

JOB NO.: TCS00310/06

REVISION NO.: 3

**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**

**BI-ANNUAL ENVIRONMENTAL MONITORING &
 AUDIT (EM&A) SUMMARY REPORT FOR APRIL
 2008 TO SEPTEMBER 2008 (No. 5) (DESIGNATED
 ELEMENTS)**

PREPARED FOR

**LEADER CIVIL ENGINEERING CORPORATION
 LIMITED**

Quality Index

Date	Reference No.			
02 February 2009	TCS00310/06/600/R0717r3			
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Environmental Consultant	Deputy Environmental Team Leader	Environmental Team Leader	General Manager	Independent Environmental Checker

Rev. No.	Date	Remarks
1	15 Jan 09	First Submission
2	31 Jan 09	Response to IEC's comments received on 30 January 2009 via e-mail
3	02 Feb 09	Response to IEC's comments received on 02 February 2009 via e-mail

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EXECUTIVE SUMMARY

- ES01. 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.
- ES02. This is the **Fifth Bi-Annual EM&A Summary Report for April 2008 to September 2008 (No. 5)** reporting the environmental impact monitoring and audit (EM&A) conducted from **01 April 2008 to 30 September 2008**. EM&A program implemented in this reporting period (**April 2008 to September 2008**) covered air quality, noise and waste management.

BREACH OF ACTION AND LIMIT (AL) LEVELS

- ES03. One Action Level exceedance of air quality was found at AM6 on 13 May 2008. The notification of exceedance was issued on 21 May 2008 upon received the laboratory on 20 May 2008. Based on the Contractor provide information, only removal of first layer waling & strut, extract sheet pile by silent piler and pour concrete to staircase during the period. No major construction works with intense dust emission were being carried out. Moreover, the API Index was recorded "High" (59) on 13 May 2008 at Yuen Long district. Therefore the exceedance of 24-Hour TSP Monitoring on **13 May 2008** at Location AM6 was considered not work related.
- ES04. No further 24-Hour TSP exceedance of Action or Limit Level was recorded in this reporting period.
- ES05. There was no breach of Action or Limit level for noise monitoring in this reporting period.

ENVIRONMENTAL SITE INSPECTION

- ES06. Representatives of the Engineer, the Contractor and ET carried out regular weekly joint site inspection throughout the reporting period to evaluate the site environmental performance. Joint IEC site inspection had been taken in monthly basis. Joint IEC site inspection had been taken in monthly basis, **one non-compliance, twenty-nine observations** and **two reminders** were recorded in the reporting period. For the ET weekly site inspection, total **fourth-two observations** and **two reminders** were recorded in the reporting period.

COMPLAINT LOG

- ES07. No environmental complaint was received in this reporting period.

NOTIFICATION OF ANY SUMMONS AND SUCCESSFUL PROSECUTION

- ES08. There was no environmental summons or prosecution in this reporting period.

REPORTING CHANGES

ES09. There are no changes to be reported in this reporting period.

ADEQUACY OF EM&A

ES10. Based on the data collected and reviewed for the period between **April 2008 to September 2008** (as reported herein), it can be confirmed that the monitoring work is effective and that it is generating data to categorically confirm the observation 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 5th **Bi-Annual EM&A Summary Report for April 2008 to September 2008 (No. 5)** summarizes the impact monitoring results and audit findings in the reporting period from **April 2008 to September 2008**.

PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

- 1.03 The organization chart and management structure with lines of communication 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**.

WORKS UNDERTAKEN DURING THE REPORTING PERIOD

- 1.05 The major construction work undertaken during the reporting period under the Environmental Permit (EP-220/2005) is shown in **Table 1-1**.

Table 1-1 Construction Activities in this Reporting Period

Reporting Month	Construction Activities
April 2008	<ul style="list-style-type: none"> • Backfilling, construct piping & manhole and extract sheet pile at Kam Tin Pumping Station (P1); • Backfilling, concreting and steel reinforcement work at Sha Po Pumping Station (P2); • Formwork and steel reinforcement work at Nam Sang Wai Pumping Station (P3); • Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Nam Sang Wai Road (S4) and Pok Wai South Road (S5 and S6).
May and June 2008	<ul style="list-style-type: none"> • Backfilling, concreting and extract sheet pile at Kam Tin Pumping Station (P1); • Backfilling and concreting at Sha Po Pumping Station (P2) and Nam Sang Wai Pumping Station (P3); and • Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Nam Sang Wai Road (S4) and Pok Wai South Road (S5 and S6).
July, August and September 2008	<ul style="list-style-type: none"> • Backfilling, concreting and extract sheet pile at Kam Tin Pumping Station (P1) and Sha Po Pumping Station (P2); • Backfilling and concreting at Nam Sang Wai Pumping Station (P3); and • Sheet piling, excavation, pipe laying, backfilling, concreting, pipe jacking and extract sheet pile at Nam Sang Wai Road (S4) and Pok Wai South Road (S5 and S6).

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

Locations	Description of Construction Activities	Environmental Mitigation Measures	EM&A Ref.
P1 (Kam Tin Pumping Station)	<ul style="list-style-type: none"> Back filling Extract sheet pile Concreting 	<ul style="list-style-type: none"> Erect 2.4m high noise barrier hoarding around the works area at P1, P2 and P3 Remove dust and spray water at the construction access Cover the stockpiles of dusty material properly Spray water to all dusty materials immediately before loading and unloading 	A1 & F6 A2 A3 A4
P2 (Sha Po Pumping Station) and P3 (Nam Sang Wai Pumping Station)	<ul style="list-style-type: none"> Back filling Concreting Steel reinforcement work 	<ul style="list-style-type: none"> Wash the wheels of vehicles before leaving the site Install and use power-operated cover at the dump trucks Spray water at the pavement breaking locations Spray the working area of excavation frequently Maximize the use of quiet PME on site Apply and obtain appropriate waste disposal licenses 	A5 A6 A7 A8 B1, B2 & F5 D1
S4 (Nam Sang Wai Road) and S5 & S6 (Pok Wai South Road)	<ul style="list-style-type: none"> Sheet piling Excavation Pipe laying Backfilling Concreting Pipe jacking Extract sheet pile 	<ul style="list-style-type: none"> Handle, store and dispose of chemical wastes as per relevant regulations Implement trip-ticket system for waste disposal Restrict open fires and provide fire fighting equipment in the works area Perform weekly inspection with ET and monthly audit with IEC Conduct noise and dust monitoring as per EM&A Manual during construction Provide sedimentation tanks for treating site discharge. Recycle wheel washing water and provide sedimentation tanks for treating site discharge. 	D2, D3 & D4 D5 F9 H1 I1 & I2 - -

2.02 Photographic records showing the implemented 2.4m high noise barrier at the pumping station (S3) are shown in [Annex D](#).

PROJECT DRAWINGS

2.03 There are designated four monitoring stations for air quality and construction noise under the EM&A Manual. Descriptions of monitoring stations are summary in [Table 2-2](#). Drawings showing the designated monitoring stations are presented in [Annex E](#).

Table 2-2 Description of the Monitoring Stations

Station ID	Nature of Premise	Site Work Description	Station Coordinates
AM1	Site Boundary in NSW	Excavation; Sheet piling; Backfilling; Pipe laying; Concreting; and Extract sheet pile	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

2.04 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	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

Items	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 (PP No.RN0008-08)	Valid (22 May 2008 to 21 Feb 2009)
7	Construction Noise Permit (CNP No. GW-RN0479-07)	Valid (06 Nov 2007 to 05 May 2008)
8	Construction Noise Permit (CNP No. GW-RN0480-07)	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.
- 5.04 For AM1, power supply damage from 28 February 2008 to 5 April 2008, so the 24-Hour TSP monitoring was performed on 7 April 2008.
- 5.05 Power failure at AM1 on 30 May, 30 June & 21 July 2008, AM5 on 24 September 2008, AM6 on 06 to 30 June & 30 August 2008 and AM7 on 30 May, 06 & 12 June 2008 were recorded in this reporting period.
- 5.06 A total of **110** monitoring events were carried out in the reporting period.
- 5.07 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 **120** monitoring events were carried out in the reporting period.

MONITORING RESULTS AND GRAPHICAL PLOT IN THE REPORTING PERIOD

- 5.08 The graphical plot and monitoring results of air quality and construction noise for the reporting period are summarized in [Annex H](#).

- 5.09 One Action Level exceedance of air quality was found at AM6 on 13 May 2008. The notification of exceedance was issued on 21 May 2008 upon received the laboratory on 20 May 2008. Based on the Contractor provide information, only removal of first layer waling & strut, extract sheet pile by silent piler and pour concrete to staircase during the period. No major construction works with intense dust emission were being carried out. Moreover, the API Index was recorded “High” (59) on 13 May 2008 at Yuen Long district. Therefore the exceedance of 24-Hour TSP Monitoring on [13 May 2008](#) at Location AM6 was considered not work related.
- 5.10 No further 24-Hour TSP exceedance of Action or Limit Level was recorded in this reporting period.
- 5.11 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

- 5.12 The meteorological data on the monitoring dates are summarized in [Annex I](#).

OTHER FACTORS INFLUENCING THE MONITORING RESULTS

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

QA/QC RESULTS AND DETECTION LIMITS

- 5.14 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	19.985	Tuen Mun 38 Fill Bank
C&D Materials (Inert) (tons) – Reused	1.76	DSD Contract DC/2005/02
C&D Materials (Non-Inert) (kg)	0	NENT
Chemical Waste (Litres)	2.1	License Collector
General Refuse (tons)	0.39	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)	25.40	NA
Paper for Recycling (kg)	0	NA
Plastics for Recycling (kg)	0	NA

- 6.02 There was no site effluent discharged but an estimated volume of less than 50m³ of surface runoff was discharged for each reporting month. The sampling of effluent had been carried out by the Contractor in the reporting period.

ENVIRONMENTAL SITE INSPECTIONS

- 6.03 Representatives of the Engineer, the Contractor and ET carried out regular weekly joint site inspection throughout the reporting period to evaluate the site environmental performance. Joint IEC site inspection had been taken in monthly basis, **one non-compliance**, **twenty-nine observations** and **two reminders** were recorded in the reporting period. For the ET weekly site inspection, total **fourth-two observations** and **two reminders** were recorded in the reporting period. Date of inspection and audit are summarized in **Table 6-3**.

Table 6-3 Date of Environmental Weekly Site Inspection and Monthly Audit in the Reporting Period

Reporting Months	Site Inspection Date	Checklist Reference Number
April 2008	01 April 2008	DSD-AT010408
	08 April 2008*	DSD-AT080408*
	15 April 2008	DSD-AT150408
	22 April 2008	DSD-AT220408
	29 April 2008	DSD-AT290408
May 2008	06 May 2008	DSD-AT060508
	16 May 2008	DSD-AT160508
	20 May 2008	DSD-AT200508
	27 May 2008*	DSD-AT270508*
June 2008	03 June 2008	DSD-AT030608
	10 June 2008	DSD-AT100608
	18 June 2008	DSD-AT180608
	24 June 2008	DSD-AT240608
	30 June 2008*	DSD-AT300608*
July 2008	08 July 2008	DSD-AT080708
	15 July 2008	DSD-AT150708
	22 July 2008*	DSD-AT220708*
	29 July 2008	DSD-AT290708
August 2008	05 August 2008	DSD-AT050808
	12 August 2008	DSD-AT120808
	19 August 2008*	DSD-AT190808*
	26 August 2008	DSD-AT260808
September 2008	02 September 2008	DSD-AT020908
	09 September 2008	DSD-AT090908
	16 September 2008	DSD-AT160908
	23 September 2008*	DSD-AT230908*
	30 September 2008	DSD-AT300908

Note: *Joint IEC monthly site audit

6.04 The weekly/monthly site inspection and audit checklists in this reporting period were presented in the previous Monthly EM&A Reports.

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
April 2008	0	0
May 2008	0	0
June 2008	0	0
July 2008	0	0
August 2008	0	0
September 2008	0	0

RECORD OF ENVIRONMENTAL COMPLAINTS RECEIVED

7.02 No environmental complaint was received in the reporting period and summary of 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
April 2008	0	0	NA
May 2008	0	0	NA
June 2008	0	0	NA
July 2008	0	0	NA
August 2008	0	0	NA
September 2008	0	0	NA

RECORD OF NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTION

7.03 No notification of summons or prosecution was 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
April 2008	0	0	NA
May 2008	0	0	NA
June 2008	0	0	NA
July 2008	0	0	NA
August 2008	0	0	NA
September 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 APRIL 2008 TO SEPTEMBER 2008

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

Annex A

Project Site Layout

ENGINEERING PROJECTS ONLY

Site plan

DATE OF SURVEY	2/28/50
SCALE	1" = 40'
PROJECT NO.	50-1500
CLIENT	City of New York
ENGINEER	J. J. M. ...
CHECKED BY	
APPROVED BY	

DATE OF WORK: 3/1/50
JOB NO. 50-1500
JOB TITLE: ...
ENGINEER: ...
CHECKED BY: ...
APPROVED BY: ...

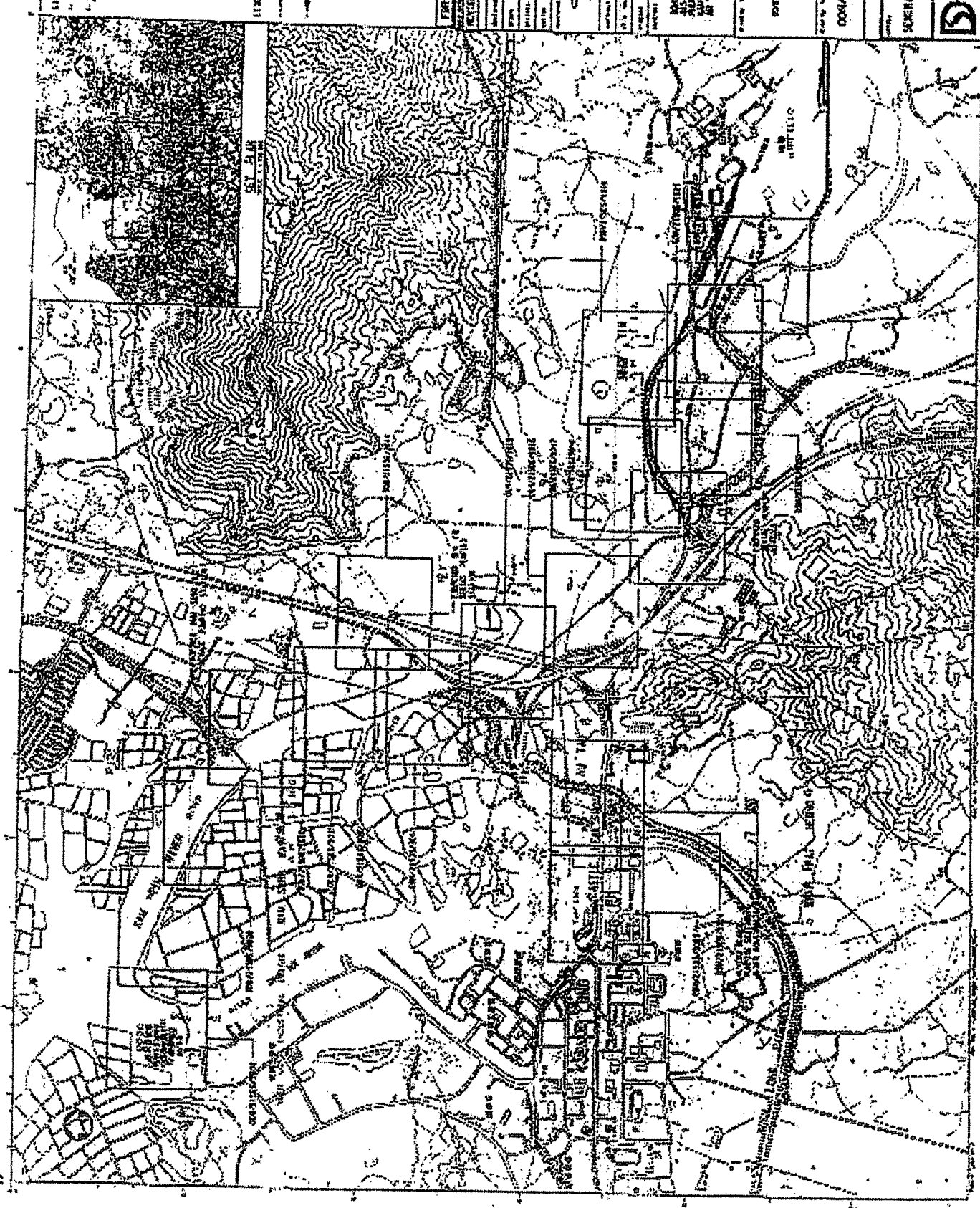

STATE OF NEW YORK
COUNTY OF ...

COMPLETION NO.: ...
DATE OF SURVEY: ...

ENGINEERING PROJECTS DIVISION

PLANNING, DESIGN, AND CONSTRUCTION

NEW YORK STATE DEPARTMENT OF PUBLIC WORKS

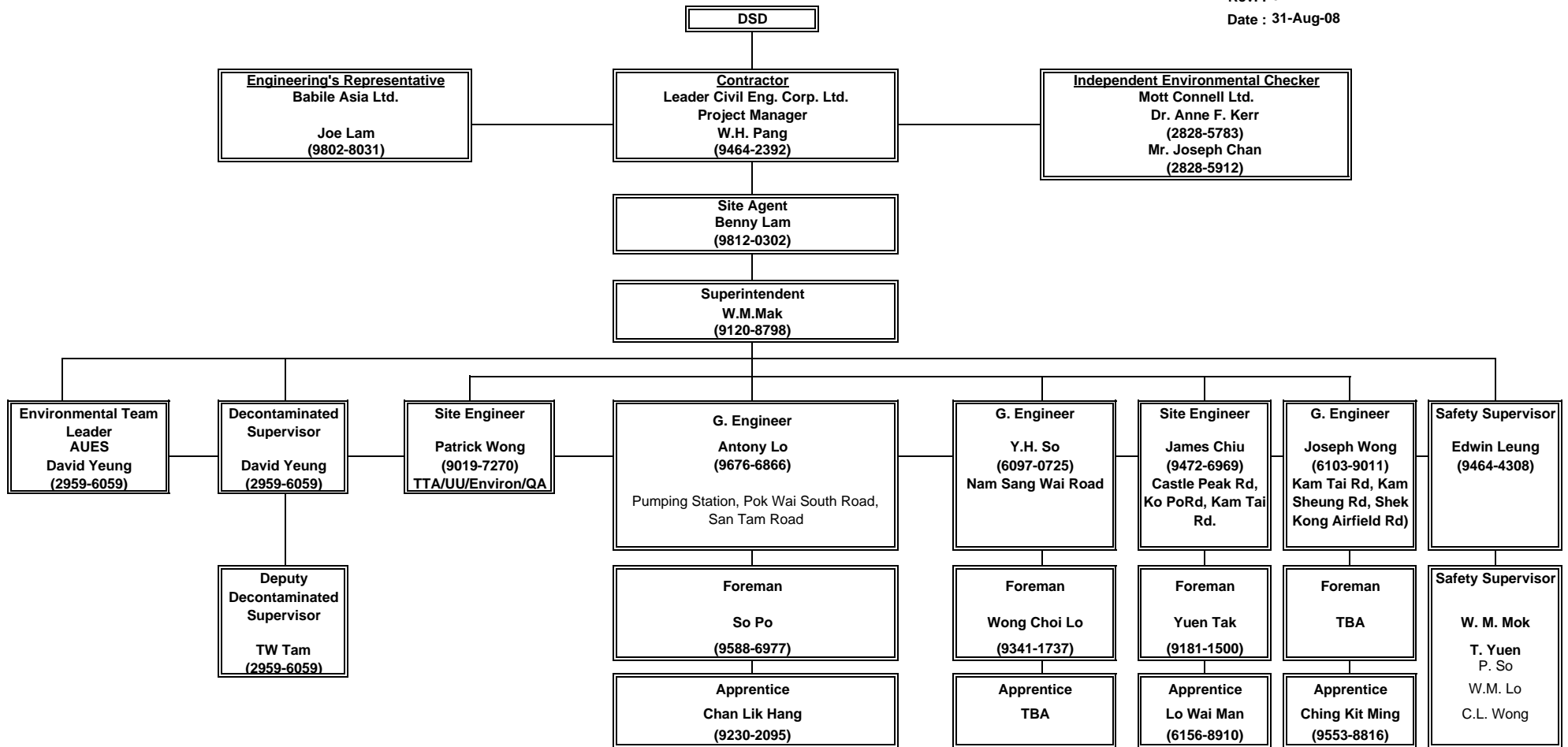


Annex B

Project Organization and Management Structure

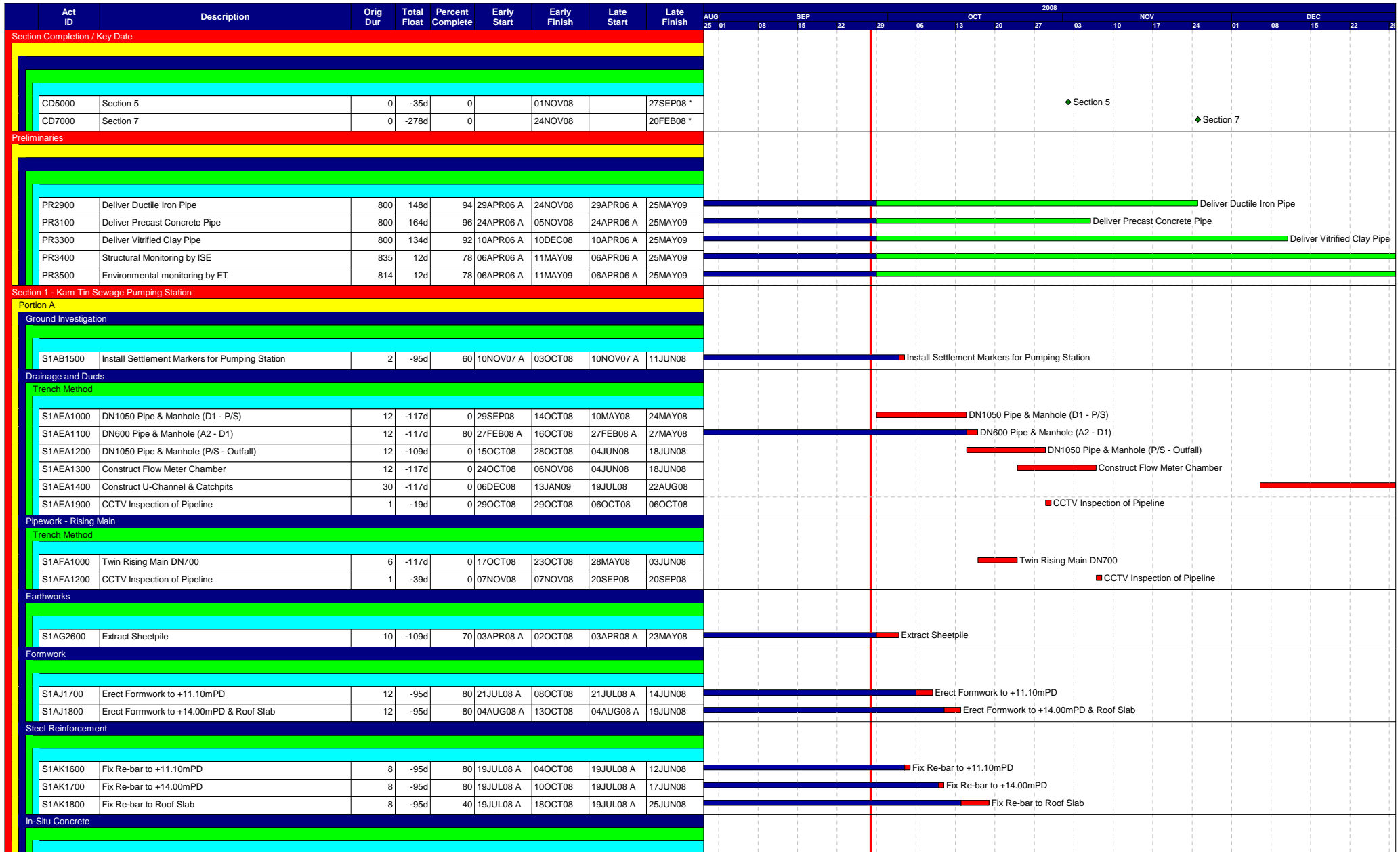
**Construction of Sewers, Rising Mains and Sewage Pumping Station at Kam Tin,
Nam Sang Wai and Au Tau in Yuen Long
Project Environmental Organization Chart**

Rev : 02
Date : 31-Aug-08



Annex C


Construction Program

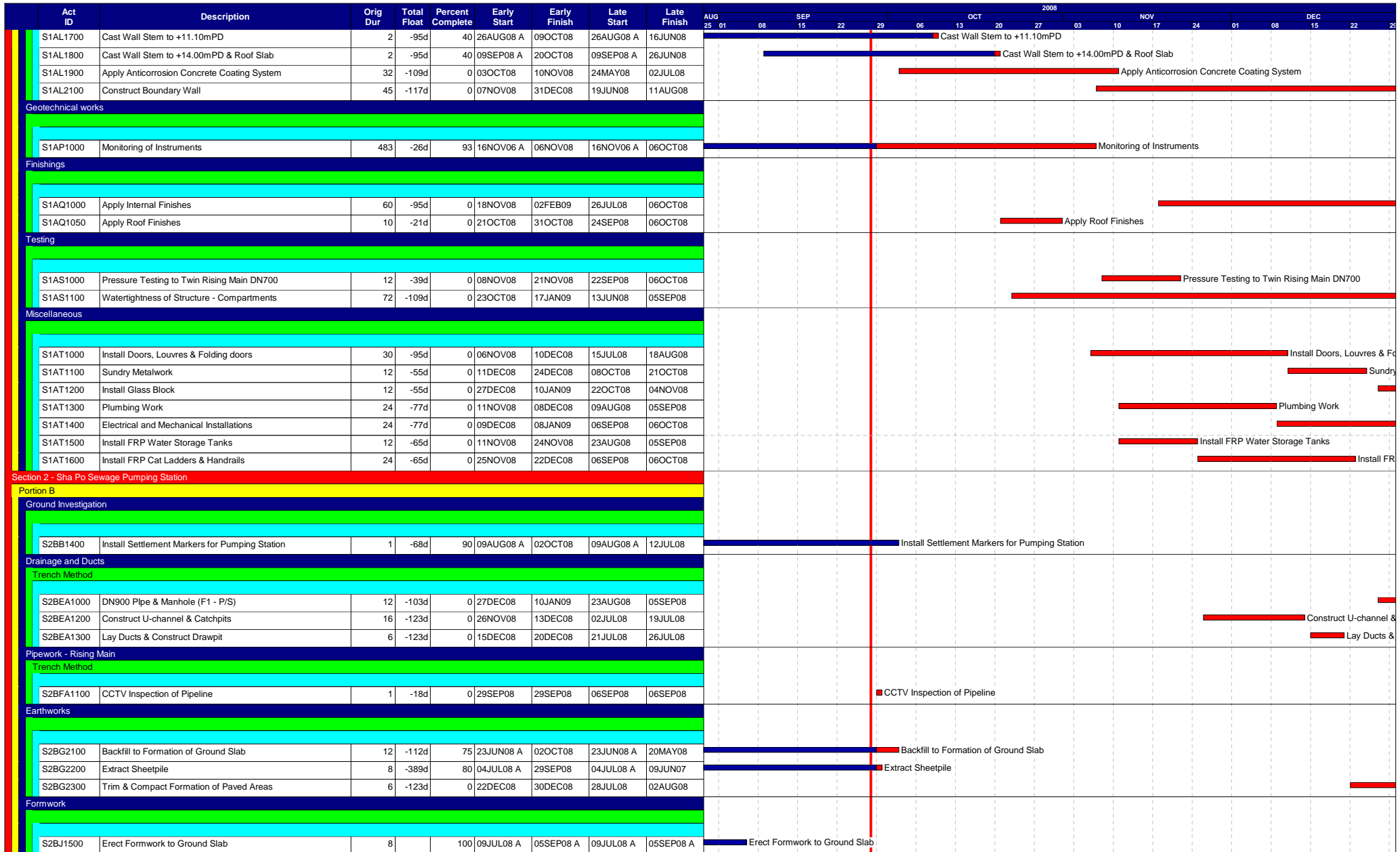


Start date 19DEC05
 Finish date 20JUL10
 Data date 28SEP08
 Page number 1A
 Primavera Systems, Inc.

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

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




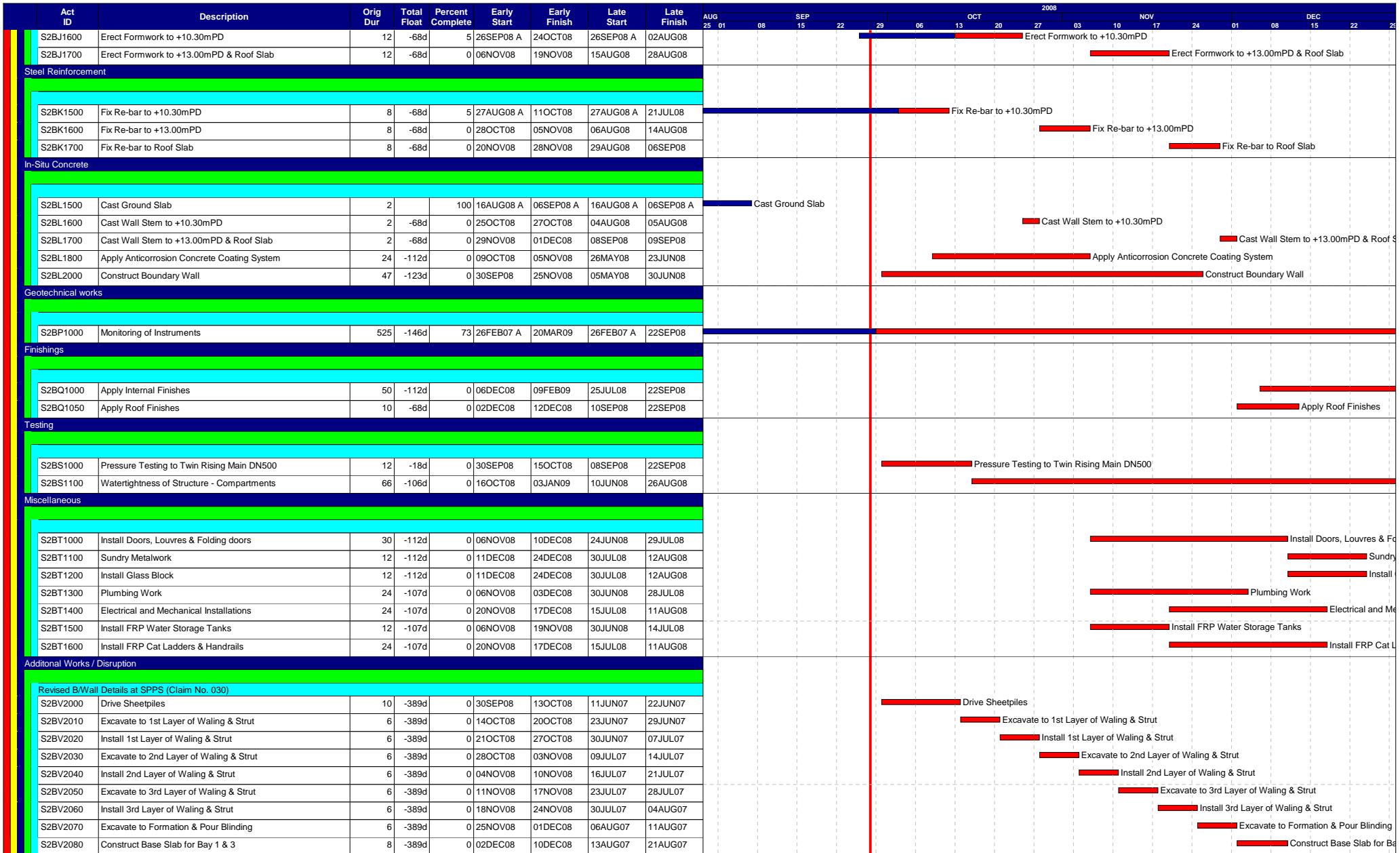


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◆ Start milestone point
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- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point




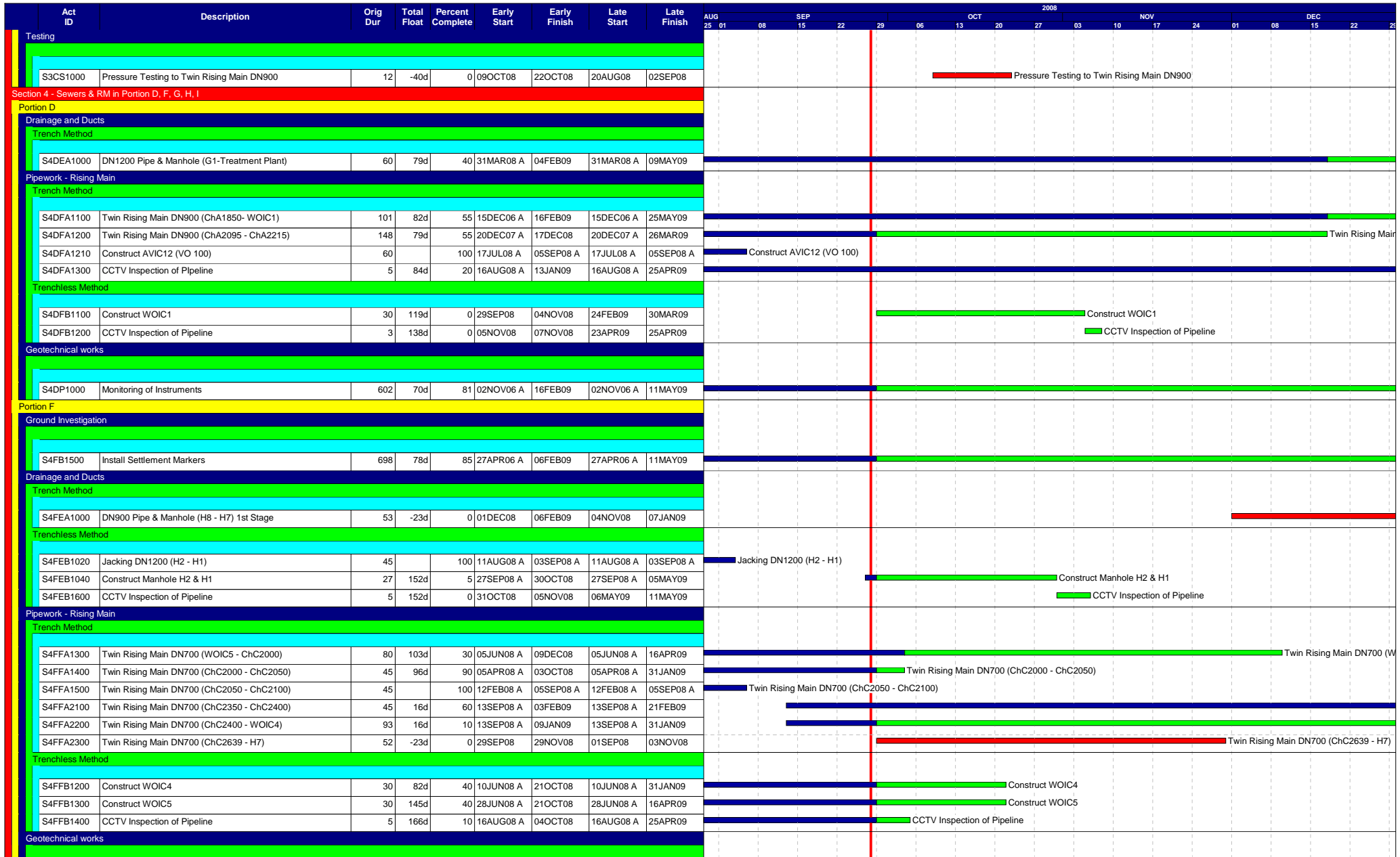
Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish	2008											
									AUG	01	08	15	22	29	06	13	20	27	03	10
S2BV2090	Construct Base Slab for Bay 2 & 4	6	-389d	0	11DEC08	17DEC08	22AUG07	28AUG07	■ Construct Base Slab											
S2BV2100	Backfill & Remove 3rd Layer of Waling & Strut	6	-389d	0	18DEC08	24DEC08	29AUG07	04SEP07	■ Backfill											
S2BV2110	Construct Wall Stem 1st Lift for Bay 1 & 3	8	-389d	0	27DEC08	06JAN09	05SEP07	13SEP07	■ Construct Wall Stem											
Section 3 - Nam Sang Wai Sewage Pumping Station																				
Portion C																				
Ground Investigation																				
S3CB1700	Install Settlement Markers for Pumping Station	2	-131d	0	24NOV08	25NOV08	19JUN08	20JUN08	■ Install Settlement Markers for Pumping Station											
Drainage and Ducts																				
Trench Method																				
S3CEA1000	DN1200 Pipe & Manhole (H1 - P/S)	12	-167d	20	13JUN08 A	22NOV08	13JUN08 A	05MAY08	■ DN1200 Pipe & Manhole (H1 - P/S)											
S3CEA1400	DN1200 Pipe & Manhole (P/S - Outfall)	12	-167d	0	24NOV08	06DEC08	06MAY08	20MAY08	■ DN1200 Pipe & Manhole (P/S - Outfall)											
S3CEA2000	Install Geotextile Filter up to Ground Slab F/L	1	-215d	0	23OCT08	23OCT08	30JAN08	30JAN08	■ Install Geotextile Filter up to Ground Slab F/L											
S3CEA2100	CCTV Inspection of Pipeline	1	-80d	0	08DEC08	08DEC08	02SEP08	02SEP08	■ CCTV Inspection of Pipeline											
Pipework - Rising Main																				
Trench Method																				
S3CFA1000	Twin Rising Main DN900	6	-215d	0	29SEP08	06OCT08	08JAN08	14JAN08	■ Twin Rising Main DN900											
S3CFA1200	CCTV Inspection of Pipeline	1	-40d	0	08OCT08	08OCT08	19AUG08	19AUG08	■ CCTV Inspection of Pipeline											
Earthworks																				
S3CG2750	Backfill to +0.00mPD	6		100	13AUG08 A	11SEP08 A	13AUG08 A	11SEP08 A	■ Backfill to +0.00mPD											
S3CG2770	Remove 1st & 2nd Layer of Waling & Strut	4	-215d	50	20AUG08 A	09OCT08	20AUG08 A	16JAN08	■ Remove 1st & 2nd Layer of Waling & Strut											
S3CG2800	Backfill to Formation of Ground Slab	8	-215d	0	24OCT08	01NOV08	31JAN08	12FEB08	■ Backfill to Formation of Ground Slab											
S3CG2900	Extract Sheetpile	11	-167d	0	30OCT08	11NOV08	10APR08	22APR08	■ Extract Sheetpile											
Formwork																				
S3CJ1550	Erect Formwork to +5.0mPD	12	-215d	40	28AUG08 A	20OCT08	28AUG08 A	26JAN08	■ Erect Formwork to +5.0mPD											
S3CJ1600	Erect Formwork to Ground Slab	8	-215d	0	03NOV08	11NOV08	13FEB08	21FEB08	■ Erect Formwork to Ground Slab											
S3CJ1700	Erect Formwork to +10.80mPD	12	-131d	0	05DEC08	18DEC08	02JUL08	15JUL08	■ Erect Formwork											
Steel Reinforcement																				
S3CK1450	Fix Re-bar to +5.00mPD	8	-215d	70	26AUG08 A	11OCT08	26AUG08 A	18JAN08	■ Fix Re-bar to +5.00mPD											
S3CK1500	Fix Re-bar to Ground Slab	8	-215d	0	12NOV08	20NOV08	22FEB08	01MAR08	■ Fix Re-bar to Ground Slab											
S3CK1600	Fix Re-bar to +10.80mPD	8	-131d	0	26NOV08	04DEC08	21JUN08	30JUN08	■ Fix Re-bar to +10.80mPD											
S3CK1700	Fix Re-bar to +13.75mPD	8	-131d	0	22DEC08	02JAN09	18JUL08	26JUL08	■ Fix Re-bar to +13.75mPD											
In-Situ Concrete																				
S3CL1500	Cast Wall Stem to +0.00mPD	2		100	08AUG08 A	29AUG08 A	08AUG08 A	29AUG08 A	■ Cast Wall Stem to +0.00mPD											
S3CL1550	Cast Wall Stem to +5.00mPD	2	-215d	0	21OCT08	22OCT08	28JAN08	29JAN08	■ Cast Wall Stem to +5.00mPD											
S3CL1600	Cast Ground Slab	2	-215d	0	21NOV08	22NOV08	03MAR08	04MAR08	■ Cast Ground Slab											
S3CL1700	Cast Wall Stem to +10.80mPD	2	-131d	0	19DEC08	20DEC08	16JUL08	17JUL08	■ Cast Wall Stem											
S3CL1900	Apply Anticorrosion Concrete Coating System	24	-215d	0	15DEC08	14JAN09	29MAR08	26APR08	■ Apply Anticorrosion Concrete Coating System											
S3CL2100	Construct Boundary Wall	17	-167d	0	08DEC08	29DEC08	21MAY08	10JUN08	■ Construct Boundary Wall											
Geotechnical works																				
S3CP1000	Monitoring of Instruments	787	-84d	92	06APR06 A	12DEC08	06APR06 A	02SEP08	■ Monitoring of Instruments											

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




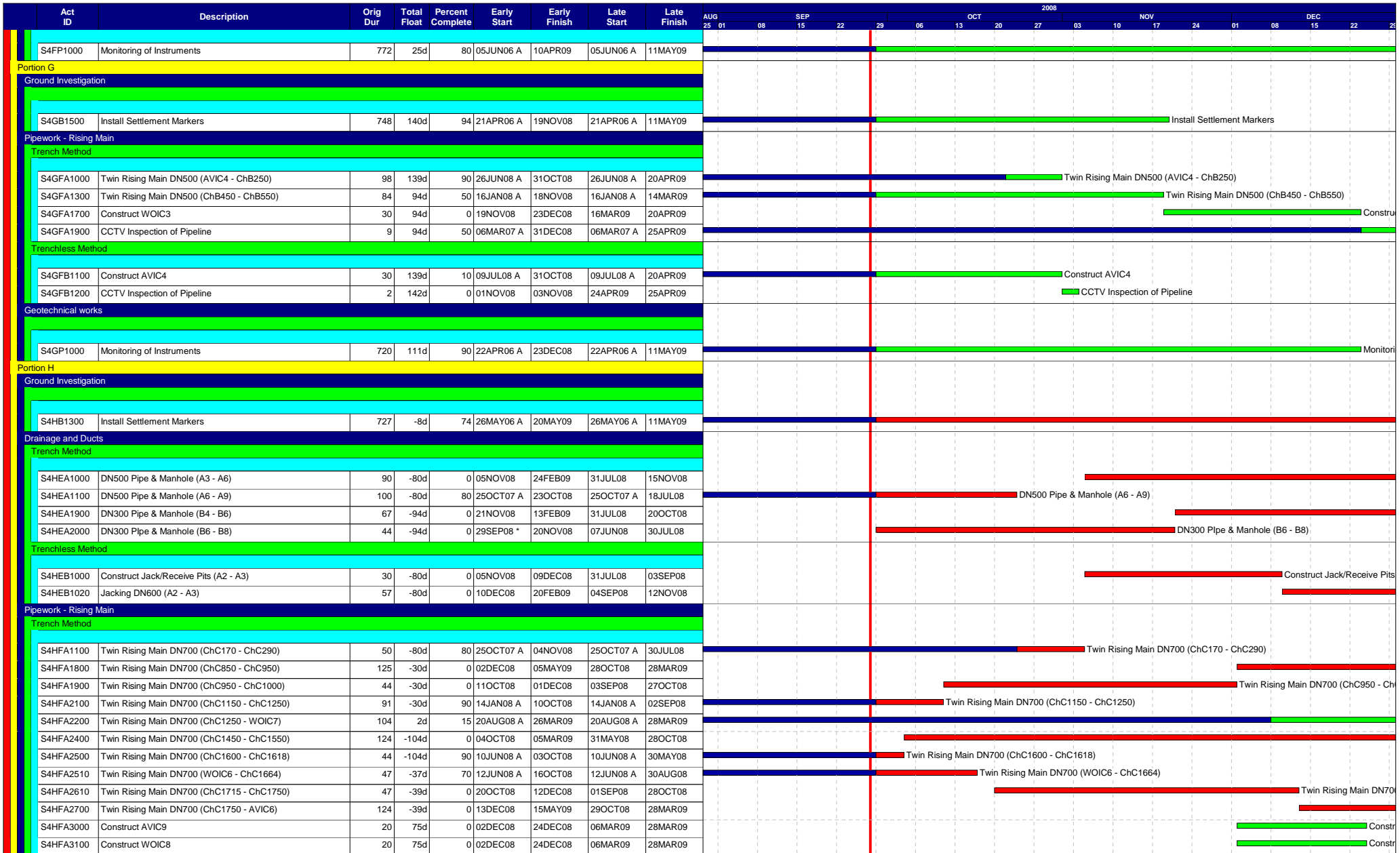


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 Finish date 20JUL10
 Data date 28SEP08
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Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish	2008											
									AUG	SEP	OCT	NOV	DEC							
S4HFA3300	Construct AVIC7	20		100	11AUG08 A	26SEP08 A	11AUG08 A	26SEP08 A	Construct AVIC7											
S4HFA3400	Construct WOIC6	20	-39d	20	15AUG08 A	18OCT08	15AUG08 A	30AUG08	Construct WOIC6											
S4HFA3500	Construct AVIC6	30	118d	0	29SEP08	04NOV08	23FEB09	28MAR09	Construct AVIC6											
Trenchless Method																				
S4HFB1000	Construct Jack/Receive Pits (ChC42 - ChC63)	57	-41d	0	10DEC08	20FEB09	23OCT08	30DEC08	Construct Jack/Receive Pits (AVIC7 - WOIC7)											
S4HFB1100	Construct Jack/Receive Pits (AVIC8 - WOIC7)	57	-70d	40	01AUG08 A	05DEC08	01AUG08 A	11SEP08	Construct Jack/Receive Pits (AVIC8 - WOIC7)											
S4HFB1120	Jacking Twin DN700 (AVIC8 - WOIC7)	69	-70d	0	06DEC08	03MAR09	12SEP08	04DEC08	Jacking Twin DN700 (AVIC8 - WOIC7)											
Geotechnical works																				
S4HP1000	Monitoring of Instruments	947	-87d	72	26MAY06 A	22AUG09	26MAY06 A	11MAY09	Monitoring of Instruments											
Additional Works / Disruption																				
Re-alignment btn ChC420 & ChC607 (Claim No. 118)																				
S4HV1310	Twin Rising Main DN700 (ChC610 - ChC580)	40	-11d	60	23JUL08 A	26MAR09	23JUL08 A	13MAR09	Twin Rising Main DN700 (ChC610 - ChC580)											
S4HV1350	Twin Rising Main DN700 (ChC490 - ChC460)	20	-11d	0	10DEC08	05JAN09	27NOV08	19DEC08	Twin Rising Main DN700 (ChC490 - ChC460)											
S4HV1360	Twin Rising Main DN700 (ChC460 - ChC436)	20	-11d	0	29SEP08	23OCT08	16SEP08	10OCT08	Twin Rising Main DN700 (ChC460 - ChC436)											
S4HV1380	Construct WOIC9	20	2d	20	29AUG08 A	26MAR09	29AUG08 A	28MAR09	Construct WOIC9											
S4HV1400	DN500 Pipe & Manhole (A13 - A14)	40	-11d	0	24OCT08	09DEC08	11OCT08	26NOV08	DN500 Pipe & Manhole (A13 - A14)											
Portion I																				
Ground Investigation																				
S4IB1300	Install Settlement Markers	736	0	75	26JUN06 A	11MAY09	26JUN06 A	11MAY09	Install Settlement Markers											
Drainage and Ducts																				
Trench Method																				
S4IEA1000	DN500 Pipe & Manhole (C2 - C4)	58	-32d	0	20DEC08	04MAR09	13NOV08	22JAN09	DN500 Pipe & Manhole (C2 - C4)											
S4IEA1020	DN500 Pipe & Manhole (C4 - C6)	76	-32d	15	27AUG08 A	19DEC08	27AUG08 A	12NOV08	DN500 Pipe & Manhole (C4 - C6)											
S4IEA1100	DN500 Pipe & Manhole (C6 - C8)	48	-32d	90	07MAY08 A	03OCT08	07MAY08 A	25AUG08	DN500 Pipe & Manhole (C6 - C8)											
S4IEA1200	DN400 Pipe & Manhole (C7a - C7)	36	155d	0	04OCT08	15NOV08	13APR09	25MAY09	DN400 Pipe & Manhole (C7a - C7)											
S4IEA1900	DN500 Pipe & Manhole (C21 - C22)	50		100	01FEB08 A	01SEP08 A	01FEB08 A	01SEP08 A	DN500 Pipe & Manhole (C21 - C22)											
S4IEA2320	DN500 Pipe & Manhole (C31 - C32)	53	-79d	0	29SEP08	01DEC08	26JUN08	27AUG08	DN500 Pipe & Manhole (C31 - C32)											
S4IEA2400	DN500 Pipe & Manhole (C32 - C34)	70	-79d	0	02DEC08	27FEB09	28AUG08	20NOV08	DN500 Pipe & Manhole (C32 - C34)											
Trenchless Method																				
S4IEB1000	Construct Jack/Receive Pits (C1 - C2)	30	45d	0	29SEP08	04NOV08	22NOV08	29DEC08	Construct Jack/Receive Pits (C1 - C2)											
S4IEB1020	Jacking DN500 (C1 - C2)	78	45d	0	05NOV08	10FEB09	30DEC08	03APR09	Jacking DN500 (C1 - C2)											
Geotechnical works																				
S4IP1000	Monitoring of Instruments	827	-68d	70	28JUN06 A	31JUL09	28JUN06 A	11MAY09	Monitoring of Instruments											
Section 5 - Sewers & RM in Portion E																				
Portion E																				
Drainage and Ducts																				
Trenchless Method																				
S5EEB1040	Construct Manholes H11	27	-28d	0	29SEP08	31OCT08	26AUG08	26SEP08	Construct Manholes H11											
S5EEB1100	CCTV Inspection of Pipeline	1	-28d	0	01NOV08	01NOV08	27SEP08	27SEP08	CCTV Inspection of Pipeline											
Pipework - Rising Main																				
Trench Method																				
S5EFA1000	Twin Rising Main DN900 (ChA208 - ChA250)	33	-25d	70	23MAY08 A	10OCT08	23MAY08 A	08SEP08	Twin Rising Main DN900 (ChA208 - ChA250)											

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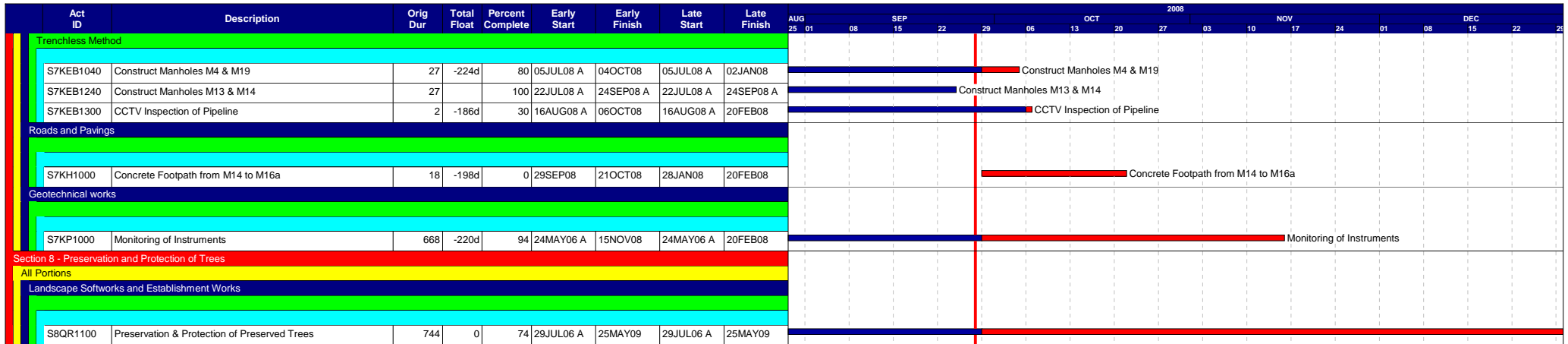
Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish	2008															
									AUG	SEP	OCT	NOV	DEC	25	01	08	15	22	29	06	13	20	27	03
S5EFA4300	CCTV Inspection of Pipeline	20	-25d	80	16AUG08 A	15OCT08	16AUG08 A	12SEP08	CCTV Inspection of Pipeline															
Trenchless Method																								
S5EFB1100	CCTV Inspection of Pipeline	3	-24d	0	11OCT08	14OCT08	10SEP08	12SEP08	CCTV Inspection of Pipeline															
Geotechnical works																								
S5EP1000	Monitoring of Instruments	627	-27d	96	01AUG06 A	31OCT08	01AUG06 A	27SEP08	Monitoring of Instruments															
Testing																								
S5ES1000	Pressure Testing to Twin Rising Main DN900	12	-25d	0	16OCT08	29OCT08	13SEP08	27SEP08	Pressure Testing to Twin Rising Main DN900															
Section 6 - Sewers in Portion J																								
Portion J																								
Ground Investigation																								
S6JB1500	Install Settlement Marker 1st Stage	765	-304d	35	20APR06 A	28MAY10	20APR06 A	25MAY09	Install Settlement Markers 1st Stage															
S6JB2100	Install Settlement Markers 2nd Stage	600		100	07JUL06 A	28SEP08 A	07JUL06 A	28SEP08 A	Install Settlement Markers 2nd Stage															
Drainage and Ducts																								
Trench Method																								
S6JEA1010	DN1050 Pipe & Manhole (D2 - D3)	78	45d	0	06DEC08	13MAR09	04FEB09	07MAY09	DN1050 Pipe & Manhole (D2 - D3)															
S6JEA1700	TTA JA7-2 DN400 Pipe & Manhole (D14 - D15)	46	-324d	0	11DEC08	09FEB09	09NOV07	04JAN08	TTA JA7-2 DN400 Pipe & Manhole (D14 - D15)															
S6JEA1720	TTA JA7-1 DN400 Pipe & Manhole (D15 - D16)	61	-324d	0	29SEP08	10DEC08	27AUG07	08NOV07	TTA JA7-1 DN400 Pipe & Manhole (D15 - D16)															
S6JEA1900	TTA JB1-1 DN400 Pipe & Manhole (D20 - D21)	102	-50d	0	19DEC08	24APR09	22OCT08	24FEB09	TTA JB1-1 DN400 Pipe & Manhole (D20 - D21)															
S6JEA1920	TTA JB2-1 DN400 Pipe & Manhole (D21 - D22)	68	-50d	0	29SEP08	18DEC08	31JUL08	21OCT08	TTA JB2-1 DN400 Pipe & Manhole (D21 - D22)															
S6JEA2400	TTA JB6-1 DN400 Pipe & Manhole (D28 - D30)	80	-348d	0	29SEP08	05JAN09	30JUL07	02NOV07	TTA JB6-1 DN400 Pipe & Manhole (D28 - D30)															
S6JEA3200	DN300 Pipe & Manhole (D40 - D42)	65	-142d	50	09JAN08 A	06NOV08	09JAN08 A	19MAY08	DN300 Pipe & Manhole (D40 - D42)															
S6JEA3300	DN300 Pipe & Manhole (D42 - D44)	72	-142d	0	07NOV08	05FEB09	20MAY08	13AUG08	DN300 Pipe & Manhole (D42 - D44)															
S6JEA3410	DN300 Pipe & Manhole (D47 - D49)	23	-16d	90	19MAY08 A	30APR09	19MAY08 A	11APR09	DN300 Pipe & Manhole (D47 - D49)															
S6JEA4200	TTA JD4-1 DN750 Pipe & Manhole (E7 - E8)	35	-152d	0	13DEC08	29JAN09	14JUN08	25JUL08	TTA JD4-1 DN750 Pipe & Manhole (E7 - E8)															
S6JEA4220	TTA JD4-2 DN750 Pipe & Manhole (E7 - E9)	63	-152d	0	29SEP08	12DEC08	28MAR08	13JUN08	TTA JD4-2 DN750 Pipe & Manhole (E7 - E9)															
S6JEA4600	TTA JD8-2 DN750 Pipe & Manhole (E12 - E13)	40	-205d	0	02DEC08	20JAN09	28MAR08	16MAY08	TTA JD8-2 DN750 Pipe & Manhole (E12 - E13)															
S6JEA4620	TTA JD8-1 DN750 Pipe & Manhole (E13 - E14)	39	-205d	0	17OCT08	01DEC08	05FEB08	27MAR08	TTA JD8-1 DN750 Pipe & Manhole (E13 - E14)															
S6JEA4700	TTA JD-9 DN750 Pipe & Manhole (E14 - E15)	69	-205d	80	13NOV07 A	16OCT08	13NOV07 A	04FEB08	TTA JD-9 DN750 Pipe & Manhole (E14 - E15)															
Trenchless Method																								
S6JEB1000	Construct Jack/Receive Pits (D1 - D2)	28	-70d	0	29SEP08	01NOV08	08JUL08	08AUG08	Construct Jack/Receive Pits (D1 - D2)															
S6JEB1020	Jacking DN1050 (D1 - D2)	29	-70d	0	03NOV08	05DEC08	09AUG08	11SEP08	Jacking DN1050 (D1 - D2)															
S6JEB1040	Construct Manholes D1 & D2	25	18d	0	06DEC08	07JAN09	30DEC08	31JAN09	Construct Manholes D1 & D2															
S6JEB1240	Construct Manholes D7 & D8	25	173d	20	25AUG08 A	23OCT08	25AUG08 A	22MAY09	Construct Manholes D7 & D8															
Geotechnical works																								
S6JP1000	Monitoring of Instruments	1152	-333d	54	21APR06 A	03JUL10	21APR06 A	25MAY09	Monitoring of Instruments															
Section 7 - Sewers in Portion K																								
Portion K																								
Drainage and Ducts																								
Trench Method																								
S7KEA1105	DN600 Pipe & Manhole (M2 - M3) Stage 2	35	-224d	0	06OCT08	15NOV08	03JAN08	15FEB08	DN600 Pipe & Manhole (M2 - M3) Stage 2															
S7KEA1610	DN900 Pipe & Manhole (M11 - M12) Stage 2	54	-227d	20	20AUG08 A	19NOV08	20AUG08 A	15FEB08	DN900 Pipe & Manhole (M11 - M12) Stage 2															
S7KEA2100	CCTV Inspection of Pipeline	5	-227d	30	16AUG08 A	24NOV08	16AUG08 A	20FEB08	CCTV Inspection of Pipeline															

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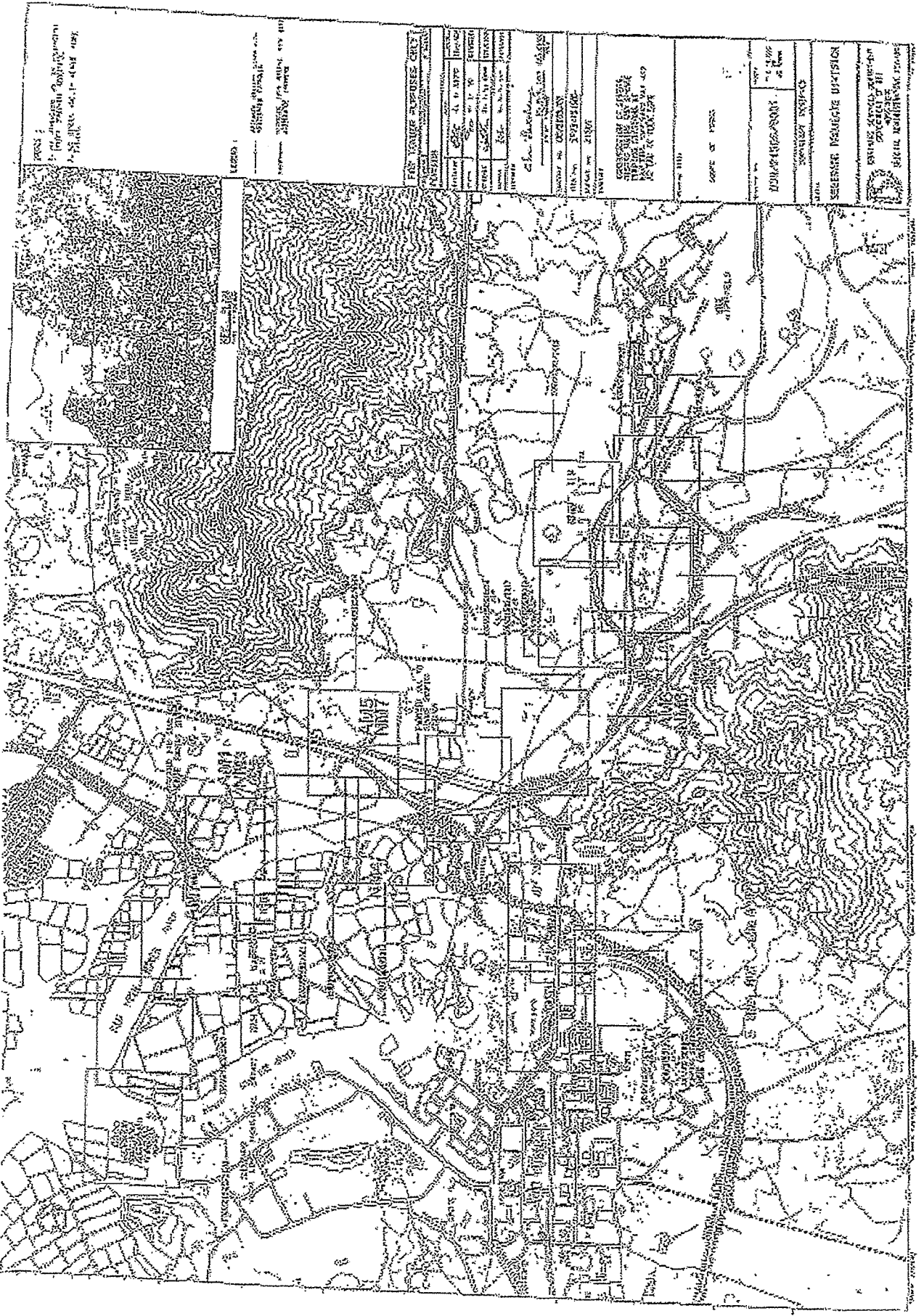
Annex D

Photographical Records – Noise Barrier On-Site



Annex E

Locations of Monitoring Stations



PROJ. 1:50,000
Scale of map 1:50,000
Scale of photo 1:100,000
Scale of drawing 1:100,000

NAME OF AREA
NAME OF STATE
NAME OF DISTRICT
NAME OF COUNTY

PERMANENT PURPOSES CRYSTAL

DATE OF ISSUE	1954
DATE OF REVISION	1954
DATE OF PHOTOGRAPHY	1954
DATE OF DRAWING	1954
DATE OF CHECKING	1954
DATE OF APPROVAL	1954
DATE OF CANCELLATION	
DATE OF DESTRUCTION	

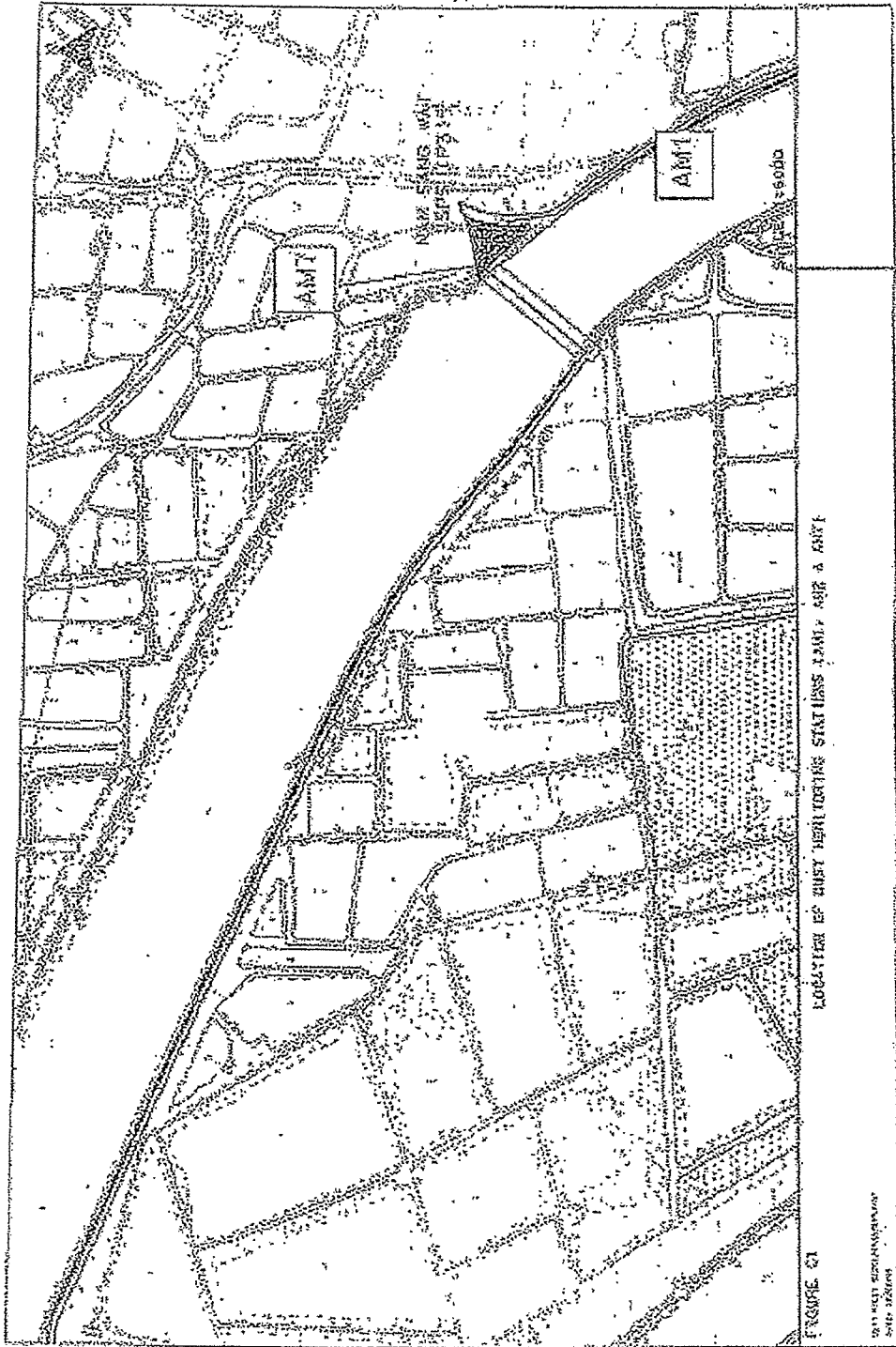
PROJ. 1:50,000
Scale of map 1:50,000
Scale of photo 1:100,000
Scale of drawing 1:100,000

NAME OF AREA
NAME OF STATE
NAME OF DISTRICT
NAME OF COUNTY

PROJ. 1:50,000
Scale of map 1:50,000
Scale of photo 1:100,000
Scale of drawing 1:100,000

PROJ. 1:50,000
Scale of map 1:50,000
Scale of photo 1:100,000
Scale of drawing 1:100,000

PROJ. 1:50,000
Scale of map 1:50,000
Scale of photo 1:100,000
Scale of drawing 1:100,000



LOCATION OF CHRY HEH TOWNS STATIONS TAMI, ABE & AHT

FIGURE 01

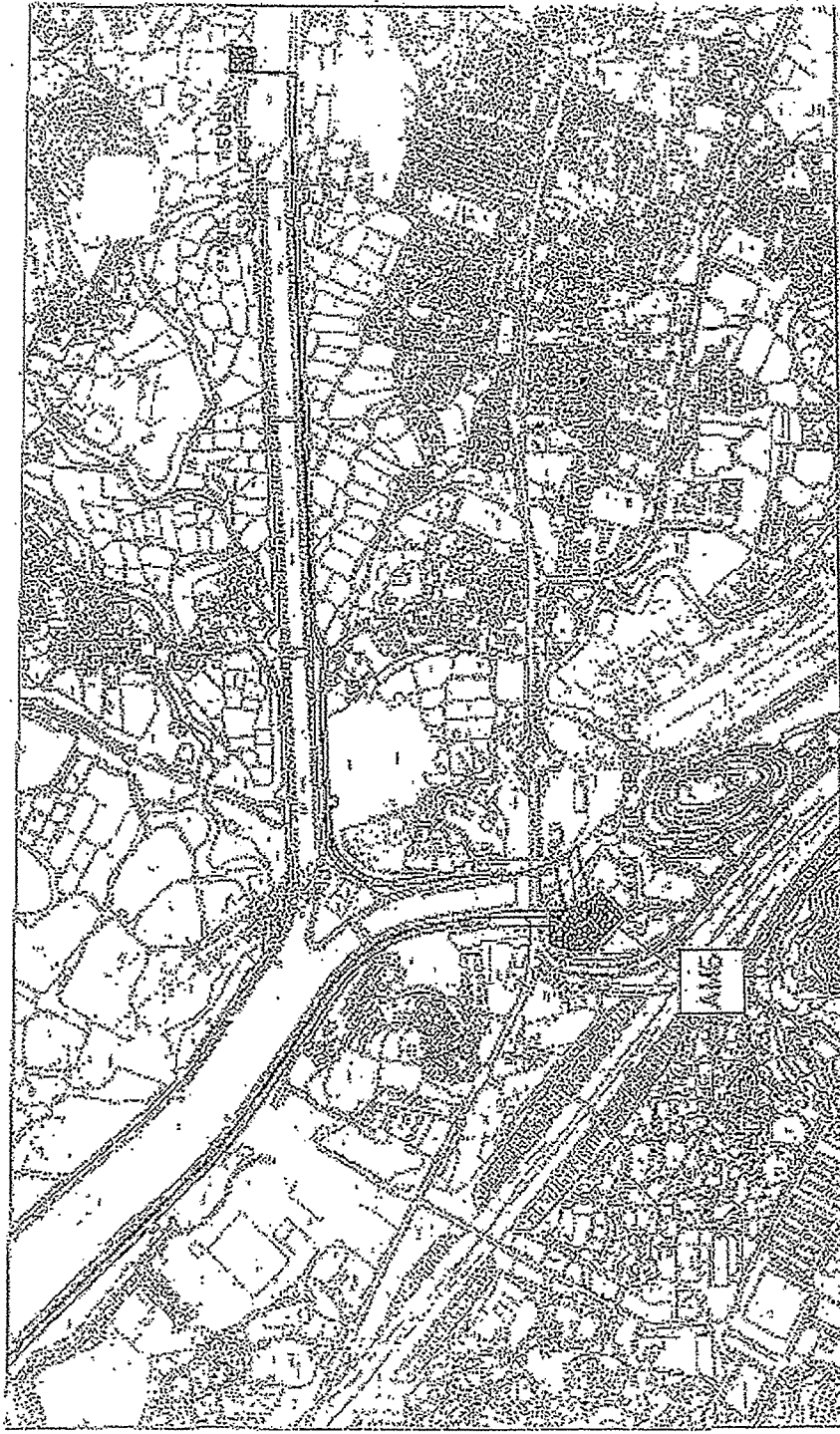
DATE: 19/11/2011
 TIME: 10:00 AM
 BY: [illegible]



FIGURE OF BEST MONITORING STATION (1981)

FIGURE 02

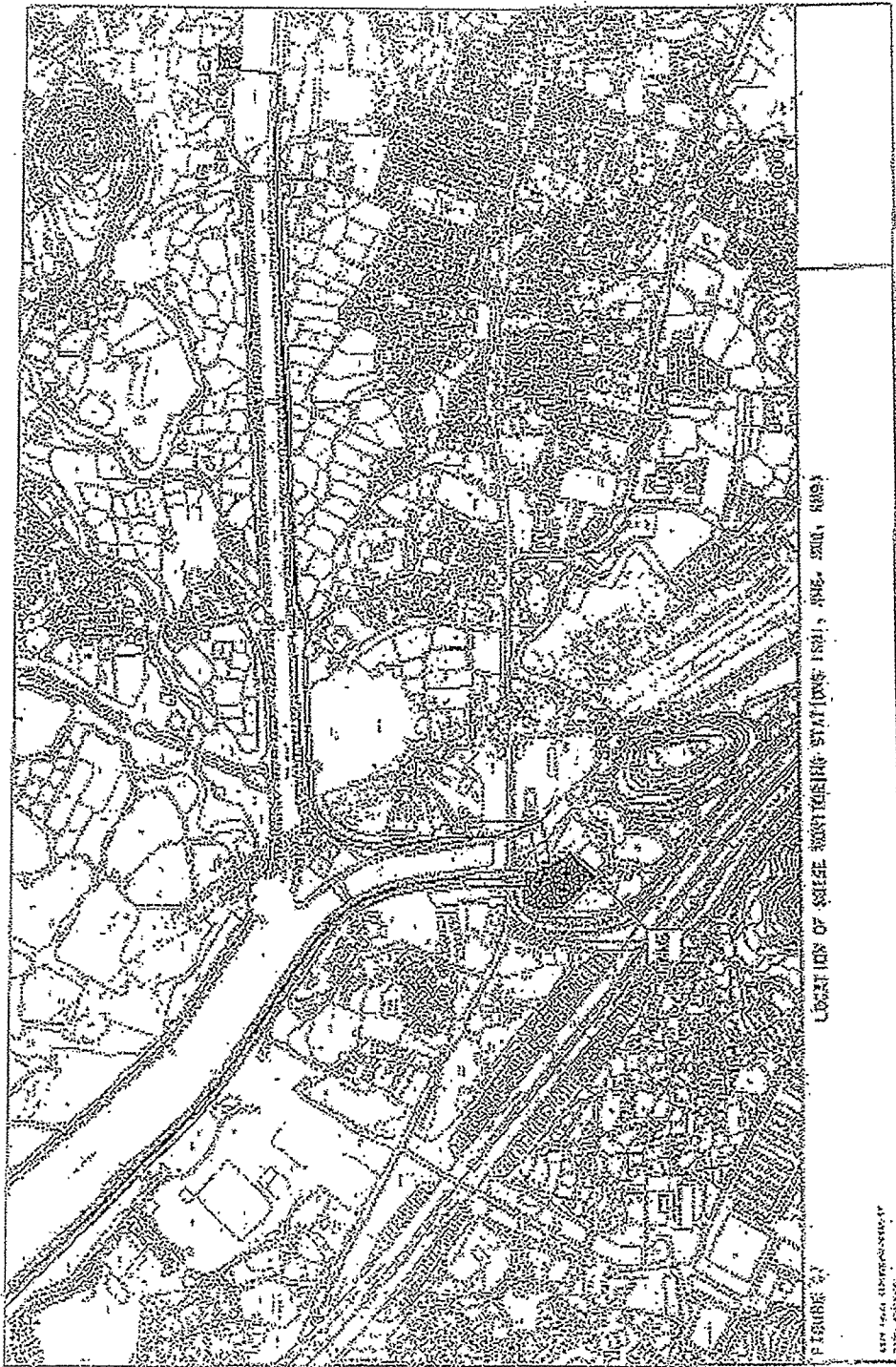
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Date: 1981



LOCATION OF BEST MONITORING STATIONS (AMC), AMS & AMOS

FIGURE 20

AMERICAN OVERSEAS AIRWAYS
1960-1961



LOCATIONS OF SEWER INSTALLATION STATIONS 1931, 1932, 1933, 1934

FIGURE 4

SEE PAGE 100 FOR DETAILS OF THIS DRAWING

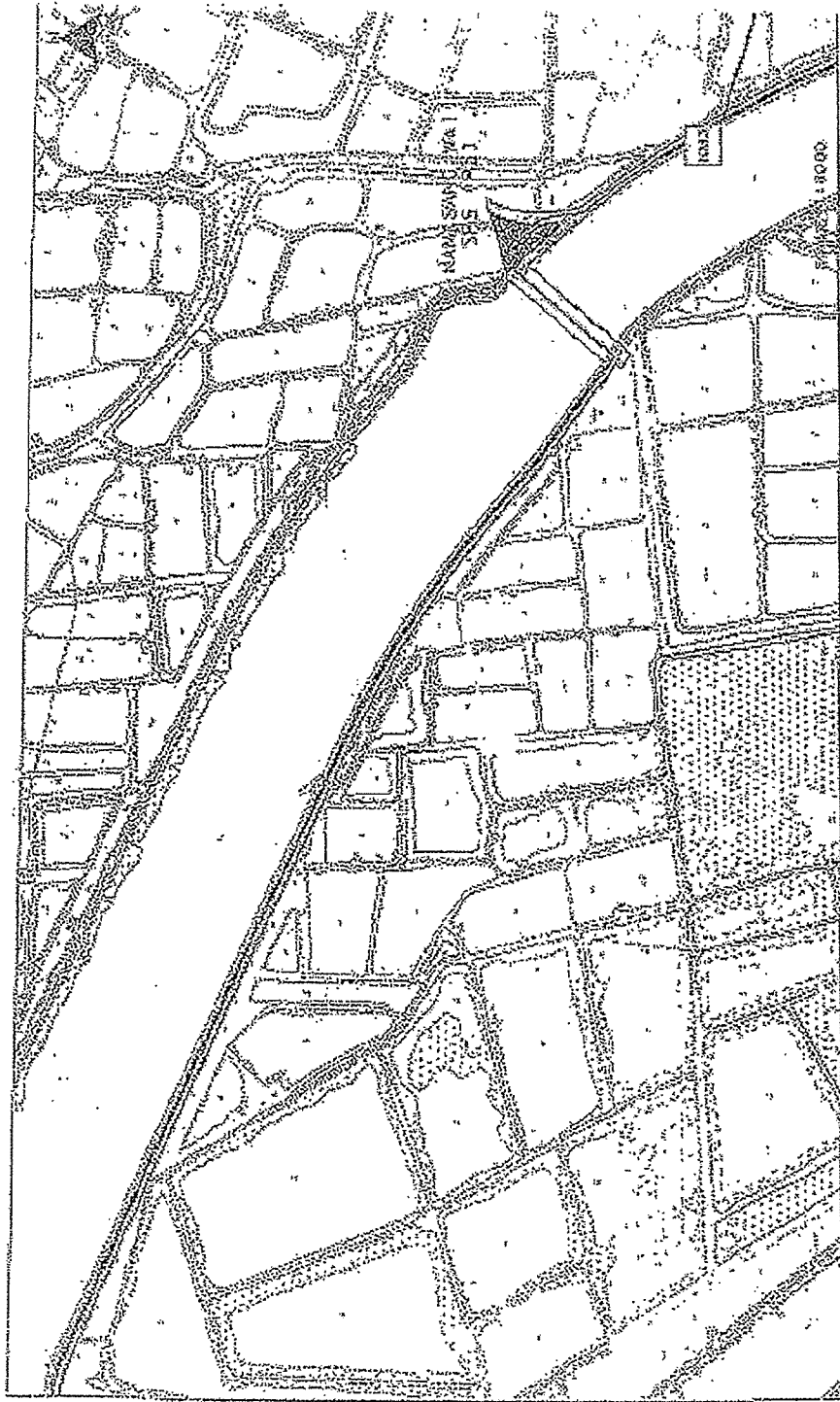


FIGURE 10

LOCATION OF HOUSE PUMPING STATIONS (IND. RW-1)

GENERAL ENGINEERING
AND ARCHITECTURE



LOCATION OF NOISE MONITORING STATIONS FROM MAP 2

SCALE 1:500

BY: [unreadable]
DATE: [unreadable]

Annex F

Event and Action Plan

Event and Action Plan for Construction Phase Air Quality

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

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

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

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	
CONSTRUCTION PHASE										
AIR QUALITY - Construction Phase										
		The following measures are enforceable under the <i>Air Pollution Control (Construction Dust) Regulations</i>								
3.5	A1	<p>Site boundary and entrance</p> <ul style="list-style-type: none"> 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; 	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>Access Road</p> <ul style="list-style-type: none"> 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; 	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>Stockpiling of Dusty Materials</p> <ul style="list-style-type: none"> 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; 	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 & c), Air Pollution Control (Construction Dust) Regulations</i>
3.5	A4	<p>Loading, unloading or transfer of dusty materials</p> <ul style="list-style-type: none"> 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; 	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>Use of vehicles</p> <ul style="list-style-type: none"> every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site; 	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"> 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; 	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>Power-driven drilling, and cutting</p> <ul style="list-style-type: none"> 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; 	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>Excavation and earth moving</p> <ul style="list-style-type: none"> 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; 	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>Construction of the superstructure of a building</p> <ul style="list-style-type: none"> 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 	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"> any skip hoist for material transport should be totally enclosed by the impervious sheeting. 	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	
		NOISE - Construction Phase								
4.7.1	B1	<p>General Site Clearance – Demolition Works</p> <ul style="list-style-type: none"> 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), 	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>Construction of Sewage Pumping Stations P1, P2 & P3</p> <ul style="list-style-type: none"> 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>, Adoption of temporary noise barrier, in the form of a site hoarding (with a superficial density of at least 20kg/m², with no substantial gaps), along the site boundary of the pumping station sites. 	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>Sewers and Rising Mains using Open Trench Method</p> <ul style="list-style-type: none"> 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 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"> 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. 	To control potential noise impacts during excavation works.	Site wide and throughout the full duration of the construction contract.	The Contractor		✓			<i>Annex 5 of EIAO-TM</i>
4.7.1	B5	<ul style="list-style-type: none"> 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. 	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		✓			<i>Annex 5 of EIAO-TM</i>
4.7.1	B5	<ul style="list-style-type: none"> Use of movable noise barriers or 3 sided enclosures for all initial road opening activities 	To control potential noise impacts during road opening	Where there are NSRs located within 50m of the	The Contractor		✓			<i>Annex 5 of EIAO-TM</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	
4.7.1	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. Sewers and Rising Mains using Pipe Jacking Method • 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	Road Pavement and Finishes • 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>
		WATER QUALITY - Construction Phase No water quality monitoring is required under this study.								
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 (<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>Chemical Waste 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>Storage, Packaging and Labelling of Chemical Waste Containers used for storage of chemical wastes should:</p> <ul style="list-style-type: none"> be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 L unless the specifications have been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. 	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 & 12) Waste Disposal (Chemical Waste) (General) Regulation</i>
6.6.2	D4	<p>Storage of chemical waste The storage area for chemical wastes should:</p> <ul style="list-style-type: none"> be clearly labelled and used solely for the storage of chemical waste; be enclosed on at least 3 sides; 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; have adequate ventilation; be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste, if necessary); and be arranged so that incompatible materials are 	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, & 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>Disposal of chemical waste</p> <ul style="list-style-type: none"> 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>. <p><i>Management of Waste Disposal</i> 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 <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>	To be implemented at all worksites throughout the full duration of the construction phase.	The Contractor		✓			<i>Part IV, (20 -25) Waste Disposal (Chemical Waste) (General) Regulation</i>
		<p>LAND CONTAMINATION- Construction Phase</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. 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 monitor the disposal of C&DM and solid wastes at public filling facilities and landfills and to control fly-tipping.</p>	To be implemented at all worksites throughout the full duration of the construction phase.	The Engineer/ Contractor		✓			<i>Land (Miscellaneous Provisions) Ordinance (Cap 295) and Works Bureau Technical Circular No. 5/99.</i>
7.5.6	E1	<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. 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>	To be implemented before the commencement of the construction works.	To be Implemented by DSD or their sub-consultants at the Detailed Design Stage, depending upon when site access can be gained.	✓				<i>EIAO TM Annex 19/3.1.1 & 3.1.2</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	
		EPD, the contaminated site(s) shall be remediated in accordance with the approved CAR/RAP.								
8.7.1	F1	<p>ECOLOGY - Construction Phase Mitigation Measures Adopted - Avoidance 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>Mitigation Measures Adopted - Minimisation 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. Mitigation Measures Adopted 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 ³ .	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
		FISHERIES - Construction Phase No specific mitigation measures are required for inclusion in the EP.								
		CULTURAL HERITAGE – Not Applicable for Package 1A-1T (DC/2005/02)								
		LANDSCAPE AND VISUAL - Construction Phase								
	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"> existing landscape elements (such as mature trees), transplantation of valuable trees, new compensatory planting 		project.						
		<ul style="list-style-type: none"> 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. 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. 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. felling of mature trees are kept to a minimum. 								
3.7	I1	<p>EM&A REQUIEMENTS - Construction Phase</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"> Worksite boundary facing Scattered house in Nam Sang Wai (AM1); Worksite boundary facing Fung Kat Heung (AM5); Worksite boundary facing Scattered House near Route 3 (AM6); 	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"> at any additional locations, where considered necessary, in agreement with EPD. <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"> (NM3) Scattered House in Nam San Wai (D12); (NM4) Scattered House in Nam San Wai (D11); (NM6) Scattered House near Route 3 (D17); (NM7) Fung Kat Heung (D19); and at any additional locations, where considered necessary, in agreement with EPD 	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

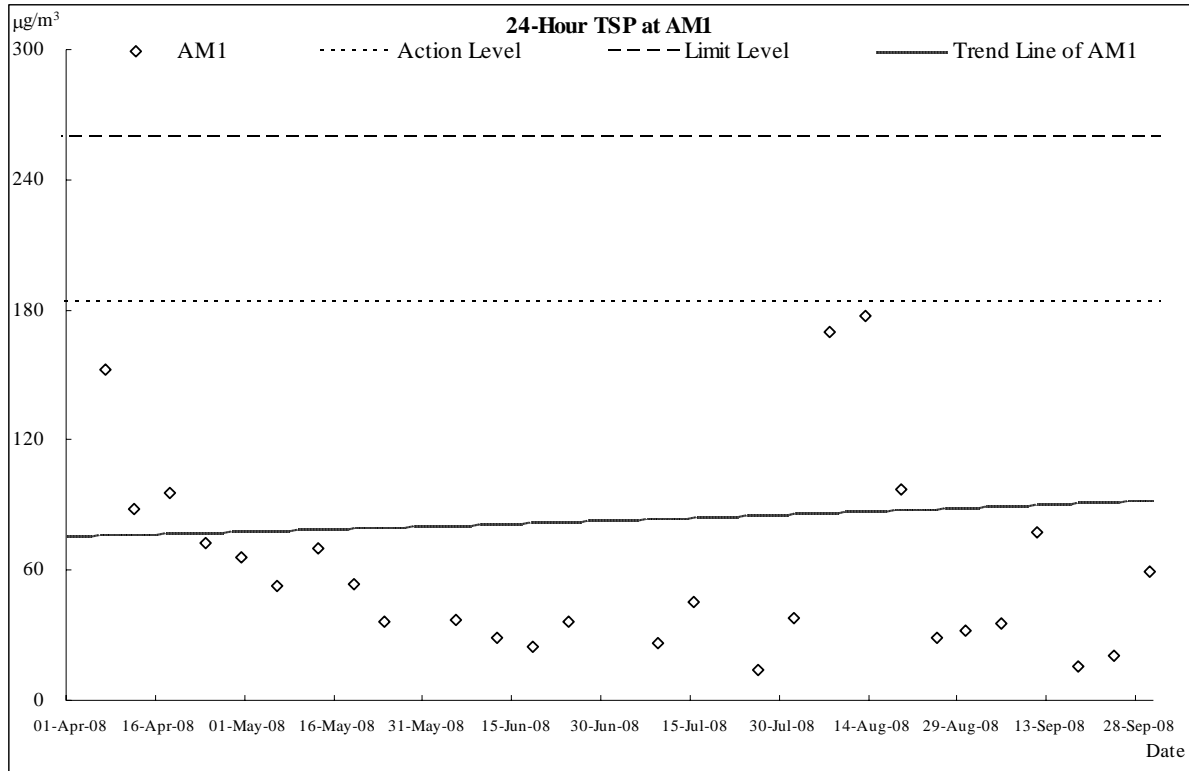
Annex H

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

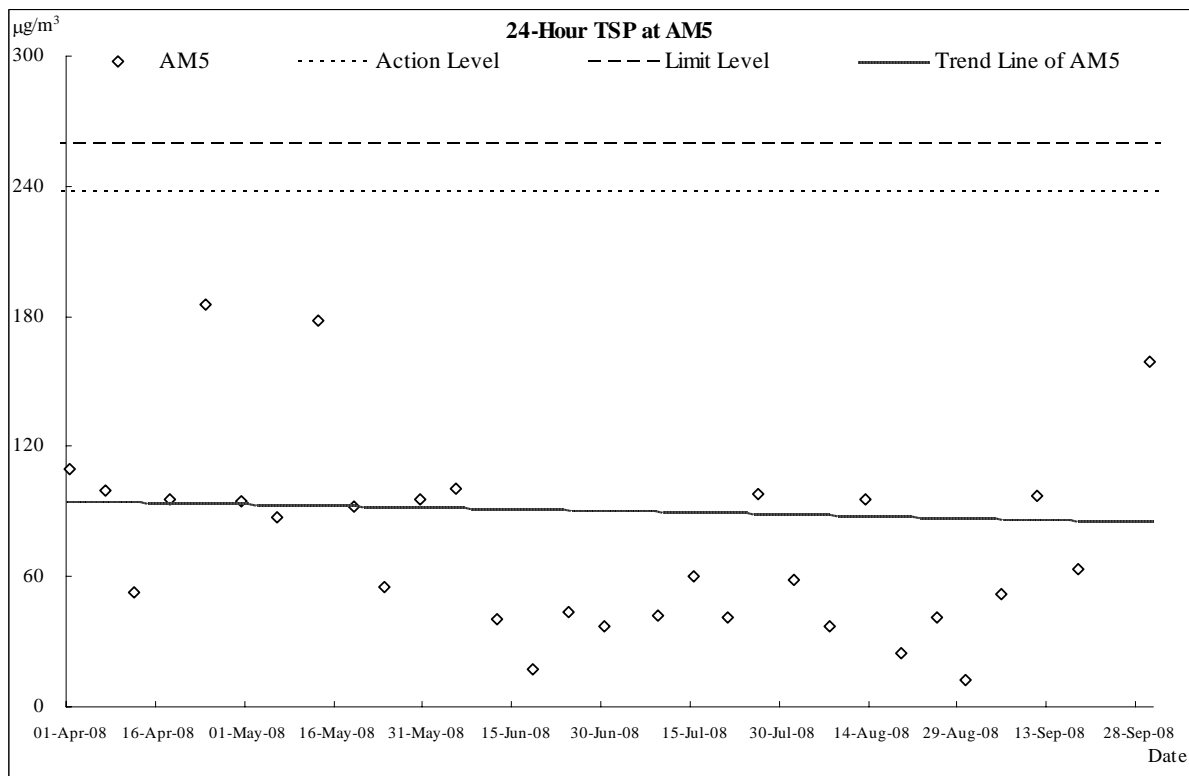
Air Quality Monitoring Results & Graphical Plot

Date	24-Hr TSP ($\mu\text{g}/\text{m}^3$)			
	AM1	AM5	AM6	AM7
01-Apr-08	Power failure	109	32	27
07-Apr-08	152	100	29	35
12-Apr-08	88	53	31	32
18-Apr-08	96	96	30	71
24-Apr-08	73	186	43	52
30-Apr-08	66	95	54	52
6-May-08	53	87	29	37
13-May-08	70	178	232	58
19-May-08	53	92	45	58
24-May-08	36	55	23	65
30-May-08	Power Failure	96	30	Power Failure
6-June-08	37	101	Power Failure	Power Failure
12-June-08	29	40	Power Failure	Power Failure
18-June-08	25	17	Power Failure	37
24-June-08	37	44	Power Failure	49
30-June-08	Power Failure	37	Power Failure	32
9-Jul-08	27	42	31	31
15-Jul-08	45	60	12	37
21-Jul-08	Power Failure	41	34	33
26-Jul-08	14	98	46	47
1-Aug-08	38	59	18	19
7-Aug-08	170	37	8	21
13-Aug-08	177	95	15	36
19-Aug-08	97	25	5	13
25-Aug-08	29	41	15	34
30-Aug-08	32	13	Power Shortage	14
05-Sep-08	35	52	24	23
11-Sep-08	77	97	45	78
18-Sep-08	16	64	15	46
24-Sep-08	21	Power Shortage	28	22
30-Sep-08	59	159	23	74
Average (Range)	61 (14 - 177)	76 (13 - 186)	36 (5 - 232)	40 (13 - 78)

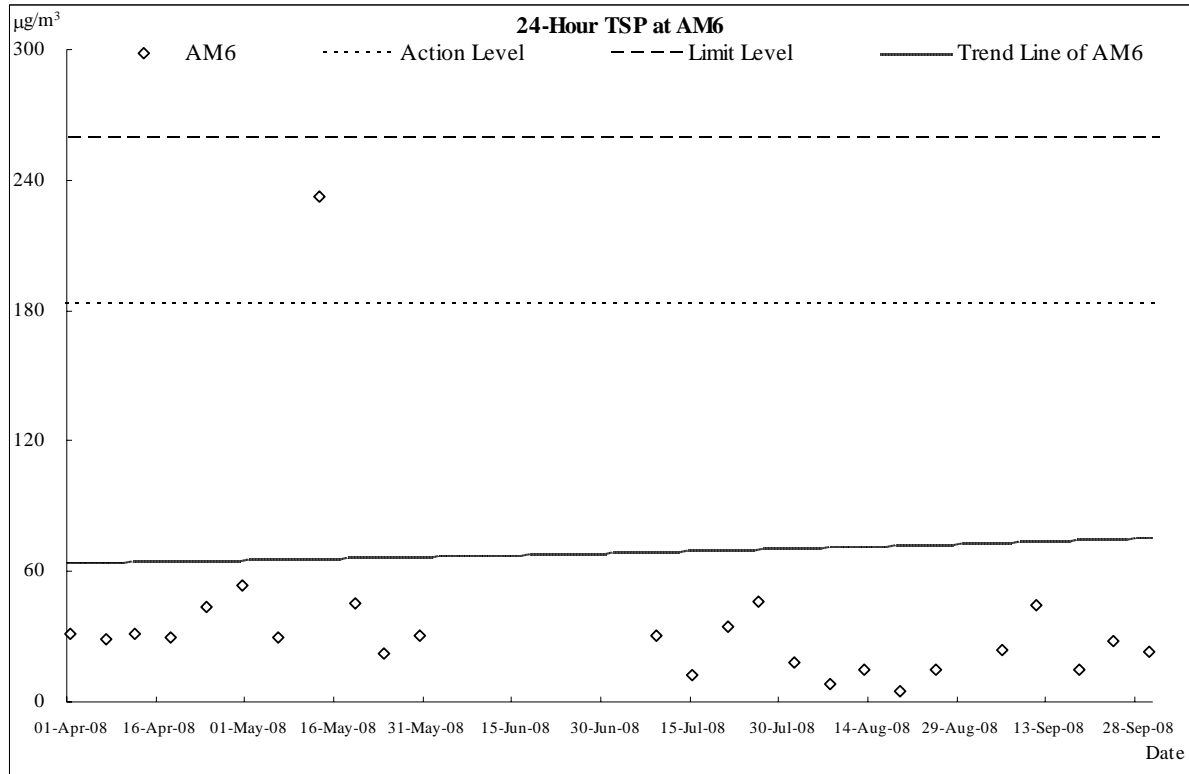
All 24-Hr TSP monitoring were preset to start at 00:00 on each monitoring date.



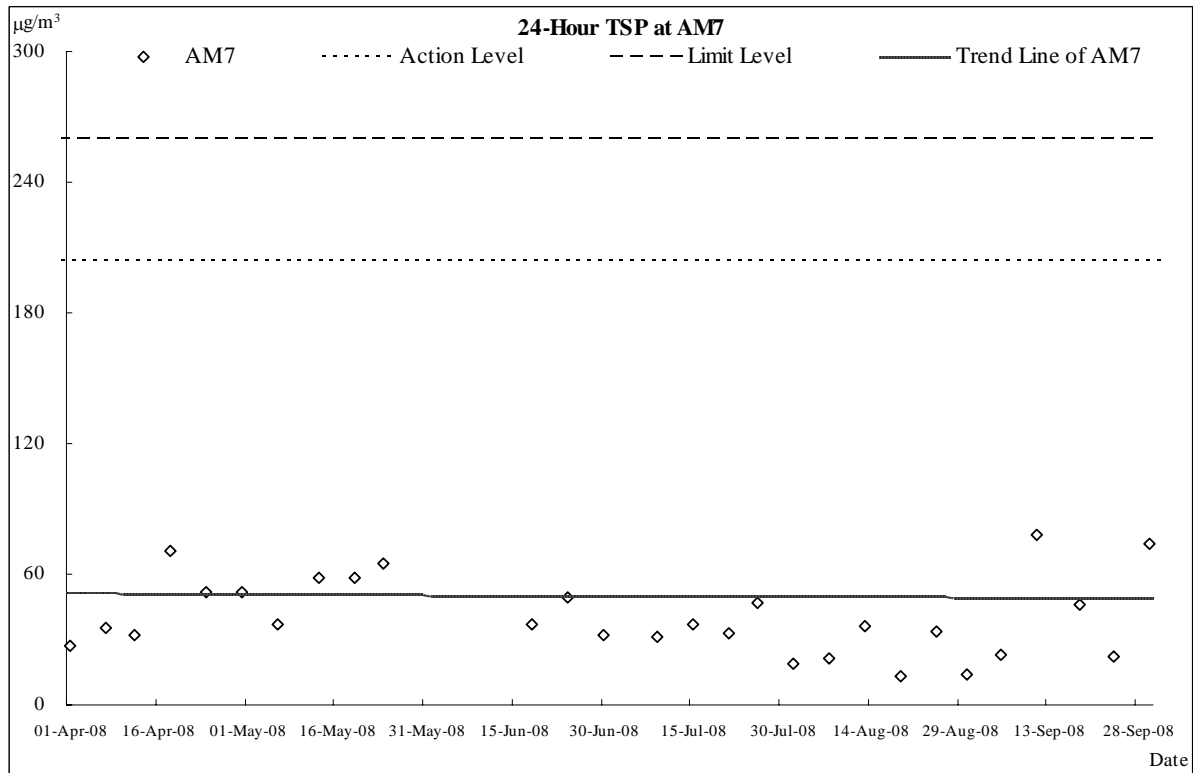
Note: Power supply damage from 28 February 2008 to 5 April 2008, monitoring was performed on 7 April 2008. Power failure on 30 May, 30 June, 21 & 26 July 2008



Note: Power failure on 24 September 2008.



Note: Power failure on 06 to 30 June and 30 August 2008.



Note: Power failure on 06 and 12 June 2008.

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
02-Apr-08	16:03	50.9	53.2	51.4	52.0	51.5	51.6	51.8	54.8
09-Apr-08	15:51	50.4	51.2	50.9	51.3	50.6	50.8	50.9	53.9
15-Apr-08	10:24	45.7	45.9	46.1	54.6	48.1	47.2	49.4	52.4
21-Apr-08	10:48	44.5	46.1	48.2	46.8	45.7	46.1	46.4	49.4
26-Apr-08	11:15	50.9	47.2	47.8	46.4	47.2	49.0	48.4	51.4
03-May-08	10:54	49.7	48.4	49.0	48.7	52.9	50.7	50.2	53.2
09-May-08	10:08	41.5	46.7	43.0	44.0	47.7	47.0	45.5	48.5
16-May-08	15:00	60.2	69.2	52.3	47.3	48.1	48.0	62.1	65.1
22-May-08	10:54	49.3	49.7	51.6	50.1	51.2	50.0	50.4	53.4
28-May-08	11:20	58.6	59.2	57.8	53.2	50.8	51.1	56.4	59.4
03-Jun-08	13:09	47.9	48.2	47.9	47.7	50.7	49.8	48.9	51.9
10-Jun-08	11:21	52.8	50.5	50.4	49.6	50.9	50.8	51.0	54.0
16-Jun-08	11:21	53.2	53.2	55.0	55.4	53.8	53.4	54.1	57.1
21-Jun-08	10:10	48.7	48.5	50.6	49.5	48.5	49.6	49.3	52.3
27-Jun-08	10:37	52.1	52.3	50.7	49.7	50.8	50.3	51.1	54.1
04-Jul-08	14:13	50.4	51.8	52.5	50.8	53.2	50.5	51.7	54.7
10-Jul-08	11:18	51.0	51.9	50.4	49.9	51.1	52.4	51.2	54.2
16-Jul-08	10:07	45.0	46.0	47.8	46.3	45.5	45.7	46.1	49.1
22-Jul-08	10:54	49.8	50.5	49.1	50.3	49.1	51.0	50.0	53.0
28-Jul-08	09:21	50.1	51.5	48.7	49.1	50.1	49.8	50.0	53.0
02-Aug-08	11:23	49.0	48.8	52.1	53.2	50.9	49.5	50.9	53.9
08-Aug-08	11:13	48.2	47.4	50.2	43.1	46.9	48.6	47.9	50.9
14-Aug-08	09:36	51.5	52.0	52.0	52.4	52.1	51.6	51.9	54.9
20-Aug-08	11:07	52.6	50.3	48.9	49.2	50.7	50.9	50.6	53.6
26-Aug-08	10:22	51.3	55.5	52.5	53.4	50.8	53.9	53.2	56.2
01-Sep-08	11:22	51.0	51.1	51.7	50.9	52.1	52.6	51.6	54.6
06-Sep-08	09:13	48.3	49.8	48.2	49.3	49.3	49.5	49.1	52.1
12-Sep-08	09:28	48.8	49.4	48.4	47.4	49.2	49.0	48.7	51.7
19-Sep-08	11:28	55.5	55.2	54.7	55.3	55.2	55.6	55.3	58.3
25-Sep-08	09:35	51.5	53.4	52.5	52.6	54.6	53.5	53.1	56.1
Limit Level									75

* 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
02-Apr-08	14:49	54.8	51.7	49.1	53.6	49.2	51.1	52.1	55.1
09-Apr-08	14:55	59.1	54.6	53.5	54.4	53.9	52.6	55.3	58.3
15-Apr-08	09:50	62.1	61.3	63.4	64.7	60.8	62.4	62.7	65.7
21-Apr-08	09:58	55.0	64.1	50.6	53.7	62.4	61.7	60.3	63.3
26-Apr-08	09:55	56.8	63.0	59.4	63.9	60.5	63.9	61.9	64.9
3-May-08	9:44	53.4	53.8	52.3	50.5	50.8	54.5	52.8	55.8
9-May-08	14:00	59.1	59.0	57.7	54.8	53.5	50.8	56.8	59.8
16-May-08	16:03	56.8	58.3	58.7	60.2	57.4	54.5	58.0	61.0
22-May-08	9:23	53.4	51.9	50.7	51.1	50.0	50.3	51.4	54.4
28-May-08	11:28	55.3	52.1	58.9	55.2	60.0	62.5	58.6	61.6
3-Jun-08	09:34	58.2	59.0	60.3	60.6	58.1	59.8	59.4	62.4
10-Jun-08	13:47	60.3	57.2	56.8	56.2	56.4	58.6	57.8	60.8
16-Jun-08	13:48	56.2	57.8	55.5	53.5	54.1	51.0	55.2	58.2
21-Jun-08	10:51	52.1	54.7	55.1	53.2	54.5	50.5	53.6	56.6
27-Jun-08	13:52	54.8	56.3	55.0	56.4	55.4	55.2	55.6	58.6
4-Jul-08	11:28	56.7	53.5	60.7	59.9	51.6	55.2	57.4	60.4
10-Jul-08	13:47	58.6	58.4	57.4	56.4	50.4	52.7	56.5	59.5
16-Jul-08	13:00	67.7	67.6	68.0	67.7	67.5	67.9	67.7	70.7
22-Jul-08	17:05	71.1	70.7	70.4	70.7	70.8	70.6	70.7	73.7
28-Jul-08	16:10	53.2	50.5	49.2	51.0	54.6	50.9	52.0	55.0
2-Aug-08	13:40	49.7	50.3	48.2	48.8	52.6	49.8	50.1	53.1
8-Aug-08	13:17	45.6	46.2	51.8	47.5	48.1	48.5	48.5	51.5
14-Aug-08	13:43	55.9	48.1	48.5	48.6	50.2	51.5	51.5	54.5
20-Aug-08	13:08	52.7	51.7	53.1	53.4	52.3	54.7	53.1	56.1
26-Aug-08	13:43	53.1	56.5	51.2	59.0	53.7	52.1	55.2	58.2
01-Sep-08	13:42	58.8	56.5	55.3	55.8	54.1	56.9	56.5	59.5
06-Sep-08	13:42	52.0	54.2	53.9	55.2	53.4	52.1	53.6	56.6
12-Sep-08	14:15	57.0	56.3	56.7	60.1	58.8	57.3	57.9	60.9
19-Sep-08	13:16	53.8	53.5	56.2	52.8	54.1	55.6	54.5	57.5
25-Sep-08	13:54	55.2	55.3	51.9	53.1	52.3	51.6	53.5	56.5
Limit Level									75

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

Noise Monitoring Results at NM6

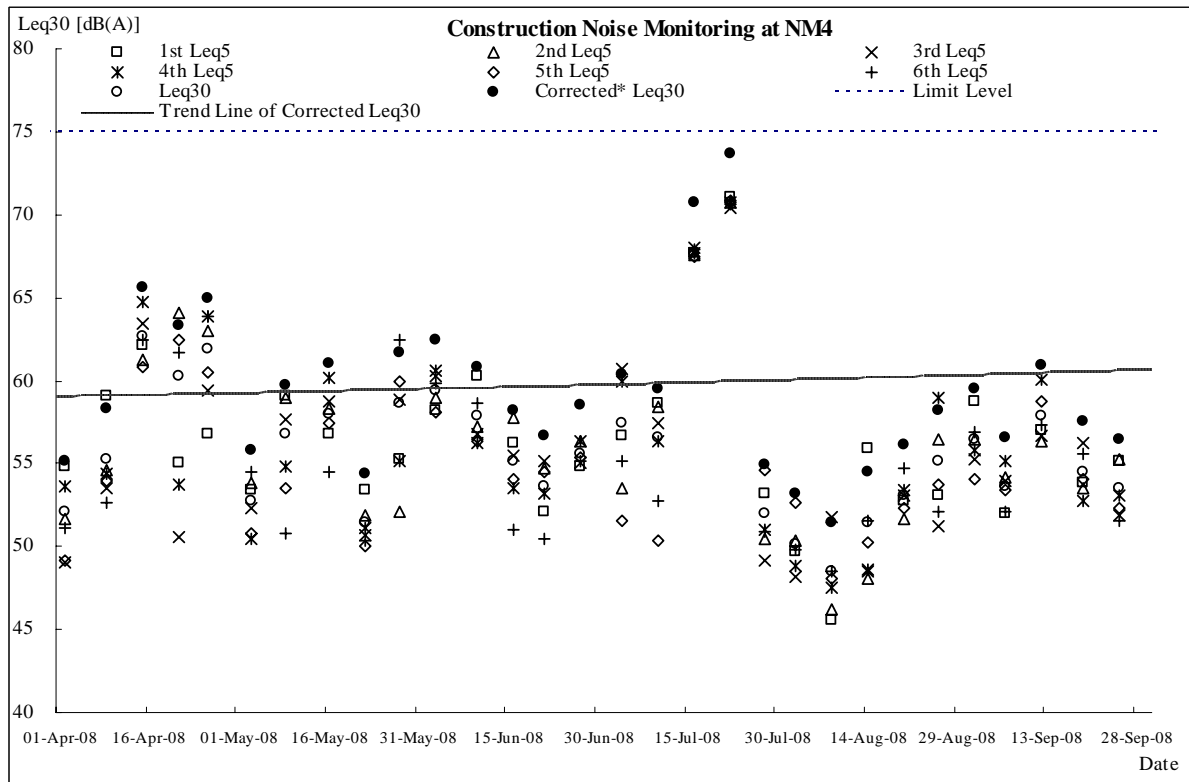
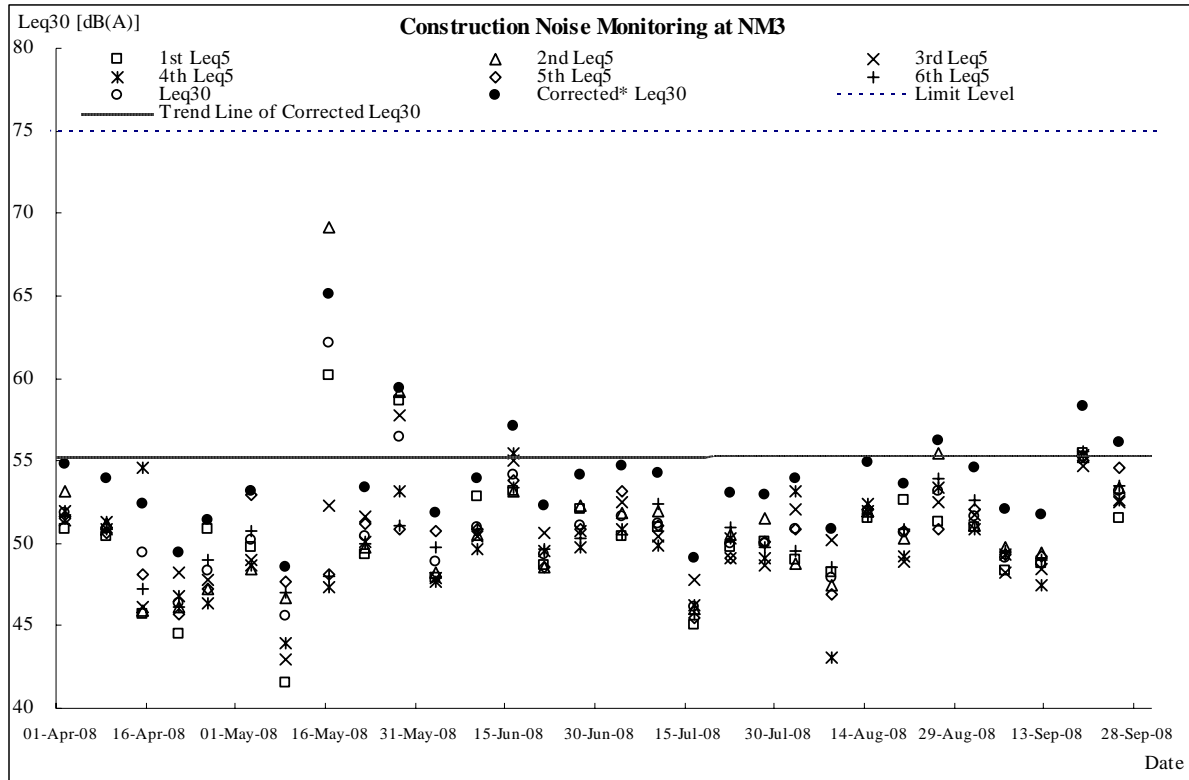
Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
02-Apr-08	15:19	68.0	67.7	68.3	69.6	68.4	69.1	68.6
09-Apr-08	14:25	57.3	58.2	55.4	56.4	59.4	55.4	57.3
15-Apr-08	11:29	62.5	60.4	59.3	59.4	66.9	63.0	62.8
21-Apr-08	13:04	62.5	57.1	62.2	61.4	58.5	56.8	60.4
26-Apr-08	11:20	62.7	58.9	56.2	61.1	53.6	54.7	59.1
3-May-08	14:56	58.2	57.2	58.6	60.4	57.3	56.5	58.2
9-May-08	15:27	59.2	57.3	56.3	56.8	60.5	55.4	58.0
16-May-08	10:30	68.8	72.0	65.8	65.3	73.8	68.8	70.2
22-May-08	13:50	65.7	73.4	72.1	69.5	75.5	66.7	71.8
28-May-08	13:50	73.3	67.1	69.1	65.8	67.6	69.8	69.5
03-Jun-08	11:10	58.1	71.3	64.0	64.9	63.2	60.4	65.8
10-Jun-08	10:50	70.6	68.2	70.7	71.5	71.2	69.9	70.5
16-Jun-08	10:38	73.5	75.9	72.6	71.0	73.8	71.5	73.4
21-Jun-08	10:28	67.8	69.3	70.0	68.5	72.1	69.0	69.7
27-Jun-08	10:40	75.2	75.1	69.8	64.8	72.5	75.3	73.3
03-Jun-08	11:10	58.1	71.3	64.0	64.9	63.2	60.4	65.8
10-Jun-08	10:50	70.6	68.2	70.7	71.5	71.2	69.9	70.5
16-Jun-08	10:38	73.5	75.9	72.6	71.0	73.8	71.5	73.4
21-Jun-08	10:28	67.8	69.3	70.0	68.5	72.1	69.0	69.7
27-Jun-08	10:40	75.2	75.1	69.8	64.8	72.5	75.3	73.3
02-Aug-08	11:22	56.3	58.5	55.8	57.3	56.3	56.8	56.9
08-Aug-08	11:18	58.2	55.6	62.7	57.9	63.7	64.4	61.6
14-Aug-08	11:23	59.3	61.7	54.9	57.3	57.0	53.4	58.1
20-Aug-08	11:29	56.7	54.5	54.5	53.8	55.2	54.5	55.0
26-Aug-08	11:26	61.1	60.5	68.3	64.9	59.8	61.9	63.9
01-Sep-08	11:21	60.5	58.6	61.7	57.8	62.7	61.6	60.8
06-Sep-08	11:22	56.3	54.2	56.4	55.2	53.7	55.1	55.3
12-Sep-08	13:00	55.8	58.7	53.8	54.5	56.7	55.9	56.2
19-Sep-08	11:18	56.1	58.1	53.4	57.9	54.7	56.4	56.4
25-Sep-08	11:29	56.7	57.8	56.0	54.9	54.1	55.7	56.0
Limit Level								75

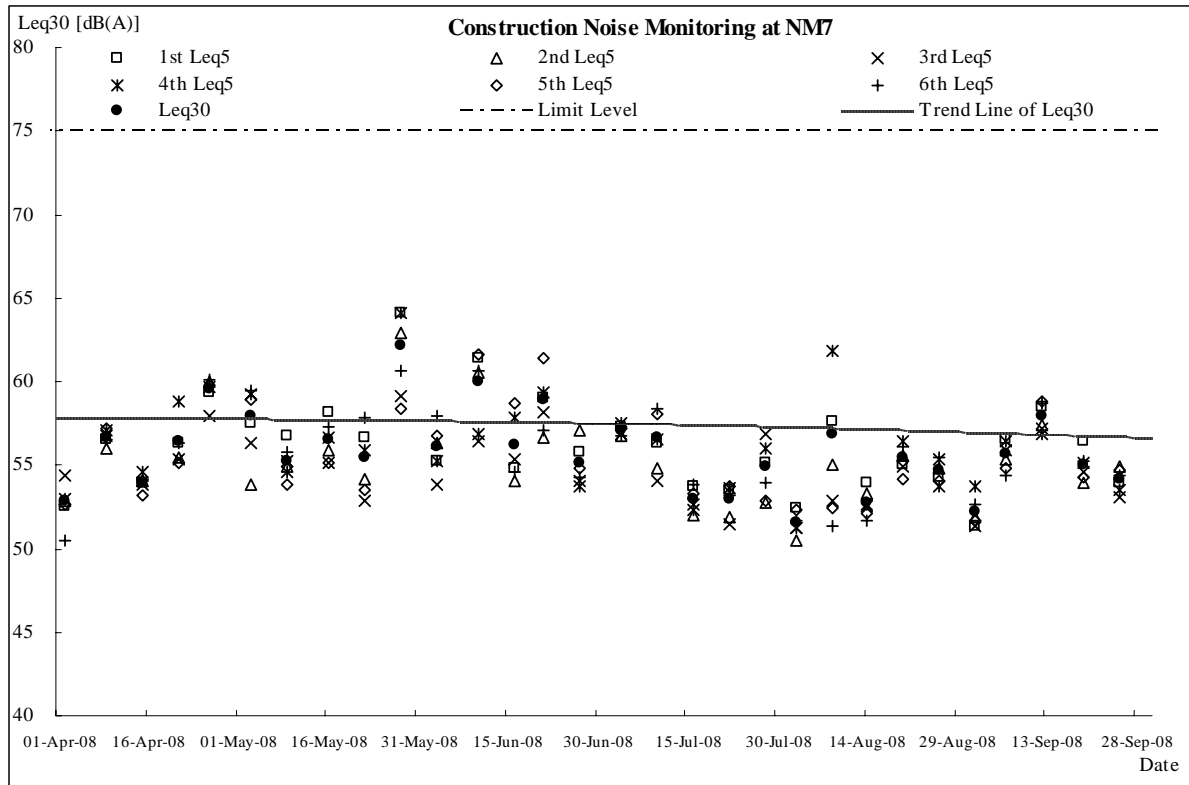
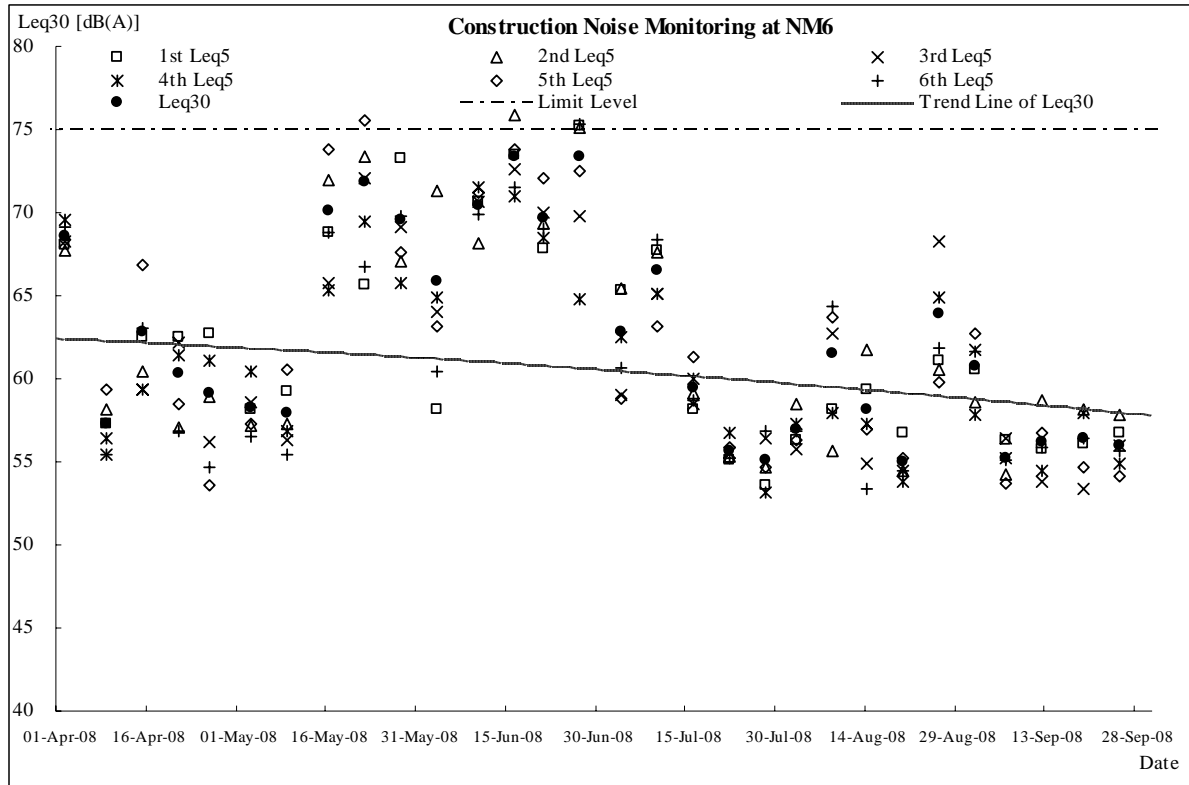
* No façade correction was required

Noise Monitoring Results at NM7

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30
02-Apr-08	16:44	52.5	52.9	54.4	53.0	52.7	50.5	52.8
09-Apr-08	15:45	56.5	56.0	56.8	57.1	57.2	56.5	56.7
15-Apr-08	11:00	54.0	54.1	53.8	54.6	53.2	54.1	54.0
21-Apr-08	11:15	56.3	55.5	55.4	58.8	55.1	56.3	56.4
26-Apr-08	13:10	59.3	60.0	58.0	59.7	59.8	60.1	59.5
3-May-08	11:30	57.5	53.8	56.3	59.2	58.9	59.5	57.9
9-May-08	14:45	56.8	54.9	55.2	54.6	53.8	55.8	55.3
16-May-08	15:48	58.2	55.9	55.1	56.7	55.1	57.3	56.5
22-May-08	13:19	56.6	54.2	52.9	55.9	53.5	57.8	55.5
28-May-08	13:05	64.1	62.9	59.1	64.1	58.4	60.7	62.1
3-Jun-08	14:04	55.2	56.3	53.8	55.2	56.8	57.9	56.1
10-Jun-08	10:42	61.4	60.5	56.4	56.9	61.6	60.7	60.0
16-Jun-08	14:52	54.8	54.1	55.4	57.8	58.7	54.6	56.3
21-Jun-08	09:29	59.0	56.6	58.2	59.4	61.4	57.1	58.9
27-Jun-08	09:28	55.8	57.1	54.1	53.7	54.8	54.3	55.1
04-Jul-08	11:20	65.3	65.4	59.0	62.5	58.8	60.7	62.8
10-Jul-08	13:00	67.7	67.6	65.1	65.1	63.2	68.4	66.6
16-Jul-08	13:00	58.1	59.1	58.5	60.0	61.3	58.7	59.4
22-Jul-08	13:35	55.1	55.3	55.5	56.7	55.9	55.2	55.7
28-Jul-08	11:20	53.6	54.7	56.4	53.1	54.7	56.9	55.1
2-Aug-08	09:26	52.4	50.5	51.2	51.2	52.3	51.7	51.6
8-Aug-08	09:58	57.6	55.0	52.9	61.8	52.4	51.4	56.9
14-Aug-08	10:27	53.9	53.3	52.5	52.6	52.1	51.7	52.7
20-Aug-08	09:24	55.0	55.6	54.9	56.4	54.2	56.1	55.4
26-Aug-08	09:23	54.3	54.8	55.3	53.7	54.1	55.5	54.7
01-Sep-08	10:20	51.3	51.9	51.4	53.7	51.7	52.6	52.2
06-Sep-08	10:13	56.5	55.4	55.9	56.4	54.8	54.4	55.6
12-Sep-08	10:27	58.5	57.4	57.2	56.9	58.8	58.7	58.0
19-Sep-08	09:23	56.4	54.0	54.6	55.1	54.3	55.2	55.0
25-Sep-08	10:43	54.0	54.9	53.1	53.5	54.7	54.4	54.1
Limit Level								75

* 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

April 2008

Date		Weather	Lau Fau Shan Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Apr-08	Tue	cloudy/rain/mist/fresh/strong	4.3	16.9	18	88	E
2-Apr-08	Wed	cloudy/rain/mist/moderate	0.7	17.9	13.5	89.5	E
3-Apr-08	Thu	humid/misty/rain/moderate/fresh	1.4	18	7.5	91.5	E/NE
4-Apr-08	Fri	Holiday					
5-Apr-08	Sat	cloudy/sunny periods/moderate	Trace	25.5	14.5	74	E/NE
6-Apr-08	Sun	fine/cloudy/moderate	0	23.3	11.5	76.5	W
7-Apr-08	Mon	fine/cloudy/moderate	0	26.9	11	86	W/SW
8-Apr-08	Tue	Sunny periods/isolated showers/cloudy/moderate	0	27.5	15	68.5	S
9-Apr-08	Wed	sunny intervals/cloudy/moderate	Trace	27	26	73	S/SW
10-Apr-08	Thu	cloudy/fog/light winds/moderate/rain	Trace	27.8	14.5	78	SE
11-Apr-08	Fri	cloudy/mist/rain/moderate/fresh	Trace	26.6	16	75	SE
12-Apr-08	Sat	cloudy/mist/rain/moderate/fresh	Trace	24.9	20	75	SE
13-Apr-08	Sun	cloudy/mist/rain/moderate/fresh	1.3	24.4	9	83	E/NE
14-Apr-08	Mon	sunny periods/cloudy/moderate/fresh	0	25.5	11.2	75	E
15-Apr-08	Tue	sunny periods/cloudy/moderate	0	24.8	10.5	75.5	E
16-Apr-08	Wed	fine/hot/light winds	0	25	12.7	75.2	E
17-Apr-08	Thu	cloudy/rain/light winds/fresh	Trace	27.1	12	78	SE
18-Apr-08	Fri	cloudy/rain/fresh/strong	Trace	25.1	21.5	67.5	E
19-Apr-08	Sat	fresh/strong/gale/overcast/rain/squall	237.4	23.3	26.5	75.5	E
20-Apr-08	Sun	sunny periods/isolated showers/moderate	0	27.4	13.5	78	SW
21-Apr-08	Mon	sunny periods/isolated showers/moderate	Trace	26.1	11	84.5	SE
22-Apr-08	Tue	fine/isolated showers/cloudy/light winds/moderate	0	26.8	11	80.7	SE
23-Apr-08	Wed	cloudy/rain/moderate/fresh	0.4	20.9	15	76.5	NE
24-Apr-08	Thu	cloudy/haze/moderate	0.1	20.2	18.2	68.5	N/NE
25-Apr-08	Fri	cloudy/rain/moderate	0.7	20.6	6.5	75.5	E
26-Apr-08	Sat	bright/haze/light winds	Trace	22.3	10	75	E/SE
27-Apr-08	Sun	bright/haze/light winds	Trace	23.6	16	80.5	E/SE
28-Apr-08	Mon	cloudy/moderate	7.8	19.9	9	90.5	E/NE
29-Apr-08	Tue	cloudy/sunny intervals/moderate	Trace	22.7	6.5	77.5	E/NE
30-Apr-08	Wed	cloudy/sunny intervals/haze/light winds	Trace	23.7	6.5	77.5	E

May 2008

Date		Weather	Total Rainfall (mm)	Lau Fau Shan Station			
				Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-May-08	Thu			Holiday			
2-May-08	Fri	cloudy/a few showers/moderate	7.1	24.2	7.5	86	S/SE
3-May-08	Sat	misty/sunny intervals/moderate	2.2	26.5	11	84	E
4-May-08	Sun	cloudy/scattered showers/light winds/moderate	Trace	28	13.5	72.5	S/SE
5-May-08	Mon	sunny intervals/light winds/fresh/scattered showers/squally thunderstorm	4.5	25.4	9	83.5	S/SE
6-May-08	Tue	cloudy/rain/moderate/fresh	21	23.9	19.5	81.5	E
7-May-08	Wed	fine/mist/moderate	Trace	27	12.5	76.2	E
8-May-08	Thu	fine/hot/light winds	Trace	27.1	14.2	77	SE
9-May-08	Fri	cloudy/moderate/fresh/scattered showers	0	28.7	13.5	79.5	W
10-May-08	Sat	cloudy/showers/sunny intervals/moderate/fresh	3.5	23	16.5	74.5	NE
11-May-08	Sun	cloudy/showers/moderate/fresh	Trace	21.3	13.4	78.5	W
12-May-08	Mon			Holiday			
13-May-08	Tue	fine/very dry/moderate/fresh	Trace	21.3	12.5	60	E
14-May-08	Wed	fine/dry/moderate/fresh	0	24.4	12.5	59.5	E
15-May-08	Thu	fine/dry/haze/hot/moderate	0	24.3	13	60	E/SE
16-May-08	Fri	fine/dry/haze/hot/moderate	0	24.3	14	68.5	SE
17-May-08	Sat	cloudy/sunny intervals/moderate	0	25.5	14	63.5	SE
18-May-08	Sun	cloudy/sunny intervals/moderate	Trace	25.3	16	76.5	S/SE
19-May-08	Mon	cloudy/rain/moderate	20.1	23	13	91	N/NW
20-May-08	Tue	cloudy/overcast/rain/fresh/strong	32.9	20.6	12	95.5	E/NE
21-May-08	Wed	cloudy/a few showers/moderate	Trace	22.8	14	90.5	E/NE
22-May-08	Thu	cloudy/rain/mist/moderate	1.4	26	11	88	E
23-May-08	Fri	sunny periods/isolated showers/moderate	0.3	27.1	9.5	84.5	E/SE
24-May-08	Sat	hot/sunny periods/isolated showers/moderate	0.4	28.4	15	79	S/SE
25-May-08	Sun	sunny periods/a few showers/moderate/fresh	0.3	28	15.5	80.5	SE
26-May-08	Mon	sunny periods/a few showers/moderate/fresh	9.9	26.2	11	84	S/SE
27-May-08	Tue	a few showers/sunny periods/moderate/fresh	Trace	29	15.5	79.5	S/SE
28-May-08	Wed	scattered showers/squally thunderstorms/sunny intervals/moderate/fresh	6.9	27.6	22	80.5	S/SW
29-May-08	Thu	cloudy/rain/squally thunderstorms/moderate/fresh	60.6	26.6	21	87.5	S/SE
30-May-08	Fri	cloudy/overcast/rain/squally thunderstorms/moderate/fresh	39	25.7	12	87	S/SW
31-May-08	Sat	cloudy/rain/thunderstorms/moderate	0.7	26.4	7.5	90	E/SE

June 2008

Date		Weather	Lau Fau Shan Weather Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Jun-08	Sun	cloudy/rain/thunderstorm/moderate	23.1	26.4	11.5	81.5	S/SE
2-Jun-08	Mon	cloudy/rain/thunderstorm/moderate	36.6	26.2	8	91	E/SE
3-Jun-08	Tue	cloudy/rain/thunderstorm/light winds	44.9	26.8	10.5	86.5	S/SE
4-Jun-08	Wed	cloudy/rain/moderate	18.3	25.9	11	86.5	E/NE
5-Jun-08	Thu	cloudy/a few showers/showers/thunderstorm/light	0.1	26.1	9	84	E/SE
6-Jun-08	Fri	overcast/rain/squally thunderstorm/fresh/strong	130.8	23.1	13.5	86	S/SE
7-Jun-08	Sat	Black Rainstorm Signal					
8-Jun-08	Sun	cloudy/squally thunderstorm	0	26.9	23	69	S/SW
9-Jun-08	Mon						Holiday
10-Jun-08	Tue	cloudy/scattered showers/moderate/fresh	4.5	29	21.5	73.5	S/SW
11-Jun-08	Wed	cloudy/squally thunderstorm/moderate/fresh	1.7	25.9	24.5	86.5	S/SW
12-Jun-08	Thu	a few showers/moderate/fresh/thunderstorm	7.2	27.5	17	81.5	S/SW
13-Jun-08	Fri	cloudy/rain/moderate	62.5	25.3	18	88.5	S/SE
14-Jun-08	Sat	cloudy/rain/moderate	80.8	25.7	12	94.5	S/SE
15-Jun-08	Sun	moderate/cloudy/rain	41.7	27.1	13	80	S/SE
16-Jun-08	Mon	cloudy/showers/squally thunderstorm/moderate	32.3	27.5	8.2	85.5	E/SE
17-Jun-08	Tue	cloudy/overcast/rain/squally thunderstorm/fresh	86.9	25	14.2	86.5	S/SE
18-Jun-08	Wed	cloudy/rain/squally thunderstorm/fresh/strong	24.8	25.7	20.5	90	S/SE
19-Jun-08	Thu	sunny periods/hot/showers/fine/moderate	7.6	28.1	17	81.5	S/SE
20-Jun-08	Fri	fine/hot/moderate	0	29.2	11.5	75	S/SE
21-Jun-08	Sat	fine/hot/moderate	0	28.3	9.5	74.5	S/SE
22-Jun-08	Sun	fine/very hot/light winds	0	29	11.5	66.5	W/SW
23-Jun-08	Mon	fine/very hot/light winds	0	29.3	9.5	82	S/SE
24-Jun-08	Tue	cloudy/a few showers/sunny intervals/fresh/strong	0.6	30.1	17	73.5	E/NE
25-Jun-08	Wed	strong/gale/rain/squally thunderstorm/moderate	146.1	26.8	39	77	E/NE
26-Jun-08	Thu	cloudy/rain/squally thunderstorm/moderate	100.4	25.8	28.5	87.5	S/SW
27-Jun-08	Fri	cloudy/rain/squally thunderstorm/moderate/fresh	60	26	15	90.5	S/SW
28-Jun-08	Sat	cloudy/rain/squally thunderstorm/moderate	35.5	24.4	18.7	86.7	S/SE
29-Jun-08	Sun	cloudy/rain/squally thunderstorm/moderate	44.5	26.3	24	87.5	S
30-Jun-08	Mon	cloudy/rain/squally thunderstorm/moderate	48.5	26.3	12	89.5	E/SE

July 2008

Date		Weather	Lau Fau Shan Weather Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Jul-08	Tue			Holiday			
2-Jul-08	Wed	fine/hot/moderate	Trace	29.4	12	74	S/SE
3-Jul-08	Thu	fine/hot/moderate	0	29	18	77	S/SE
4-Jul-08	Fri	sunny/hot/fine/moderate	0	28.9	15	74.2	S/SE
5-Jul-08	Sat	fine/hot/showers/moderate	11.6	28.9	14.2	77	E/SE
6-Jul-08	Sun	cloudy/rain/squally thunderstorm/moderate/fresh	54.4	27.6	13.5	92.5	E
7-Jul-08	Mon	cloudy/rain/squally thunderstorm/moderate/fresh	39.4	25.3	11	95.5	E/NE
8-Jul-08	Tue	cloudy/rain/squally thunderstorm/moderate/fresh	51.3	27.3	12	88.5	SW
9-Jul-08	Wed	cloudy/rain/squally thunderstorm/moderate	43.3	26	18.5	87.5	SE
10-Jul-08	Thu	cloudy/rain/squally thunderstorm/moderate	59.9	26	13	90.5	SE
11-Jul-08	Fri	cloudy/a few showers/moderate	12.8	26.5	11.5	88.5	S/SE
12-Jul-08	Sat	cloudy/rain/squally thunderstorm/light	114.3	25.6	10	86.5	S/SE
13-Jul-08	Sun	sunny intervals/showers/light winds	11.7	26.3	17.5	91	SE
14-Jul-08	Mon	sunny periods/isolated shower/light wind	30.7	27.9	9	86	E/SE
15-Jul-08	Tue	sunny periods, a few showers/thunderstorm/light winds	33.8	28.4	18.5	84	E/NE
16-Jul-08	Wed	sunny periods/a few showers/light winds	Trace	28.5	13	79.5	E/SE
17-Jul-08	Thu	fine/not/isolated showers/moderate	0	28.8	11	83.5	S/SW
18-Jul-08	Fri	hot/sunny periods/cloudy/isolated showers/moderate	Trace	29.4	14.5	79	W/SW
19-Jul-08	Sat	hot/sunny intervals/moderate/fresh	3.9	30	22	77.5	SW
20-Jul-08	Sun	fine/hot/isolated showers/moderate	0	29.9	16	73	S/SE
21-Jul-08	Mon	fine/hot/isolated showers/moderate	Trace	29.3	14.5	82.5	W/SW
22-Jul-08	Tue	fine/very hot/moderate	Trace	29.8	16	70.5	S/SW
23-Jul-08	Wed	fine/hot/moderate	0	29.5	19	72	S/SE
24-Jul-08	Thu	fine/very hot/moderate	0	29.4	13.5	75.5	S
25-Jul-08	Fri	fine/very hot/moderate	0	30.9	13.5	71.5	W/SW
26-Jul-08	Sat	fine/very hot/isolated showers/thunderstorm/moderate	0	29.8	12	74	W/SW
27-Jul-08	Sun	fine/hazy/very hot/a few showers/squally thunderstorm/moderate	Trace	28.4	37	76	W/SW
28-Jul-08	Mon	fine/hazy/very hot/a few showers/squally thunderstorm/moderate	Trace	30.7	10	80	W/SW
29-Jul-08	Tue	cloudy/a dew showers/moderate/fresh	Trace	31.2	15	66.2	W/SW
30-Jul-08	Wed	cloudy/a few showers/fresh/strong	Trace	29.1	23.5	76	SW
31-Jul-08	Thu	cloudy/a few showers/squally thunderstorm/moderate	Trace	29.2	13.5	76.7	S/SE

August 2008

Date	Weather	Lau Fau Shan Weather Station					
		Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction	
1-Aug-08	Fri	sunny periods/showers/fine/moderate	Trace	28.3	15.5	78.5	E/NE
2-Aug-08	Sat	fine/hot/moderate	Trace	29	18	78	E
3-Aug-08	Sun	fine/very hot/moderate	0	29.8	10.2	69.5	E/NE
4-Aug-08	Mon	fine/very hot/isolated showers/moderate	Trace	30.1	6.5	76	E/NE
5-Aug-08	Tue	cloudy/squally showers/fresh	6.1	27	15	78	N
6-Aug-08	Wed	No.8 Southeast Gale Of Storm Signal					
7-Aug-08	Thu	cloudy/squally showers/fresh	72.3	26.7	23.5	86.5	E/SE
8-Aug-08	Fri	cloudy/scattered showers/squally thunderstorm/moderate	48.3	26.7	14.5	85	E
9-Aug-08	Sat	cloudy/isolated showers/moderate	0	28.5	10.5	83.5	E/NE
10-Aug-08	Sun	cloudy/isolated showers/moderate	0	27.7	11.2	78.5	S/SE
11-Aug-08	Mon	cloudy/rain/squally thunderstorm/moderate	17.7	25.3	7.5	89	S/SE
12-Aug-08	Tue	fine/isolated showers/moderate	Trace	27.8	12	81	E/SE
13-Aug-08	Wed	fine/hot/moderate	0	28.8	13	79.5	S/SE
14-Aug-08	Thu	fine/hot/moderate	0	29.4	14	73.5	W/SW
15-Aug-08	Fri	fine/hot/moderate/fresh	0	29.5	14.2	76.5	S/SW
16-Aug-08	Sat	fine/hot/moderate/fresh	0	29.4	18	75.5	S/SW
17-Aug-08	Sun	fine/hot/showers/moderate	Trace	29.8	17.5	70.5	S/SE
18-Aug-08	Mon	fine/hot/showers/moderate	Trace	29.2	6.5	80	E/NE
19-Aug-08	Tue	fine/very hot/moderate	Trace	30	12	74	S/SE
20-Aug-08	Wed	fine/very hot/isolated showers/light winds	0	29.6	15	70.5	S/SE
21-Aug-08	Thu	cloudy/scattered showers/squally thunderstorm/moderate	Trace	30.1	12	71.5	W/SW
22-Aug-08	Fri	increasing Gale Or Storm Signal No. 9					
23-Aug-08	Sat	cloudy/squally showers/fresh/strong	36.9	25.4	Maintenance	81.5	Maintenance
24-Aug-08	Sun	fine/hot/moderate	Trace	28.5	Maintenance	73	Maintenance
25-Aug-08	Mon	fine/hot/moderate	Trace	29.5	Maintenance	76.5	Maintenance
26-Aug-08	Tue	fine/very hot/light winds	0	28.8	Maintenance	77	Maintenance
27-Aug-08	Wed	fine/hot/moderate	0	28.8	Maintenance	75.5	Maintenance
28-Aug-08	Thu	fine/hot/isolated showers/moderate			Maintenance	71	Maintenance
29-Aug-08	Fri	fine/hot/isolated showers/moderate	0	29.7	Maintenance	75	Maintenance
30-Aug-08	Sat	fine/hot/isolated showers/moderate	0	29.7	Maintenance	74.5	Maintenance
31-Aug-08	Sun	fine/very hot/moderate	0	29.3	Maintenance	71	Maintenance

September 2008

Date		Weather	Lau Fau Shan Weather Station				
			Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Sep-08	Mon	fine/isolated showers/moderate	0	28.8	Maintenance	79	Maintenance
2-Sep-08	Tue	cloudy/a few showers/thunderstorm/sunny intervals/light winds	6.7	27.8	11.5	80	S/SE
3-Sep-08	Wed	a few showers/squally thunderstorm/sunny intervals/light winds	9	28	8.5	79.5	E
4-Sep-08	Thu	a few showers/squally thunderstorm/sunny intervals/moderate	Trace	28.9	7.9	64.1	E
5-Sep-08	Fri	a few showers/squally thunderstorm/sunny intervals/light winds	6.3	27.7	10.5	84.5	E/SE
6-Sep-08	Sat	a few showers/squally thunderstorm/sunny intervals/moderate	25.8	27.6	11.5	82.5	E/NE
7-Sep-08	Sun	fine/isolated showers/hot/moderate	5.5	28.9	17.5	73.5	E/NE
8-Sep-08	Mon	fine/isolated showers/hot/moderate	Trace	28.7	10	71.5	E/NE
9-Sep-08	Tue	fine/hot/moderate	0.2	29.4	10.7	71	E/SE
10-Sep-08	Wed	fine/very hot/moderate	0	29.6	11	68	E/SE
11-Sep-08	Thu	fine/haze/very hot/isolated showers/light winds	0	29.1	10.2	67	S/SE
12-Sep-08	Fri	very hot/fine/hazy/isolated showers/light winds	0	30.5	14.5	71.2	W/SW
13-Sep-08	Sat	very hot/fine/dry/hazy/isolated showers/moderate	0	30.5	12	68.5	N
14-Sep-08	Sun	very hot/fine/dry/hazy/isolated showers/moderate	0	30.5	10.5	62.4	N
15-Sep-08	Mon	Holiday					
16-Sep-08	Tue	fine/dry/very hot/haze/light winds	0	30.6	9.2	63.2	N
17-Sep-08	Wed	fine/hazy/very hot/isolated showers/light winds	0	28.7	10.5	70	S/SE
18-Sep-08	Thu	cloudy/a few showers/thunderstorm/sunny intervals/light winds	1.6	28.5	12.5	84	S/SE
19-Sep-08	Fri	thunderstorm/sunny periods/moderate	23.5	29	10	80	E
20-Sep-08	Sat	fine/isolated showers/moderate	30.2	9	77	E/NE	30.2
21-Sep-08	Sun	fine/isolated showers/moderate	29.6	12	66.5	W/SW	29.6
22-Sep-08	Mon	fine/hazy/very hot/isolated/moderate	31.4	12.5	77	W/NW	31.4
23-Sep-08	Tue	fresh/strong/cloudy/squally showers	28.6	21	61	N	28.6
24-Sep-08	Wed	strong/gales/cloudy/squally showers/thunderstorm	25.4	37.5	74.5	E/SE	25.4
25-Sep-08	Thu	sunny intervals/a few showers/moderate/fresh	29.3	19	79.5	E/SE	29.3
26-Sep-08	Fri	sunny periods/moderate	29.4	12.5	77.5	E	29.4
27-Sep-08	Sat	sunny periods/cloudy/a few showers/moderate/fresh	27.5	12	73.5	E/NE	27.5
28-Sep-08	Sun	sunny periods/cloudy/a few showers/moderate/fresh	27.2	19.5	63	N/NE	27.2
29-Sep-08	Mon	fine/dry/moderate/fresh	26.9	17	62.5	N/NE	26.9
30-Sep-08	Tue	fine/dry/moderate	27.3	16	60	E/NE	27.3