Monitoring Stations/Locations**

Air Quality (4 Stations)	
AM1	Worksite boundary facing scattered house in Nam Sang Wai
AM5	Worksite boundary facing Fung Kat Heung
AM6	Worksite boundary facing scattered near Route 3
AM7	Worksite boundary facing scattered house in Nam Sang Wai
Construction Noise (4 Locations)	
NM3	Village House in Nam Sang Wai
NM4	Village House in Nam Sang Wai
NM6	Scattered House near Route 3
NM7	Fung Kat Heung

### MONITORING FREQUENCY AND PERIOD

- 5.03 The impact 24-Hour TSP monitoring was conducted at the designated stations once every 6 days in compliance with the updated EM&A manual. A total of 111 monitoring events were carried out in the reporting period.
- 5.04 The impact noise monitoring was conducted at the designated stations once every 6 days in compliance with the updated EM&A manual. A total of 128 monitoring events were carried out in the reporting period.

### MONITORING RESULTS AND GRAPHICAL PLOT IN THE REPORTING PERIOD

- 5.05 The graphical plot and monitoring results of air quality and construction noise for the reporting period are summarized in **Annex H**.
- 5.06 No Action or Limit Level exceedance of 24-Hour TSP was recorded. All construction noise monitoring were complied with the Limit Level and no noise complaint (Action Level) was received in this reporting period.

### WEATHER CONDITIONS DURING THE MONITORING PERIOD

- 5.07 The meteorological data on the monitoring dates are summarized in **Annex I**.

### OTHER FACTORS INFLUENCING THE MONITORING RESULTS

- 5.08 There were no other noticeable external factors generally affecting the monitoring results in the reporting period.

### QA/QC RESULTS AND DETECTION LIMITS

- 5.09 Not applicable.

## 6.0 SOLID AND LIQUID WASTE MANAGEMENT STATUS

### SOLID AND LIQUID WASTE MANAGEMENT STATUS

6.01 The cumulative quantities of waste for disposal or reuse in the reporting period are summarized in **Tables 6-1** and **6-2**.

**Table 6-1 Cumulative Quantities of Waste for Disposal in the Reporting Period**

Type of Waste	Quantity	Disposal Location
C&D Materials (Inert) (tons) – Disposed	26,560	Tuen Mun 38 Fill Bank
C&D Materials (Inert) (tons) – Reused	1,650	DSD Contract DC/2005/02
C&D Materials (Non-Inert) (kg)	0	NENT
Chemical Waste (Litres)	0	License Collector
General Refuse (tons)	157	Refuse Collector

**Table 6-2 Cumulative Quantities of Waste for Reuse/Recycling in the Reporting Period**

Type of Waste	Quantity	Disposal Location
Metals for Recycling (kg)	0	NA
Paper for Recycling (kg)	433	NA
Plastics for Recycling (kg)	32	NA

6.02 There was no site effluent discharged but an estimated volume of less than 50m<sup>3</sup> of surface runoff was discharged for each reporting month.

## 7.0 REPORT ON NON-COMPLIANCE (NC), COMPLAINTS, NOTIFICATIONS OF SUMMONS (NoS) AND SUCCESSFUL PROSECUTIONS

### RECORD OF NON-COMPLIANCE OF ACTION AND LIMIT LEVELS

7.01 No project related Action or Limit Level exceedance was recorded in the reporting period. The summary of exceedance was presented in **Table 7-1**.

**Table 7-1 Summaries of Exceedance in the Reporting Period**

Reporting Month	Work-Related Exceedance (%) for 24-Hour TSP	Work-Related Exceedance (%) for Leq (30mins) Daytime
October 2007	0	0
November 2007	0	0
December 2007	0	0
January 2008	0	0
February 2008	0	0
March 2008	0	0

**RECORD OF ENVIRONMENTAL COMPLAINTS RECEIVED**

7.02 There was no environmental complaint received in the reporting period. The summary of environmental complaints was presented in **Table 7-2**.

**Table 7-2 Summaries of Environmental Complaint in the Reporting Period**

Reporting Month	Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
October 2007	0	0	NA
November 2007	0	0	NA
December 2007	0	0	NA
January 2008	0	0	NA
February 2008	0	0	NA
March 2008	0	0	NA

**RECORD OF NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTION**

7.03 There was no notification of summons or prosecution received in the reporting period. The summary of environmental summons and prosecution was presented in **Table 7-3**.

**Table 7-3 Summaries of Environmental Summons and Prosecution in the Reporting Period**

Reporting Month	Environmental Summons and Prosecution Statistics		
	Summons	Prosecution	Nature
October 2007	0	0	NA
November 2007	0	0	NA
December 2007	0	0	NA
January 2008	0	0	NA
February 2008	0	0	NA
March 2008	0	0	NA

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

7.04 No NC, complaints or NoS received in the reporting period.

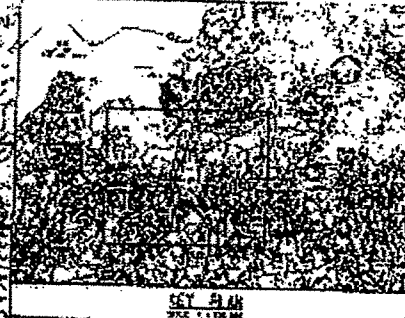
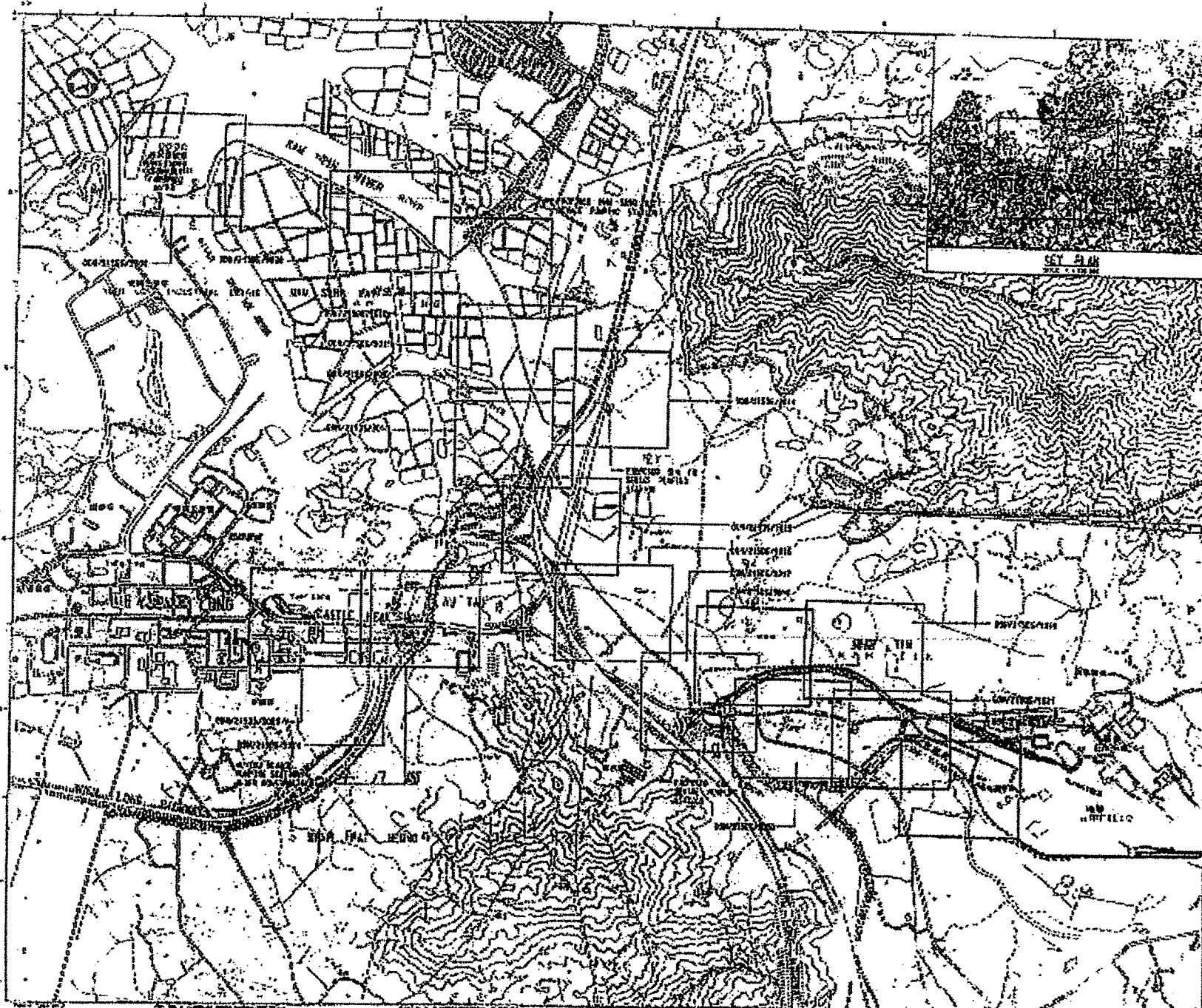
**DESCRIPTION OF FOLLOW-UP ACTIONS TAKEN**

7.05 No NC, complaints or NoS received in the reporting period.

**8.0 CONCLUSIONS FOR THE PERIOD OCTOBER 2007 TO MARCH 2008**

8.01 Based on the data collected and reviewed for the period between October 2007 to March 2008 (as reported herein), it can be confirmed that the monitoring work is effective and that it is generating data to categorically confirm the observe of impact attributable to the works.

**Annex A**  
**Project Site Layout**



SHEET 1  
 1:50,000 SCALE  
 U.S. GEOLOGICAL SURVEY

LEGEND:  
 --- UNIMPROVED HIGHWAY  
 --- UNIMPROVED ROAD  
 --- UNIMPROVED TRAIL

**FIRE TENDER PLACES ONLY**

NAME	TYPE	CLASS
St. Paul	1000	CLASS 1
St. Paul	1000	CLASS 2
St. Paul	1000	CLASS 3
St. Paul	1000	CLASS 4

DATE: 10/1/50  
 DRAWN BY: J. H. [unclear]  
 CHECKED BY: [unclear]

REVISIONS:  
 1. [unclear]  
 2. [unclear]

DATE OF WORK: 10/1/50

PROJECT NO: 004/21505/300

CARTOGRAPHER: [unclear]

DIVISION: GENERAL PROJECTS DIVISION

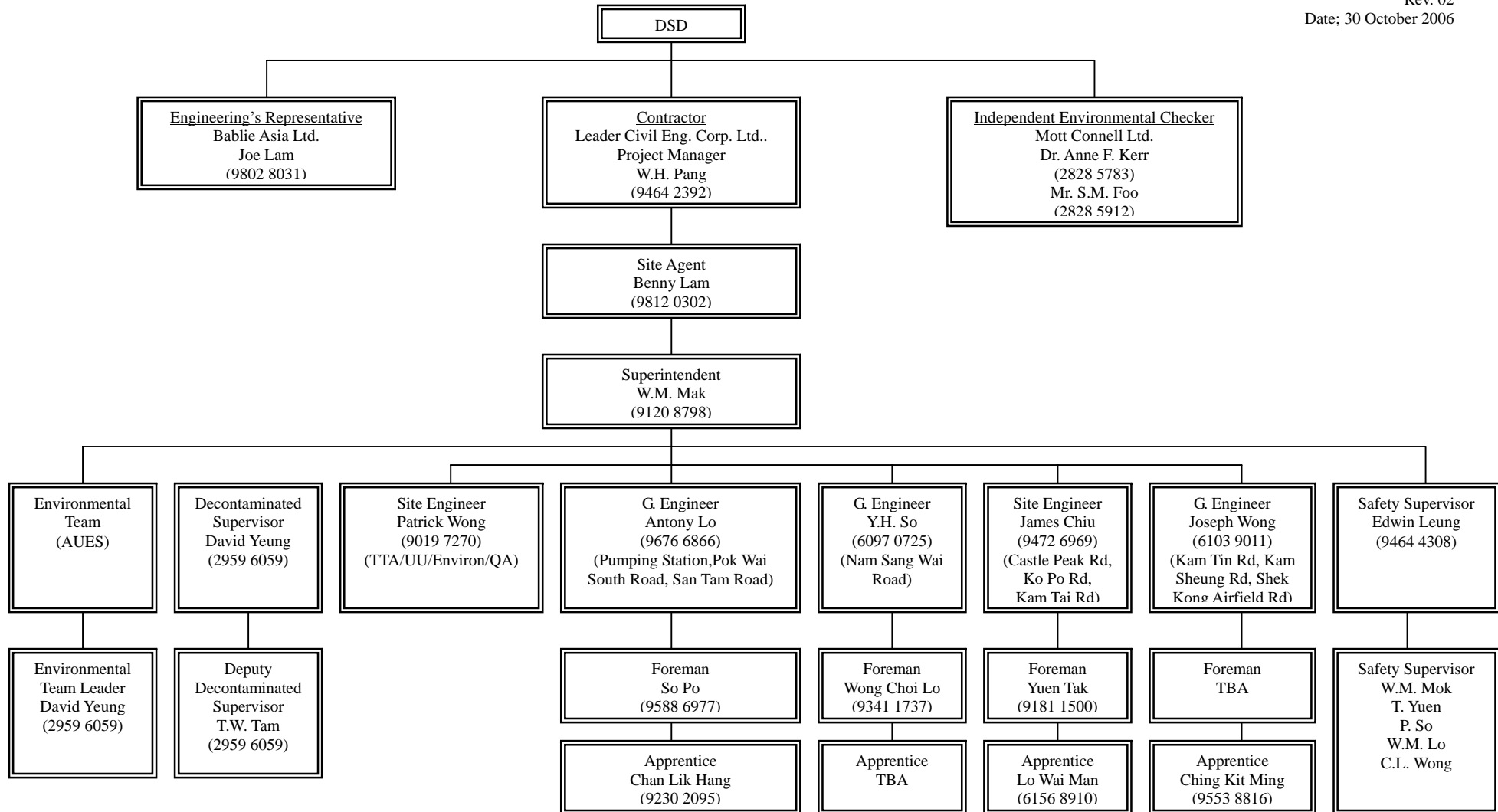
**D** DISTRICT ENGINEER  
 U.S. GEOLOGICAL SURVEY  
 WASHINGTON, D.C.

## **Annex B**

# **Project Organization and Management Structure**

**DSD Contract No. DC/2005/02**  
**Construction of Sewers, Rising Mains and Sewage Pumping Station at Kam Tin,**  
**Nam Sang Wai and Au Tau in Yuen Long**  
**Project Environmental Organization Chart**

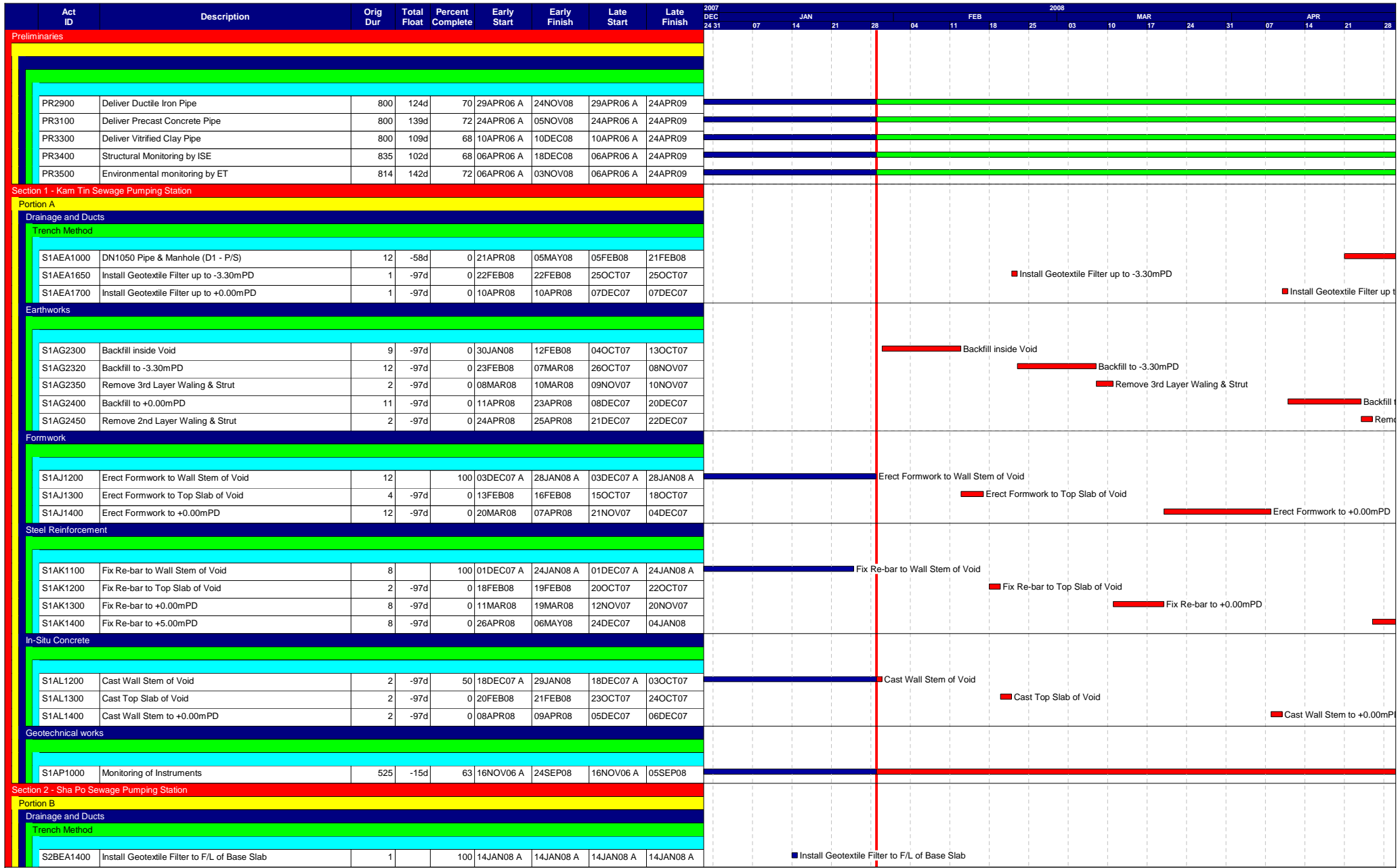
Rev. 02  
 Date: 30 October 2006



## **Annex C**

# **Construction Program**




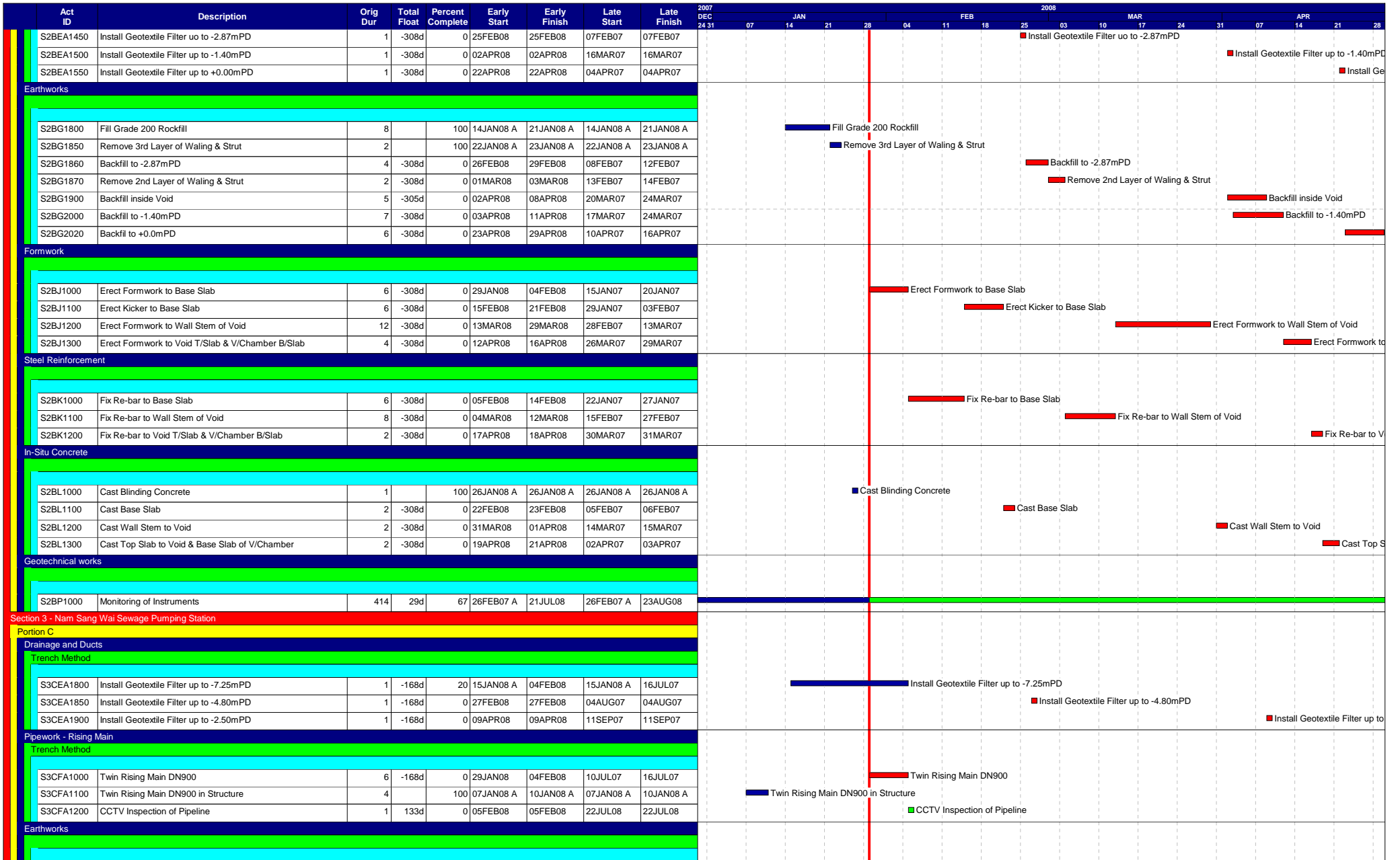


Start date 19DEC05  
 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 1A  
 Primavera Systems, Inc.

Leader Civil Engineering Corp. Ltd.  
 DSD Contract No. DC/2005/02  
 3-Month Rolling Programme - 3M01 at 29 January 2008

■ Early bar  
■ Progress bar  
■ Critical bar  
■ Summary bar  
◆ Start milestone point  
◆ Finish milestone point




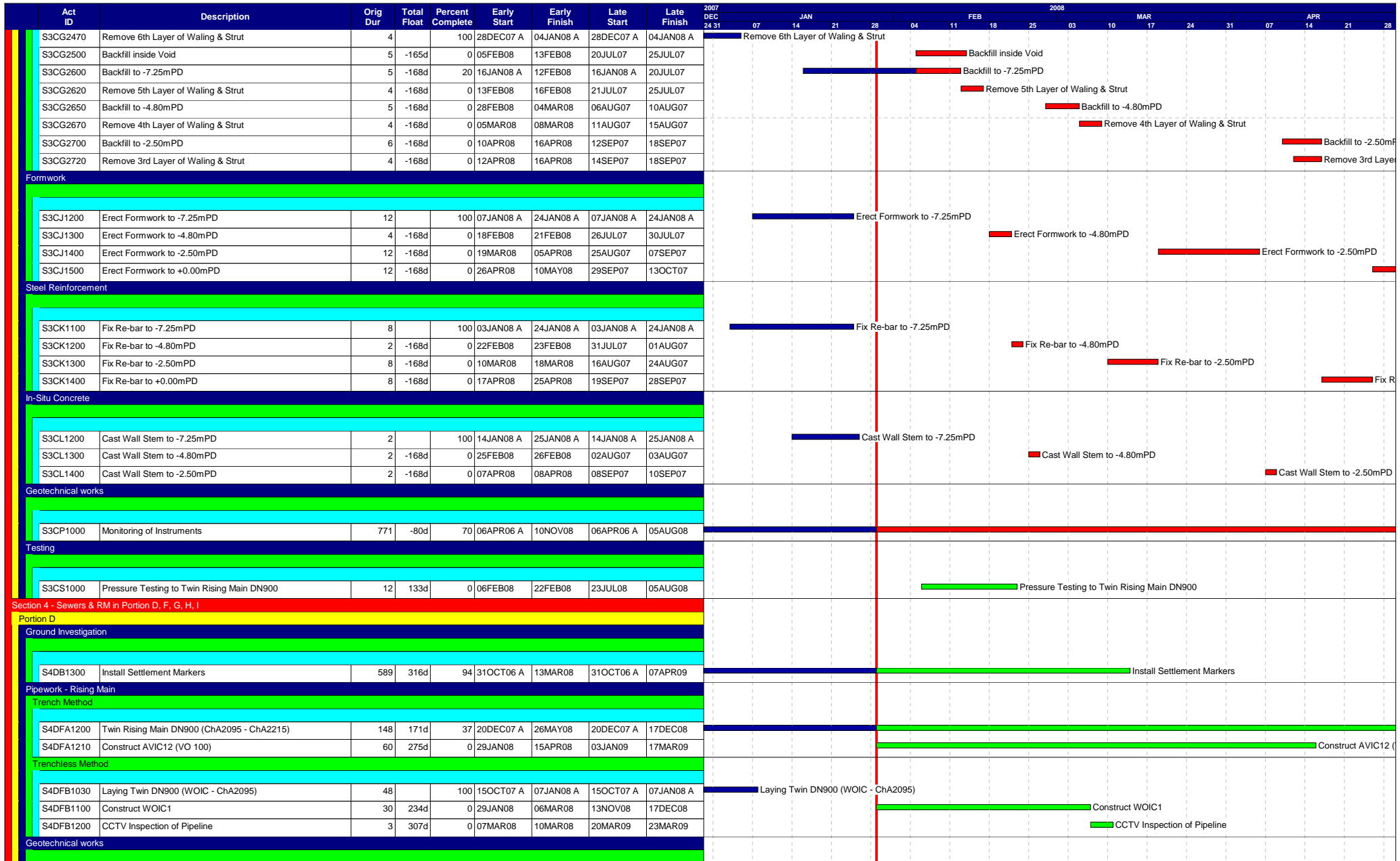


Start date 19DEC05  
 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 2A  
 Primavera Systems, Inc.

Leader Civil Engineering Corp. Ltd.  
 DSD Contract No. DC/2005/02  
 3-Month Rolling Programme - 3M01 at 29 January 2008

■ Early bar  
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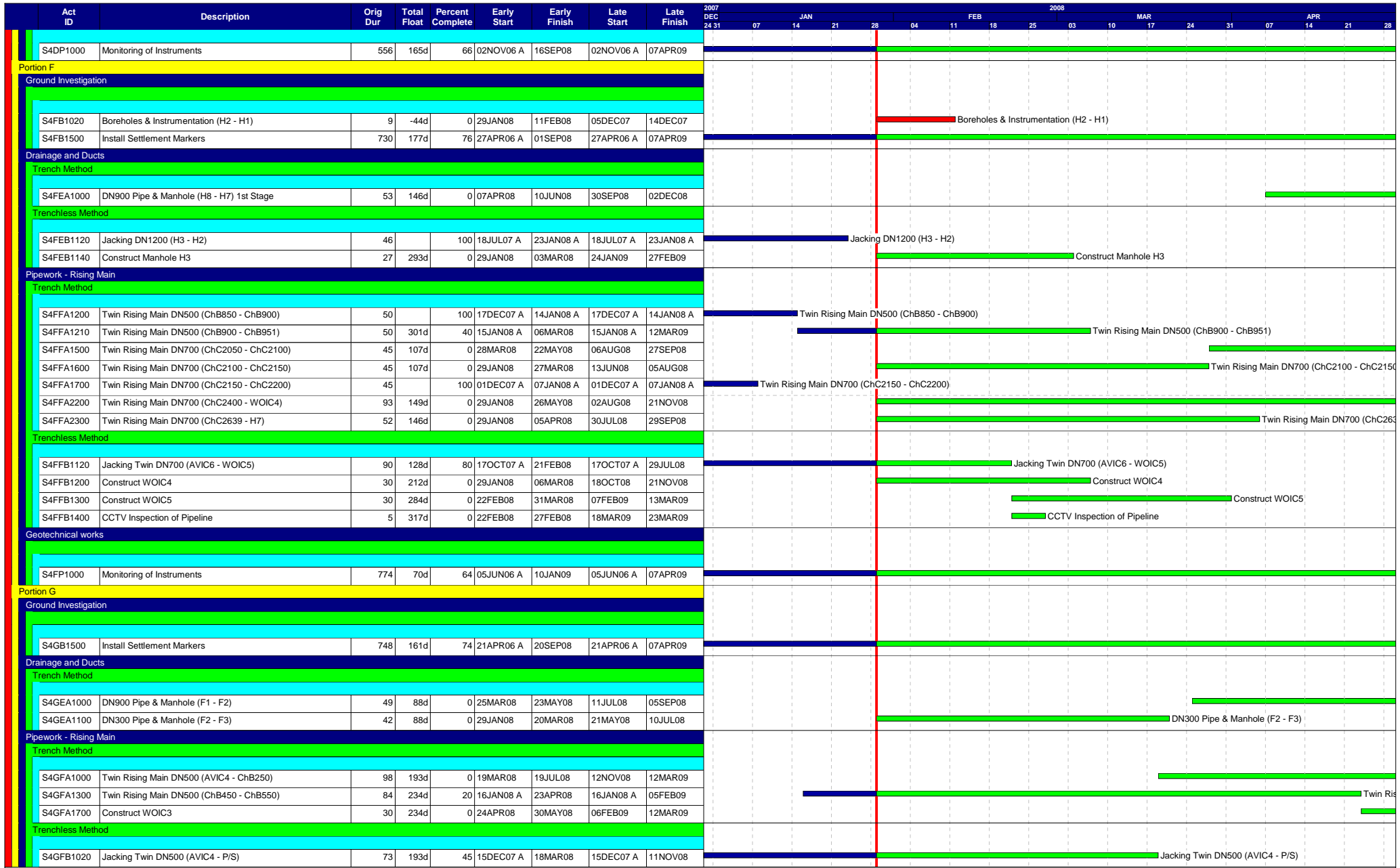


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 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 3A  
 Primavera Systems, Inc.

**Leader Civil Engineering Corp. Ltd.**  
**DSD Contract No. DC/2005/02**  
**3-Month Rolling Programme - 3M01 at 29 January 2008**

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■ Critical bar  
■ Summary bar  
◆ Start milestone point  
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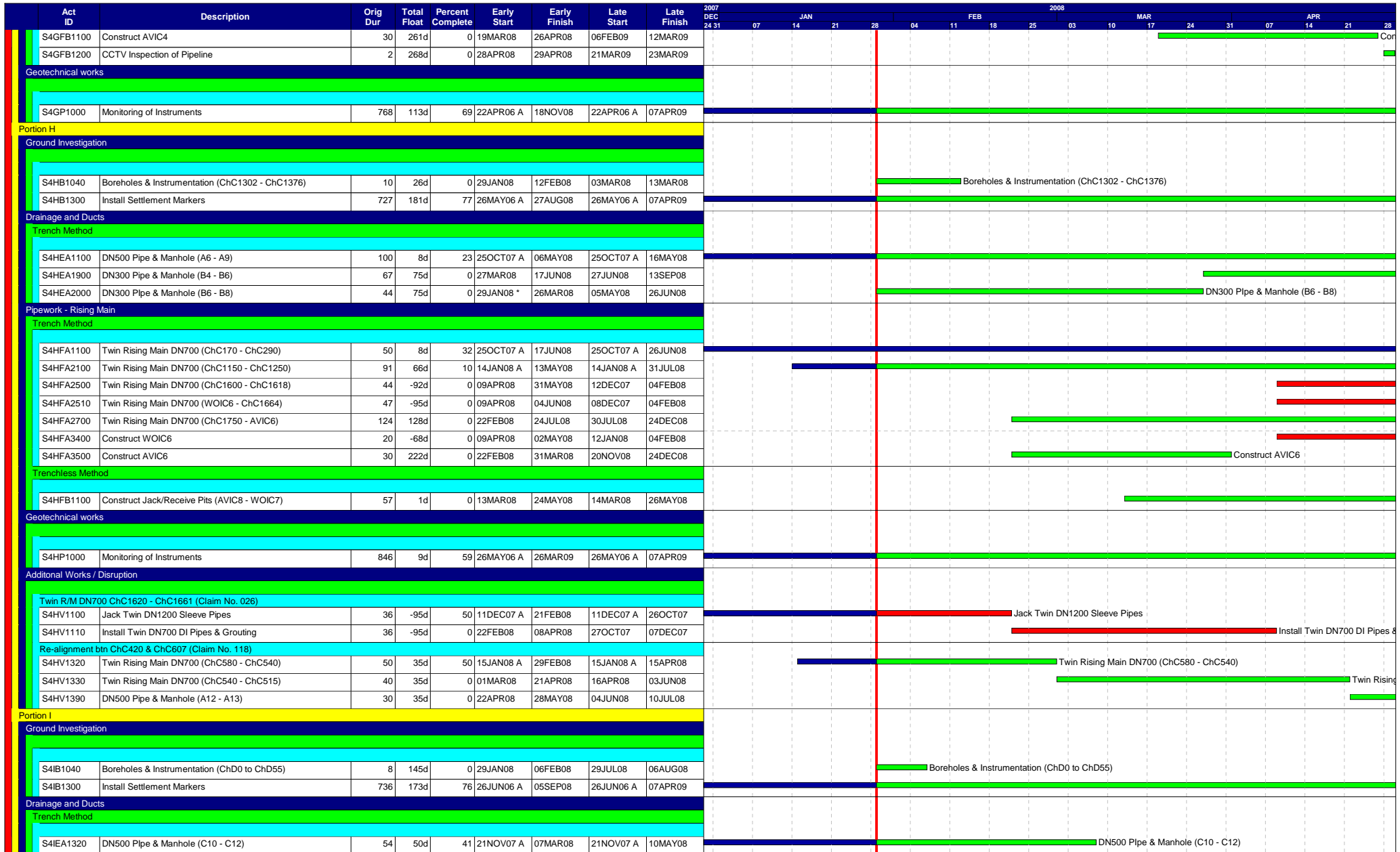


Start date 19DEC05  
 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 4A  
 Primavera Systems, Inc.

**Leader Civil Engineering Corp. Ltd.**  
**DSD Contract No. DC/2005/02**  
**3-Month Rolling Programme - 3M01 at 29 January 2008**

■ Early bar  
■ Progress bar  
■ Critical bar  
■ Summary bar  
◆ Start milestone point  
◆ Finish milestone point




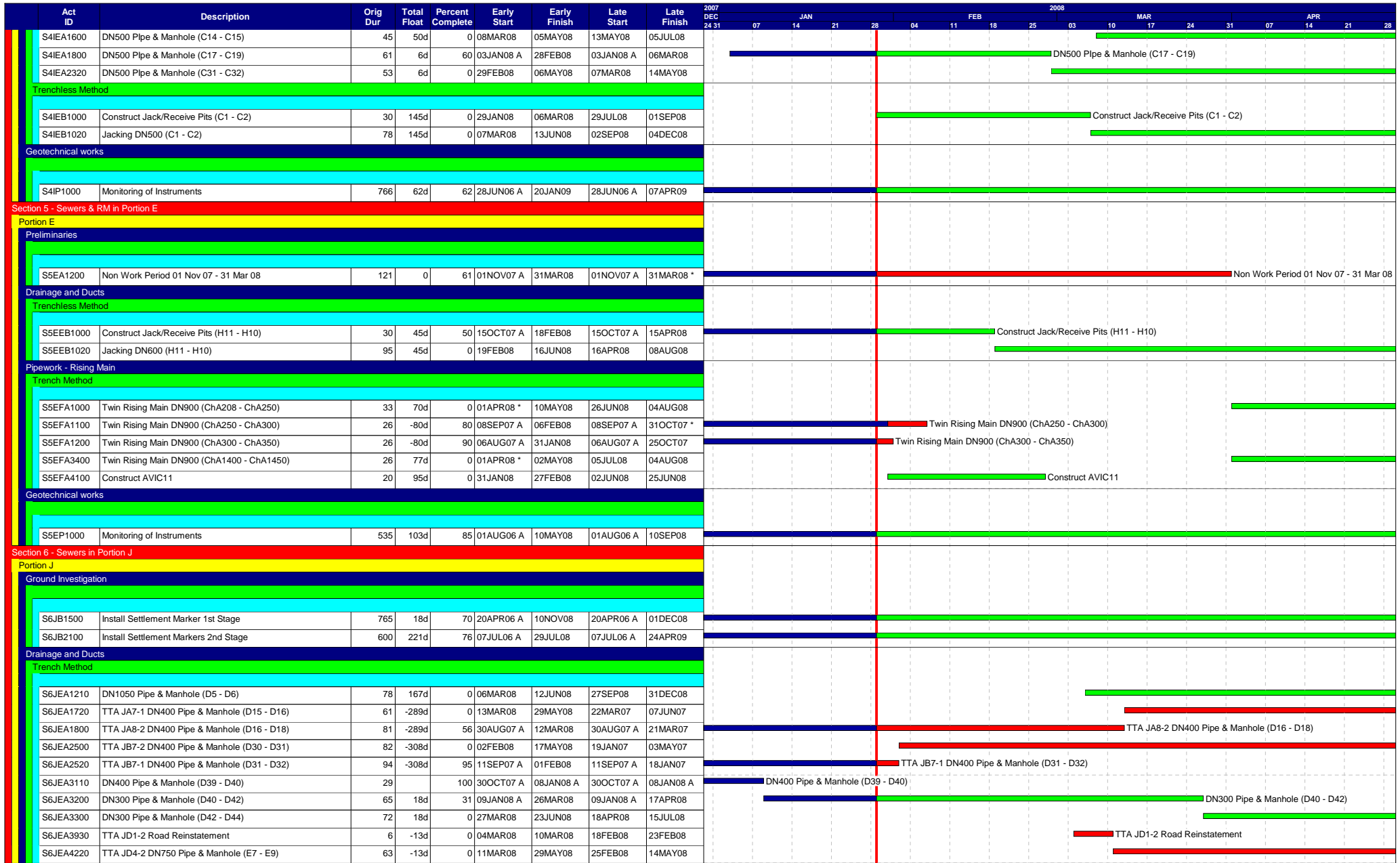


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 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 5A  
 Primavera Systems, Inc.

**Leader Civil Engineering Corp. Ltd.**  
**DSD Contract No. DC/2005/02**  
**3-Month Rolling Programme - 3M01 at 29 January 2008**

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point




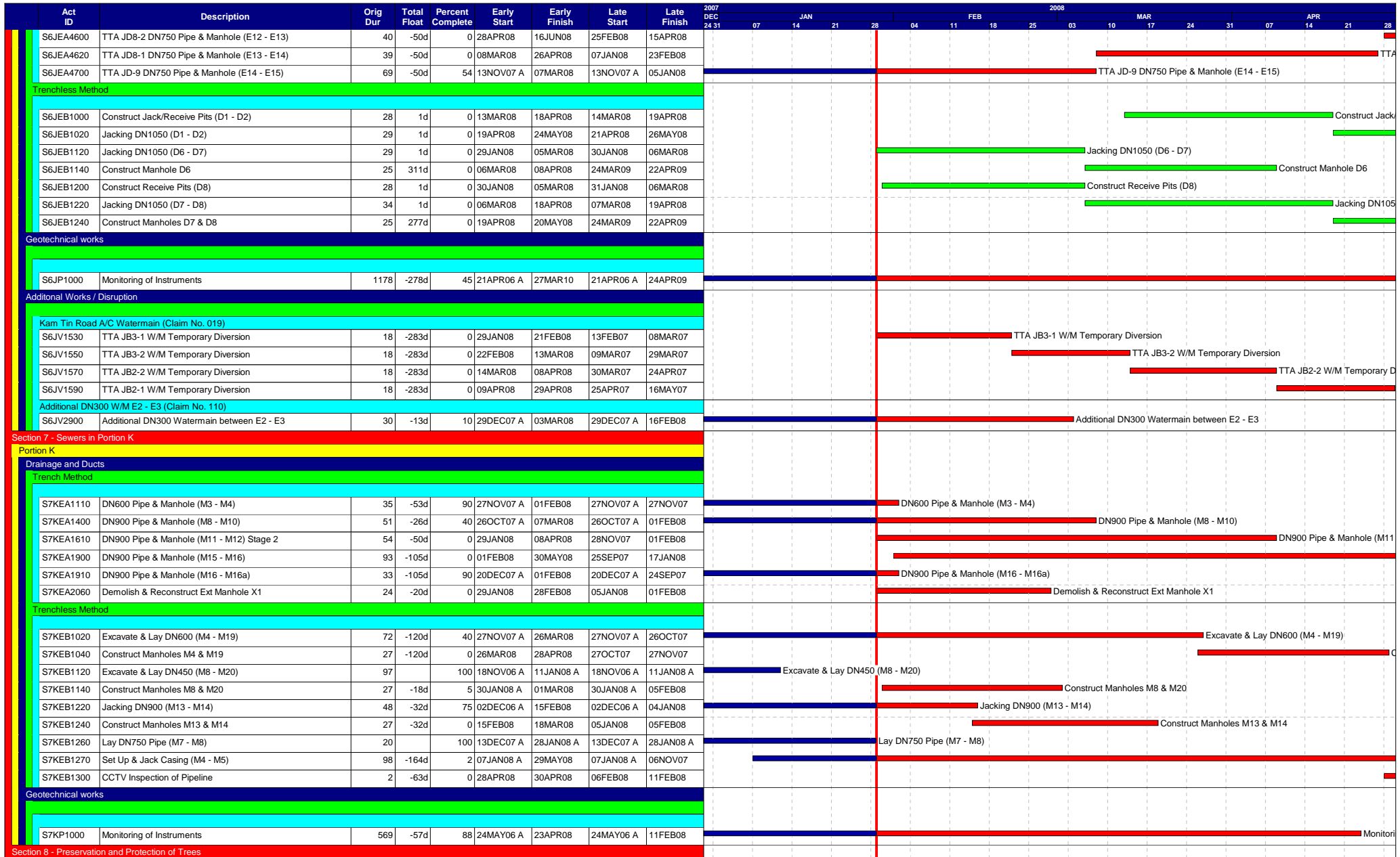


Start date 19DEC05  
 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 6A  
 Primavera Systems, Inc.

Leader Civil Engineering Corp. Ltd.  
 DSD Contract No. DC/2005/02  
 3-Month Rolling Programme - 3M01 at 29 January 2008

■ Early bar  
■ Progress bar  
■ Critical bar  
■ Summary bar  
◆ Start milestone point  
◆ Finish milestone point






Start date 19DEC05  
 Finish date 05MAY10  
 Data date 29JAN08  
 Page number 7A  
 Primavera Systems, Inc.

**Leader Civil Engineering Corp. Ltd.**  
**DSD Contract No. DC/2005/02**  
**3-Month Rolling Programme - 3M01 at 29 January 2008**

■ Early bar  
■ Progress bar  
■ Critical bar  
■ Summary bar  
◆ Start milestone point  
◆ Finish milestone point



Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish	2008																	
									2007	JAN				FEB				MAR				APR				
									DEC	07	14	21	28	04	11	18	25	03	10	17	24	31	07	14	21	28
<b>All Portions</b>																										
Landscape Softworks and Establishment Works																										
S8QR1100	Preservation & Protection of Preserved Trees	744	0	60	29JUL06 A	29JAN09	29JUL06 A	29JAN09	[Critical bar]																	
<b>Decontamination Works</b>																										
<b>Portion B</b>																										
Decontamination																										
S9BU1000	Decontamination Works	48	120d	0	29JAN08	31MAR08	28JUN08	23AUG08	[Early bar]																	
<b>Portion G</b>																										
Decontamination																										
S9GU1000	Decontamination Works	48	262d	0	25MAR08	22MAY08	10FEB09	07APR09	[Early bar]																	

Start date	19DEC05
Finish date	05MAY10
Data date	29JAN08
Page number	8A
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**Leader Civil Engineering Corp. Ltd.**  
**DSD Contract No. DC/2005/02**  
**3-Month Rolling Programme - 3M01 at 29 January 2008**

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point





**Annex D**

**Photographical Records – Noise Barrier On-Site**



## **Annex E**

### **Locations of Monitoring Stations**



1. - ALL DIMENSIONS OF THIS MAP  
 2. - AS SHOWN ON THE ORIGINAL  
 3. - AS SHOWN ON THE ORIGINAL  
 4. - AS SHOWN ON THE ORIGINAL

LEGEND:  
 - - - - - BOUNDARY OF THE  
 - - - - - BOUNDARY OF THE  
 - - - - - BOUNDARY OF THE

**FOR WORKER PURPOSES ONLY**

DATE	1957
SCALE	1" = 100'
PROJECTION	UTM
COORDINATE SYSTEM	NAD 83
UNIT	METERS
VERTICAL DATUM	MEAN SEA LEVEL
MAP SHEET NO.	203015000
SECTION	21501

INFORMATION ON THE  
 MAP SHEET NO. 203015000  
 SECTION 21501

SOURCE OF DATA  
 U.S. GEOLOGICAL SURVEY

MAP SHEET NO. 203015000  
 SECTION 21501

SERGEANT MARSHALL DISTRICT

UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

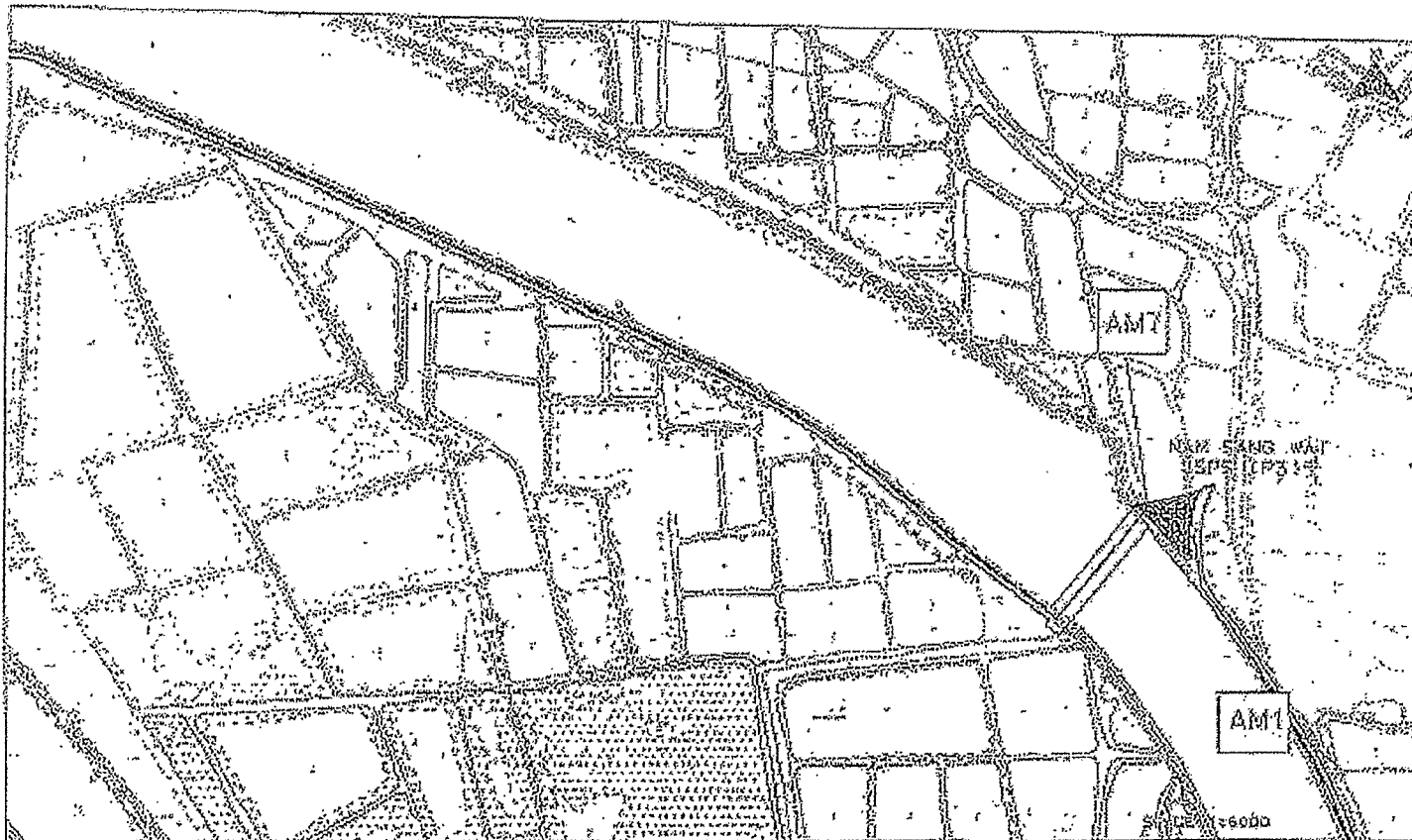


FIGURE C1

LOCATION OF BUSY HERITAGE STATIONS (AMT) AND A (AMT)

DATE: 2011/01/20  
 SCALE: 1:5000

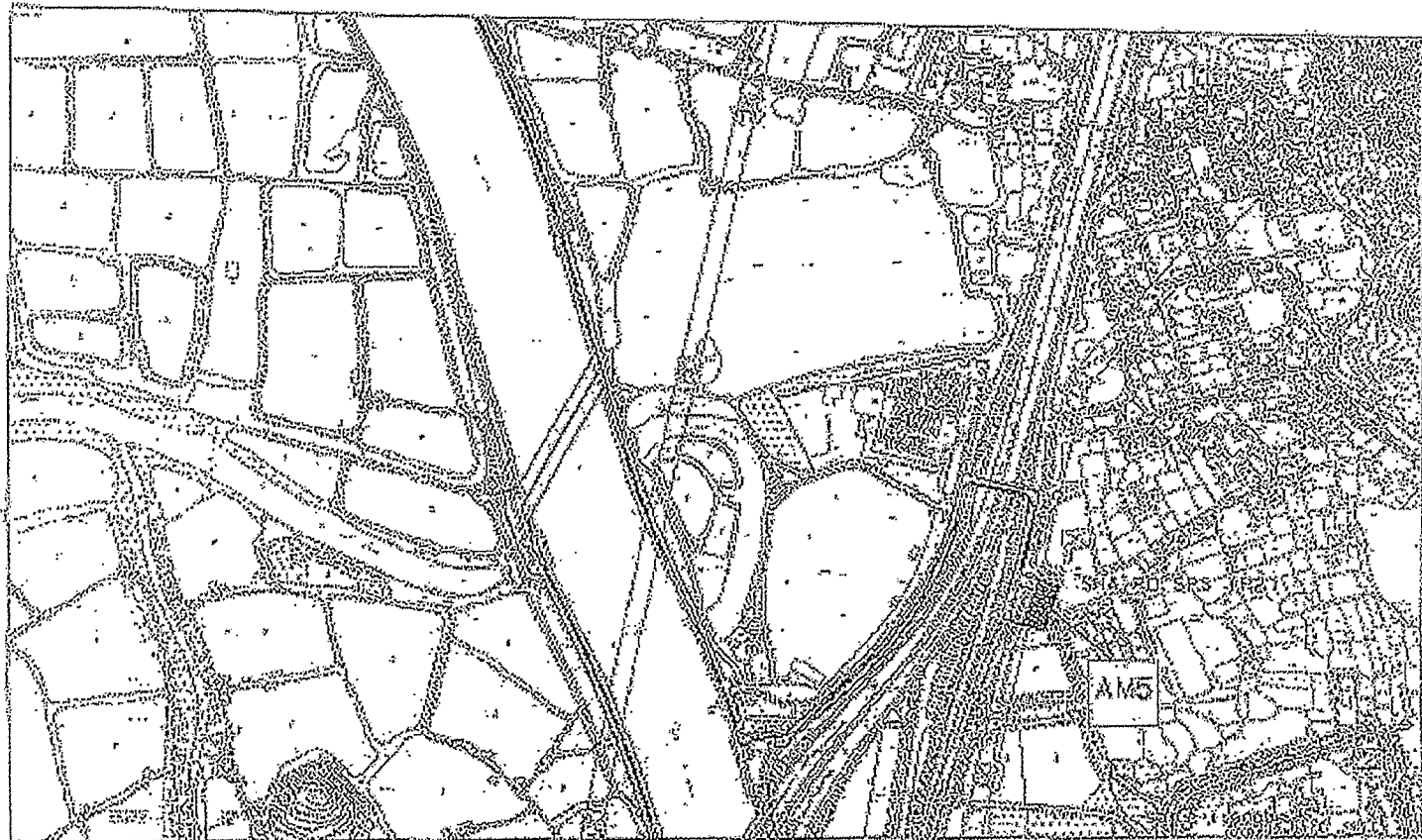


FIGURE 02

LOCATION OF DUST MONITORING STATION (AM5)

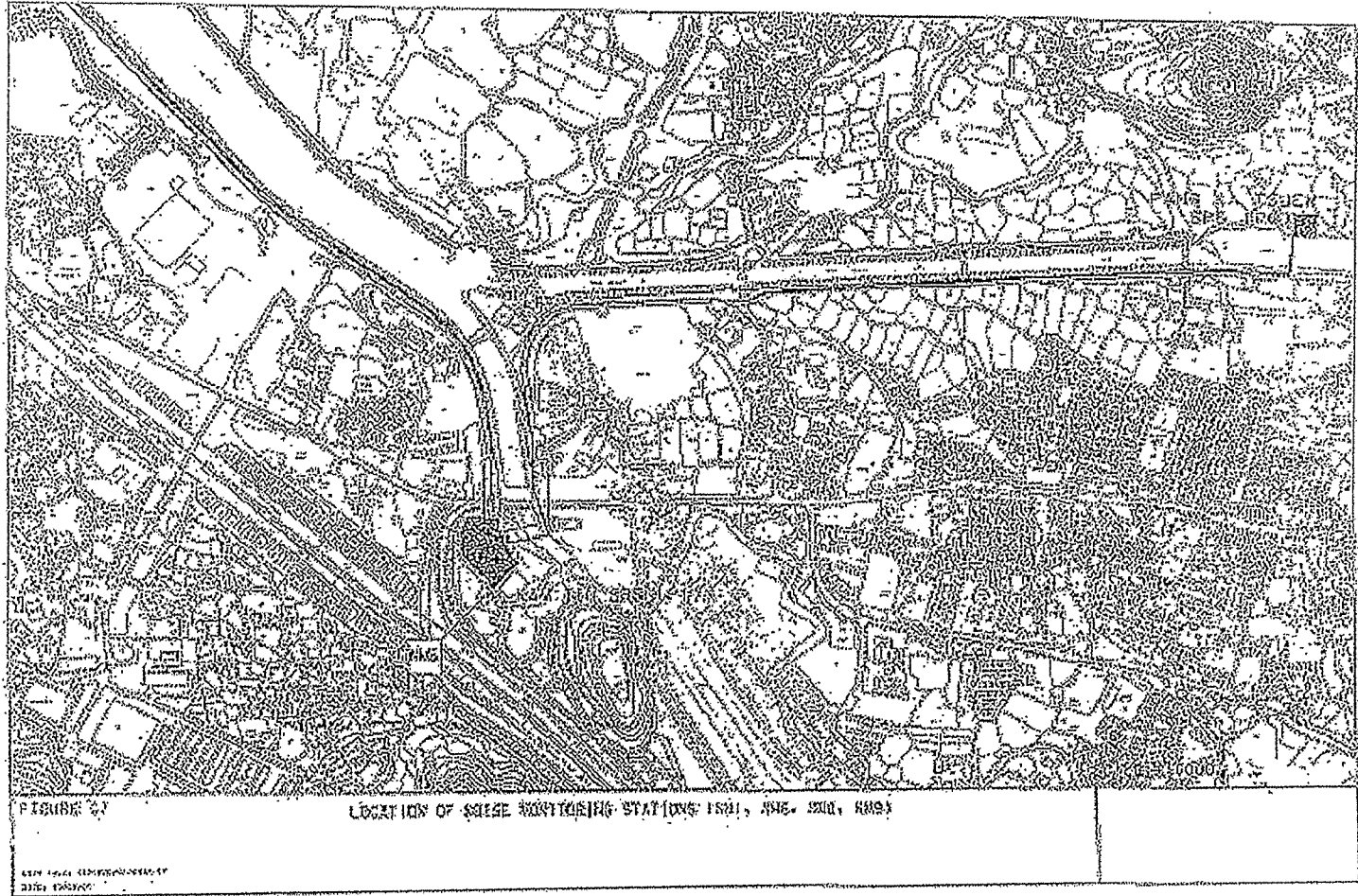
AM5  
DUST MONITORING STATION



FIGURE G-1

LOCATION OF DUST MONITORING STATIONS (AM4, AM5 & AM10)

Source: EPA, 1992  
Scale: 1:25,000





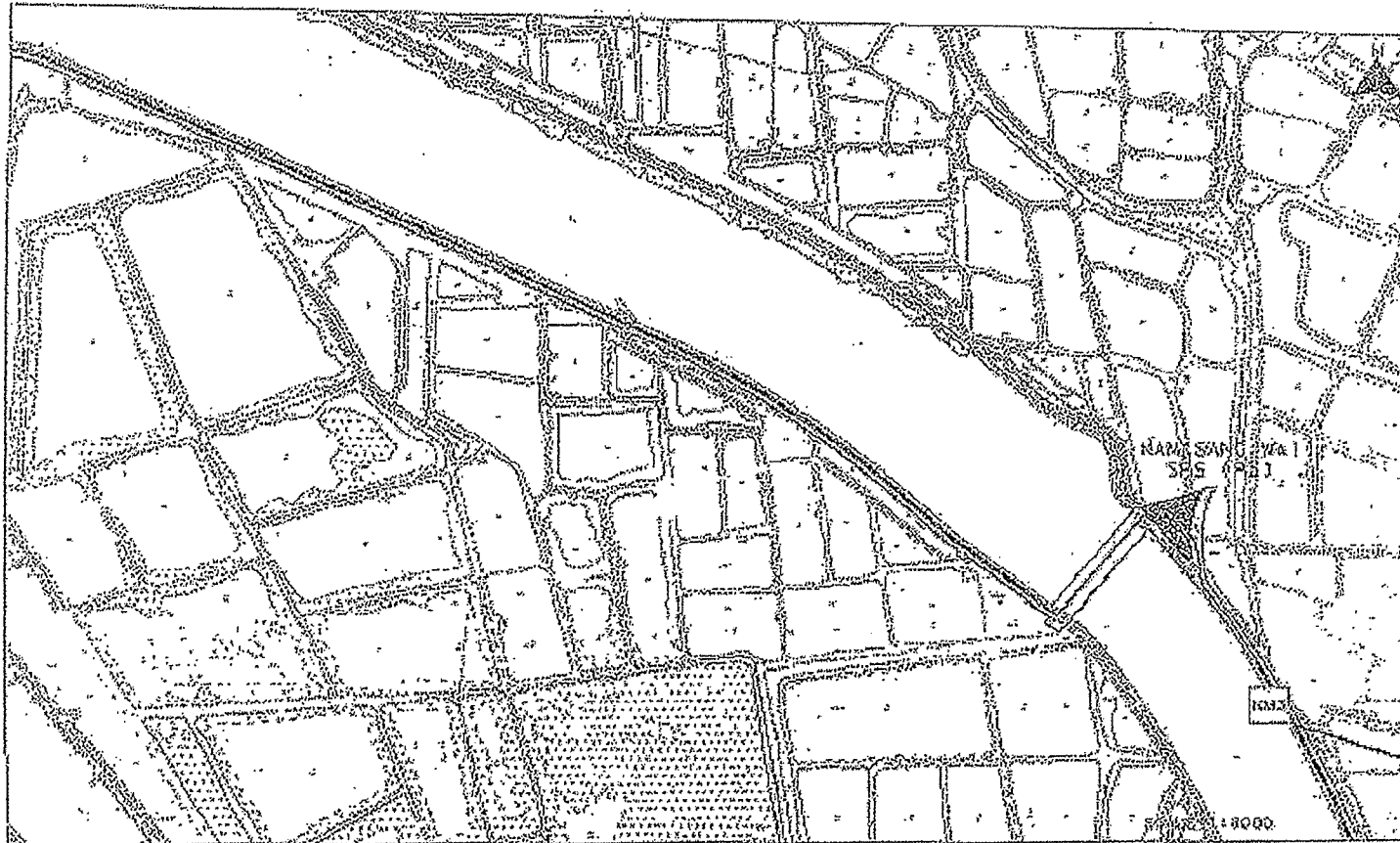


FIGURE 10

LOCATION OF NOISE MONITORING STATIONS (MNS, EMS)

DEPARTMENT OF TRANSPORTATION  
 STATE PLANNING

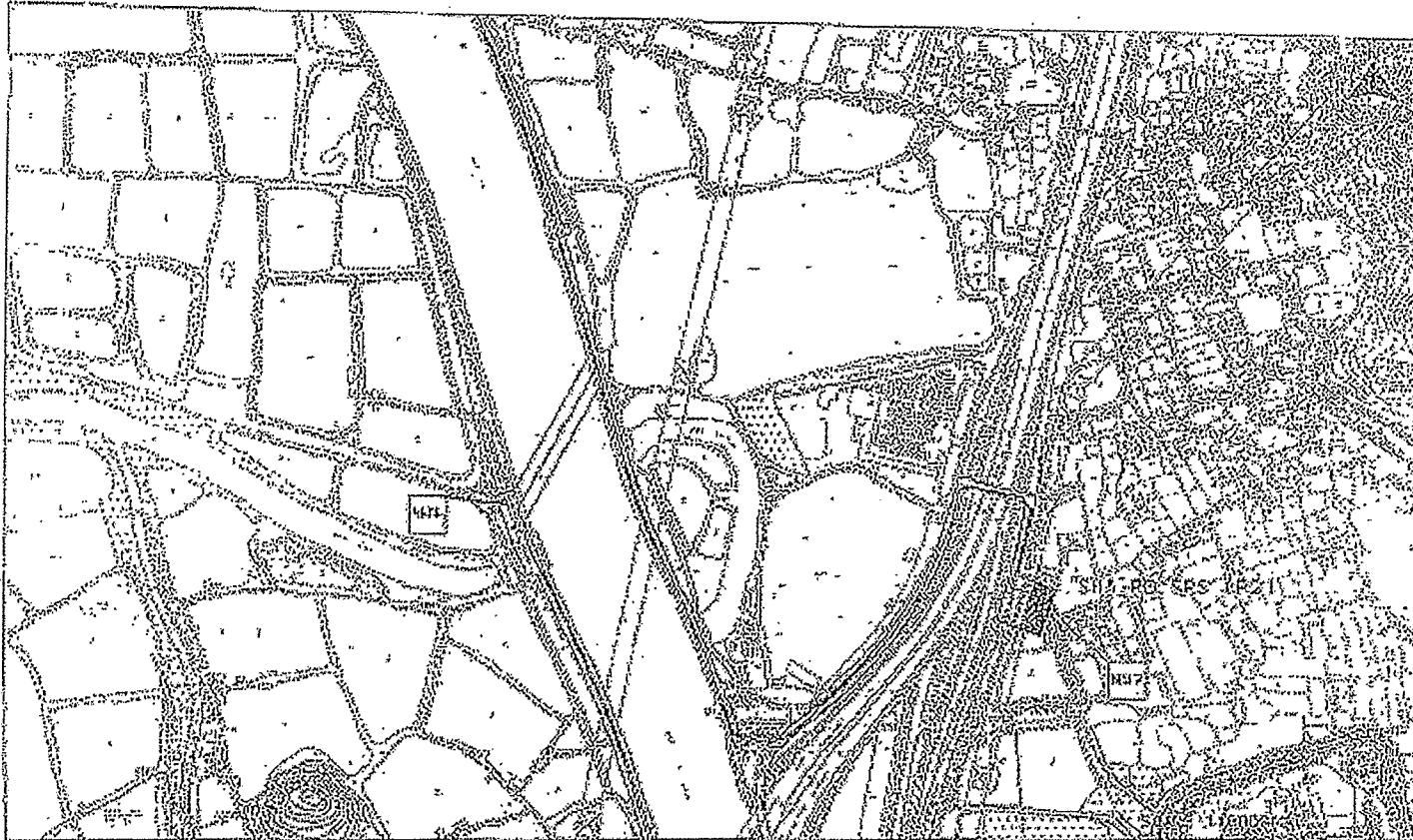


FIGURE 29.

LOCATION OF NOISE MONITORING STATIONS (DATA NOT)

ENVIRONMENTAL ENGINEERING  
SUNSHINE

## **Annex F**

### **Event and Action Plan**

**Event and Action Plan for Construction Phase Air Quality**

EVENT	ACTION			
	ET Leader	IEC	Engineer	Contractor
<b>Action Level</b>				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source (s) of exceedance and inform IEC, Contractor and Engineer</li> <li>2. Repeat dust measurements to confirm findings</li> <li>3. Increase monitoring frequency to daily</li> <li>4. Assess efficacy of remedial measures and keep the Contractor, IEC, and Engineer informed</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Check monitoring data trends and Contractors working methods</li> <li>3. Check and confirm Contractors proposed remedial actions and working methods are appropriate</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Remind the Contractor of his contractual obligations and review the Contractor's working methods</li> <li>3. Discuss remedial actions with the Contractor and IEC</li> <li>4. Inform complainant of actions taken, if necessary</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice</li> <li>2. Liaise with Engineer and IEC to develop appropriate remedial measures to reduce dust impact</li> <li>3. Amend working methods and remedial proposals if required by the Engineer or IEC</li> <li>4. Implement the agreed remedial actions upon instruction from the Engineer and IEC</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source (s) of exceedance and inform IEC, Contractor and Engineer</li> <li>2. Repeat measurements to confirm findings</li> <li>3. Increase the monitoring frequency to daily to assess the efficacy of remedial measures and keep the Contractor informed</li> <li>4. Discuss remedial actions with IEC and Contractor</li> <li>5. If exceedance continues, arrange meeting with Engineer, IEC and Contractor to review working practices and identify further remedial actions</li> <li>6. If exceedance stops, inform the Contractor and cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Check monitoring data trends and Contractors working methods</li> <li>3. Discuss with Contractor and Engineer on possible remedial measures</li> <li>4. Check and confirm Contractors proposed remedial measures are appropriate</li> <li>5. Determine the efficacy of remedial actions and keep the Engineer informed</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Remind the Contractor of his contractual obligations and review the Contractor's working methods</li> <li>3. Discuss remedial actions with the Contractor and IEC</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Inform complainant of actions taken, if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice, if possible</li> <li>2. Submit proposals for remedial actions to Engineer and IEC within three working days of notification</li> <li>3. Discuss and amend remedial actions, if required, by the Engineer and IEC</li> <li>4. 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</li> </ol>
<b>Limit Level</b>				

## Event and Action Plan for Construction Phase Air Quality

EVENT	ACTION			
	ET Leader	IEC	Engineer	Contractor
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source (s) of exceedance and inform IEC, Contractor and Engineer</li> <li>2. Repeat dust measurements to confirm findings</li> <li>3. Increase monitoring frequency to daily</li> <li>4. Assess efficacy of remedial measures and keep the Contractor, IEC, Engineer and EPD informed</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Check monitoring data trends and Contractors working methods</li> <li>3. Check and confirm Contractors proposed remedial actions and working methods are appropriate</li> <li>4. Check and confirm Contractors proposed remedial measures are appropriate</li> <li>5. Determine the efficacy of remedial actions and keep the Engineer informed</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Remind the Contractor of his contractual obligations and review the Contractor's working methods</li> <li>3. Discuss remedial actions with the Contractor and IEC,</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Inform complainant of actions taken, if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to Engineer and IEC within three working days of notification</li> <li>3. Discuss and amend remedial actions, if required, by the Engineer and IEC</li> <li>4. Implement the remedial action (s) immediately upon instruction from the Engineer</li> <li>5. Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source (s) of exceedance and inform IEC, Contractor and Engineer</li> <li>2. Repeat measurements to confirm findings</li> <li>3. Increase the monitoring frequency to daily to assess the efficacy of remedial measures and keep the Contractor informed</li> <li>4. Discuss remedial actions with IEC and Contractor</li> <li>5. If exceedance continues, arrange meeting with Engineer, IEC and Contractor to review working practices and identify further remedial actions</li> <li>6. If exceedance stops, inform the Contractor and cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with Contractor and Engineer on possible remedial measures</li> <li>2. Check and confirm Contractors proposed remedial measures are appropriate</li> <li>3. Determine the efficacy of remedial actions and keep the Engineer informed</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Remind the Contractor of his contractual obligations and review the Contractor's working methods</li> <li>3. Discuss remedial actions with the Contractor and IEC</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. If exceedance continues, instruct the Contractor to stop the relevant portion of work until the exceedance is abated</li> <li>6. Inform complainant of actions taken, if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice, if possible</li> <li>2. Submit proposals for remedial actions to Engineer and IEC within three working days of notification</li> <li>3. Discuss and amend remedial actions, if required, by the Engineer and IEC</li> <li>4. Implement the remedial action (s) immediately upon instruction from the Engineer</li> <li>5. Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions</li> </ol>

Event and Action Plan for Construction Noise				
EVENT	ACTION			
	ET Leader	IEC	Engineer	Contractor
<b>Limit Level</b>				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source (s) of exceedance and inform IEC, Contractor and Engineer</li> <li>2. Repeat dust measurements to confirm findings</li> <li>3. If repeat measurements confirm exceedance ,increase monitoring frequency to daily</li> <li>4. Assess efficacy of remedial measures and keep the Contractor, IEC, and Engineer informed</li> <li>5. If exceedance stops, inform Contractor and cease additional noise monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Check monitoring data trends and Contractors working methods</li> <li>3. Check and confirm Contractors proposed remedial actions and working methods are appropriate</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Remind the Contractor of his contractual obligations and review the Contractor's working methods</li> <li>3. Discuss remedial actions with the Contractor and IEC</li> <li>4. Inform complainant of actions taken, if necessary</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice</li> <li>2. Liaise with Engineer and IEC to develop appropriate remedial measures to reduce noise impact</li> <li>3. Amend working methods and remedial proposals if required by the Engineer or IEC</li> <li>4. Implement the agreed remedial actions upon instruction from the Engineer and IEC</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source (s) of exceedance and inform IEC, Contractor and Engineer</li> <li>2. Repeat measurements to confirm findings</li> <li>3. Increase the monitoring frequency to daily</li> <li>4. Discuss remedial actions with IEC, Engineer and the EPD</li> <li>5. Assess the efficacy of remedial measures and keep the Contractor informed</li> <li>6. If exceedance continues, arrange meeting with Engineer, IEC and Contractor to review working practices and identify further remedial actions</li> <li>7. If exceedance stops, inform the Contractor and cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Check monitoring data trends and Contractors working methods</li> <li>3. Discuss with Contractor and Engineer on possible remedial measures</li> <li>4. Check and confirm Contractors proposed remedial measures are appropriate</li> <li>5. Determine the efficacy of remedial actions and keep the Engineer informed</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Remind the Contractor of his contractual obligations and review the Contractor's working methods</li> <li>3. Discuss remedial actions with the Contractor and IEC</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. If exceedance continues, instruct the Contractor to stop the relevant portion of work until the exceedance is abated</li> <li>6. Inform complainant of actions taken, if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice, if possible</li> <li>2. Submit proposals for remedial actions to Engineer and IEC within three working days of notification</li> <li>3. Discuss and amend remedial actions, if required, by the Engineer and IEC</li> <li>4. Implement the remedial action (s) immediately upon instruction from the Engineer</li> <li>5. Discuss with Engineer and IEC, to optimise the effectiveness of the agreed remedial actions</li> <li>6. Stop the relevant portion of work as determined by the Engineer until the exceedance is abated</li> </ol>

## **Annex G**

### **Mitigation Implementation Schedule**

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
<b>CONSTRUCTION PHASE</b>										
<b>AIR QUALITY - Construction Phase</b>										
		The following measures are enforceable under the <i>Air Pollution Control (Construction Dust) Regulations</i>								
3.5	A1	<p><b>Site boundary and entrance</b></p> <ul style="list-style-type: none"> <li>where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the boundaries of the seven pumping stations sites and the works area where the Engineer's site office and the Contractor's site office erected;</li> </ul>	To prevent access to the site and control potential dust impacts from construction works.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part III, Clause 13 (c), Air Pollution Control (Construction Dust) Regulations</i>
3.5	A2	<p><b>Access Road</b></p> <ul style="list-style-type: none"> <li>the portion of any road leading only to a construction site that is within 30 m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials;</li> </ul>	To control potential dust impacts from vehicle movements.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part III, Clause 14, (b), Air Pollution Control (Construction Dust) Regulations</i>
3.5	A3	<p><b>Stockpiling of Dusty Materials</b></p> <ul style="list-style-type: none"> <li>any stockpile of dusty materials should be either covered entirely by impervious sheeting and placed in an area sheltered on the top and the 3 sides or sprayed with water so as to maintain the entire surface wet;</li> </ul>	To control potential dust impacts during excavation and stockpiling activities.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part IV, Clause 18, (a, b &amp; c), Air Pollution Control (Construction Dust) Regulations</i>
3.5	A4	<p><b>Loading, unloading or transfer of dusty materials</b></p> <ul style="list-style-type: none"> <li>all dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading and unloading so as to maintain the dusty materials wet;</li> </ul>	To control potential dust impacts during material handling and truck movements.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part IV, Clause 19, Air Pollution Control (Construction Dust) Regulations</i>
3.5	A5	<p><b>Use of vehicles</b></p> <ul style="list-style-type: none"> <li>every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site;</li> </ul>	To control potential dust impacts from vehicle movements.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part IV, Clause 21, (1), Air Pollution Control (Construction</i>



EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
3.5	A6	<ul style="list-style-type: none"> <li>where a vehicle leaving a construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> </ul>	To control potential dust impacts during material transportation.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Dust) Regulations Part IV, Clause 21, (2), Air Pollution Control (Construction Dust) Regulations</i>
3.5	A7	<p><b>Power-driven drilling, and cutting</b></p> <ul style="list-style-type: none"> <li>water should be continuously sprayed on the surface where any mechanical breaking operation that causes dust emission is carried out, unless the process is accompanied by the operation of an effective dusty extraction and filtering device;</li> </ul>	To control potential dust impacts during mechanical breaking.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part IV, Clause 22, Air Pollution Control (Construction Dust) Regulations</i>
3.5	A8	<p><b>Excavation and earth moving</b></p> <ul style="list-style-type: none"> <li>the working area of excavation should be sprayed with water immediately before, during and immediately after the operation so as to maintain the entire surface wet;</li> </ul>	To control potential dust impacts arising from excavation works.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Part IV, Clause 24, Air Pollution Control (Construction Dust) Regulations</i>
3.5	A9	<p><b>Construction of the superstructure of a building</b></p> <ul style="list-style-type: none"> <li>where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the round floor level of the SPS, or if a canopy is provided at the first floor level, from the first floor level, up to the highest level of the scaffolding; and</li> </ul>	To control potential dust impacts from SPS building construction works.	Full duration of SPS construction contract.	The Contractor		✓			<i>Part I, Clause 6, (a), Air Pollution Control (Construction Dust) Regulations</i>
3.5	A10	<ul style="list-style-type: none"> <li>any skip hoist for material transport should be totally enclosed by the impervious sheeting.</li> </ul>	To control potential dust impacts during material transportation.	Full duration of SPS construction contract.	The Contractor		✓			<i>Part I, Clause 6, (b), Air Pollution Control (Construction Dust) Regulations</i>

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
		<b>NOISE - Construction Phase</b>								
4.7.1	B1	<p><b>General Site Clearance – Demolition Works</b></p> <ul style="list-style-type: none"> <li>Use of quiet PME which meet the SWLs taken from British Standard, <i>Noise and Vibration Control on Construction Open Sites, BS 5228: Part 1: 1997</i> (Examples of these PME are shown in Table F2),</li> </ul>	To control potential noise impacts during site clearance and demolition works	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Annex 5 of EIAO-TM</i>
4.7.1	B2	<p><b>Construction of Sewage Pumping Stations P1, P2 &amp; P3</b></p> <ul style="list-style-type: none"> <li>Use of quiet PME which meet the SWLs taken from British Standard, <i>Noise and Vibration Control on Construction Open Sites, BS 5228: Part 1: 1997</i>,</li> <li>Adoption of temporary noise barrier, in the form of a site hoarding (with a superficial density of at least 20kg/m<sup>2</sup>, with no substantial gaps), along the site boundary of the pumping station sites.</li> </ul>	To minimise potential noise impacts arising during the construction of P1, P2 & P3	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Annex 5 of EIAO-TM</i>
4.7.1	B3	<p><b>Sewers and Rising Mains using Open Trench Method</b></p> <ul style="list-style-type: none"> <li>Use of quiet PME which meet the SWLs taken from British Standard, <i>Noise and Vibration Control on Construction Open Sites, BS 5228: Part 1: 1997</i>,</li> </ul>	To minimise potential noise impacts arising during the construction of P1, P2 & P3	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Annex 5 of EIAO-TM</i>
4.7.1	B4	<ul style="list-style-type: none"> <li>Use of handheld breakers for all initial road opening activities, when breaking tarmac/concrete road surface to a depth of 300mm or when granular material is reached.</li> </ul>	To control potential noise impacts during road opening activities.	Where there are NSRs located within 50m of the line of sight. Throughout the full duration of the road opening activities.	The Contractor		✓			
4.7.1	B5	<ul style="list-style-type: none"> <li>Use of movable noise barriers or 3 sided enclosures for all initial road opening activities</li> </ul>	To control potential noise impacts during road opening	Where there are NSRs located within 50m of the	The Contractor		✓			

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
4.7.1	B6	enclosures for all initial road opening activities (breaking tarmac/concrete road surface to a depth of 300mm or when granular material is reached), where there are NSRs located within 50m of the line of sight from the works area.  <b>Sewers and Rising Mains using Pipe Jacking Method</b> • Use of quiet PME which meet the SWLs taken from British Standard, <i>Noise and Vibration Control on Construction Open Sites, BS 5228: Part 1: 1997,</i>	activities.  To control potential noise impacts from PME during construction works	line of sight. Throughout the full duration of the road opening activities.  Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Annex 5 of EIAO-TM</i>
4.7.1	B7	<b>Road Pavement and Finishes</b> • Use of quiet PME which meet the SWLs taken from British Standard, <i>Noise and Vibration Control on Construction Open Sites, BS 5228: Part 1: 1997,</i>	To control potential noise impacts from PME during pavement and finish works	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Annex 5 of EIAO-TM</i>
		<b>WATER QUALITY - Construction Phase</b>  No water quality monitoring is required under this study.								
6.6.2	D1	<b>WASTE - Construction Phase</b>  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 ( <i>Waste Disposal (Chemical Waste) (General) Regulations</i> ); and  • Dumping Licence ( <i>Land (Miscellaneous Provisions) Ordinance (Cap 28)</i> )	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	✓	✓			<i>Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste)(General) Regulation (Cap 354), the Land (Miscellaneous Provisions) Ordinance (Cap 28))</i>

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
6.6.2	D2	<p><b>Chemical Waste</b> Chemical waste that is produced, as defined by Schedule 1 of the <i>Waste Disposal (Chemical Waste) (General) Regulation</i>, should be handled in accordance with the regulations and Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. All chemical waste producers should be registered with the EPD.</p>	To control the handling, storage and disposal of chemical waste, in order to minimise potential spillages/leakages and human health and environmental impacts.	To be implemented at all worksites throughout the full duration of the construction phase.	The Contractor		✓			<i>Part II, (6) Waste Disposal (Chemical Waste) (General) Regulation</i>
6.6.2	D3	<p><b>Storage, Packaging and Labelling of Chemical Waste</b> Containers used for storage of chemical wastes should:</p> <ul style="list-style-type: none"> <li>be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.</li> </ul>	To ensure the proper storage, packaging and labelling of chemical waste in accordance with the Regulations.	To be implemented at all worksites throughout the full duration of the construction phase.	The Contractor		✓			<i>Part IV, (9, 10, 11 &amp; 12) Waste Disposal (Chemical Waste) (General) Regulation</i>
6.6.2	D4	<p><b>Storage of chemical waste</b> The storage area for chemical wastes should:</p> <ul style="list-style-type: none"> <li>be clearly labelled and used solely for the storage of chemical waste;</li> <li>be enclosed on at least 3 sides;</li> <li>have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> <li>have adequate ventilation;</li> <li>be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste, if necessary); and</li> <li>be arranged so that incompatible materials are</li> </ul>	To ensure the proper storage of chemical waste in accordance with the Regulations.	To be implemented at all worksites throughout the full duration of the construction phase.	The Contractor		✓			<i>Part IV, (13,14, 15, 16, 17, &amp; 18) Waste Disposal (Chemical Waste) (General) Regulation</i>

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
		adequately separate								
6.6.2	D5	<p><b>Disposal of chemical waste</b></p> <ul style="list-style-type: none"> <li>The Contractor should ensure that the disposal of chemical waste is via a licensed Waste Collector and in accordance with the <i>Waste Disposal (Chemical Waste) (General) Regulations</i>.</li> </ul> <p><i>Management of Waste Disposal</i> A trip-ticket system should be established which monitors the disposal of C&amp;DM and solid wastes at public filling facilities and landfills and to control fly-tipping, in accordance with <i>Land (Miscellaneous Provisions) Ordinance (Cap28)</i> and the <i>Works Bureau Technical Circular No. 5/99</i>.</p>	<p>To control the disposal of chemical waste in accordance with the Regulations.</p> <p>To monitor the disposal of C&amp;DM and solid wastes at public filling facilities and landfills and to control fly-tipping.</p>	<p>To be implemented at all worksites throughout the full duration of the construction phase.</p> <p>To be implemented at all worksites throughout the full duration of the construction phase.</p>	<p>The Contractor</p> <p>The Engineer/ Contractor</p>		✓			<p><i>Part IV, (20 -25) Waste Disposal (Chemical Waste) (General) Regulation</i></p> <p><i>Land (Miscellaneous Provisions) Ordinance (Cap 295) and Works Bureau Technical Circular No. 5/99.</i></p>
7.5.6	E1	<p><b>LAND CONTAMINATION- Construction Phase</b></p> <p>A revised CAP should be submitted to the EPD for approval before the commencement of the construction works. Following receipt of the EPD's approval, the CAP shall be implemented and the findings of the investigations will be reported in the Contaminated Assessment Report (CAR), before ground disturbance is allowed at the concerned sites.</p> <p>If land contamination is confirmed, a Remediation Action Plan (RAP) shall be prepared, and both the CAR and the RAP shall be submitted as a combined report to the EPD for approval before disturbing the ground of the concerned sites. If applicable and required in consultation with the</p>	<p>To determine the presence of soil and groundwater contamination and remedy any potential concerns to acceptable levels.</p>	<p>To be implemented before the commencement of the construction works.</p>	<p>To be Implemented by DSD or their sub-consultants at the Detailed Design Stage, depending upon when site access can be gained.</p>	✓				<p><i>EIAO TM Annex 19/3.1.1 &amp; 3.1.2</i></p>

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
		EPD, the contaminated site(s) shall be remediated in accordance with the approved CAR/RAP.								
8.7.1	F1	<p><b>ECOLOGY - Construction Phase</b>  <b>Mitigation Measures Adopted - Avoidance</b>            Construction activities shall be prohibited during the winter season (November to March) along the section of the proposed sewerage alignment, which fall within the Deep Bay Wetland Conservation Area and the Deep Bay Wetland Buffer Area (WCA and WBA) and close to the locations of ecologically sensitive species (including Intermediate Egret, Black-faced Spoonbill, Buzzard, Imperial Eagle and Avocet). (See Figure 8.7a attached). Regular site inspections (at least twice a month) should be conducted by the Environmental Team during the winter season (November to March) to ensure proper implementation of this restriction</p>	To schedule construction works in order to minimise potential impacts to winter visiting birds. To be confirmed by regular site inspections.	At identified location ( <i>Figure 8.7a</i> ) for the full duration of the construction contract.	The Contractor		✓			
8.7.2	F2	<p><b>Mitigation Measures Adopted - Minimisation</b>            Pipe jacking method should be used instead of dredging where sewers and rising mains cross over existing MDC within the WCA and WBA.</p>	To minimise potential construction noise impacts to ecological sensitive receivers within the WCA/WBA.	For the full duration of the construction contract.	The Contractor		✓			
8.7.2	F4	<p>Regular inspections (at least twice a month) should be conducted by the ET during the winter season (November to March) for the remaining sections of the proposed sewerage alignment (including parts of S4, S5 and S6) within the WCA and WBA, where construction activities cannot be rescheduled.</p> <p>The site inspections shall check and report the number of workfronts and implementation of</p>	To schedule noisy construction activities to minimise potential impacts to winter visiting birds.	Work fronts other than identified sections within WBA & WCA (see <i>Figure 8.7a</i> attached) throughout the full duration of the construction contract.	The Contractor		✓			

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
8.7.3	F5	mitigation measures (i.e. erection of movable noise barriers with a suitable footing along the sites) in the monthly EM&A reports.  <b>Mitigation Measures Adopted</b> Quietened construction plant and equipment (as shown in <i>Table F2</i> ) should be used for the construction of pumping stations (P3 and P2) and sewerage alignment (S4, S5 and S6) located within the WCA and WBA.	Quiet construction plant shall minimise potential noise impacts to the wildlife, particularly rare birds including Black-faced Spoonbill, Buzzard, Hobby, Imperial Eagle, Intermediate Egret, Avocet and Black-eared Kite	At described locations and throughout the full duration of the construction contract.	The Contractor		✓			
8.7.4	F6	Erection of fences along the boundary of pumping station construction sites (P1 to P3) before the commencement of construction works to prevent tipping, vehicle movements, and encroachment of personnel into adjacent areas, and P2 to avoid disturbance to the remaining pond areas (0.7 ha);	To erect fences to prevent encroachment of construction activities onto adjacent areas.	At P1 to P3 for full duration of the construction contract.	The Contractor		✓			
8.7.4	F7	No filling and dumping to the remaining abandoned fishpond at P2.	To avoid disturbance to abandoned fishponds from construction activities and illegal dumping.	At P2 for full duration of the construction contract	The Contractor		✓			
8.7.4	F8	Installation and operation of silt removal facilities at construction sites of P1 to P3. The silt removal facilities should be designed in accordance with Appendix A1 of ProPECC Note PN1/94 Construction Site Drainage. The minimal total combined volume of the silt removal facilities at Nam Sang Wai SPS (P3) should be 15m <sup>3</sup> .	To install silt removal facilities in potentially impact streams and ponds to prevent sedimentation.	At P1 to P3 for full duration of the construction contract.	The Contractor		✓			
8.7.4	F9	No open fires within the site boundary during	To prohibit open fires, thereby	Site wide and throughout	The Contractor		✓			<i>Air Pollution Control</i>

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
8.7.4	F7	construction and provide temporary fire fighting equipment in the work areas. No filling and dumping to the remaining abandoned fishpond at P2.	minimising potential damage to trees and shrubs. To avoid disturbance to abandoned fishponds from construction activities and illegal dumping.	the full duration of the construction contract. At P2 for full duration of the construction contract	The Contractor		✓			(Open Burning) Regulation
8.7.4	F8	Installation and operation of silt removal facilities at construction sites of P1 to P3. The silt removal facilities should be designed in accordance with Appendix A1 of ProPECC Note PN1/94 Construction Site Drainage.	To install silt removal facilities in potentially impact streams and ponds to prevent sedimentation.	At P1 to P3 for full duration of the construction contract.	The Contractor		✓			
8.7.4	F9	No open fires within the site boundary during construction and provide temporary fire fighting equipment in the work areas.	To prohibit open fires, thereby minimising potential damage to trees and shrubs.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			Air Pollution Control (Open Burning) Regulation
		<b>FISHERIES - Construction Phase</b>  No specific mitigation measures are required for inclusion in the EP.								
		<b>CULTURAL HERITAGE – Not Applicable for Package 1A-1T (DC/2005/02)</b>								
		<b>LANDSCAPE AND VISUAL - Construction Phase</b>								
	H1	The site inspections shall check and report the implementation of mitigation measures (i.e. top-soil are reused and new compensatory planting works are carried out immediately after the construction of the civil structure) in the monthly EM&A reports.  The first monthly EM&A Report should also report the appearance of the temporary hoarding barriers.	To minimise potential landscape and visual impacts.	To be implemented during the construction phases of the project.	The Contractor		✓			
	H2	Prior to application for an Environmental Permit, a set of landscape plans and building elevations of the proposed pumping stations should be	To minimise potential landscape and visual impacts.	To be implemented during the design and construction phases of the	DSD and The Contractor	✓	✓			



EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
		submitted for approval by the EPD.  The landscape plans and pumping station elevations should demonstrate that the following elements are considered: <ul style="list-style-type: none"> <li>existing landscape elements (such as mature trees), transplantation of valuable trees, new compensatory planting</li> </ul>		project.						
		<ul style="list-style-type: none"> <li>incorporate information on materials, details and textures so as to be as visually recessive as possible and in a style that fits with the surrounding village buildings.</li> <li>colour should be of low chromatic intensity to reduce the potential contrast between the structures and their background. The external finishing of the Pumping Stations shall be designed in conjunction with the landscape scheme.</li> <li>a minimum screen planting of 3m width and use of trees with a dense canopy of up to 5 m in height subject to constraints such as engineering and land availability.</li> <li>felling of mature trees are kept to a minimum.</li> </ul>								
3.7	I1	<p><b>EM&amp;A REQUIEMENTS - Construction Phase</b></p> <p><i>Air Quality</i> 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.</p> <ul style="list-style-type: none"> <li>Worksite boundary facing Scattered house in Nam Sang Wai (AM1);</li> <li>Worksite boundary facing Fung Kat Heung (AM5);</li> <li>Worksite boundary facing Scattered House near Route 3 (AM6);</li> </ul>	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		✓			<i>Air Pollution Control (Construction Dust) Regulations</i>

EIA* Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measures & Main Concerns	Location of the measure	Implementation Agent	Implementation Stage**				Relevant Legislation & Guidelines
						Des	C	O	Dec	
4.9.1	I2	<ul style="list-style-type: none"> <li>at any additional locations, where considered necessary, in agreement with EPD.</li> </ul> <p><i>Construction Noise</i> 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.</p> <ul style="list-style-type: none"> <li>(NM3) Scattered House in Nam San Wai (D12);</li> <li>(NM4) Scattered House in Nam San Wai (D11);</li> <li>(NM6) Scattered House near Route 3 (D17);</li> <li>(NM7) Fung Kat Heung (D19);</li> <li>and at any additional locations, where considered necessary, in agreement with EPD</li> </ul>	Installations of the noise monitoring stations to ensure the action and limit levels are not exceeded.	At specified noise monitoring locations throughout the duration of the construction works.	To be undertaken by the Environmental Team (ET) and reviewed and audited by the Engineer		✓			<i>Noise Control Ordinance</i>

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

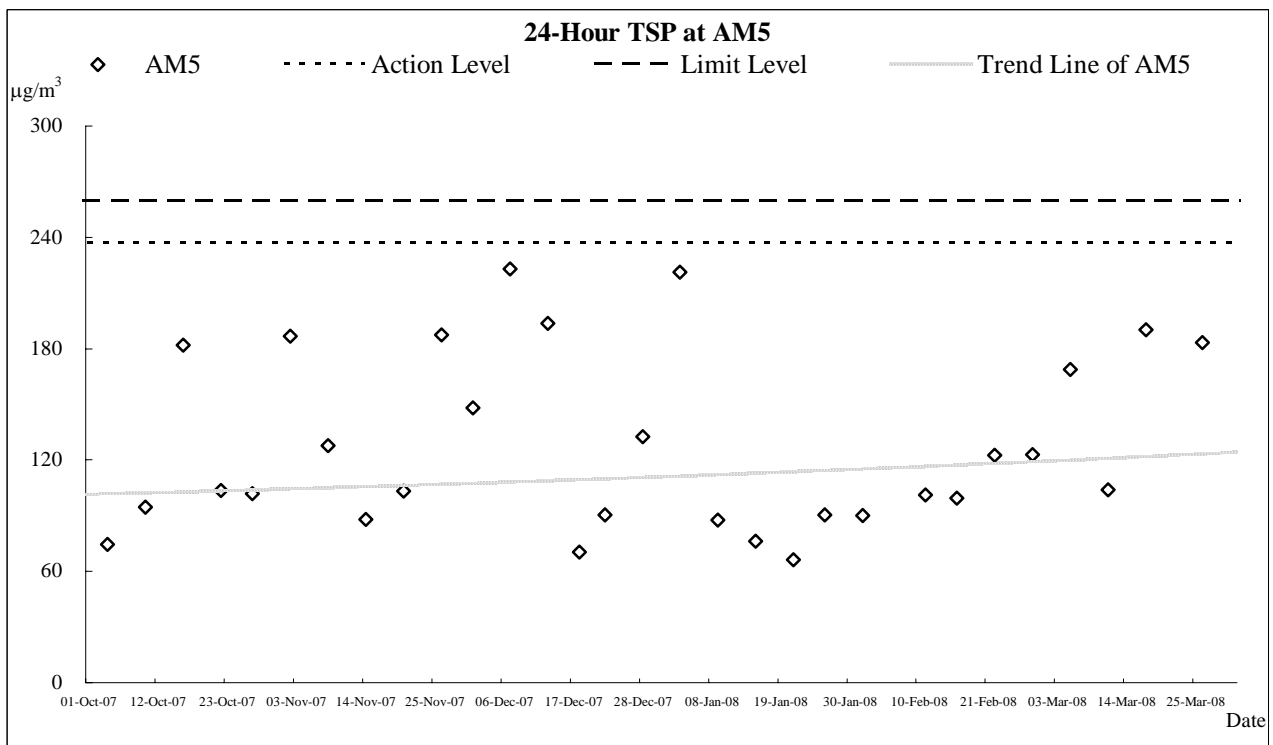
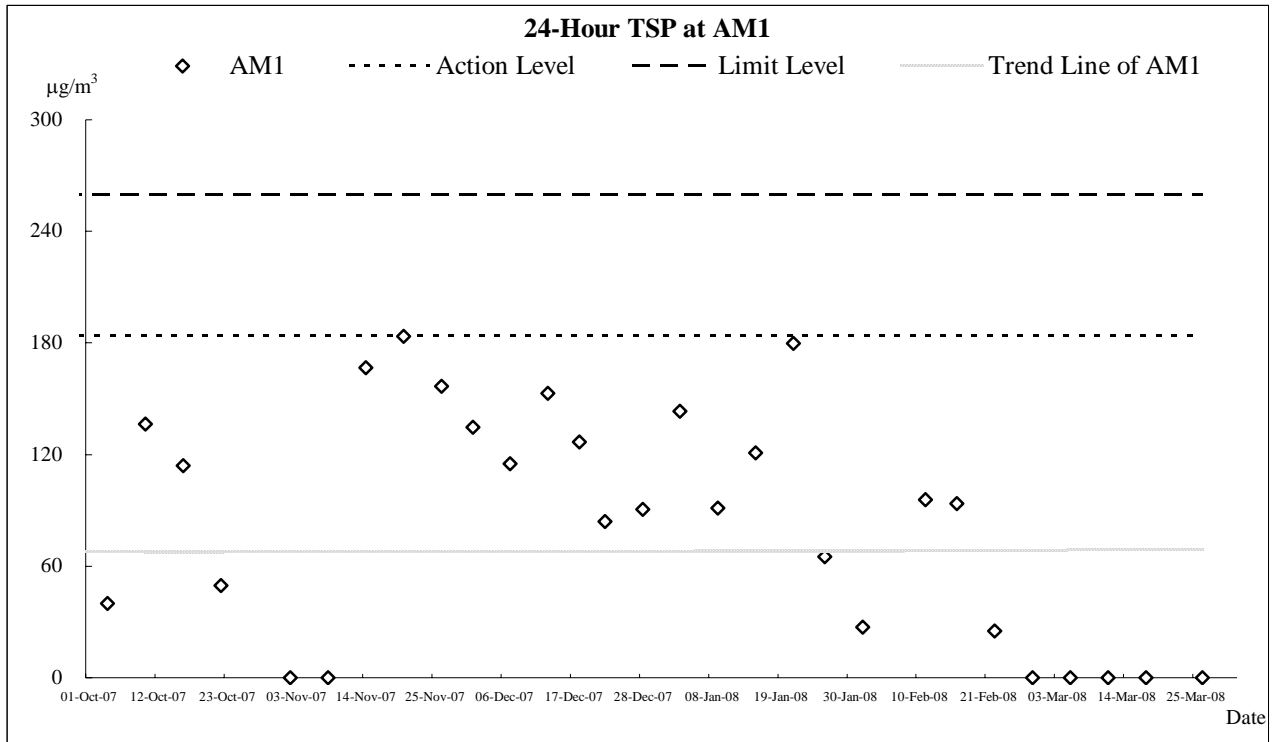
**Annex H**

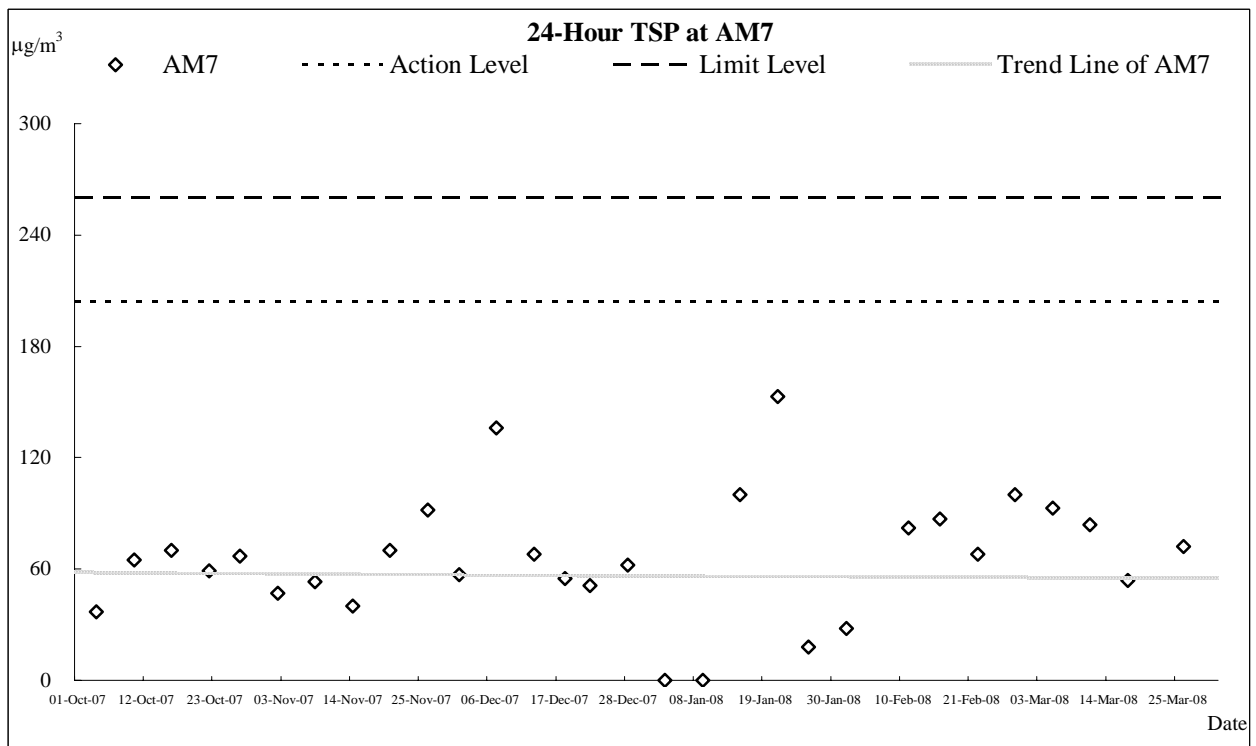
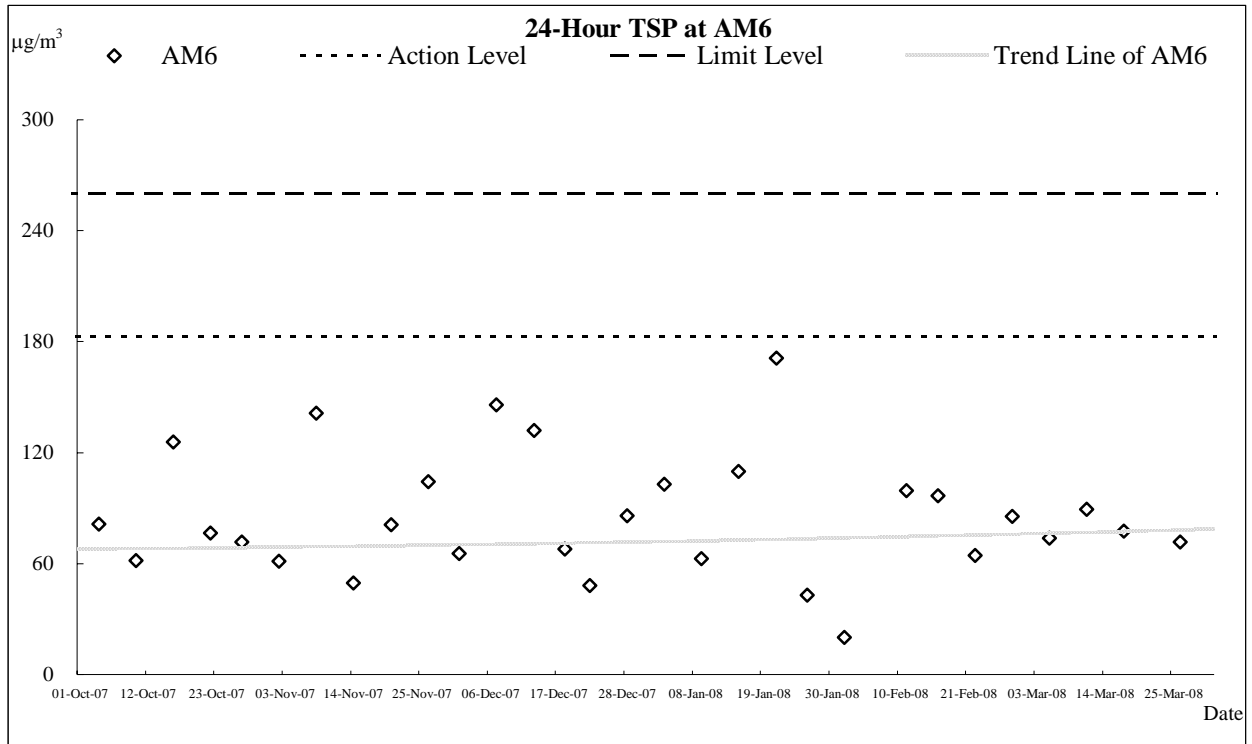
**Monitoring Results & Graphical Plots of Air Quality  
and  
Noise Monitoring Results**

**Air Quality Monitoring Results & Graphical Plot**

Date	24-Hr TSP ( $\mu\text{g}/\text{m}^3$ )			
	AM1	AM5	AM6	AM7
4-Oct-07	40	74	82	36
10-Oct-07	136	95	62	64
16-Oct-07	114	182	126	69
22-Oct-07	50	104	77	58
27-Oct-07	Power Shortage	102	72	66
02-Nov-07	Power Shortage	187	61	47
08-Nov-07	Power Shortage	128	141	52
14-Nov-07	167	88	50	40
20-Nov-07	184	103	81	70
26-Nov-07	157	187	104	92
01-Dec-07	135	148	65	56
07-Dec-07	115	223	146	135
13-Dec-07	153	194	132	68
18-Dec-07	127	71	68	54
22-Dec-07	84	90	48	50
28-Dec-07	91	133	86	61
03-Jan-08	143	221	103	Power Shortage
09-Jan-08	91	88	63	Power Shortage
15-Jan-08	121	76	110	100
21-Jan-08	180	66	171	153
26-Jan-08	65	91	43	17
01-Feb-08	27	90	20	28
11-Feb-08	96	101	99	82
16-Feb-08	94	99	97	87
22-Feb-08	25	123	65	68
28-Feb-08	Power failure	123	86	100
05-Mar-08	Power failure	169	74	93
11-Mar-08	Power failure	104	89	84
17-Mar-08	Power failure	190	78	54
26-Mar-08	Power failure	183	72	72
Average (Range)	109 (25 – 184)	128 (66 - 223)	86 (20 - 171)	70 (17 - 153)

All 24-Hr TSP monitoring were preset to start at 00:00 on each monitoring date.





## Construction Noise Monitoring Results & Graphical Plot

### *Noise Monitoring Results at NM3*

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30	Corrected * Leq30
05-Oct-07	10:53	55.1	46.1	44.9	43.4	42.4	44.4	48.9	51.9
11-Oct-07	10:59	48.7	50.1	50.4	51.6	48.7	49.8	50.0	53.0
17-Oct-07	10:50	51.9	56.8	52.1	53.8	50.7	51.1	53.3	56.3
23-Oct-07	10:52	53.8	54.2	53.2	51.8	53.3	52.1	53.1	56.1
29-Oct-07	10:50	48.6	50.1	50.3	53.8	51.2	49.8	51.0	54.0
03-Nov-07	11:26	47.4	47.7	48.8	52.6	49.6	48.0	49.4	52.4
09-Nov-07	15:20	52.2	55.9	48.4	54.3	50.2	49.8	52.6	55.6
15-Nov-07	11:36	47.9	46.4	51.8	45.8	44.5	45.6	47.8	50.8
21-Nov-07	11:28	47.2	46.7	47.4	46.2	54.2	49.2	49.6	52.6
27-Nov-07	11:22	49.6	49.6	50.5	49.6	48.7	49.6	49.6	52.6
03-Dec-07	11:21	50.0	50.0	65.5	58.5	52.1	51.0	59.0	62.0
08-Dec-07	11:00	54.3	53.2	53.3	53.3	52.5	53.0	53.3	56.3
14-Dec-07	10:56	47.8	47.0	47.8	47.6	53.2	52.5	50.1	53.1
19-Dec-07	10:56	54.9	49.7	50.2	48.6	49.3	51.4	51.3	54.3
24-Dec-07	10:43	51.8	45.8	44.5	47.9	46.4	50.4	48.6	51.6
31-Dec-07	10:49	57.5	53.9	57.4	54.7	53.4	53.8	55.5	58.5
05-Jan-08	10:44	51.0	59.3	53.6	52.1	53.9	52.6	54.8	57.8
11-Jan-08	10:50	50.4	52.1	50.3	51.4	51.7	53.0	51.6	54.6
17-Jan-08	11:05	49.9	62.1	72.3	53.8	52.3	54.9	65.1	68.1
23-Jan-08	11:21	56.8	61.9	56.4	57.1	52.6	52.1	57.4	60.4
29-Jan-08	14:32	54.6	56.3	56.9	51.4	51.9	56.8	55.2	58.2
04-Feb-08	15:06	51.7	52.4	51.9	51.5	50.1	50.3	51.4	54.4
13-Feb-08	13:42	43.8	43.3	44.4	45.8	45.5	47.3	45.2	48.2
19-Feb-08	10:33	48.6	47.7	48.8	47.7	44.3	45.5	47.4	50.4
25-Feb-08	11:23	56.6	55.5	55.4	55.0	55.7	55.4	55.6	58.6
01-Mar-08	10:37	46.6	43.6	44.0	45.3	58.3	45.8	51.5	54.5
07-Mar-08	10:30	54.3	53.8	54.6	54.5	52.7	55.2	54.3	57.3
13-Mar-08	14:37	48.6	55.6	55.6	56.7	48.7	49.6	53.8	56.8
19-Mar-08	11:15	50.2	46.0	43.9	44.6	45.6	47.2	46.8	49.8
27-Mar-08	15:50	57.3	50.5	51.5	49.9	51.6	51.0	52.9	55.9
<b>Limit Level</b>									<b>75</b>

\* A façade correction of +3 dB(A) has been added according to acoustical principles and EPD guidelines.

**Noise Monitoring Results at NM4**

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30	Corrected * Leq30
05-Oct-07	9:50	57.9	56.6	55.9	51.6	52.1	55.6	55.5	58.5
11-Oct-07	9:51	53.5	54.3	52.0	53.0	51.6	51.9	52.8	55.8
17-Oct-07	10:18	48.7	51.0	50.9	49.0	52.8	51.4	50.9	53.9
23-Oct-07	9:43	52.4	53.3	53.6	52.7	52.5	54.2	53.2	56.2
29-Oct-07	10:34	50.8	51.6	51.0	51.4	51.1	50.6	51.1	54.1
03-Nov-07	10:32	52.1	51.6	54.0	53.4	50.6	51.5	52.4	55.4
09-Nov-07	14:22	67.7	67.7	67.7	67.7	67.9	67.6	67.7	70.7
15-Nov-07	10:04	50.6	56.0	51.6	51.4	61.2	63.3	58.5	61.5
21-Nov-07	10:08	49.6	50.9	54.3	52.3	50.7	51.4	51.8	54.8
27-Nov-07	9:59	52.3	50.2	53.4	51.8	50.9	51.4	51.8	54.8
03-Dec-07	9:55	53.7	51.1	51.9	51.6	51.4	52.5	52.1	55.1
08-Dec-07	10:23	50.4	50.1	51.8	51.6	52.6	52.7	51.6	54.6
14-Dec-07	10:11	54.5	46.4	44.9	47.9	50.0	43.1	49.5	52.5
19-Dec-07	9:50	52.8	53.7	55.7	52.2	52.3	52.3	53.4	56.4
24-Dec-07	10:16	50.6	51.7	50.9	50.2	49.9	50.6	50.7	53.7
31-Dec-07	10:08	54.5	54.2	51.5	53.8	52.3	53.1	53.4	56.4
05-Jan-08	10:27	49.5	52.2	50.1	52.0	52.8	51.5	51.5	54.5
11-Jan-08	9:32	55.0	54.8	51.2	51.9	51.3	51.9	53.0	56.0
17-Jan-08	10:14	54.8	54.5	54.4	56.9	59.3	55.0	56.2	59.2
23-Jan-08	10:03	52.8	51.2	51.2	51.6	54.4	52.0	52.4	55.4
29-Jan-08	13:40	51.9	51.6	52.2	50.8	54.0	51.6	52.1	55.1
04-Feb-08	15:52	53.3	50.2	49.0	53.0	53.2	51.6	52.0	55.0
13-Feb-08	11:28	52.6	52.2	52.1	53.4	52.9	55.6	53.3	56.3
19-Feb-08	10:34	51.5	50.9	50.3	49.8	51.5	51.1	50.9	53.9
25-Feb-08	9:58	49.3	51.4	49.5	54.1	49.0	53.7	51.7	54.7
01-Mar-08	9:21	49.7	48.4	49.5	47.4	65.6	56.7	58.7	61.7
07-Mar-08	10:23	59.8	60.1	59.5	59.4	62.5	59.0	60.2	63.2
13-Mar-08	13:22	63.2	60.1	55.1	51.6	52.7	51.6	58.1	61.1
19-Mar-08	10:15	53.7	60.1	60.9	60.3	60.4	60.6	59.9	62.9
27-Mar-08	14:17	53.8	49.2	52.7	50.3	51.3	50.7	51.6	54.6
<b>Limit Level</b>									<b>75</b>

\* A façade correction of +3 dB(A) has been added according to acoustical principles and EPD guidelines.



**Noise Monitoring Results at NM6**

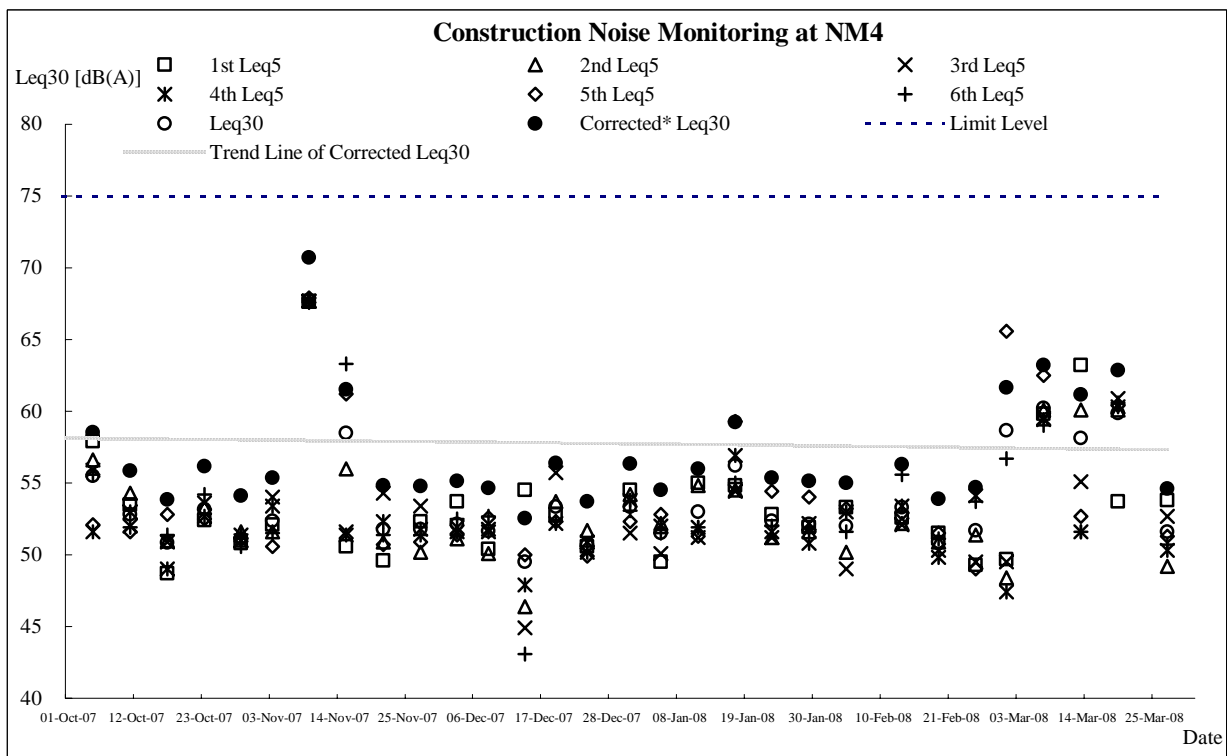
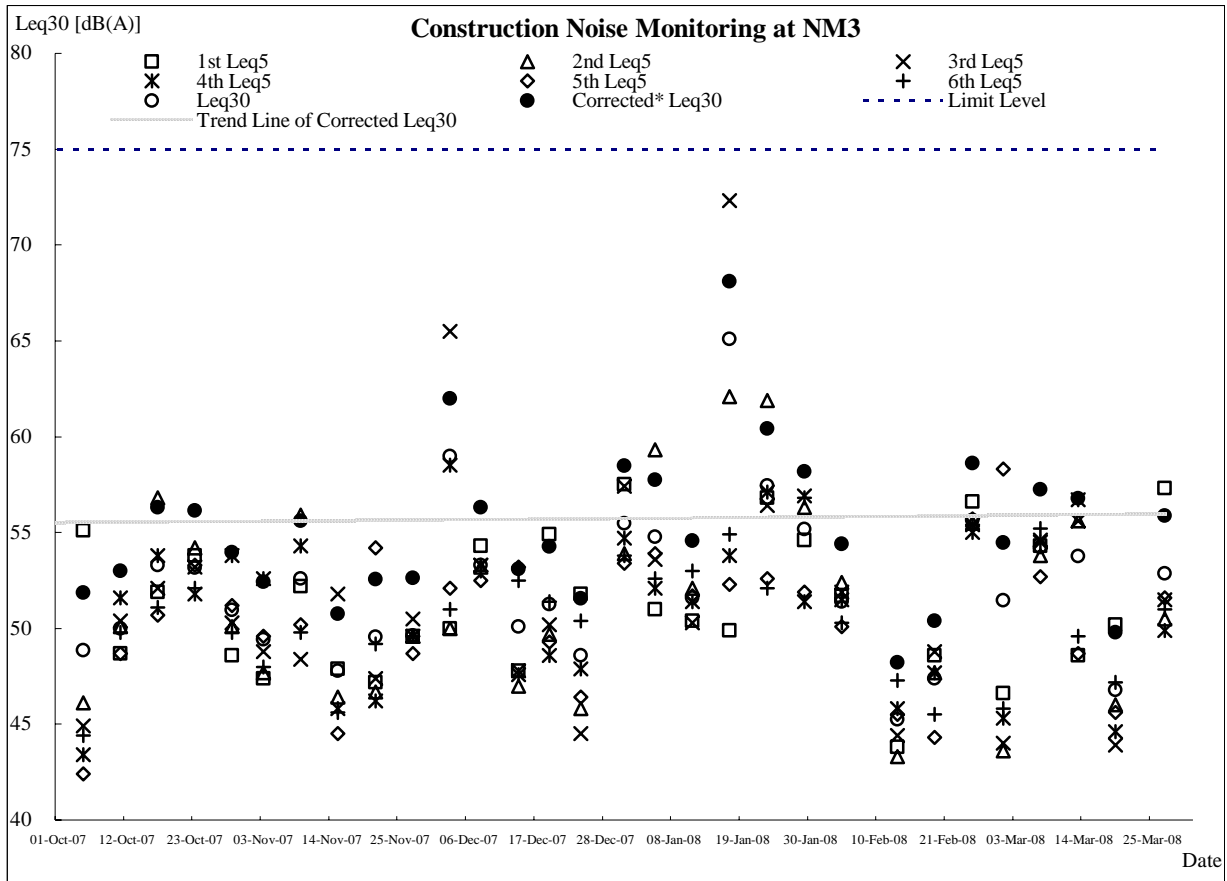
Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
05-Oct-07	14:03	60.5	56.3	58.3	70.1	58.4	56.9	63.6
11-Oct-07	14:25	62.0	58.8	57.2	56.9	57.0	66.4	61.4
17-Oct-07	14:22	63.9	66.7	63.6	65.4	66.6	65.2	65.4
23-Oct-07	14:20	57.4	63.6	61.8	57.2	60.5	58.6	60.5
29-Oct-07	14:20	57.3	61.8	59.4	58.2	63.2	54.1	59.9
03-Nov-07	13:39	56.1	61.2	60.8	57.7	56.7	56.5	58.7
09-Nov-07	13:54	64.4	57.9	68.5	61.8	59.9	60.7	63.7
15-Nov-07	15:20	56.2	56.5	56.5	56.9	58.9	65.0	59.8
21-Nov-07	15:28	56.2	58.3	57.4	59.4	56.8	56.4	57.6
27-Nov-07	15:41	59.5	55.1	65.7	63.9	55.6	54.5	61.3
03-Dec-07	15:27	63.5	61.0	56.8	54.7	55.2	56.4	59.2
08-Dec-07	14:48	62.8	59.6	63.9	55.6	61.8	61.6	61.6
14-Dec-07	14:29	62.9	64.6	62.4	63.0	64.4	61.7	63.3
19-Dec-07	14:46	55.7	54.8	57.3	55.7	57.5	56.4	56.3
24-Dec-07	13:58	56.4	59.1	55.4	63.5	61.0	56.8	59.7
31-Dec-07	14:13	55.4	56.7	55.0	56.6	58.6	56.7	56.7
05-Jan-08	14:10	54.0	53.9	59.3	56.7	55.0	56.6	56.3
11-Jan-08	13:16	56.7	56.0	55.6	55.6	56.8	58.3	56.6
17-Jan-08	14:30	61.8	61.5	61.4	62.8	60.7	66.5	63.0
23-Jan-08	14:42	55.0	55.7	54.8	55.7	54.4	54.1	55.0
29-Jan-08	10:34	56.1	55.3	57.2	55.4	56.9	55.0	56.1
04-Feb-08	13:01	59.0	58.2	62.1	63.2	61.4	61.3	61.2
13-Feb-08	10:46	61.1	58.4	55.6	55.1	59.8	64.4	60.3
19-Feb-08	14:29	57.9	59.5	59.0	58.7	58.3	60.5	59.1
25-Feb-08	14:21	56.8	59.1	59.6	59.4	60.0	59.6	59.2
01-Mar-08	13:02	54.7	53.5	55.0	56.6	60.2	58.4	57.0
07-Mar-08	14:09	57.9	53.8	56.1	55.1	55.4	55.9	55.9
13-Mar-08	16:10	59.6	59.4	59.5	58.7	58.2	62.7	60.0
19-Mar-08	14:49	73.0	74.4	60.1	75.1	63.0	71.7	72.1
27-Mar-08	11:28	65.3	69.0	64.0	66.3	69.3	70.9	68.1
<b>Limit Level</b>								<b>75</b>

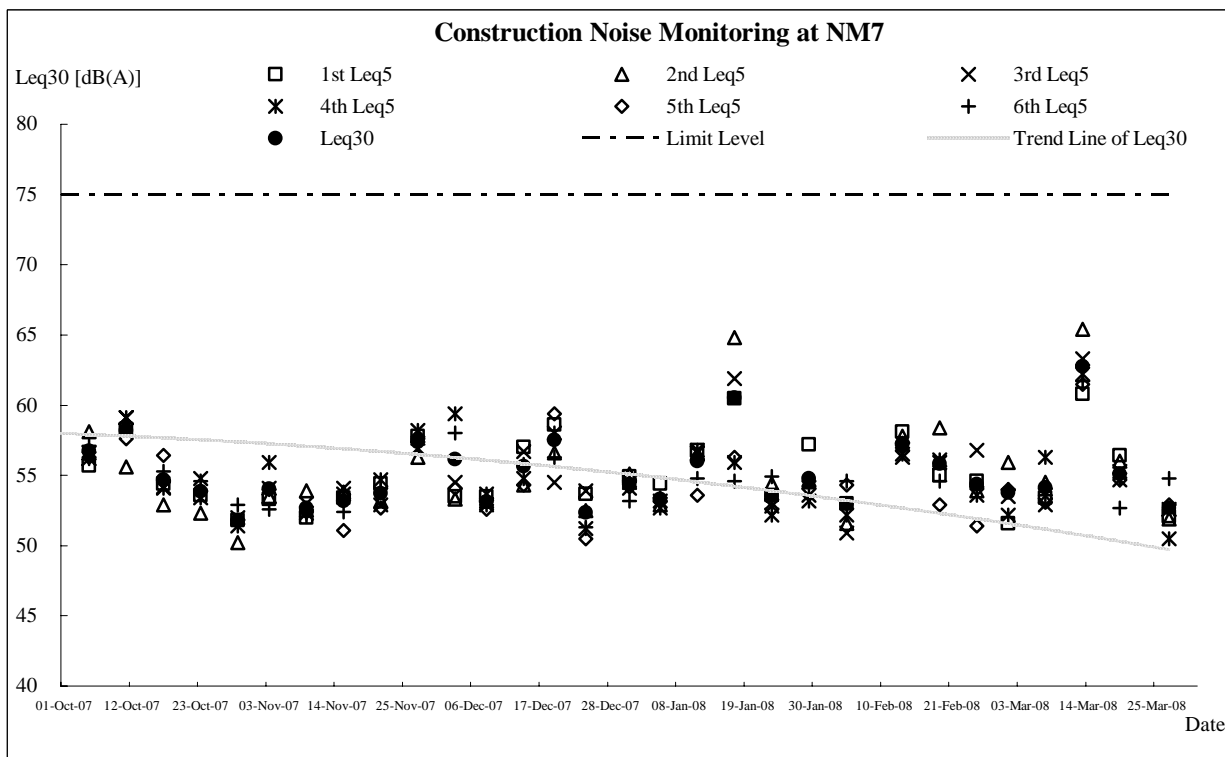
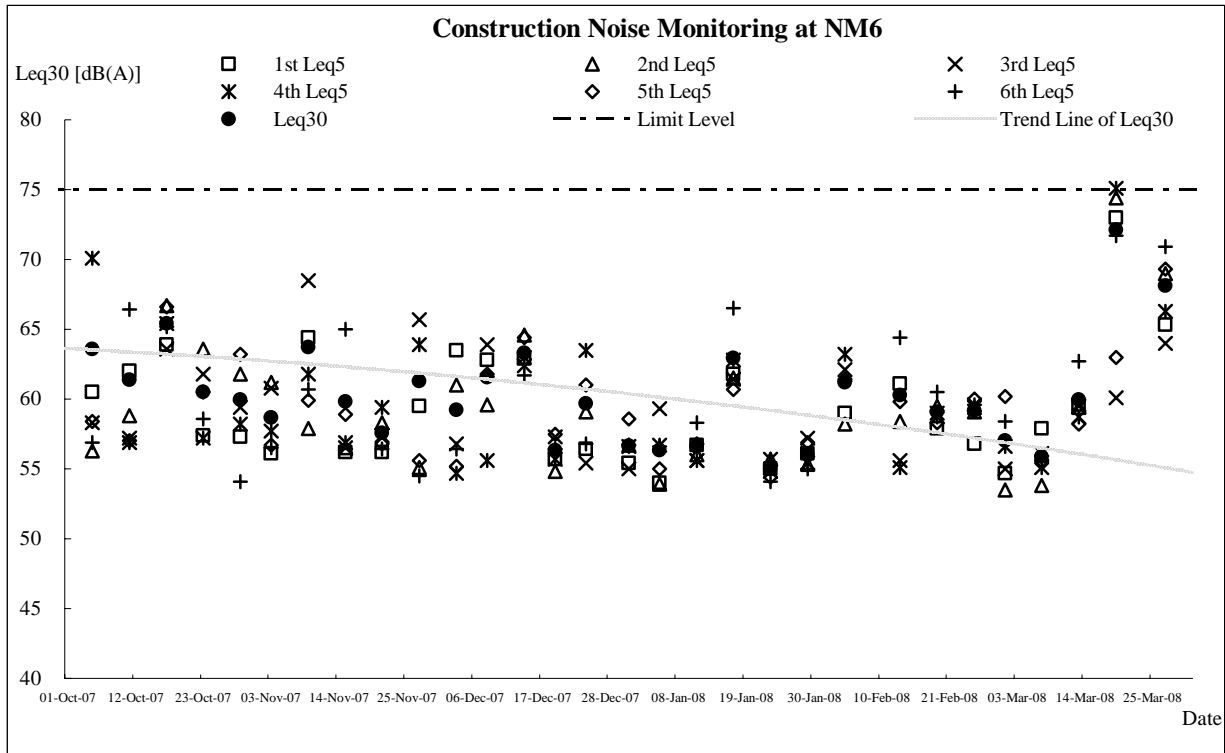
\* No façade correction was required

**Noise Monitoring Results at NM7**

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
05-Oct-07	10:25	55.7	58.1	56.6	56.2	56.3	57.1	56.7
11-Oct-07	10:25	58.3	55.6	59.1	59.1	57.6	58.7	58.2
17-Oct-07	10:55	54.4	52.9	54.2	54.1	56.4	55.3	54.7
23-Oct-07	10:22	53.6	52.3	54.8	53.4	53.9	54.6	53.8
29-Oct-07	11:18	51.8	50.2	52.0	51.4	51.8	52.9	51.8
03-Nov-07	11:17	53.3	53.5	54.1	55.9	54.0	52.6	54.0
09-Nov-07	14:58	52.0	53.9	53.0	52.3	52.4	52.1	52.7
15-Nov-07	10:43	53.4	53.8	54.1	53.7	51.1	52.4	53.2
21-Nov-07	10:41	54.4	53.2	52.9	54.7	52.7	54.1	53.7
27-Nov-07	11:14	57.8	56.3	56.9	58.2	57.6	57.2	57.4
03-Dec-07	10:30	53.5	53.3	54.5	59.4	54.1	58.0	56.2
08-Dec-07	10:57	53.5	53.2	52.9	53.7	52.6	52.9	53.1
14-Dec-07	10:49	57.0	54.3	56.7	54.8	54.3	55.8	55.6
19-Dec-07	10:24	58.6	56.6	54.5	58.0	59.4	56.3	57.5
24-Dec-07	10:54	53.7	52.5	53.9	51.2	50.5	51.3	52.4
31-Dec-07	10:46	54.9	55.1	54.1	54.5	54.2	53.2	54.4
05-Jan-08	11:06	54.4	52.9	53.2	52.7	53.2	53.4	53.3
11-Jan-08	10:06	56.8	56.5	56.6	56.8	53.6	54.8	56.0
17-Jan-08	10:49	60.5	64.8	61.9	55.9	56.3	54.6	60.5
23-Jan-08	11:03	53.6	54.4	52.8	52.2	52.6	54.9	53.5
29-Jan-08	15:19	57.2	54.7	53.6	53.2	54.6	54.1	54.8
04-Feb-08	14:22	53.0	51.6	50.9	52.2	54.3	54.6	53.0
13-Feb-08	14:26	58.1	57.8	56.3	56.5	57.3	56.8	57.2
19-Feb-08	11:17	55.0	58.4	55.9	56.1	52.9	54.6	55.8
25-Feb-08	13:00	54.6	53.9	56.8	53.6	51.4	54.2	54.4
01-Mar-08	11:15	51.6	55.9	53.5	52.2	54.0	54.0	53.8
07-Mar-08	10:55	53.4	54.5	52.9	56.3	53.1	53.6	54.1
13-Mar-08	14:14	60.8	65.4	63.3	62.2	61.5	61.7	62.8
19-Mar-08	10:53	56.4	56.0	55.3	54.7	54.7	52.7	55.1
27-Mar-08	14:56	52.1	51.9	52.6	50.5	52.9	54.8	52.7
<b>Limit Level</b>								<b>75</b>

\* No façade correction was required





## **Annex I**

### **Meteorological Data in the Reporting Period**

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

**October 2007**

Date		Weather	Lau Fau Shan Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Oct-07	Mon			Holiday			
2-Oct-07	Tue	cloudy/squally showers/fresh/strong	17.6	26.8	26.5	76.5	E
3-Oct-07	Wed	cloudy/squally showers/fresh/strong	22.2	26.8	23.5	82.5	E
4-Oct-07	Thu	fine/moderate/fresh	0	28.8	18.5	73.5	E
5-Oct-07	Fri	fine/haze/moderate	0	28.1	11.7	72	S/SE
6-Oct-07	Sat	fine/dry/hazy/hot/moderate	0	29	10	71	W/SW
7-Oct-07	Sun	sunny periods/faze/moderate	0	29.5	16	59.5	S/SW
8-Oct-07	Mon	cloudy/haze/sunny periods/moderate	0	28.5	9	69.5	W/SW
9-Oct-07	Tue	fine/dry/moderate/fresh	Trace	25.5	20.5	60	NE
10-Oct-07	Wed	sunny periods/cloudy/rain/moderate	2.1	25.6	11.5	56.5	NE
11-Oct-07	Thu	cloudy/rain/moderate	Trace	26.6	11	66.5	E
12-Oct-07	Fri	cloudy/rain/moderate/fresh	0.2	25.4	12.5	74	E
13-Oct-07	Sat	sunny periods/fresh/dry	0.2	26.8	13.5	76	E
14-Oct-07	Sun	fine/dry/hazy/moderate	0.2	25.9	16.5	65	E/NE
15-Oct-07	Mon	fine/dry/hazy/moderate	0	25.5	18	62.2	NE
16-Oct-07	Tue	fine/dry/hazy/moderate	0	25.2	20	61	NE
17-Oct-07	Wed	fine/dry/moderate	Trace	24	16.5	55	NE
18-Oct-07	Thu	fine/dry/haze/moderate	Trace	24.8	9.7	59.2	E/NE
19-Oct-07	Fri			Holiday			
20-Oct-07	Sat	fine/very dry/moderate	0	24.3	16.5	42	E
21-Oct-07	Sun	fine/moderate/fresh	0	23.8	11	70.5	E/SE
22-Oct-07	Mon	fine/moderate/fresh	0	24.6	6.7	69.7	E
23-Oct-07	Tue	fine/dry/moderate/fresh	0	25.5	12.5	67.5	E
24-Oct-07	Wed	fine/dry/moderate/fresh	Trace	26.2	12	64.7	E
25-Oct-07	Thu	fine/dry/moderate	0	27.3	12.2	66.2	E/NE
26-Oct-07	Fri	fine/dry/hazy/moderate	0	26.5	13	66	E
27-Oct-07	Sat	fine/dry/haze/moderate/fresh	0	25.6	10.5	66	E/SE
28-Oct-07	Sun	sunny intervals/moderate/fresh	0	24.8	9	72.5	W/SW
29-Oct-07	Mon	sunny periods/cloudy/moderate/fresh	0	25.2	12	68.1	E
30-Oct-07	Tue	cloudy/haze/rain/moderate	6.3	23.3	13	65.5	E
31-Oct-07	Wed	cloudy/rain/moderate	1.7	21.4	12	76.5	E/NE

## November 2007

Date		Weather	Lau Fau Shan Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Nov-07	Thu	cloudy/rain/fresh/strong	2.1	18.8	15.5	85.5	E/NE
2-Nov-07	Fri	cloudy/bright/fresh/strong	1.6	17.9	21	78	N/NE
3-Nov-07	Sat	sunny periods/dry/moderate/fresh	Trace	20.8	16	58	NE
4-Nov-07	Sun	fine/dry/moderate/fresh	0.2	21.8	8.7	51.7	E
5-Nov-07	Mon	fine/dry/moderate/fresh	0	21.3	10	58.7	E
6-Nov-07	Tue	fine/dry/moderate/fresh	0	22.7	14	49.2	N/NE
7-Nov-07	Wed	dry/sunny intervals/moderate/fresh/strong	Trace	21.2	16.5	54	N/NE
8-Nov-07	Thu	cloudy/rain/moderate/fresh	Trace	18.4	10.7	73	N/NE
9-Nov-07	Fri	fine/dry/moderate/fresh	0	23.9	11.2	65.5	N/NE
10-Nov-07	Sat	fine/dry/moderate	0	23.1	12.5	65.5	E/NE
11-Nov-07	Sun	fine/dry/moderate/fresh	0	21.5	8.5	63	E/SE
12-Nov-07	Mon	fine/dry/moderate/fresh	0	21.7	10.5	69.5	E
13-Nov-07	Tue	fine/dry/moderate/fresh	0	22.4	11	62.5	E/SE
14-Nov-07	Wed	fine/dry/moderate/fresh	0	22.7	10.5	62	E/SE
15-Nov-07	Thu	fine/dry/moderate/fresh	0	23.2	9	Maintenance	E
16-Nov-07	Fri	fine/dry/moderate/fresh	0	23.9	12.5	Maintenance	E/SE
17-Nov-07	Sat	fine/moderate/fresh	0	24.2	9	65.2	E
18-Nov-07	Sun	cloudy/dry/sunny intervals/moderate	0	22.3	19	61.5	E/NE
19-Nov-07	Mon	dry/sunny intervals/cloudy/moderate	Trace	20.5	15.2	65	N/NE
20-Nov-07	Tue	fine/dry/moderate/fresh	0	19	14.5	58.5	NE
21-Nov-07	Wed	fine/dry/moderate/fresh	Trace	21.2	9.7	57.5	E/NE
22-Nov-07	Thu	sunny periods/dry/moderate	0	21.7	9	65	E/NE
23-Nov-07	Fri	fine/dry/moderate	0	20.3	9	65	E/NE
24-Nov-07	Sat	dry/sunny periods/moderate/fresh	0	21.5	14.5	65	E/NE
25-Nov-07	Sun	dry/sunny periods/cloudy/fresh	0	22	13.5	53.5	N
26-Nov-07	Mon	dry/sunny periods/cloudy/fresh	0	21.2	21.5	59.2	N/NE
27-Nov-07	Tue	fine/very dry/haze/fresh/strong	0	18.1	36	45.5	N
28-Nov-07	Wed	fine/very dry/fresh/strong	0	15.4	24.5	27.5	N
29-Nov-07	Thu	fine/very dry/cool/moderate	0	15.7	15.5	31	E
30-Nov-07	Fri	fine/dry/moderate	6.3	23.3	8.5	37.5	E

## December 2007

Date		Weather	Lau Fau Shan Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Dec-07	Sat	fine/dry/cloudy/moderate/fresh	0	17.9	9.2	57.7	E
2-Dec-07	Sun	fine/dry/moderate/fresh	0	21.1	9	66.7	W/SW
3-Dec-07	Mon	fine/dry/fresh/moderate/fresh	0	19.7	15.5	61.2	E/NE
4-Dec-07	Tue	fine/dry/haze/moderate	0	18	12.5	48.5	E
5-Dec-07	Wed	cloudy/haze/rain/moderate	0	18.8	11.5	60	E/NE
6-Dec-07	Thu	cloudy/haze/sunny periods/moderate	0	18.6	8.7	58.5	E/NE
7-Dec-07	Fri	fine/dry/hazy/moderate	0	18.9	9.7	60.7	E/NE
8-Dec-07	Sat	fine/dry/hazy/cloudy/moderate/fresh	0	18.2	10.2	58.5	E/NE
9-Dec-07	Sun	sunny periods/moderate	0	20.1	9	66.5	N/NE
10-Dec-07	Mon	fine/cloudy/moderate/fresh	0	21.7	10	70.7	E/NE
11-Dec-07	Tue	fine/warm/cloudy/haze/light winds	0	22	9	68.2	E/SE
12-Dec-07	Wed	fine/hazy/cloudy/moderate	0	21.6	8.5	65	E/NE
13-Dec-07	Thu	fine/haze/moderate	Trace	21.1	10	74.5	W/SW
14-Dec-07	Fri	fine/haze/moderate	Trace	19.2	13	64	E/NE
15-Dec-07	Sat	fine/haze/moderate/fresh	0	20.3	10	73	E/SE
16-Dec-07	Sun	fine/haze/moderate/fresh	0	21.7	11.5	63	E/NE
17-Dec-07	Mon	cloudy/haze/sunny intervals/moderate	Trace	21.7	8.5	70	E/NE
18-Dec-07	Tue	cloudy/haze/moderate/fresh	0	23.2	8	67.2	R/SE
19-Dec-07	Wed	cloudy/rain/moderate	Trace	19	12.5	70	S/SE
20-Dec-07	Thu	cloudy/moderate/fresh	0	21.2	8.2	73.2	E
21-Dec-07	Fri	fine/hazy/cloudy/moderate	0	22.4	9.5	69	E/NE
22-Dec-07	Sat	cloudy/light winds/moderate/rain	Trace	21.8	9.5	77.2	E/SE
23-Dec-07	Sun	fine/cool/moderate/fresh	1.1	18.4	13.5	86	N/NE
24-Dec-07	Mon	fine/cool/moderate/fresh	14.6	16.5	14	87	N/NE
25-Dec-07	Tue			Holiday			
26-Dec-07	Wed			Holiday			
27-Dec-07	Thu	fine/haze/moderate	0	18.7	10	72	E
28-Dec-07	Fri	fine/moderate/cloudy/cool	0	18.3	12.5	74.5	E/SE
29-Dec-07	Sat	cloudy/dry/sunny intervals/moderate/fresh	0	16.3	10	72.5	N/NE
30-Dec-07	Sun	fine/very dry/cold/fresh	0	15.3	16.2	36	E/NE
31-Dec-07	Mon	fine/very dry/cold/fresh	0	13.6	19.7	34	NE



## January 2008

Date		Weather	Lau Fau Shan Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Jan-08	Tue			Holiday			
2-Jan-08	Wed	cool/very dry/moderate	0	11.7	6	39	E/SE
3-Jan-08	Thu	fine/very dry/moderate	0	13.4	10.5	41	E/NE
4-Jan-08	Fri	fine/dry/haze/moderate/fresh	0	14.9	8	53.3	E
5-Jan-08	Sat	fine/dry/haze/moderate	0	10	11.5	59.5	E/SE
6-Jan-08	Sun	fine/cool/very dry/moderate	0	17.5	6	39	E/SE
7-Jan-08	Mon	fine/cool/very dry/moderate	0	19	10.5	40.7	E/NE
8-Jan-08	Tue	cloudy/haze/sunny intervals/rain/moderate	Trace	20.2	9	63.2	E/SE
9-Jan-08	Wed	sunny periods/haze/cloudy/moderate	0	20.8	6.7	74	E/SE
10-Jan-08	Thu	cloudy/rain/moderate/fresh	Trace	22.5	10.5	75.5	E
11-Jan-08	Fri	fog/sunny intervals/moderate	Trace	24.2	13.5	76	SE
12-Jan-08	Sat	fine/cloudy/foggy/moderate	0	23.4	13.5	72.5	S/SE
13-Jan-08	Sun	cloudy/rain/cool/dry/moderate/fresh	Trace	18.3	19.7	57	E/NE
14-Jan-08	Mon	cloudy/rain/cool/dry/moderate/fresh	Trace	14.4	19.5	65	E/NE
15-Jan-08	Tue	cloudy/rain/moderate/cold/fresh	0.7	13.7	13.5	61	E/NE
16-Jan-08	Wed	cloudy/rain/moderate/cold/fresh	Trace	12.8	17	60	N/NE
17-Jan-08	Thu	cloudy/cold/rain/moderate/fresh	Trace	10	17.2	59	NE
18-Jan-08	Fri	cloudy/sunny intervals/cool/moderate/fresh	Trace	12.8	13.5	77.2	E/NE
19-Jan-08	Sat	cloudy/fresh	Trace	18.7	16.5	72.5	E/NE
20-Jan-08	Sun	fine/hazy/cloudy/moderate	Trace	17.8	13.5	81.5	W/SW
21-Jan-08	Mon	fine/hazy/cloudy/moderate	Trace	24.2	13.5	72	N/NW
22-Jan-08	Tue	cloudy/haze/moderate	Trace	16.5	13	65	W/NW
23-Jan-08	Wed	cloudy/dry/haze/moderate	Trace	15.7	14.2	58	N/NE
24-Jan-08	Thu	cloudy/overcast/rain/cool/moderate	0.5	13.5	17	58.5	NE
25-Jan-08	Fri	cloudy/rain/cold/moderate	19.2	9.9	8.5	93.5	E
26-Jan-08	Sat	overcast/cold/rain/moderate	Trace	9.5	14.5	75	E/NE
27-Jan-08	Sun	cloudy/mist/rain/moderate	0	8	11	89	N/NE
28-Jan-08	Mon	cloudy/mist/rain/cold/moderate/fresh	Trace	10.5	6	91.5	E
29-Jan-08	Tue	cloudy/mist/rain/cold/moderate/fresh	0.6	9.8	17	85	N/NW
30-Jan-08	Wed	overcast/cold/mist/moderate	10.4	8.1	11	90.5	E/NE
31-Jan-08	Thu	cold/overcast/rain/moderate/fresh	1.9	7.4	14.5	91.5	E/NE

## February 2008

Date		Weather	Lau Fau Shan Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Feb-08	Fri	cold/cloudy/rain/moderate/fresh	0	8.8	13.2	82.5	E/NE
2-Feb-08	Sat	overcast/rain/cold/moderate/fresh/strong	12.3	6.8	15.5	83	N/NE
3-Feb-08	Sun	cloudy/cold/rain/moderate	0.3	10	12.2	61.5	W/SW
4-Feb-08	Mon	cloudy/cold/rain/moderate	Trace	9.5	10.5	75	E/NE
5-Feb-08	Tue	cold/rain/moderate	1.6	10.4	9.5	79.5	E/NE
6-Feb-08	Wed	sunny periods/cloudy/cold/moderate	0.3	10.6	18	71.5	N/NE
7-Feb-08	Thu		Holiday				
8-Feb-08	Fri		Holiday				
9-Feb-08	Sat		Holiday				
10-Feb-08	Sun	cloudy/dry/cold/moderate	0	10.6	12	49	N/NE
11-Feb-08	Mon	cloudy/dry/cold/moderate	Trace	8.8	12	52	N/NE
12-Feb-08	Tue	very dry/sunny periods/cold/moderate/fresh	Trace	10.2	18.5	60	N/NE
13-Feb-08	Wed	cold/very dry/sunny periods/cloudy/moderate	Trace	11.4	16	36.5	NE
14-Feb-08	Thu	cloudy/cold/dry/moderate	Trace	12.2	12	44	N/NE
15-Feb-08	Fri	cloudy/very dry/cold/moderate	0.3	13.2	12	49.5	N
16-Feb-08	Sat	cloudy/rain/cold/moderate	Trace	12.8	12	48.5	E
17-Feb-08	Sun	sunny periods/moderate	0.4	14.8	14	70	W/SW
18-Feb-08	Mon	sunny periods/moderate	0	16.4	13.5	71.5	E/NE
19-Feb-08	Tue	cloudy/sunny periods/moderate	Trace	15.6	11.5	70	E
20-Feb-08	Wed	fine/dry/haze/moderate	0	15.2	12.5	71.5	E/NE
21-Feb-08	Thu	fine/dry/haze/moderate	0	15.9	12	66.5	E
22-Feb-08	Fri	cloudy/rain/moderate	3.8	17.6	12.5	72.5	E
23-Feb-08	Sat	cloudy/rain/moderate/cool	7.1	18.4	7.5	84	E/SE
24-Feb-08	Sun	cloudy/rain/cool/fresh/strong	0.4	15.2	17.5	79	E
25-Feb-08	Mon	cloudy/rain/fresh/strong	0.5	16.2	12	83	E/NE
26-Feb-08	Tue	cloudy/misty/rain/moderate/fresh/strong	Trace	14.6	16	79.5	E/NE
27-Feb-08	Wed	fine/dry/moderate/fresh	Trace	13.6	23	70	N/NE
28-Feb-08	Thu	fine/dry/haze/moderate	0	14.2	12	60	E
29-Feb-08	Fri	cloudy/dry/haze/rain/moderate	0.6	9.8	10	54.5	W/SW

## March 2008

Date		Weather	Lau Fau Shan Station					
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction	
1-Mar-08	Sat	fine/dry/hazy/moderate	0	14.9	14.5	60	N	
2-Mar-08	Sun	fine/dry/haze/moderate	0	17.2	9.5	49	SE	
3-Mar-08	Mon	fine/hazy/very dry/moderate	0	17.3	9	49	E/SE	
4-Mar-08	Tue	fine/very dry/haze/moderate/fresh	0	18.3	12.5	37.5	E/SE	
5-Mar-08	Wed	fine/very dry/fresh/strong	0	19.1	15	46	E/SE	
6-Mar-08	Thu	sunny periods/dry/moderate/fresh	0	18.7	12	44.5	E/SE	
7-Mar-08	Fri	fine/dry/cloudy/rain/moderate/fresh	0	21.3	9.5	57.5	E/SE	
8-Mar-08	Sat	fine/hazy/moderate/fresh	0	18.9	11	59.5	E	
9-Mar-08	Sun	sunny periods/haze/cloudy/rain/moderate/fresh	0	18.4	16	73	W/SW	
10-Mar-08	Mon	sunny periods/haze/cloudy/rain/moderate/fresh	0	18.6	7.5	75	E/SE	
11-Mar-08	Tue	fine/hazy/moderate	0	19.3	10.5	73.5	E/SE	
12-Mar-08	Wed	fine/moderate/fresh	0	22.3	10.5	63	E/SE	
13-Mar-08	Thu	cloudy/sunny intervals/moderate	Trace	21.8	12.5	65	E	
14-Mar-08	Fri	cloudy/rain/light winds	Trace	22.2	9.7	71	E/NE	
15-Mar-08	Sat	fine/cloudy/moderate/fresh	0	21.9	10	58	E/SE	
16-Mar-08	Sun	cloudy/rain/sunny periods/moderate	0	21	9	80.5	SE	
17-Mar-08	Mon	cloudy/rain/sunny periods/moderate	0	22.5	9.5	77.5	E/NE	
18-Mar-08	Tue	cloudy/rain/mist/moderate	Trace	23.5	11	78.5	E/SE	
19-Mar-08	Wed	warm/sunny periods/light winds/rain	0	24.8	11.5	78.5	W/NW	
20-Mar-08	Thu	cloudy/fresh/strong	Trace	22.1	15.5	65.5	E/SE	
21-Mar-08	Fri	Holiday Holiday Holiday Holiday						
22-Mar-08	Sat							
23-Mar-08	Sun							
24-Mar-08	Mon							
25-Mar-08	Tue	cloudy/rain/moderate	Trace	18.9	14	64.5	E/NE	
26-Mar-08	Wed	cloudy/rain/moderate	10.7	17.8	8.5	80.5	E/NE	
27-Mar-08	Thu	sunny periods/haze/cloudy/rain/moderate	0	19.2	5.7	78.5	E/SE	
28-Mar-08	Fri	cloudy/mist/moderate/fresh	13.8	23	15.5	79.2	SE	
29-Mar-08	Sat	cloudy/fog/sunny periods/moderate	0	26.3	15	75.5	SE	
30-Mar-08	Sun	cloudy/rain/mist/fresh/strong	Trace	23.9	9.7	86	SW	
31-Mar-08	Mon	cloudy/rain/mist/fresh/strong	4.7	19.3	12	91.5	E	