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**TEST REPORT**

**PENTA-OCEAN CONSTRUCTION COMPANY LIMITED**

REMAINING ENGINEERING  
INFRASTRUCTURE WORKS FOR PAK  
SHEK KOK DEVELOPMENT PACKAGE 1  
(CONTRACT NO.: TP 35/02)

**MONTHLY EM&A REPORT**

**(MARCH 2005)**

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## EXECUTIVE SUMMARY

This monthly EM&A report (No.27) has been prepared to document the impact monitoring works conducted for the Contract of the Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Contract No: TP 35/02) during the reporting period from 01 to 31 March 2005.

### **Construction Progress**

The major construction works in this reporting month were as below:

- *Drainage works in Area Zone H and S2*
- *Watermain works in Area 4*
- *Dismantling of Road D1 bridge deck falsework*
- *Construction works at pumping station no.1 and no.2*
- *Construction of sewer rising main connected to PS1 at area 7B*
- *Construction of sewer rising main connected to PS2 at area 15*
- *General landscape works*
- *Installation of irrigation System*

### **Environmental Monitoring Progress**

The summary of the monitoring activities in this monitoring month is listed below:

- *Noise Monitoring (Day-time): 5 Occasions at 3 designated locations*
- *Noise Monitoring (Holiday): 4 Occasions at 3 designated locations*
- *24-hour TSP Monitoring: 6 Occasions at 2 designated locations*
- *1-hour TSP Monitoring: 14 Occasions at 2 designated locations*
- *Weekly-site inspection: 4 Occasions*

### **Noise Monitoring**

No exceedances of Action and Limit levels for noise monitoring were recorded in the reporting month.

### **Air Monitoring**

No exceedances of Action and Limit levels were recorded for 24-hr TSP and 1-hr TSP monitoring in the reporting month.

### **Site Inspection**

Environmental site inspections conducted in this reporting month are presented as follows:

<u>Concerned Parties</u>	<u>Dates of Audit / Inspection</u>
<i>ET (weekly site inspection)</i>	<i>05, 12, 19, 24</i>
<i>IEC/POC/ET (Monthly site inspection)</i>	<i>28</i>

No observations were raised during this reporting month.

### **Environmental Complaints**

No environmental complaints were received in this monitoring month.

### **Notification of summons and successful prosecutions**

No notification of summons and prosecutions with respect to environmental issues were registered in this reporting month.



### **Future Key Issues**

Base on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Noise and air quality impact due to construction works;
- Maintain wheel washing facilities properly;
- Cleanup the access road regularly;
- Watering, hydro-seeding or covering all stockpiles with tarpaulin to avoid wind and water erosion;
- Diverting the silty runoff to sedimentation trap before discharge;
- Maintain good site practice and waste management to minimize environmental impacts at the site;
- Follow-up improvements on waste management issues.

## 1.0 INTRODUCTION

Penta-Ocean Construction Co., Ltd. (POC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit for Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Contract No.: TP 35/02).

Under the requirements of Section 10 of Environmental Permit to Construct and Operate a Designate Project (EP-108/2001/AEP-108/2001), EM&A programme as set out in the EM&A Manual is required to be implemented. In accordance with the EM&A manual, environmental monitoring of air quality and noise is required for the Project. The EM&A requirement for each parameter are described in details in subsequent sections, including:

- *All monitoring parameters;*
- *Action and Limit levels for all environmental parameters;*
- *Event-Action Plans;*
- *Environmental mitigation measures, as recommended in the project EIA study report;*
- *Environmental requirements in contract documents.*

This monthly EM&A report summarizes the impact monitoring results and audit findings of the EM&A program during the reporting period from 01 to 31 March 2005.

## 2.0 PROJECT INFORMATION

### 2.1 Background

Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Contract No.: TP 35/02) was planned and designed by the Civil Engineering and Development Department (CEDD).

As the main Contractor of the captioned project: contracted by, POC will follow the environmental monitoring recommendation stated at the EM&A Manual that was prepared with reference to the EIA Study for Feasibility Study on the Pak Shek Kok Development Area (PSKDA) Environmental Monitoring and Audit Manual under Agreement No. CE 90/96.

### 2.2 Site Description

Generally, the construction site is located at Pak Shek Kok development area. Surrounding the construction site, there are two air sensitive receivers: HKIB Staff Accommodation and Cheung Shue Tan Village and three noise sensitive receivers: HKIB Staff Accommodation, CUHK Residence No.10 and Cheung Shue Tan Village.

Figure 1and 2 show the noise and air monitoring locations of this project.

### 2.3 Construction Programme

Details of construction programme are shown in Appendix F.

### 2.4 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

### 2.5 Contact Details of Key Personnel

The key personnel contact names and telephone numbers, and construction programme are shown in table 2.1.

Table 2.1 Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel. No.	Fax No.
CEDD	Employer	Mr. H W Lau	2158 5629	---
Hyder	Engineer	Mr. Herman Fong	2911 2233	2827 2891
Hyder	Independent Environmental Checker	Ir. Coleman Ng	2911 2233	2827 2891
POC	Contractor	Mr. Roger Lau	9870 6390	2691 6012
ETL	Contractor's Environmental Team	Mr C L Lau (Environmental Team Leader)	2946 7792	2695 3944

### 3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

The site area of this project is shown in Appendix G.

A summary of the major construction activities undertaken in this monitoring month is shown in Table 3.1. The implementation of corresponding mitigation measures is summarized in Table 3.2.

Table 3.1 Major Construction Activities in this reporting month

Location	Major Construction Activity
Area 4	Watermain works
Zone H and S2	Drainage Works
Road D1	Construction of Road D1 Bridge deck falsework
No.1 & No.2	Construction of pump stations
Area 7B	Construction of sewer rising main connected to PS1
Area 15	Construction of sewer rising main connected to PS2
---	General landscape works
---	Installation of irrigation system

Table 3.2 Implementation of Environmental Mitigation Measures

General construction works	<ul style="list-style-type: none"> <li>• Effective water sprays used on the site at potential dust emission sources such as unpaved area;</li> <li>• The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading;</li> <li>• Minimize of exposed soil areas to reduce the potential for increased siltation and contamination of run-off;</li> <li>• Water, hydro-seed or cover the open stockpile and exposed loose soil areas by using clean tarpaulin sheets;</li> <li>• Provide proper and efficient drainage facilities (e.g. wheel washing facilities) and sedimentation system to ensure that site runoff should be treated before discharged to drains;</li> <li>• Remove the sand/rubbish accumulated in the drain/channel regularly;</li> <li>• Provide good site practice (e.g. selection of quieter plant and working methods and reduction in number of plant operating in critical areas close to NSRs) to limit noise emissions at source;</li> <li>• Remove the construction waste accumulated inside or outside the site regularly;</li> <li>• Keep good waste management.</li> </ul>
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## 4.0 AIR QUALITY MONITORING

### 4.1 Monitoring Requirement

1-hour and 24-hour TSP monitoring were required to be conducted to monitor the air quality, at designated monitoring locations:

- HKIB Staff Accommodation (on ground floor near the entrance facing south-east);
- Cheung Shue Tan Village (near the outer building, temple) for 1-hr TSP monitoring;
- Cheung Shue Tan Village (in front of Man Kee Store) for 24-hr TSP monitoring.

### 4.2 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was performed using a GMWS2310 High Volume Air Sampler (HVS) located at each of the designated monitoring station. One portable dust meter was used to carry out the 1-hour TSP monitoring. Table 4.1 summarizes the equipment used in the air quality monitoring programme. A copy of the calibration certificate for the HVS and portable dust meter are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

Equipment	Model and Make
HVS Sampler	Greasby GMWS2310
Calibrator	G25 A
1-hour TSP Dust Meter	TSI Model 8520 Dust Trak™ Aerosol Monitor

### 4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2 Monitoring parameters, duration, frequencies of impact air quality monitoring

Parameter	Duration	Frequency
24-hr TSP	24 hr (0000-2400)	Once every six days
1-hr TSP	1 hr (0700-1900)	Three times every six days

### 4.4 Monitoring Locations and Schedule

Two designated air quality monitoring locations – Cheung Shue Tan Village and HKIB Staff Accommodation were selected. Table 4.3 tabulates the air quality monitoring locations of this project.

Table 4.3 Air quality monitoring locations

Air quality Monitoring stations	Locations
AM1	HKIB Staff Accommodation (on ground floor near the entrance facing south-east) for 1-hr TSP monitoring
AM3	Cheung Shue Tan Village (near the outer building, temple) for 1-hr TSP monitoring
AM3A	Cheung Shue Tan (in front of Man Kee Store) for 24-hr TSP monitoring

The air quality monitoring schedule for 24-hr and 1-hr TSP monitoring at designated monitoring locations is summarized in table 4.4.

Table 4.4 Monitoring Schedule for the air quality monitoring stations

Air quality monitoring stations	Location	Monitoring Period					
		24-hr TSP				1-hr TSP	
		Start Date	Finish Time	Date	Time	Date	Start
OAM1	HKIB Staff Accommodation					01/03/05	14:26
						03/03/05	13:20
						05/03/05	13:00
						08/03/05	08:50
						10/03/05	08:50
						12/03/05	10:00
						15/03/05	08:32
						17/03/05	13:00
						19/03/05	10:20
						22/03/05	08:30
						23/03/05	15:35
						24/03/05	10:20
						29/03/05	10:35
						31/03/05	09:57
AM3	Cheung Shue Tan Village (near the outer building, temple)					01/03/05	13:00
						03/03/05	08:20
						05/03/05	14:15
						08/03/05	13:00
						10/03/05	14:18
						12/03/05	13:00
						15/03/05	13:02
						17/03/05	14:20
						19/03/05	13:00
						22/03/05	13:00
						23/03/05	16:50
						24/03/05	09:00
						29/03/05	13:00
						31/03/05	13:03
AM1	HKIB Staff Accommodation	02/03/05	09:30	03/03/05	09:30		
		08/03/05	08:54	09/03/05	08:05		
		14/03/05	09:45	15/03/05	09:46		
		19/03/05	10:30	20/03/05	10:27		
		24/03/05	10:35	25/03/05	10:27		
		30/03/05	16:00	31/03/05	15:46		
AM3A	Cheung Shue Tan (in front of Man Kee Store)	02/03/05	09:45	03/03/05	10:07		
		08/03/05	12:55	09/03/05	12:47		
		14/03/05	09:30	15/03/05	09:27		
		19/03/05	13:11	20/03/05	13:04		
		24/03/05	09:15	25/03/05	09:02		
		30/03/05	16:30	31/03/05	16:34		

Remark (\*) : Monitoring cancelled due to no construction works carried out at Site Holiday

## 4.5 Monitoring Methodology

### 4.5.1 24-hour TSP Monitoring

#### Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets are employed for 24-hour TSP. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

#### Installation

The installation of HVS refers to the requirement stated in EM&A Manual.

#### Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

Prior to the commencement of the dust sampling, the flow rate of the high volume

sampler was properly set (between  $0.6\text{m}^3/\text{min}$  and  $1.7\text{m}^3/\text{min}$ .) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.

- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recorded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of  $25^\circ\text{C} \pm 3^\circ\text{C}$  and the relative humidity (RH)  $<50\% \pm 5\%$ .

#### Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

#### **4.5.2 1-hour TSP Monitoring**

##### Measuring Procedures

The measuring procedures of the 1-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Set POWER to ON, check the battery indicator to ensure whether the power supply is enough to conduct the TSP monitoring;
- Calibrate the dust meter by zero check;
- Set the TIME CONSTANT of the dust meter;
- Press SAMPLE to start the TSP monitoring;
- Record the maximum, minimum and average reading directly from the dust meter by press STATISTICS when monitoring complete.

##### Maintenance & Calibration

- 1-hr dust meter should be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of impact air quality monitoring.

#### **4.5.3 Wind Data Monitoring**

Wind data (wind speed and wind direction) were directly extracted from Sha Tin Station (located at Sha Tin Race Course) of Hong Kong Observatory. All wind data during this reporting month are shown in Appendix D.

#### **4.6 Action and Limit Levels**

Action and Limit levels for 24-hr TSP and 1-hr TSP derived as illustrated in Table 4.5.

Table 4.5 Action and Limit Levels for 24-hr TSP and 1-hr TSP

Monitoring Location	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )		1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	
	Action Level	Limit Level	Action Level	Limit Level
AM1	164 *	260 *	325 *	500 *
AM3	---	---	306	500
AM3A	183	260	---	---

\* = Reference to the information contained in the Baseline Monitoring Report submitted under the "Advance Engineering Infrastructure Works for Pak Shek Kok Development -- Southern Access Road and Sewage Pumping Station No.3

#### 4.7 Event-Action Plans

Please refer to Appendix E for details.

#### 4.8 Results

##### 4.8.1 24-hour TSP Monitoring

All monitoring data of 24-hour TSP monitoring is provided in Appendix B2. Graphical presentation of 24-hour TSP monitoring results for the reporting month is shown in Appendix B3.

No exceedances of Action and Limit Level of 24-hour TSP monitoring results were recorded during the reporting month.

##### 4.8.2 1-hour TSP Monitoring

1-hour TSP monitoring was carried out at monitoring stations, AM1 and AM3 in the reporting month. All monitoring data of 1-hour TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hour TSP monitoring results for the reporting month is shown in Appendix B3.

No exceedances of Action and Limit Level of 1-hour TSP monitoring results were recorded during the reporting month.

#### 5.0 Noise Monitoring

##### 5.1 Monitoring Requirements

As the requirement in EM&A Manual, noise monitoring was conducted at designated monitoring locations:

- HKIB Staff Accommodation (on ground floor near the entrance facing south-east);
- Cheung Shue Tan Village (near the outer building, temple);
- CUHK Residence No.10.

##### 5.2 Monitoring Equipment

Integrating Sound Level Meters were used for noise monitoring. They were Type 1 sound level meters capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level ( $L_{\text{eq}}$ ) and percentile sound pressure level ( $L_x$ ). They comply with International Electro technical Commission Publications 651:1979 (Type1) and 804:1985 (Type1), and speed in m/s was used to monitor the wind speed.

Table 5.1 summarized noise monitoring equipment model being used. A copy of the calibration certificates for noise meters and calibrator are attached in Appendix C1.



Table 5.1 Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Rion NL-31 Sound Level Meter
Calibrator	Rion NC-73 Sound Level Calibrator
Portable Wind Speed Indicator	TSI Model 8340-M Air Velocity Meter

### 5.3 Monitoring Parameters, duration and Frequency

Noise monitoring for the A-weighted levels  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  were recorded. The following guide on the regular monitoring frequency for each monitoring station on a per week basis when noise generating activities are underway:

- One set of measurements between 0700-1900 hours on normal weekdays (6 consecutive  $L_{eq(5-min)}$ );
- One set of measurements between 1900-2300 hours (3 consecutive  $L_{eq(5-min)}$ )\*;
- One set of measurements between 2300-0700 hours of next day (3 consecutive  $L_{eq(5-min)}$ )\*;
- One set of measurements between 0700-1900 hours on holidays (3 consecutive  $L_{eq(5-min)}$ )\*.

(\*): Noise monitoring to be conducted only when there is construction work.

Duration, frequencies and parameters of noise measurement are presented in Table 5.2.

Table 5.2 Duration, Frequencies and Parameters of Noise Monitoring

Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	$L_{eq}$ $L_{10}$ $L_{90}$	Once per week
Evening-time: 1900-2300 hrs	15	$L_{eq}$ $L_{10}$ $L_{90}$	Once per week
Night-time: 2300-0700 hrs of next day	15	$L_{eq}$ $L_{10}$ $L_{90}$	Once per week
Holiday: 0700-1900 hrs	15	$L_{eq}$ $L_{10}$ $L_{90}$	Once per week

### 5.4 Monitoring Locations and Period

In accordance with the EM&A Manual, there are three noise monitoring locations: HKIB Staff Accommodation, Cheung Shue Tan Village and CUHK Residence No.10. The location of the monitoring stations are described in Table 5.3 and depicted in Figure 1.

Table 5.3 Noise Monitoring Locations

Noise Monitoring station	Location
NM1	HKIB Staff Accommodation (on ground floor near the entrance facing south-east)
NM2	CUHK Residence No.10
NM3	Cheung Shue Tan Village (near the outer building, a temple)

The noise-monitoring programme of monitoring locations (Day-time, Evening-time, Holiday and Night-time) is summarized in Table 5.4.

Table 5.4 Monitoring Periods for noise monitoring stations

Noise monitoring stations	Monitoring Period						
	Day-time		Evening-time		Holiday		Night-time
NM1	01/03/05	14:28	---	---	06/03/05	14:20	---
	08/03/05	08:52	---	---	13/03/05	09:45	---
	15/03/05	08:35	---	---	20/03/05	14:00	---
	22/03/05	08:32	---	---	27/03/05	14:20	---
	29/03/05	10:37	---	---	---	---	---
NM2	01/03/05	13:20	---	---	06/03/05	14:52	---
	08/03/05	14:15	---	---	13/03/05	10:10	---
	15/03/05	14:20	---	---	20/03/05	14:35	---
	22/03/05	17:00	---	---	27/03/05	15:00	---
	29/03/05	10:47	---	---	---	---	---
NM3	01/03/05	13:05	---	---	06/03/05	15:20	---
	08/03/05	13:02	---	---	13/03/05	10:40	---
	15/03/05	13:09	---	---	20/03/05	15:10	---
	22/03/05	13:02	---	---	27/03/05	15:35	---
	29/03/05	13:02	---	---	---	---	---

Remark (\*): Monitoring cancelled due to no construction works carried out at Site Holiday

## 5.5 Monitoring Procedures and Calibration Details

### Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - Frequency weighting: A
  - Time weighting : Fast
  - Time measurement : 5 mins
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB(A), the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements.
- Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.

### Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The meter is sent to be supplier or HOKLAS laboratory to check and calibrated at yearly intervals.

## 5.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 5.5.

Table 5.5 Action and Limit Levels for noise monitoring

Time Period	Time Period	Action	Limit
Normal hours	0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) *
Holiday	0700-1900 hrs on holidays		70 dB(A) **
Evening-time	1900-2300 hrs on all other days		
Night-time	2300-0700 hrs of next day		55 dB(A) **

\* = Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

\*\* = Area Sensitivity Rating (ASR) C is selected from the "Technical Memorandum on Noise from Construction Work Other Than Percussive Piling".

## 5.7 Event-Action Plans

Please refer to the Appendix E for details.

## 5.8 Results

Day-time and holiday noise monitoring were carried out at monitoring stations, NM1, NM2 and NM3 in this reporting month. No evening-time and night-time noise monitoring were required since no construction works were processed during these periods. All noise levels are provided in Appendix C2. Graphical presentation of the monitoring results for the reporting month are shown in Appendix C3.

No day-time and holiday noise monitoring results at all monitoring stations exceeded the Action Level since no documented complaints on noise issue were received in this reporting month. Besides, no exceedances in Limit Level were recorded according to the results from day-time and holiday noise monitoring.

During the restricted hours, ET found that the PMEs used complied with the requirements stated in the valid CNP and no PMEs other than ones specified in the CNP to be used in the construction site.

## 6.0 WASTEWATER MONITORING

- 6.1 According to the Discharge of Industrial Trade Effluent Licence (Licence No.: 2946), POC is required to carry out wastewater monitoring of suspended solids quarterly at all effluent discharge points within the site. Under the Discharge of Industrial Trade Effluent Licence (Licence No.: 2946), the discharge limit of Suspended Solids content of the effluent at this site should be 30mg/L. It means that the suspended solids of wastewater discharged should be less than 30mg/L or otherwise no wastewater can be discharged under this Licence.
- 6.2 No water quality monitoring were carried out in this reporting month since no construction wastewater were discharged at the discharge point.
- 6.3 Next wastewater monitoring will be carried out when wastewater was found discharged at the discharge point.

## 7.0 ENVIRONMENTAL NON-CONFORMANCE

### 7.1 Summary of air quality, noise and wastewater monitoring

No exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month.

No day-time and holiday noise levels recorded at all monitoring stations exceeded the Action and Limit Level in the reporting month.

No water quality monitoring were carried out in this reporting month since no construction wastewater were discharged at the discharge point.

### 7.2 Summary of Environmental Complaints

No environmental complaints were received in this monitoring month.

### 7.3 Summary of Notification of Summons and Prosecution

There were no notification of summons respect to environmental issues registered in this month. Cumulative log of Notification of Summons and Prosecution is tabulated in Table 7.1.

Table 7.1 Cumulative Log of Notification of Summons and Prosecution

Date	Detail of Notice of Summons or Prosecution	Action Taken	Environmental Outcome
16 Oct 2002	The site main haul road was neither paved with any one of concrete, bituminous materials, hard core or metal plates, nor had the entire road surface maintained wet by the spraying of water or dust suppression chemical.	<ul style="list-style-type: none"> <li>POC paved the site main haul road with concrete and bituminous materials;</li> <li>The road surface was wet by the spraying of water regularly by POC.</li> </ul>	It was observed that the problem of dust emission from the site main haul road has been improved. No further complaint or ticket was received during the reporting month.
11 July 2003	Three stockpiles of dusty material namely aggregate, were neither covered entirely by impervious sheeting, nor placed in an area sheltered on top and three sites, nor sprayed with water or dust suppression chemical so as to maintain entire surface wet.	The stockpiles of aggregates / excavated materials were covered with tarpaulin sheet / sprayed with water in order to avoid the dust emission.	No further complaints were received during the reporting month.

## 8.0 SITE INSPECTION

During the reporting month, weekly site inspections were undertaken at 05, 12, 19 and 24 March 2005 by ET. Monthly joint site inspection at 30 March 2005 was carried out by Engineer's Representative, IEC, POC and ET. A summary of the implementation status of the mitigation measures on site inspections is presented in Appendix H.

### 8.1 Summary of the site inspection findings and Action(s) taken by POC and ET

No site inspection findings were recorded in this reporting month.

### 8.2 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 8.2.

Table 8.1 Summary of environmental licensing and permit status

Description	Permit No.	Valid Period		Section
		From	To	
Environmental Permit	EP-108/2001	05/11/02	---	Whole work site
Construction Noise Permit (General / Prescribed construction works)	GW-RN0039-05	11/02/05	10/07/05	<u>Group A (For Area B2 or E):</u> <ul style="list-style-type: none"> <li>1 Poker, vibratory, hand-held (CNP 170)</li> <li>1 Concrete pump, lorry mounted (CNP 047)</li> <li>1 Concrete lorry mixer (CNP 044)</li> </ul> <u>Group B (For Area B2 or E):</u> <ul style="list-style-type: none"> <li>2 Generator, silenced, 75dB(A) at 7m (CNP 102)</li> <li>1 Excavator, tracked (CNP 081)</li> <li>1 Lorry, with crane</li> </ul> <u>Group C (For Area B2 or E):</u> <ul style="list-style-type: none"> <li>1 Generator, silenced, 75dB(A) at 7m (CNP 102)</li> <li>1 Drill/Grinder, hand-held (electric) (CNP 065)</li> <li>1 Saw, circular, wood (CNP 201)</li> <li>2 Water pump, submersible (electric) (CNP 283)</li> <li>1 Air Compressor (CNP002)</li> <li>1 Bar bender and cutter (electric) (CNP 021)</li> </ul> <u>Group D (For Area B, C or D):</u> <ul style="list-style-type: none"> <li>1 Asphalt paver (CNP 004)</li> <li>1 Roller, vibratory (CNP 186)</li> </ul>

Description	Permit No.	Valid Period		Section
		From	To	
Waste Producer	5213 729 P2800 11	03/10/02	---	Generating waste at the work site
Wastewater Discharge License	No. 2946	18/12/02	18/12/07	Discharge of trade Effluent, surface run-off and all other wastewater arising from the construction site and sedimentation tank

### 8.3 Recommendations on site inspection findings in Site Inspections of this month

Although no site inspection findings were recorded in this reporting month, some recommendations are still raised for general site practice and indicated as below:

- All stockpiles with a volume of greater than 50m<sup>3</sup> should be covered with clean tarpaulin sheets, watering or hydro-seeding to avoid wind and water erosion;
- The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading;
- Placing enough sand bags or other protection should be applied to prevent the silty surface runoff onto the drains system;
- Checking and maintaining all the site machines to prevent dust emission;
- Providing briefing to the concerned site staff on remedial actions, such as handling method of chemicals and chemical waste;
- Maintain good waste management at the site.

## 9.0 WASTE MANAGEMENT

### 9.1 Waste Management Audit

Waste management audit was carried out by the ET on a weekly basis. A summary of the implementation status of the mitigation measures on waste management is presented in Appendix H.

### 9.2 Records of Waste Quantities

All type of wastes arising from the construction work are classified into the following:

- General refuses;
- Chemical waste;
- Construction & demolition (C&D) material.

The quantities of waste for disposal in this month are summarized in Table 9.1.

Table 9.1 Summary of Quantities of Waste for Disposal in this reporting month

Type of Waste	Quantity	Disposal Location
C&D Material (Inert) (m <sup>3</sup> )	0	Nil
C&D material (Non-inert) (m <sup>3</sup> )	0	Nil
General Refuse (m <sup>3</sup> )	45	Disposed at NENT Landfills
Chemical Waste (L)	0	Nil

## 10.0 IMPLEMENTATION STATUS

### 10.1 Implementation Status of Environmental Mitigation Measures

POC has been implementing the required environmental mitigation measures according to Implementation of Mitigation Measures (clause 4.2, 5.2 and 6.2) in Environmental Management Plan for Contract No. TP 35/02 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Revision 2). A summary of the implementation status of the mitigation measures is presented in Appendix H.

### Air Quality

The Contractor was reminded to water, hydro-seed or cover all the stockpiles by using clean tarpaulin sheets. The Contractor was also reminded to cleanup the access road regularly to avoid dust emission.

### Noise

All mitigation measures stated in Appendix I were implemented properly in this reporting month.

### Water Quality

The Contractor was reminded to provide more effort to implement mitigation measures, such as diverting site runoff to suitable treatment processes before discharge, sedimentation system and drainage facilities (e.g. sedimentation trap and U-channels), and remove the sand/rubbish accumulated in the drain / channel regularly.

### Waste Management

POC has been implementing most mitigation measures on waste management.

## **10.2 Implementation Status of Event and Action Plan**

There were no exceedances in air quality and noise monitoring parameters recorded in this monitoring month. No further mitigation measures were required.

## **10.3 Implementation Status of Environmental Complaint Handling**

No complaints had been received during this monitoring month.

## **11.0 CONCLUSION**

Impact monitoring of air quality and noise were carried out at designated locations in accordance with the EM&A Manual in this reporting month.

According to the summary of air and noise monitoring results, no exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month. Besides, no day-time and holiday noise levels were recorded at all monitoring stations exceeded the Action and Limit Level in this reporting month. No evening-time and night-time noise monitoring were required since no construction works were processed during these periods.

During the restricted hours, ET found that the PMEs used complied with the requirements stated in the valid CNP and no PMEs other than ones specified in the CNP to be used in the site.

No water quality monitoring were carried out in this reporting month since no construction wastewater were discharged at the discharge point.

According to the ET weekly site inspections and IEC monthly site audit carried out this month, it indicated that site practices of the POC were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was satisfactory.

## **12.0 FUTURE KEY ISSUES**

### **12.1 Upcoming EM&A Schedule in coming two months**

The Proposed EM&A program in coming two months are presented as following table:

Table 12.1 – Upcoming EM&A Schedule in coming two months

Type of Monitoring	April 2005	May 2005
Noise Monitoring (Day-time)	07, 14, 21, 28	03, 10, 17, 24, 31
Noise Monitoring (Holiday)	03, 10, 17, 24	01, 08, 15, 22, 29
1-hour TSP	02, 06, 07, 09, 12, 14, 16, 19, 21, 23, 26, 28, 30	03, 05, 07, 10, 12, 14, 17, 19, 21, 24, 26, 28, 31
24-hour TSP	04, 09, 15, 21, 27	03, 09, 14, 20, 26
Site Inspection	02, 09, 16, 23, 30	07, 14, 21, 28

## 12.2 Upcoming construction works schedule in the coming month

The major construction works planned to be carried out in next two months and their possible impact is tabulated (Table 12.2) for reference.

Table 12.2 – Construction Plan in the coming month

Month	Works Planned to be Carried Out
Between April and May 2005	<ul style="list-style-type: none"> <li>▪ Drainageworks in Zone H and S2</li> <li>▪ Watermain works in Area 4</li> <li>▪ Dismantling of Road D1 bridge deck falsework</li> <li>▪ Construction of sewer rising main connected to PS1 at area 7B</li> <li>▪ Construction of sewer rising main connected to PS2 at area 15</li> <li>▪ Construction works at pumping station no.1 and no.2</li> <li>▪ General landscape works</li> <li>▪ Installation of irrigation system</li> </ul>



## Appendix A

### Organization Chart and Lines of Communication

Project Site Organization Chart

Rev. K

Date : 03 Aug-04

Project Director  
Ying Yee Cheung

Deputy Project Director  
H Tseuchi

Safety Manager  
Wong Ka Lok

Project Manager  
Jerry Sin

Backup from Head Office  
*On Site*

QA/Environmental  
Manager  
M Hink

Project Manager  
T Hirai

Construction Manager /  
Site Agent  
William Wong

Safety

Project Q.S.  
P H Chiu

Q.S.  
Micky Lai

Ast. Q.S.  
Chong Ku Weng

Apprentice  
Y H Chin

Commercial

Project Q.S.  
P H Chiu

Q.S.  
Micky Lai

Ast. Q.S.  
Chong Ku Weng

Apprentice  
Y H Chin

OPERATION

Sub Agent  
Daniel Ho

Sub Agent  
Colbert Chung

General Foreman  
Cheung Y W

Foreman  
Chan Tin Lai

Foreman  
Ng Kwok Hung

Foreman  
SK Ho

Foreman  
Lau Chi Fai

Foreman  
Ling Wei Hang

Electrician  
R K Chuen

Asst. Surveyor  
Cheung To Ming

Asst. Surveyor  
Fong Tsui Kit

Asst. Surveyor  
Ling Wei Hang

Chairman  
Ip Wai Hong

Chairman  
Chan Te Kong

Chairman  
Ching Choi

Surveyor  
Lau Chi Fai

Surveyor  
Ip Wai Hong

Surveyor  
Chan Te Kong

Surveyor  
Ching Choi

Planning  
Engineer  
William Apries

Senior Design  
Engineer  
Sun Yuen Fong

Chief Surveyor  
Michel Tang

General Foreman  
Laung Wing Sin

Planning  
Engineer  
John Tan

Environmental  
Engineer  
John Tan

Site Administrator  
K W Fok

Secretary  
Punt Yin Wan,  
Dorothy

Annab  
Neiuk Chiu

Administration  
Manager  
T Yamamoto

QA & ENVIRONMENTAL

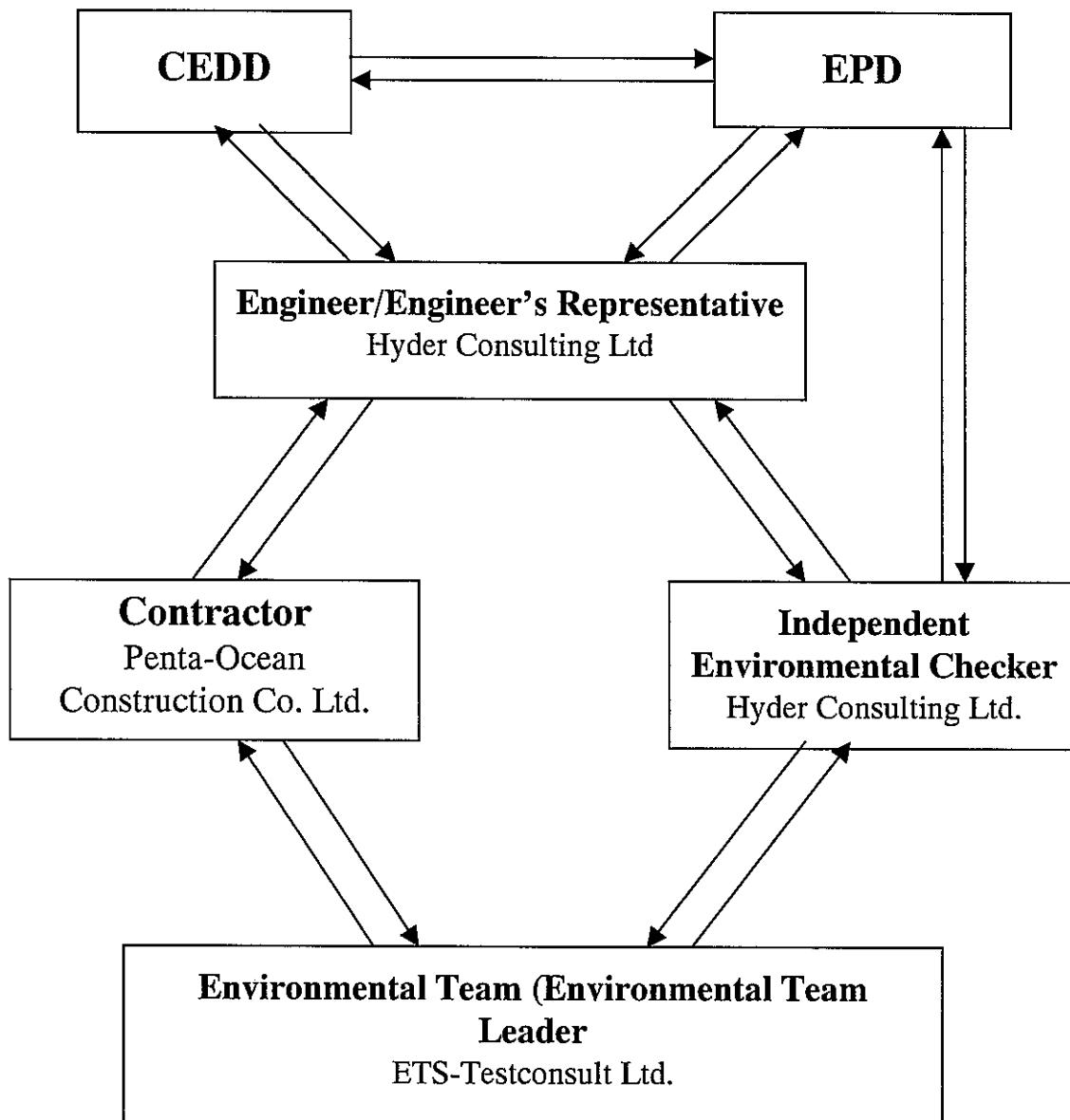
QA/Environmental  
Manager  
M Hink

Administration  
Manager  
T Yamamoto

Administration  
Manager  
T Yamamoto

PLANNING &  
DESIGN

# Lines of Communication

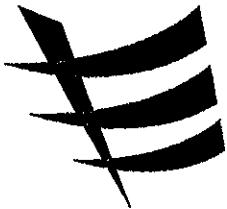




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## **Appendix B1**

### **Calibration Certificates for Air Quality Monitoring Equipments**



# 東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

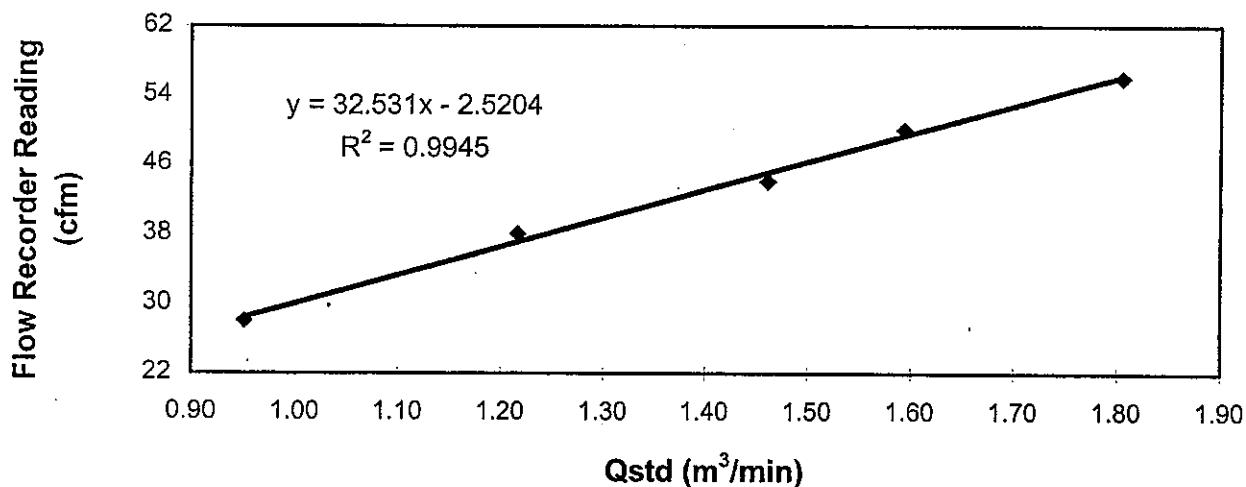
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318      E-mail : etl@ets-testconsult.com  
Fax : 2695 3944      Web site : www.ets-testconsult.com

## TEST REPORT

### Calibration Report of High Volume Air Sampler

Manufacturer	:	Greasby GMW	Date of Calibration	:	17 January 2005
Serial No.	:	1178 (ET / EA / 003 / 01)	Calibration Due Date	:	16 March 2005
Method	:	Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A			
Results	:	Flow recorder reading (cfm)	56	50	44
		Qstd (Actual flow rate, m <sup>3</sup> /min)	1.80	1.59	1.46
		Pressure : 766.56 mm Hg	38	28	28
			Temp. :	287	K

### Sampler 1178 Calibration Curve Site: Pak Shek Kok Monitoring Station AM1 (24hr.) Date of Calibration: 17 January 2005

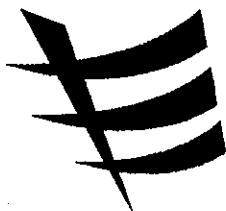


Acceptance Criteria : Correlation coefficient (*r*) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies \* / does not comply \* with the specified requirements and is deemed acceptable \*/ unacceptable \* for use.

Calibrated by : Mak Kei Wai  
Mak Kei Wai  
(Technician)

Approved by : H. T. Chow  
H. T. Chow  
(Asst. Environmental Officer)



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Fax : 2695 3944

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## TEST REPORT

### Calibration Report

of

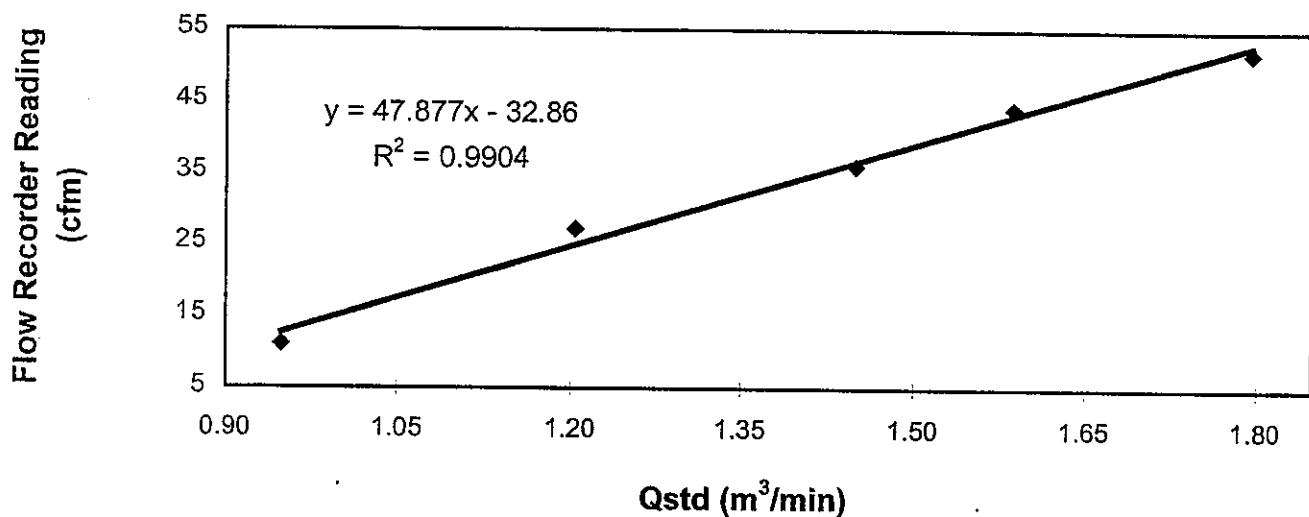
### High Volume Air Sampler

Manufacturer	:	Greasby GMW	Date of Calibration	:	15 March 2005
Serial No.	:	7179 ( ET / EA / 003 / 16 )	Calibration Due Date	:	14 May 2005
Method	:	Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A			
Results	:	Flow recorder reading (cfm)	52	44	36
		Qstd (Actual flow rate, m <sup>3</sup> /min)	1.79	1.59	1.45
		Pressure : 763.56 mm Hg	27	1.20	0.95
			Temp. : 287 K		

### **Sampler 7179 Calibration Curve**

**Site: Pak Shek Kok (AM3A)**

**Date of Calibration: 15 March 2005**



Acceptance Criteria : Correlation coefficient ( $r$ ) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies \* / does not comply \* with the specified requirements and is deemed acceptable \*/ unacceptable \* for use.

Calibrated by :

Felix Tin  
(Technician)

Approved by :   
H. T. Chow  
(Asst. Environmental Officer)



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Tel : 2695 8318      E-mail : etl@ets-testconsult.com  
Fax : 2695 3944      Web site : www.ets-testconsult.com

**TEST REPORT**

**Calibration Report**

of

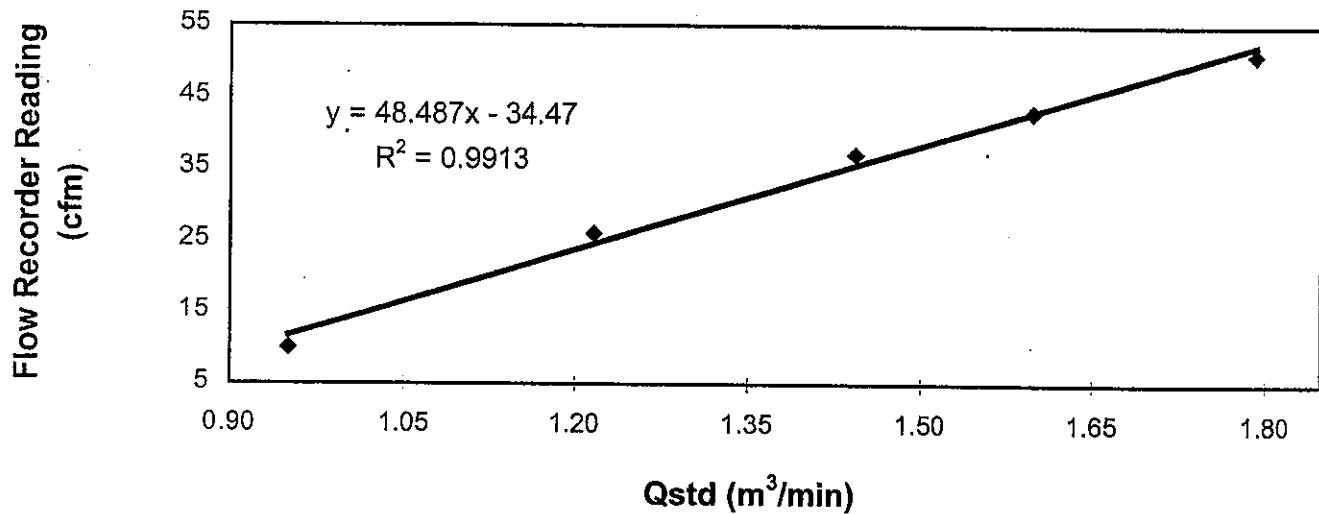
**High Volume Air Sampler**

Manufacturer	:	Greasby GMW	Date of Calibration	:	17 January 2005
Serial No.	:	7179 ( ET / EA / 003 / 16 )	Calibration Due Date	:	16 March 2005
Method	:	Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A			
Results	:	Flow recorder reading (cfm)	51	43	37
		Qstd (Actual flow rate, m <sup>3</sup> /min)	1.79	1.60	1.44
		Pressure : 766.56 mm Hg	26	1.22	0.95
			Temp. : 287 K		

**Sampler 7179 Calibration Curve**

**Site: Pak Shek Kok (AM3A)**

**Date of Calibration: 17 January 2005**



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies \* / does not comply \* with the specified requirements and is deemed acceptable \* / unacceptable \* for use.

Calibrated by : Mak Kei Wai  
Mak Kei Wai  
(Technician)

Approved by : H. T. Chow  
H. T. Chow  
(Asst. Environmental Officer)



東業德勤測試顧問有限公司  
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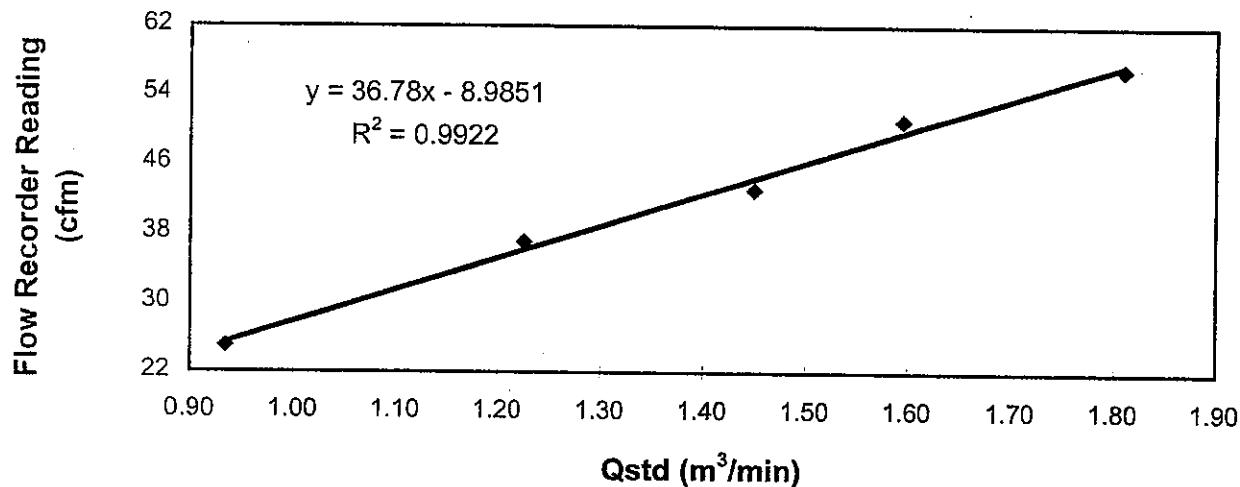
8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318      E-mail : etl@ets-testconsult.com  
Fax : 2695 3944      Web site : www.ets-testconsult.com

**TEST REPORT**

**Calibration Report  
of  
High Volume Air Sampler**

Manufacturer	: Greasby GMW	Date of Calibration	: 15 March 2005																								
Serial No.	: 1178 (ET / EA / 003 / 01)	Calibration Due Date	: 14 May 2005																								
Method	: Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A																										
Results	<table border="1"><tr><td>Flow recorder reading (cfm)</td><td>57</td><td>51</td><td>43</td><td>37</td><td>25</td></tr><tr><td>Qstd (Actual flow rate, m<sup>3</sup>/min)</td><td>1.81</td><td>1.59</td><td>1.45</td><td>1.23</td><td>0.93</td></tr><tr><td>Pressure :</td><td>763.56 mm Hg</td><td>Temp. :</td><td>287 K</td><td></td><td></td><td></td><td></td></tr></table>							Flow recorder reading (cfm)	57	51	43	37	25	Qstd (Actual flow rate, m <sup>3</sup> /min)	1.81	1.59	1.45	1.23	0.93	Pressure :	763.56 mm Hg	Temp. :	287 K				
Flow recorder reading (cfm)	57	51	43	37	25																						
Qstd (Actual flow rate, m <sup>3</sup> /min)	1.81	1.59	1.45	1.23	0.93																						
Pressure :	763.56 mm Hg	Temp. :	287 K																								

**Sampler 1178 Calibration Curve**  
**Site: Pak Shek Kok Monitoring Station AM1 (24hr.)**  
**Date of Calibration: 15 March 2005**



Acceptance Criteria : Correlation coefficient (*r*) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies \* / does not comply \* with the specified requirements and is deemed acceptable \*/ unacceptable \* for use.

Calibrated by :   
Felix Tin  
(Technician)

Approved by :   
H. T. Chow  
(Asst. Environmental Officer)



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## **Appendix B2**

### **Air Quality Monitoring Results**

## Summary of 24-hr TSP Monitoring Results

Monitoring Station : AM1  
Location : HKIB Staff Accommodation

Start	Finish	Elapse Time	Sampling Time (hrs)	Flow Rate (m³/min.)	Average (m³/min.)	Filter Weight (g)	Conc. (µg/m³)	Weather Condition
Date	Time	Date	Time	Initial	Final	Initial	Final	
02/03/05	09:30	03/03/05	09:30	7855.09	7879.09	24.00	1.09	Cloudy
08/03/05	08:54	09/03/05	08:05	7903.06	7926.24	23.18	1.09	Sunny
14/03/05	09:45	15/03/05	09:46	7950.31	7974.32	24.01	1.09	Cloudy
19/03/05	10:30	20/03/05	10:27	7998.12	8022.07	23.95	1.12	Cloudy
24/03/05	10:35	25/03/05	10:27	8046.14	8070.01	23.87	1.12	Cloudy
30/03/05	16:00	31/03/05	15:46	8093.93	8117.70	23.77	1.34	Cloudy

Monitoring Station : AM3A  
Location : Cheung Shue Tan (in front of Man Kee Store)

Start	Finish	Elapse Time	Sampling Time (hrs)	Flow Rate (m³/min.)	Average (m³/min.)	Filter Weight (g)	Conc. (µg/m³)	Weather Condition
Date	Time	Date	Time	Initial	Final	Initial	Final	
02/03/05	09:45	03/03/05	10:07	13186.08	13210.45	24.37	1.33	Cloudy
08/03/05	12:55	09/03/05	12:47	13234.87	13258.73	23.86	1.33	Sunny
14/03/05	09:30	15/03/05	09:27	13282.62	13306.57	23.95	1.33	Cloudy
19/03/05	13:11	20/03/05	13:04	13330.43	13354.32	23.89	1.41	Cloudy
24/03/05	09:15	25/03/05	09:02	13378.16	13401.95	23.79	1.41	Cloudy
30/03/05	16:30	31/03/05	16:34	13425.83	13449.89	24.06	1.47	Cloudy

## Summary of 1-hr TSP Monitoring Results

Monitoring Station : AM1  
Location : HKIB Staff Accommodation

Date	Monitoring Period			1-hr TSP ( $\mu\text{g}/\text{m}^3$ )			Weather
	Start	Finish	Minimum	Maximum	Average		
01/03/05	14:26	15:26	93	347	99		Cloudy
03/03/05	13:20	14:20	85	350	123		Cloudy
05/03/05	13:00	14:00	95	368	138		Cloudy
08/03/05	08:50	09:50	94	380	167		Sunny
10/03/05	08:50	09:50	90	396	148		Cloudy
12/03/05	10:00	11:00	89	340	138		Cloudy
15/03/05	08:32	09:32	82	352	147		Cloudy
17/03/05	13:00	14:00	103	379	151		Cloudy
19/03/05	10:20	11:20	96	391	121		Cloudy
22/03/05	08:30	09:30	107	362	156		Cloudy
23/03/05	15:35	16:35	63	492	161		Cloudy
24/03/05	10:20	11:20	90	397	113		Cloudy
29/03/05	10:35	11:35	110	389	163		Cloudy
31/03/05	09:57	10:57	70	361	95		Cloudy

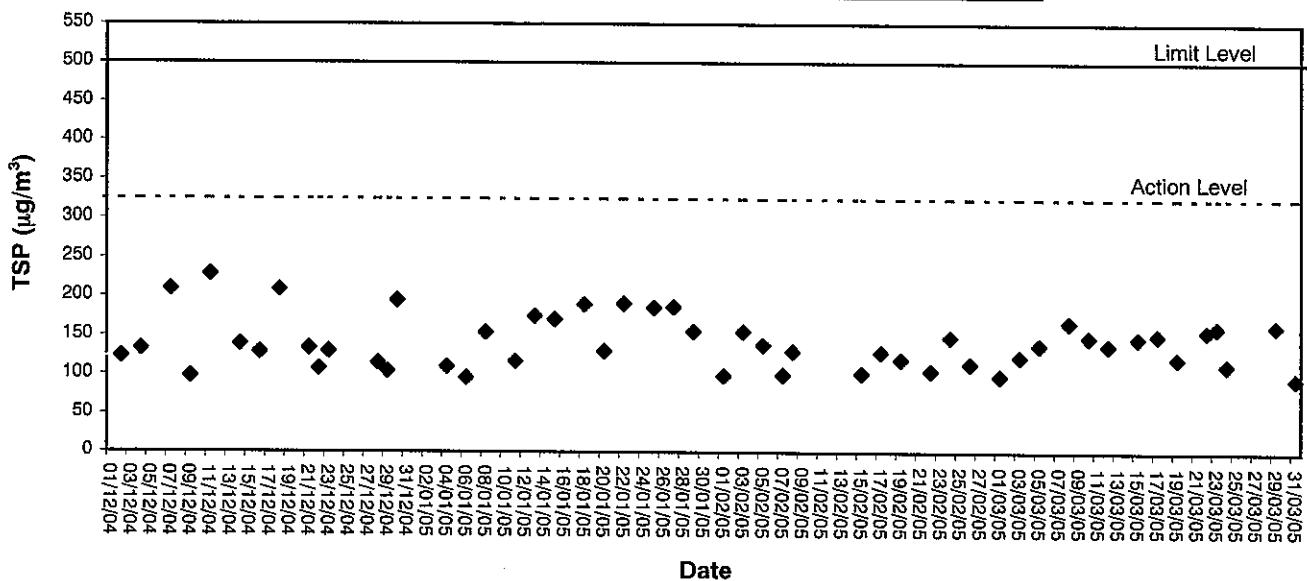
Monitoring Station : AM3  
Location : Cheung Shue Tan Village (near the outer building, a temple)

Date	Monitoring Period			1-hr TSP ( $\mu\text{g}/\text{m}^3$ )			Weather
	Start	Finish	Minimum	Maximum	Average		
01/03/05	13:00	14:00	78	306	90		Cloudy
03/03/05	08:20	09:20	79	306	91		Cloudy
05/03/05	14:15	15:15	82	330	110		Cloudy
08/03/05	13:00	14:00	82	339	149		Sunny
10/03/05	14:18	15:18	68	311	107		Cloudy
12/03/05	13:00	14:00	72	296	119		Cloudy
15/03/05	13:02	14:02	62	296	99		Cloudy
17/03/05	14:20	15:20	95	335	128		Cloudy
19/03/05	13:00	14:00	87	331	92		Cloudy
22/03/05	13:00	14:00	87	318	126		Cloudy
23/03/05	16:50	17:50	57	335	121		Cloudy
24/03/05	09:00	10:00	76	311	88		Cloudy
29/03/05	13:00	14:00	97	352	128		Cloudy
31/03/05	13:03	14:03	61	298	83		Cloudy

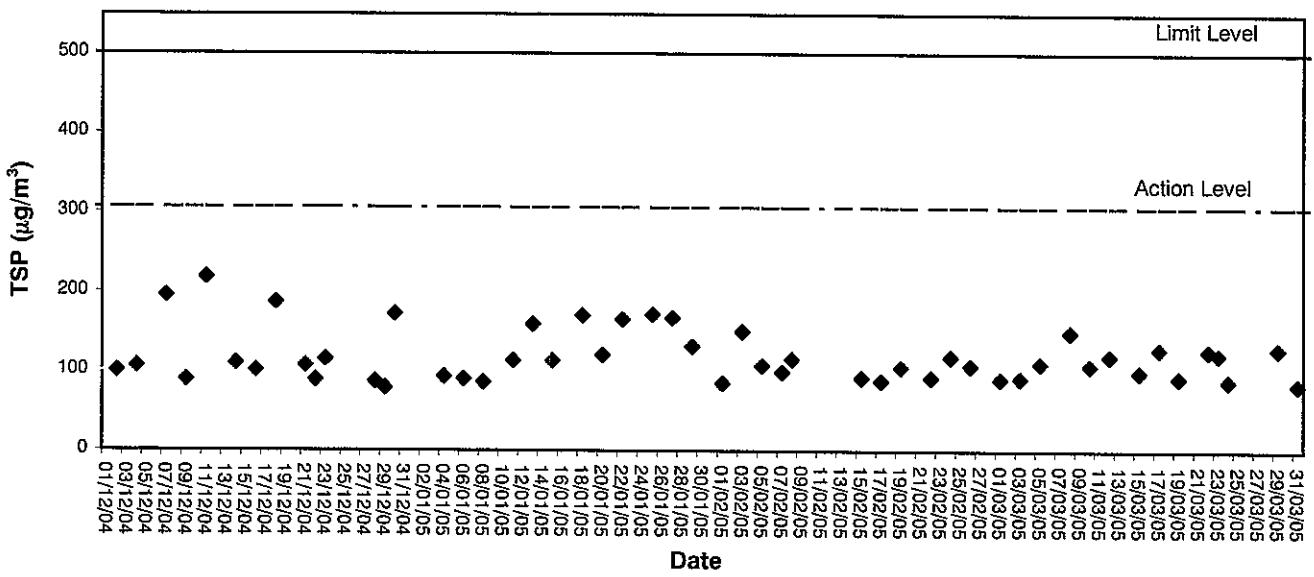
### Appendix B3

#### Graphical Plots of Air Quality Monitoring Data

**1-hour TSP level at AM1, HKIB Staff Accommodation**

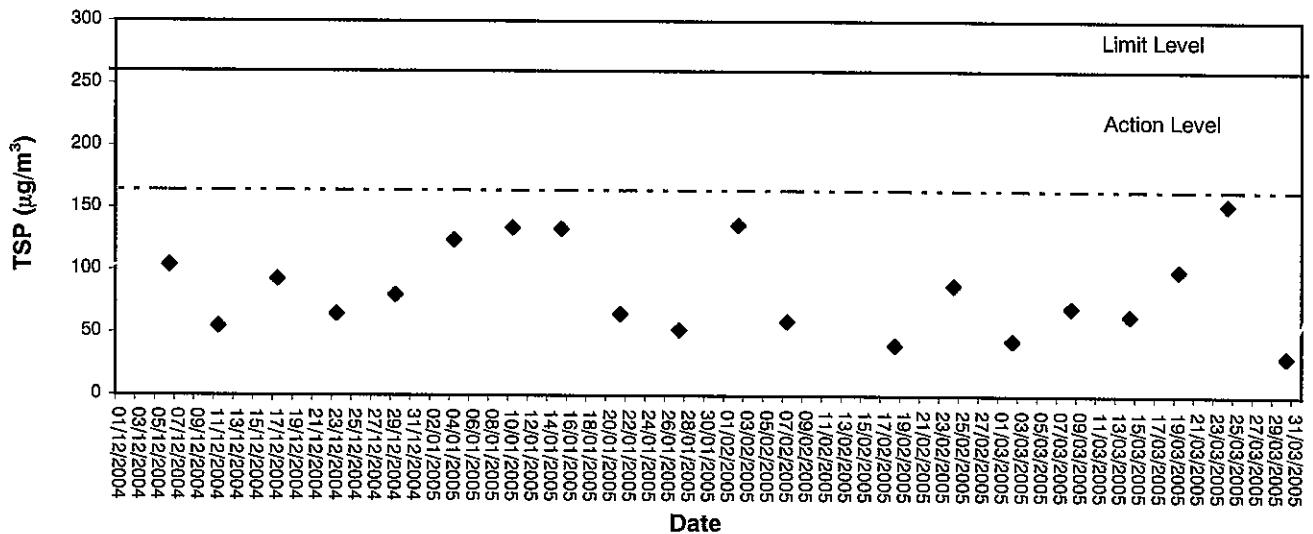


**1-hour TSP level at AM3, Cheung Shue Tan Village  
(near the outer building, a temple)**

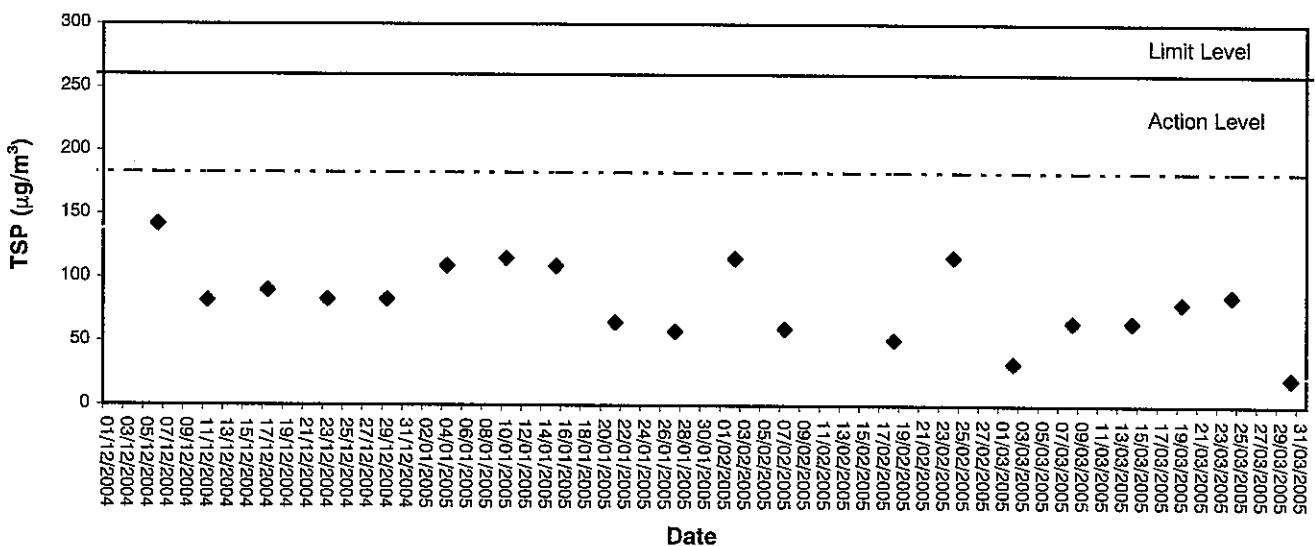




**24-hour TSP level at AM1 (HKIB Staff Accommodation)**



**24-hour TSP level at AM3A  
(Cheung Shue Tan in front of Man Kee Store)**





東業德勤測試有限公司  
ETS-TESTCONSULT LIMITED

## Appendix C1

### **Calibration Certificates for Noise Monitoring Equipments**



# Calibration Certificate

Certificate No. 41649

Page 1 of 2 Pages

**Customer :** ETS-Testconsult Limited

**Address :** 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

**Order No. :** Q40536

**Date of receipt :** 6-Apr-04

## Item Tested

**Description :** Sound Level Calibrator (ET/0527/002)

**Manufacturer :** Rion

**Model :** NC-73

**Serial No. :** 10644871

## Test Conditions

**Date of Test :** 16-Apr-04

**Supply Voltage :** -

**Ambient Temperature :** (22.5 ± 2.5)°C

**Relative Humidity :** (50 ± 20) %

## Test Specifications

Calibration check according to customer's requirement.

Calibration procedure : F21, Z02.

## Test Results

All results were within the manufacturer's specification.

The results are shown in the attached page(s).

Test equipment used:

<u>Equipment No.</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S014	30961	1-Jun-04	PRC-NIM
S024	Z02050078	29-May-04	PRC-NIM
S041	35075	2-Dec-04	PRC-NIM

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to national standards/International System of Units (SI).  
The test results apply to the above Unit-Under-Test only

Calibrated by : Liam

Approved by : Alan Chu  
Alan Chu - Manager

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8601 Fax: 2425 8646

Date: 16-Apr-04



# Calibration Certificate

Certificate No. 41649

Page 2 of 2 Pages

## Results :

### 1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	- 0.8 dB	± 1 dB

Uncertainty : ± 0.2 dB

### 2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.986 kHz	± 2 %

Uncertainty : ± 0.1 %

### 3. Level Stability : 0.0 dB

Uncertainty : ± 0.01 dB

### 4. Total Harmonic Distortion : < 0.2 %

Mfr's Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 995 hPa

4. The above measured values are the mean of 3 measurement.

----- END -----



Hong Kong Calibration Ltd.

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# Calibration Certificate

Certificate No. 41648

Page 1 of 3 Pages

Customer : ETS-Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

Order No. : Q40536

Date of receipt : 6-Apr-04

## Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-31

Serial No. : 00531142

## Test Conditions

Date of Test : 16-Apr-04

Supply Voltage : --

Ambient Temperature : (22.5 ± 2.5)°C

Relative Humidity : (50 ± 20) %

## Test Specifications

Calibration check according to customer's requirement.

Calibration procedure : Z01.

## Test Results

All results were within the manufacturer's, IEC 651 Type 1, IEC 804 Type 1 specification.

The results are shown in the attached page(s).

Test equipment used:

Equipment No.	Cert. No.	Due Date	Traceable to
S017	S30857	8-Apr-05	PRC-NIM
S024	Z02050078	29-May-04	PRC-NIM

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to national standards/International System of Units (SI).  
The test results apply to the above Unit-Under-Test only

Calibrated by : Rian

Approved by : Alan

Alan Chu - Manager

This Certificate is issued by:  
Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Te Chuen Ping Street, Kwai Chung, NT, Hong Kong.  
Tel: 2425 8801 Fax: 2425 8546

Date: 16-Apr-04



# Calibration Certificate

Certificate No. 41648

Page 2 of 3 Pages

## Results :

### 1. SPL Accuracy

UUT Setting			UUT Reading (dB)	Correction (dB)
Level Range (dB)	Weight	Response		
20 - 100	L <sub>A</sub>	Fast	94.0	+ 0.1
		Slow		+ 0.1
	L <sub>C</sub>	Fast		+ 0.1
		L <sub>p</sub>		0.0
30 - 120	L <sub>A</sub>	Fast	94.0	+ 0.1
		Slow		+ 0.1
	L <sub>C</sub>	Fast		+ 0.1
		L <sub>p</sub>		0.0
30 - 120	L <sub>A</sub>	Fast	114.0	0.0
		Slow		0.0
	L <sub>C</sub>	Fast		0.0
		L <sub>p</sub>		0.0

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.2$  dB

### 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  dB



Hong Kong Calibration Ltd.

香港校正有限公司

# Calibration Certificate

Certificate No. 41648

Page 3 of 3 Pages

## 3. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.5	- 39.4 dB, $\pm 1.5$ dB
63 Hz	- 26.3	- 26.2 dB, $\pm 1.5$ dB
125 Hz	- 16.2	- 16.1 dB, $\pm 1$ dB
250 Hz	- 8.7	- 8.6 dB, $\pm 1$ dB
500 Hz	- 3.3	- 3.2 dB, $\pm 1$ dB
1 kHz	0.0 (Ref.)	0 dB, $\pm 1$ dB
2 kHz	+ 1.3	+ 1.2 dB, $\pm 1$ dB
5 kHz	+ 1.1	+ 1.0 dB, $\pm 1$ dB
8 kHz	- 1.1	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	- 6.7	- 6.6 dB, + 3 dB ~ $\infty$

Uncertainty :  $\pm 0.1$  dB

## 4. Time Averaging

Applied Burst duty Factor	UUT Reading (dB)	Correction (dB)	IEC 804 Type 1 Spec.
continuous	36.9	--	--
1/10	36.7	+ 0.2	$\pm 0.5$ dB
1/10 <sup>2</sup>	36.7	+ 0.2	
1/10 <sup>3</sup>	36.7	+ 0.2	$\pm 1.0$ dB
1/10 <sup>4</sup>	36.7	+ 0.2	

Uncertainty :  $\pm 0.1$  dB

Remark : 1. UUT : Unit-Under-Test

2. True Value = UUT Reading + Correction.

3. The uncertainty claimed is for a confidence probability of not less than 95%.

4. Atmospheric Pressure : 995 hPa.

----- END -----

## Appendix C2

### Noise Monitoring Results

## Day-time Noise Monitoring

### Monitoring Location: NM1 (HKIB Staff Accommodation)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L <sub>eq</sub> (30)	L <sub>10</sub>	L <sub>90</sub>		
01/03/05	14:28	58.7	60.4	56.2	1.0	Cloudy
08/03/05	08:52	57.9	59.9	54.4	0.9	Sunny
15/03/05	08:35	61.8	63.7	57.7	1.3	Cloudy
22/03/05	08:32	58.3	60.0	54.4	0.8	Cloudy
29/03/05	10:37	58.0	60.0	54.4	0.6	Cloudy

### Monitoring Location: NM2 (CUHK Residence No.10)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L <sub>eq</sub> (30)	L <sub>10</sub>	L <sub>90</sub>		
01/03/05	13:20	56.0	57.7	52.2	0.7	Cloudy
08/03/05	14:15	54.4	56.7	51.1	0.6	Sunny
15/03/05	14:20	60.1	61.6	56.2	1.2	Cloudy
22/03/05	17:00	54.1	56.4	52.4	0.6	Cloudy
29/03/05	10:47	54.6	56.9	52.3	0.4	Cloudy

### Monitoring Location: NM3 (Cheung Shue Tan Village)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L <sub>eq</sub> (30)	L <sub>10</sub>	L <sub>90</sub>		
01/03/05	13:05	55.0	57.1	50.5	0.6	Cloudy
08/03/05	13:02	53.1	55.3	49.9	0.6	Sunny
15/03/05	13:09	56.7	58.0	54.0	1.0	Cloudy
22/03/05	13:02	53.0	55.3	50.0	0.5	Cloudy
29/03/05	13:02	52.9	55.6	49.2	0.6	Cloudy

## Holiday Noise Monitoring

**Monitoring Location: NM1 (HKIB Staff Accommodation)**

Date	Start Sampling Time	Noise Level dB (A)										Wind Speed (m/s)	Weather Condition
		L <sub>eq(5)</sub>			L10			L90					
06/03/05	14:20	60.2	60.8	60.5	62.8	63.4	63.1	56.9	57.7	57.4	2.1	Sunny	
13/03/05	09:45	57.9	58.0	57.7	59.2	59.8	58.9	54.1	54.3	53.8	0.8	Cloudy	
20/03/05	14:00	59.2	58.6	59.3	61.7	61.3	62.0	54.1	53.6	54.4	1.3	Sunny	
27/03/05	14:20	60.7	61.6	59.3	62.1	63.0	61.9	56.1	55.7	56.0	1.4	Cloudy	

**Monitoring Location: NM2 (CUHK Residence No.10)**

Date	Start Sampling Time	Noise Level dB (A)										Wind Speed (m/s)	Weather Condition
		L <sub>eq(5)</sub>			L10			L90					
06/03/05	14:52	52.1	52.5	52.8	56.4	56.6	56.9	50.9	51.3	51.6	1.6	Sunny	
13/03/05	10:10	54.9	55.0	53.9	56.2	56.6	55.6	50.7	50.9	49.8	0.8	Cloudy	
20/03/05	14:35	56.9	57.1	58.0	58.6	59.1	59.9	53.4	53.6	53.1	1.2	Sunny	
27/03/05	15:00	59.2	58.1	57.6	61.1	60.9	60.3	54.2	55.2	54.9	1.2	Cloudy	

**Monitoring Location: NM3 (Cheung Shue Tan Village)**

Date	Start Sampling Time	Noise Level dB (A)										Wind Speed (m/s)	Weather Condition
		L <sub>eq(5)</sub>			L10			L90					
06/03/05	15:20	50.3	49.4	49.7	52.2	51.6	52.0	47.6	46.8	47.4	0.8	Sunny	
13/03/05	10:40	52.7	53.0	52.6	54.3	55.1	54.1	49.6	49.8	49.3	0.9	Cloudy	
20/03/05	15:10	54.3	53.6	54.1	56.0	55.2	55.9	49.3	50.6	51.0	1.0	Sunny	
27/03/05	15:35	53.7	55.1	54.2	55.6	58.0	57.0	49.1	50.2	50.7	1.0	Cloudy	

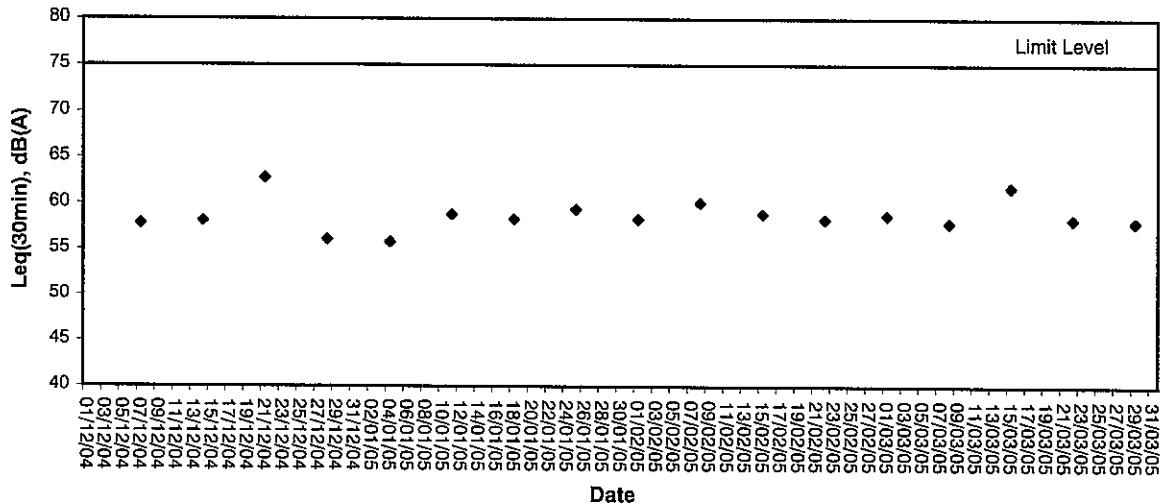


## **Appendix C3**

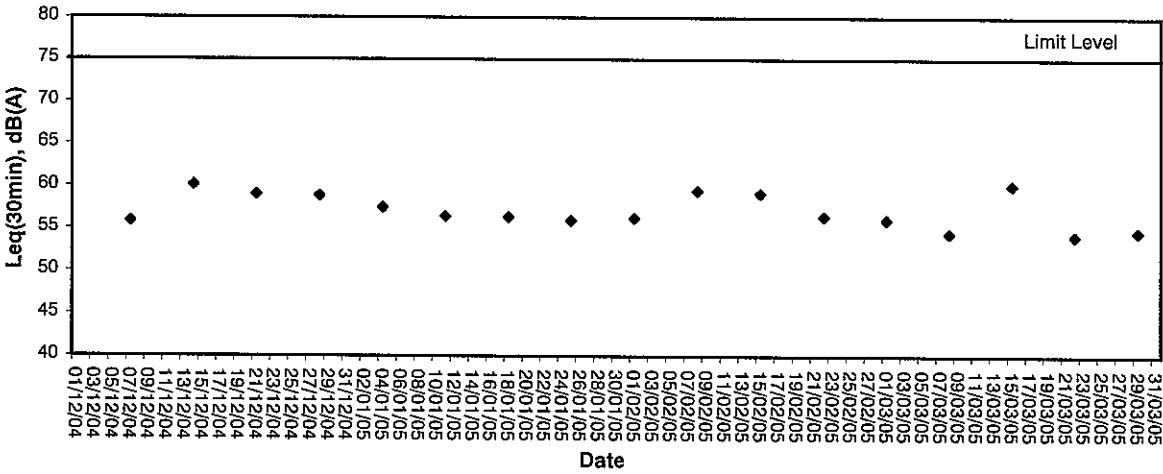
### **Graphical Plots of Noise Monitoring Data**

## Noise Monitoring (Day-time)

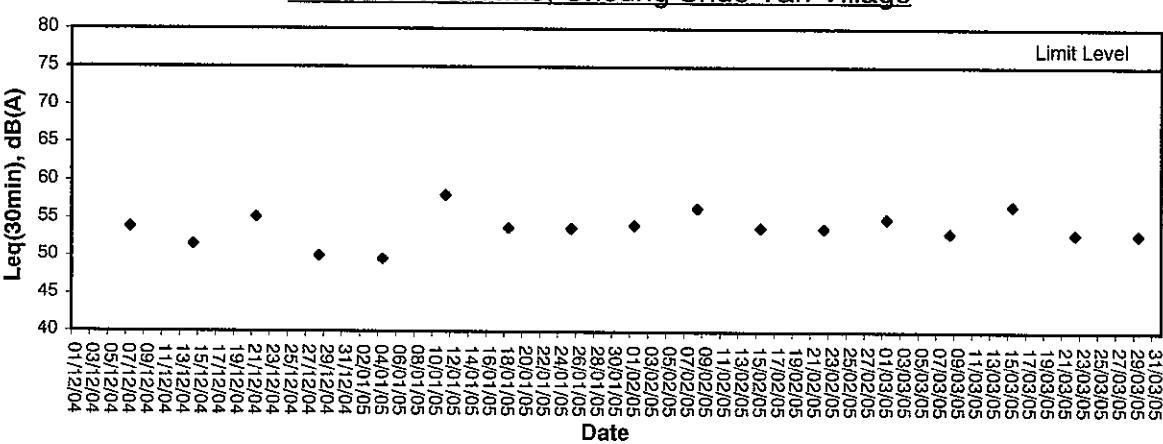
Noise level at NM1, HKIB Staff Accommodation



Noise level at NM2, CUHK Residence No.10

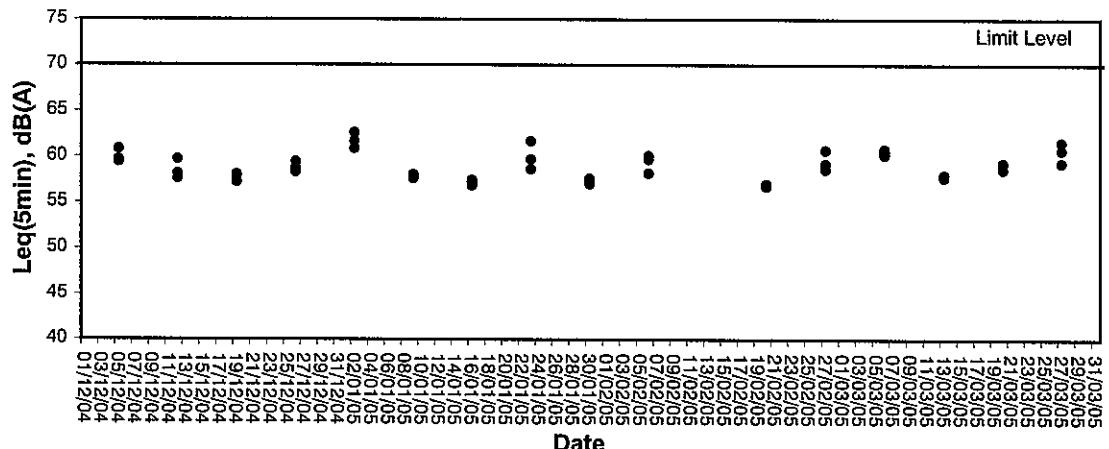


Noise level at NM3, Cheung Shue Tan Village

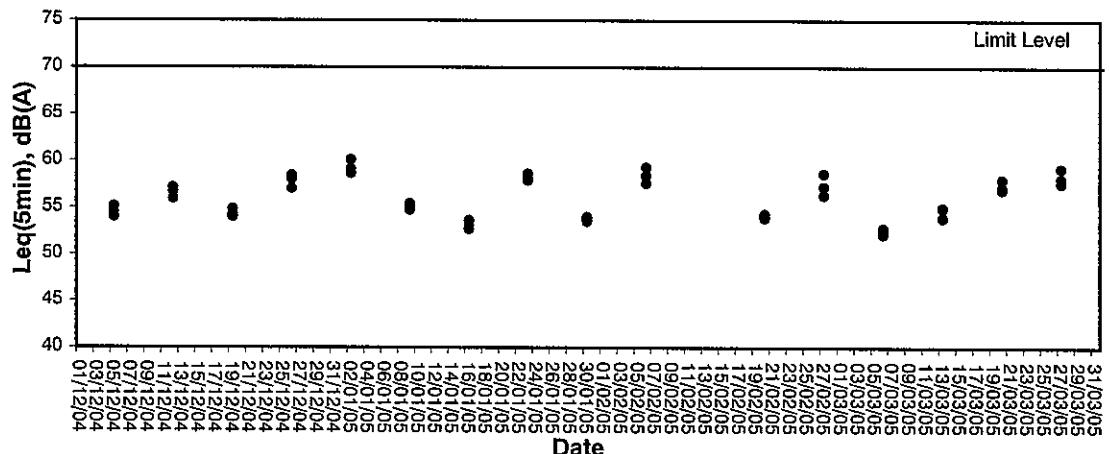


## Noise Monitoring (Holiday)

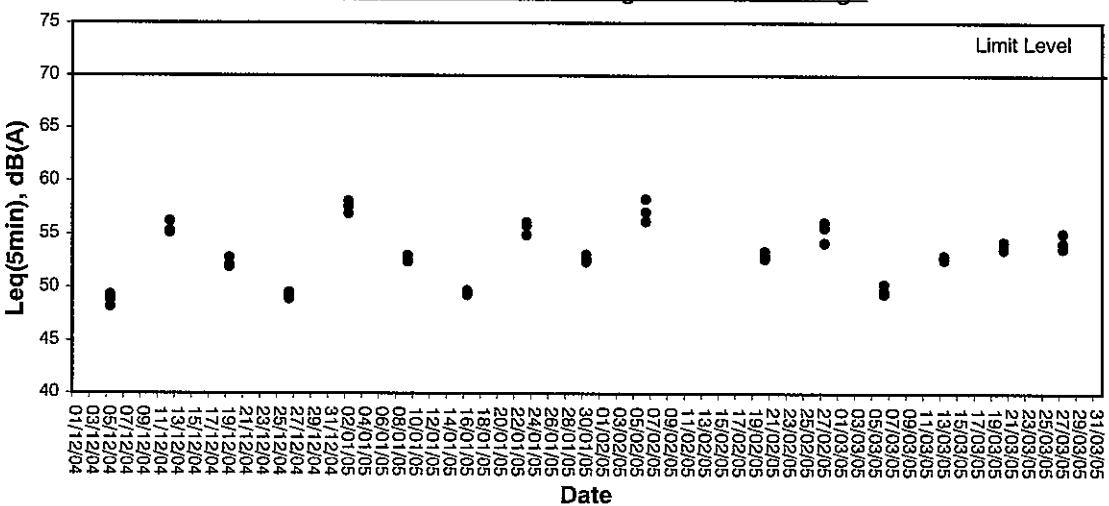
Noise level at NM1, HKIB Staff Accommodation



Noise level at NM2, CUHK Residence No.10



Noise level at NM3, Cheung Shue Tan Village



## **Appendix D**

### **Weather Condition**



## Weather Condition

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp. (°C)	Relative Humidity (%)	Wind Direction	Wind Speed (m/s)
01/03/05	6.7	14.4	12.5	85	E	<5
02/03/05	12.7	15.0	12.3	91	N	<5
03/03/05	3.7	14.4	10.6	77	N	<5
04/03/05	1.1	14.2	10.6	63	N	<5
05/03/05	-	17.2	11.0	52	N	<5
06/03/05	-	16.6	12.0	58	E	<5
07/03/05	-	19.8	13.3	70	E	<5
08/03/05	-	21.4	15.7	78	E	<5
09/03/05	-	22.0	17.1	84	NE	<5
10/03/05	-	22.9	18.7	87	NE	<5
11/03/05	0.5	21.8	20.5	95	N	<5
12/03/05	5.5	22.0	9.8	93	N	<5
13/03/05	Trace	11.5	9.5	74	N	<5
14/03/05	Trace	13.5	11.2	72	NE	<5
15/03/05	0.1	16.6	12.6	88	NE	<5
16/03/05	Trace	20.4	16.5	90	NE	<5
17/03/05	Trace	25.7	22.0	85	N	<5
18/03/05	-	22.0	19.1	79	E	<5
19/03/05	-	19.1	17.0	71	E	<5
20/03/05	-	21.8	18.8	70	NE	<5
21/03/05	0.9	19.9	18.9	83	NE	<5
22/03/05	4.7	22.0	20.5	92	N	<5
23/03/05	8.0	24.8	20.9	77	N	<5
24/03/05	Trace	21.1	18.3	66	N	<5
25/03/05	-	18.3	17.2	70	E	<5
26/03/05	0.9	18.6	17.4	83	E	<5
27/03/05	3.4	22.3	19.5	90	NE	<5
28/03/05	Trace	26.1	22.8	91	NE	<5
29/03/05	Trace	25.7	22.5	89	NE	<5
30/03/05	3.6	20.0	17.3	93	E	<5
31/03/05	0.8	18.1	17.4	90	E	<5

Remark: Data of wind speed and wind direction were extracted from Hong Kong Observatory (Shatin Station).

## **Appendix E**

### **Event-Action Plans**

## Event / Action Plan for Air Quality

EVENT	ET Leader	IC(E)	ACTION	
			ER	CNOTRATOR
Action Level				
1. Exceedance of one sample	1. Identify source 2. Inform IC(E) and ER 3. Repeat measurement to confirm finding	1. Check monitoring data submitted by ET 2. Check Contractor's working method.	1. Notify Contractor	1. Rectify any unacceptable practice 2. Amend working methods if possible
2. Exceedance for two more consecutive samples	1. Identify source 2. Inform IC(E) and ER 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily samples 5. Discuss with IC(E) and Contractor on remedial actions required 6. If exceedance continuous, arrange meeting with IC(E) and ER 7. If exceedance stops, cease additional monitoring	1. Checking monitoring data submitted by ET 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervisor implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Submit proposals for remedial action to IC(E) within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if possible
Limit Level				
1. Exceedance of one sample	1. Identify source 2. Inform ER and EPD 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results	1. Check monitoring data submitted by ET 2. Check Contractor's working method. 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposal remedial measures 5. Supervisor implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Take immediate action to avoid further exceedance 2. Submit proposal for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	1. Notify IC(E), ER, Contractor and EPD 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER to discuss the remedial action to taken 8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, ET, and Contractor on potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IC(E), agreed with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures properly implemented	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if possible still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance if abated.
				1. If exceedance continues, consider what portion of this work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.

## Event / Action Plan for Construction Noise

EVENT	ET Leader	IC(E)	ACTION
		ER	CNOTRACTOR
Action Level	1. Notify IC(E) and Contractor 2. Carry out investigation 3. Report the results of investigation to the IC(E) and Contractor 4. Discuss with the Contractor and formulate remedial measures 5. Increase monitoring frequency to check mitigation effectiveness	1. Review the analyzed results submitted by the ET 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented
Limit Level	1. Notify IC(E), ER, and Contractor 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 6. Inform IC(E), ER and EPD the causes & action taken for the exceedances 7. Assess effectiveness of Contractor's remedial action and keep IC(E), EPD and ER informed to the results 8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## **Appendix F**

### **Construction Programme**



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2005 IN REVIEW

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Act

ID	Description	Dur	Start	Finish	Float Complete	jon	FS 314 Sl.	
							WWD048 Part & II Submission	WWD048 Part & II Submission
BS-135050	IFS 314 Submission	0	20SEP04 A	20SEP04 A	100	■ Survey of Civil As-built	■ Survey of Civil As-built	■ Survey of Civil As-built
BS-135110	WWD048 Part I & II Submission	0	20SEP04 A	20SEP04 A	100	■ Expected availability of power supply	■ CLP's Final Inspection for Transformer Room	■ WWD048 Part I & II Submission
BS-136030	Survey of Civil As-built	7	28NOV04 A	30NOV04 A	100	■ CLP's Final Inspection for Transformer Room	■ WWD048 Part I & II Submission	■ WWD048 Part I & II Submission
BS-135100	Expected availability of power supply	0	02DEC04	04APR05	116d	■ Expected availability of power supply	■ Expected availability of Fresh&Salt water supply	■ Expected availability of Fresh&Salt water supply
BS-134130	CLP's Final Inspection of Transformer Room	0	30DEC04	11FEB05	36d	■ CLP's Final Inspection of Transformer Room	■ VAC submission	■ VAC submission
BS-135080	Expected availability of Fresh&Salt water supply	0	31DEC04	28APR05	111d	■ Expected availability of Fresh&Salt water supply	■ CLP Energization	■ CLP Energization
BS-135170	VAC submission	0	26JAN05	26JAN05	0	■ VAC submission	■ CLP's Inspection for Metering & Power On	■ CLP's Final Inspection for Metering & Power On
BS-136020	CLP Energization	0	19FEB05	04APR05	36d	■ CLP Energization	■ WWD048 Part IV Submission	■ WWD048 Part IV Submission
BS-135190	CLP's Inspection for Metering & Power On	0	10MARS	12MARS	31d	■ CLP's Final Inspection for Metering & Power On	■ Expected DSD Inspection for Other Works	■ Expected DSD Inspection for Other Works
BS-135200	CLP's Final Inspection for Metering & Power On	0	12MARS	19APR05	31d	■ CLP's Final Inspection for Metering & Power On	■ Expected DSD Inspection for Other Works	■ Expected DSD Inspection for Other Works
BS-135120	WWD048 Part IV Submission	0	14MARS	04APR05	17d	■ WWD048 Part IV Submission	■ Expected WSD Inspection	■ Expected WSD Inspection
BS-135160	Expected DSD Inspection for Other Works	0	14MARS	28APR05	38d	■ Expected DSD Inspection for Other Works	■ Expected WSD Inspection	■ Expected WSD Inspection
BS-135030	Expected WSD Inspection	0	31MARS	20APR05	17d	■ Expected WSD Inspection	■ Expected DSD Inspection for Sewage Pumpset & VSD	■ Expected DSD Inspection for Sewage Pumpset & VSD
BS-135040	Expected DSD Inspection for Sewage Pumpset & VSD	0	01APR05	28APR05	23d	■ Expected DSD Inspection for Sewage Pumpset & VSD	■ FS 501 Submission	■ FS 501 Submission
BS-135060	WWD048 Part V Submission	0	04APR05	04APR05	0	■ WWD048 Part V Submission	■ Expected DSD Inspection for Sewage Pumpset & VSD	■ Expected DSD Inspection for Sewage Pumpset & VSD
BS-135130	Expected DSD Inspection for Mech. Screen System	0	05APR05	28APR05	20d	■ Expected DSD Inspection for Mech. Screen System	■ FSP's Final Inspection	■ FSP's Final Inspection
BS-135180	WSD's Final Inspection	0	07APR05	27APR05	17d	■ WSD's Final Inspection	■ WSD's Final Inspection	■ WSD's Final Inspection
BS-135140	Expected DSD Inspection for Valves & Pipeworks	0	19APR05	28APR05	8d	■ Expected DSD Inspection for Valves & Pipeworks	■ Pump Station 2- E&M Works	■ Pump Station 2- E&M Works
BS-135150	Expected DSD Inspection for Deodourizer System	0	19APR05	28APR05	8d	■ Expected DSD Inspection for Deodourizer System	■ Conduit & Trunking	■ Conduit & Trunking
BS-135170	Expected FSD Inspection	0	20APR05	20APR05	0	■ Expected FSD Inspection	■ Lightning & Earthing Installation	■ Lightning & Earthing Installation
BS-135210	FSD's Final Inspection	0	27APR05	27APR05	0	■ FSD's Final Inspection	■ SCADA and PLC Works	■ SCADA and PLC Works
BS-133000	Pump Station 2- E&M Works	114 *	31DEC04	30APR05	0	■ Pump Station 2- E&M Works	■ MVAC	■ MVAC
BS-136040	Conduit & Trunking	40	25JAN05	13MARS	13MARS	■ Conduit & Trunking	■ P & D Installation	■ P & D Installation
BS-136060	Lightning & Earthing Installation	30	26JAN05	03MAR05	26MAR05	■ Lightning & Earthing Installation	■ Cable Tray Installation	■ Cable Tray Installation
BS-136080	SCADA and PLC Works	35	25JAN05	08MAR05	15MAR05	■ SCADA and PLC Works	■ Cabling Works	■ Cabling Works
BS-136090	MVAC	30	25JAN05	03MAR05	26JAN05	■ MVAC	■ F.S. Services Installation	■ F.S. Services Installation
BS-136100	P & D Installation	40	26JAN05	13MARS	22FEB05	■ P & D Installation	■ Lighting & Electrical Services	■ Lighting & Electrical Services
BS-136120	Cable Tray Installation	30	25JAN05	03MAR05	28JAN05	■ Cable Tray Installation	■ Cable terminations to Major Equipment	■ Cable terminations to Major Equipment
BS-136070	Cabling Works	20	27FEB05	18MARS	27FEB05	■ Cabling Works	■ LV Switchboard & Control Panels	■ LV Switchboard & Control Panels
BS-136110	F. S. Services Installation	30	05MARS	03APR05	05MARS	■ F. S. Services Installation	■ Fan Functional Test	■ Fan Functional Test
BS-136050	Lighting & Electrical Services	41	14MARS	23APR05	14MARS	■ Lighting & Electrical Services	■ Valves & Pipeworks	■ Valves & Pipeworks
BS-136130	Cable terminations to Major Equipment	10	18MARS	28MARS	19MARS	■ Cable terminations to Major Equipment	■ FCCW cable laying & wiring works	■ FCCW cable laying & wiring works
BS-136140	Cable terminations to other equipment	15	28MARS	12APR05	28MARS	■ Cable terminations to other equipment	■ Penstock	■ Penstock
BS-136010	CLP Installation	42	31DEC04	18FEB05	12FEB05	■ CLP Installation	■ Deodourizer System	■ Deodourizer System
BS-136040	Sewage Pumpset & VSD	20	28JAN05	21FEB05	27MAR05	■ Sewage Pumpset & VSD	■ Living Appliance	■ Living Appliance
BS-134040	Mechanical Screen System	16	28JAN05	17FEB05	27MARS	■ Mechanical Screen System	■ LV Switchboard & Control Panels	■ LV Switchboard & Control Panels
BS-134050	Penstock	40	25JAN05	13MARS	03MARS	■ Penstock	■ Fan Functional Test	■ Fan Functional Test
BS-134080	Deodourizer System	12	26JAN06	08FEB06	30MARS	■ Deodourizer System	■ Cleansing Water Pump Hydraulic Test	■ Cleansing Water Pump Hydraulic Test
BS-134090	Functional Testing	14	28JAN05	04MARS	25APR05	■ Functional Testing	■ Panstock functional testing	■ Panstock functional testing
BS-134100	LV Switchboard and Control Panels	30	25JAN05	01MARS	28FEB05	■ LV Switchboard and Control Panels	■ Fan Functional Test	■ Fan Functional Test
BS-134070	Valves & Pipeworks	40	31JAN05	17MARS	24FEB05	■ Valves & Pipeworks	■ Sewage pumpset and VSD functional testing	■ Sewage pumpset and VSD functional testing
BS-134120	PCCW cable laying & wiring works	16	05MARS	20MARS	09APR05	■ PCCW cable laying & wiring works	■ F.S. Services functional testing	■ F.S. Services functional testing
BS-137010	Functional Testing	58 *	04MARS	30APR05	26APR05	■ Functional Testing	■ Valves & Pipeworks testing	■ Valves & Pipeworks testing
BS-137040	Lightning & Earthing functional testing	3	04MARS	06MARS	25APR05	■ Lightning & Earthing functional testing	■ Lifting Appliance functional testing	■ Lifting Appliance functional testing
BS-137130	Fan Functional Test	7	04MARS	10MARS	21APR05	■ Fan Functional Test	■ Deodorizer System functional testing	■ Deodorizer System functional testing
BS-137180	Cleansing Water Pump Hydraulic Test	2	14MARS	15MARS	22APR05	■ Cleansing Water Pump Hydraulic Test	■ Early bar	■ Early bar
BS-137190	Cleansing Water Pump Functional Test	4	16MARS	19MARS	24APR05	■ Cleansing Water Pump Functional Test	■ Progress bar	■ Progress bar
BS-137070	Penstock functional testing	6	29MARS	03APR05	13APR05	■ Penstock functional testing	■ Critical bar	■ Critical bar
BS-137100	LV Switchboard & Control Pa. functional testing	15	28MARS	12APR05	04APR05	■ LV Switchboard & Control Pa. functional testing	■ Summary bar	■ Summary bar
BS-137110	Sewage pumpset and VSD functional testing	3	29MARS	31MARS	18APR05	■ Sewage pumpset and VSD functional testing	■ Finish milestones point	■ Finish milestones point
BS-137120	Mech. Screen System functional testing	7	29MARS	04APR05	12APR05	■ Mech. Screen System functional testing	■ W.L.	■ W.L.
BS-137030	F. S. Services functional testing	3	04APR05	08APR05	25APR05	■ F. S. Services functional testing	■ W.L.	■ W.L.
BS-137060	Valves & Pipeworks testing	6	13APR05	18APR05	18APR05	■ Valves & Pipeworks testing	■ W.L.	■ W.L.
BS-137090	Lifting Appliance functional testing	5	13APR05	17APR05	26APR05	■ Lifting Appliance functional testing	■ W.L.	■ W.L.
BS-137080	Deodorizer System functional testing	6	13APR05	18APR05	18APR05	■ Deodorizer System functional testing	■ W.L.	■ W.L.
Start date: 27/01/2014 End date: 27/06/2014							Date	Approved
Contract No: TIP36/02 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 REVISIED WORKS PROGRAMME I							No.9 Revision G	WL
Start date: 27/01/2014 End date: 27/06/2014							No.10 Revision G	WL
Contract No: TIP36/02 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 REVISIED WORKS PROGRAMME I							No.11 Revision H	WL
Start date: 27/01/2014 End date: 27/06/2014							No.12 Revision I	WL
Start date: 27/01/2014 End date: 27/06/2014							Date	Approved

2006

2005

2004  
Total Percent Complete

Act ID Description Orig Dur Early Start Early Finish Late Start Late Finish Total Float

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
BS-137020	SCADA & PLC Works functional Testing	6	19APR05	19APR05	24APR05	24APR05	0	0
BS-137150	MCB board functional test		3	24APR05	25APR05	27APR05	1d	0
BS-137160	RCD/ELCB Functional Test	2	24APR05	25APR05	27APR05	2d	0	
BS-137170	Lighting Functional & Intensity Test	4	24APR05	27APR05	24APR05	27APR05	0	0
BS-137140	SCADA & PLC Mapping Test	3	25APR05	27APR05	27APR05	0	0	
BS-137000	Commissioning Test	3	28APR05	30APR05	30APR05	0	0	
<b>Section 14 - Waterworks</b>								
B4-1685918	Sewerage, L4,F402 to Inlet Chamber	15	16DEC04	30DEC04	27MAR05	10APR05	94d	0
B3-1622N17	Backfilling Works @ Rd. L4	5	18FEB05	22FEB05	08MARS05	13MARS05	19d	0
B3-1622N27	Deposition/Compact,4/Ch.397-437 remaining	4	23FEB05	26FEB05	21MARS05	24MARS05	26d	0
B4-1689D14	Remaining Gully Works @ Rd. L4	7	23FEB05	01MARS05	14MARS05	20MARS05	18d	0
B4-1689C23	Trapezoidal Channel, D1/L4 N	14	23FEB05	08MARS05	08APR05	16APR05	38d	0
B5-1670A7	Roadworks, L4/Ch.314-437	15	27FEB05	13MARS05	11APR05	25APR05	43d	0
B6-1595D6	Waterworks @ L4 remaining	12	02MARS05	21MARS05	21MARS05	01APR05	19d	0
B4-1689D4	Trapezoidal Channel, D1/L4 S	14	03MARS05	22MARS05	17MARS05	30APR05	39d	0
B5-1674G10	Road FurnitureMisc, Rd. L4	5	14MARS05	18MARS05	26APR05	30APR05	45d	0
UT-1600PS	PCCW/HGC beside FS2 @ Rd. L4	4	14MARS05	17MARS05	02APR05	05APR05	18d	0
B5-1672A7	Cycle Track & Footway, L4/Ch.314-437	25	18MARS05	11APR05	06APR05	30APR05	19d	0
<b>Section 15 - Waterworks in Area 15</b>								
B6-150000	Waterworks - Section 15, Area 15		332 *	03FEB04 A	30DEC04	03FEB04 A	30DEC04	0
B6-1594A0	Tree Pits	4	03FEB04 A	03FEB04 A	03FEB04 A	03FEB04 A	0	91
B6-1595D4	Waterworks, D1/Ch.1500-1880	80	04FEB04 A	13MAY04 A	04FEB04 A	13MAY04 A	100	1880
B6-1595D2	Waterworks, D1/Ch.1020-1360	40	04FEB04 A	09APR04 A	04FEB04 A	09APR04 A	100	100
B6-1595D12	Replace Existing Watermain, D1/Ch.1200-1270	14	25FEB04 A	12MAR04 A	25FEB04 A	12MAR04 A	100	206-270
B6-1595D31	Replace Existing Watermain, D1/Ch.1100-1200	20	13MAR04 A	15MAR04 A	13MAR04 A	15MAR04 A	100	1100-1200
B6-1595D41	Watermain Connection by WSD, D1/Ch.1100-1200	32	16MAR04 A	18MAR04 A	16MAR04 A	18MAR04 A	100	1100-1200
B6-1595D22	Watermain Connection by WSD,D1/Ch.1200-1270	32	28APR04 A	29APR04 A	28APR04 A	29APR04 A	100	WSD,D1/Ch.1200-1270
B6-1595D14	Replace Existing Watermain, D1/Ch.1690-1880	34	25JUL04 A	31JUL04 A	25JUL04 A	31JUL04 A	100	WSD,D1/Ch.1690-1880
B6-1595D13	Replace Existing Watermain, D1/Ch.1380-1490	22	02JUL04 A	12JUL04 A	02JUL04 A	12JUL04 A	100	Existing Watermain, D1/Ch.1380-1490
B6-1595D1	Waterworks, D1/Ch.920-1020	30	19JUL04 A	01AUG04 A	18JUL04 A	01AUG04 A	100	existing Watermain, D1/Ch.920-1020
B6-1595D6	Waterworks, D1/Ch.1880-2180	40	07AUG04 A	07SEP04 A	02AUG04 A	07SEP04 A	100	Waterworks, D1/Ch.1880-2180
B6-1595D61	Waterworks, D1/Ch.1020-1360 remaining	35	02AUG04 A	10SEP04 A	02AUG04 A	10SEP04 A	100	Waterworks, D1/Ch.1020-1360 remaining
B6-1595D11	Replace Existing Watermain, D1/Ch.920-980	15	19AUG04 A	12SEP04 A	19AUG04 A	12SEP04 A	100	Replace Existing Watermain, D1/Ch.920-980
B6-1595D24	Watermain Connection by WSD, D1/Ch.1690-1880	15	24AUG04 A	16SEP04 A	24AUG04 A	18SEP04 A	100	Watermain Connection by WSD, D1/Ch.1690-1880
B6-1595D36	Waterworks, D1/Ch.1880-2180 remaining	20	07SEP04 A	20SEP04 A	07SEP04 A	20SEP04 A	100	Waterworks, D1/Ch.1880-2180 remaining
B6-1595D7	Waterworks, L4/Ch.317-437	20	07SEP04 A	09NOV04 A	07SEP04 A	09NOV04 A	100	Waterworks, L4/Ch.317-437
B6-1595D21	Watermain Connection by WSD, D1/Ch.920-980	15	13SEP04 A	21SEP04 A	13SEP04 A	21SEP04 A	100	Watermain Connection by WSD, D1/Ch.920-980
B6-1595D3	Waterworks, D1/Ch.1880-1500	25	13SEP04 A	18SEP04 A	13SEP04 A	18SEP04 A	100	Waterworks, D1/Ch.1880-1500
B6-1595D36	Waterworks,D1/Ch.1690-2180 rem. continuation	12	21SEP04 A	06OCT04 A	21SEP04 A	06OCT04 A	100	Waterworks,D1/Ch.1690-2180 rem. continuation
B6-1595D76	Waterworks,D1/Ch.1690-2180 end portion	14	07OCT04 A	16OCT04 A	07OCT04 A	16OCT04 A	100	Waterworks,D1/Ch.1690-2180 end portion
B6-1595D23	Watermain Connection by WSD, D1/Ch.1380-1490	15	21NOV04 A	04DEC04	21NOV04 A	04DEC04	26d	81
B6-1595D36	Waterworks,D1/Ch.1690-2180 Testing	18	01DEC04 A	18DEC04	01DEC04 A	18DEC04	0	5
B6-1595D66	Watermain Connection by WSD, D1/Ch.2180	12	18DEC04	30DEC04	18DEC04	30DEC04	0	0
<b>Section 16 - Remainder Of Works, except LS+EW</b>								
<b>Part 16.1 Site Clearance &amp; Construction</b>								
B2-160000	Site Clearance - Section 16, Remainder	242 *	25APR03 A	22DEC03 A	25APR03 A	22DEC03 A	100	
B2-160440	Remove disused UPVC duct	350	25APR03 A	19DEC03 A	25APR03 A	19DEC03 A	100	
B2-160480	Remove disused concrete pipe	150	20NOV03 A	22DEC03 A	20NOV03 A	22DEC03 A	100	
<b>Part 16.2 Earthworks, Section 16</b>								
B3-1622L1	Earthworks - Section 16, Remainder	304 *	30SEP02 A	07AUG03 A	30SEP02 A	07AUG03 A	100	
B3-1622L3	Zone E, Excavate ex mound #1, at SRE site office	6	80SEP02 A	100CT02 A	100CT02 A	100CT02 A	100	
B3-1622L3	Zone C, Excavate ex mound #2, at site office	10	07OCT02 A	25OCT02 A	07OCT02 A	25OCT02 A	100	
<b>Part 16.3 Earthworks, Section 16</b>								
B3-160000	Fill dirt #1	27AUG02	Early bar					
B3-160000	Fill dirt #2	02DEC04	Progress bar					
B3-160000	Fill dirt #3	10DEC04	Final bar					
B3-160000	Zone E, Excavate ex mound #1, at SRE site office	15A	Summary bar					
B3-160000	Zone C, Excavate ex mound #2, at site office	15B	Start milestone point					
B3-160000	Zone C, Excavate ex mound #2, at site office	15C	Finish milestone point					
<b>Part 16.4 Remaining Works</b>								
<b>Contract No. TP35/02</b>								
Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1								
<b>REVISED WORKS PROGRAMME I</b>								
<b>Date</b>								
01JUN04								
No.9 Revision G								
01JUL04								
No.10 Revision H								
04OCT04								
No.11 Revision I								
04DEC04								
No.12 Revision J								

File date: 16/02/2005  
Data date: 16/02/2005  
Run date: 16/02/2005  
Pack number: TPA5024P01  
Number/Version: 15A  
Programme Systems, Inc.

Contract No. TP35/02  
Remaining Engineering Infrastructure Works  
for Pak Shek Kok Development Package 1  
REVISED WORKS PROGRAMME I

Section 16.1 Site Clearance & Construction

SCADA & PLC Works functional Testing  
MCB board functional test  
RCD/ELCB Functional Test  
Lighting Functional & Intensity Test  
SCADA & PLC Mapping Test  
Commissioning Test

SSCADA & PLC Works functional Testing  
MCB board functional test  
RCD/ELCB Functional Test  
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MCB board functional test  
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Lighting Functional & Intensity Test<br

Act ID      Description      Orig Dur      Early Start      Early Finish      Late Start      Late Finish      Total Float      Percent Complete

2004								2005												
								JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAR
B3-162211A	[Zone E, Excavate excavated #1, N of school site		12	2000C0702 A	04.	2 A	2000C0702 A	DANOV02 A	DANOV02 A	07NOV02 A	100									
B3-162211B	Zone E, Excavate excavated #1, W of office area		13	280C0702 A			12	28N0V02 A	13JAN03 A	100										
B3-162212	Zone E, Excavate excavated #1, the rest		12	28N0V02 A			70	07DEC02 A	28APR03 A	07DEC02 A	100									
B3-1622K0	Excavate, NE of H.Site 1, Promenade		70	09DEC02 A			31JUL03 A	100												
B3-1623F2	S5, Preloading Mound Formation, Zone S3, Phase 9B		10	12DEC02 A			31JUL03 A	100												
B3-1623H2	S5, Preloading Mound Formation, Zone S3, Phase 9D		10	12DEC02 A			31JUL03 A	100												
B3-1623H3	S5, Preloading Mound Formation, Zone S3, Phase 9E		10	12DEC02 A			31JUL03 A	100												
B3-1601A1	Vibrating wire piezometer, S6, No. 6P6		6	02JAN03 A			28JAN03 A	02JAN03 A	100											
B3-1601E2	Moving figs, S5, 4 nr.		12	03JAN03 A			28JAN03 A	03JAN03 A	100											
B3-1601A2	Vibrating wire piezometer, S5, No. 5P1		6	27JAN03 A			27JAN03 A	100												
B3-1601I2	Fieldwork Reports, S5		12	08FEB03 A			28FEB03 A	03FEB03 A	100											
B3-1601G2	Ground investigation, S5, 4nr		12	17FEB03 A			17FEB03 A	100												
B3-1601D0	Establish figs for Gl, S6		9	27FEB03 A			01MARCH03 A	100												
B3-1601E1	Moving figs, S6, 4 nr.		12	02MARCH03 A			18MARCH03 A	02MARCH03 A	100											
B3-1601G1	Ground investigation, S5, 4nr		12	05MARCH03 A			16MARCH03 A	05MARCH03 A	100											
B3-1601I1	Fieldwork Reports, S5		12	14MARCH03 A			25MARCH03 A	14MARCH03 A	100											
B3-1601C1	Subsurface Settlement Marker, No. 6M6		3	27MARCH03 A			28MARCH03 A	27MARCH03 A	100											
B3-1601C2	Subsurface Settlement Marker, No. 5M1		3	30MARCH03 A			28MARCH03 A	30MARCH03 A	100											
B3-1601C3	Subsurface Settlement Marker, No. 5M2		3	01APR03 A			31MARCH03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	01APR03 A	100	
B3-1601F3	S5, Preloading Mound Formation, Zone S3, Phase 9C		10	31JUL03 A			31JUL03 A	05AUG03 A	100											
B3-1601B3	Surface Settlement Marker, No. 5M2		3	06AUG03 A			06AUG03 A	100												
B3-1601B2	Surface Settlement Marker, No. 5M1		3	08AUG03 A			08AUG03 A	100												
B3-1600S05	Earthworks-Section 16, Remainder, after surcharge		367*	23DEC03 A			31DEC04	23DEC04	23DEC04	92										
B3-1623I2	S5, Mound Removal, Zone S3, Phase 9B&D		19	24DEC03 A			24DEC03 A	100												
B3-1623I3	S5, Mound Removal, Zone S3, Phase 9C&E		19	24DEC03 A			31DEC03 A	100												
B3-1622H4	Excavate, D1/Ch.1500-1660		45	10MAY04 A			10MAY04 A	100												
B3-1622M6	Excavate, D1/Ch.1860-2180		15	30APR04 A			21MAY04 A	30APR04 A	100											
B3-1622H12	Excavate, D1/Ch.1500-1660 remaining		15	26MAY04 A			08JUN04 A	26MAY04 A	100											
B3-1622H12	Excavate, D1/Ch.1020-1360		25	21JUL04 A			16JUL04 A	21JUL04 A	100											
B3-1622H14	Excavate, D1/Ch.920-1020		25	20SEP04 A			30SEP04 A	20SEP04 A	97											
B3-1622N7	Deposit/ Compact, L4/Ch.397-437		10	25SEP04 A			08DEC04	25SEP04 A	97											
B3-1622N3	Deposit/ Compact, D1/Ch.1360-1500		5	08OCT04 A			08OCT04 A	95												
B3-1622N9	Deposit/ Compact, N.end, Promenade		2	30DEC04			31DEC04	30DEC04	0											
B3-1622H2	Excavate, D1/Ch.1500-1660		15	26DEC03 A			30SEP04 A	26DEC03 A	100											
B3-1622H1	Excavate, D1/Ch.920-1020		15	29DEC03 A			29DEC03 A	100												
B3-1622H1	Excavate, D1/Ch.1500-1660		15	29MAY04 A			29MAY04 A	100												
B3-1622H1	Excavate, D1/Ch.1020-1360		30	25MAY04 A			25MAY04 A	100												
B4-1688B6	Sewerage, D1, F055-F054		18	18DEC03 A			09DEC04	18DEC03 A	100											
B4-1688B6	Drainage, D1, S007B-SQ080 remaining		75	09DEC02 A			30MARCH03 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	09DEC02 A	100	
B4-1688C1	Trapezoidal Channel, Area 13A		12	13DEC02 A			13DEC02 A	100												
B4-1688B6	Drainage, D1, S007B-SQ080		70	28APR03 A			28APR03 A	100												
B4-1688B6	Sewerage, D1, F054-F055		20	19FEB04 A			20FEB04 A	19FEB04 A	100											
B4-1688B6	Drainage connection to SBS		16	22FEB04 A			22FEB04 A	100												
B4-1688B12	Drainage connection to Existing		25	04MAY04 A			27MAY04 A	04MAY04 A	100											
B4-1688B76	Site investigation & preliminary works		15	29MAY04 A			29MAY04 A	100												
B4-1688B6	Sewerage, D1, F55B to Existing		30	25MAY04 A			28AUG04 A	25MAY04 A	100											
B4-1688B46	Drainage, D1/Ch.1860-2180 Gully works		30	08JUN04 A			12AUUG04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	100	
B4-1688B86	F57-F58 Sewer Pipe remedial works		24	20SEP04 A			12OCT04 A	20SEP04 A	100											
B4-1688B55	U-Channel, D1/ 1860-2180		45	25SEP04 A			21DECE04	25SEP04 A	25SEP04 A	25SEP04 A										

2005

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
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2006

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
B4-1683B14	Drainage, D1, S0061-S0074 remaining	60	28DEC03 A	29FEB04 A	28DEC03 A	29FEB04 A	100	
B4-1691B4	Sewerage Rising Mains, D1, Ch1500-F47	30	14FEB04 A	27MAR04 A	14FEB04 A	27MAR04 A	100	100-F47
B4-1685B11	Sewerage, D1, F034-F038	72	25JUL03 A	20MARD04 A	25JUL03 A	20MARD04 A	100	
B4-1683B11	Drainage, D1, S0043-S0051	90	13OCT03 A	28MAR04 A	13OCT03 A	28MAR04 A	100	
B4-1685B1	Sewerage, D1, F031-F034	32	05JAN04 A	04MARD04 A	05JAN04 A	04MARD04 A	100	
B4-1683B1	Drainage, D1, S0038-S0043	50	07FEB04 A	24MAR04 A	07FEB04 A	24MAR04 A	100	
B4-1685B21	Sewerage, D1, (Ch.1020-1360)F034-F038 remaining	52	28MAY04 A	05JUL04 A	28MAY04 A	05JUL04 A	100	(Ch.1020-1360)F034-F038 remaining
B4-1683B21	Drainage, D1, S0038-S0056 remaining	55	28JUL03 A	22SEP04 A	28JUL03 A	22SEP04 A	100	██████████ Drainage, D1, S0043-S0056 remaining
B4-1683B25	Drainage, D1, S0074-S0076 preliminary works	35	03NOV03 A	05NOV03 A	03NOV03 A	05NOV03 A	100	
B4-1683B15	Drainage, D1, S0074-S0076 remaining	37	03JAN04 A	02JAN04 A	03JAN04 A	02JAN04 A	100	
B4-1685B55	Sewerage, D1, F051-F052	35	23MARD04 A	20APR04 A	23MARD04 A	20APR04 A	100	
B4-1685B58	Sewerage, L4, F043-F042	25	18JUL03 A	10NOV03 A	18JUL03 A	10NOV03 A	100	
B4-1683B88	Drainage, L4, S406-S406 Pipe Laying Works	80	22SEP03 A	31OCT03 A	22SEP03 A	31OCT03 A	100	
B4-1683B77	Drainage, L4, S406-S406 remaining	14	01NOV03 A	23APR04 A	01NOV03 A	23APR04 A	100	
B4-1683B77	Sewerage, L4, F042-F043	14	25NOV03 A	17DEC03 A	25NOV03 A	17DEC03 A	100	
B4-1683B17	Drainage, L4, S406-S407	45	02JAN04 A	30MARD04 A	02JAN04 A	30MARD04 A	100	
B4-1683B27	Drainage, L4, S406-S404	35	02JAN04 A	30MARD04 A	02JAN04 A	30MARD04 A	100	
B4-1683B8A	Drainage, L4, S402-S406 remaining	38	15JAN04 A	26MAY04 A	15JAN04 A	26MAY04 A	100	██████████ remaining
B4-1691B7	Sewerage, Rising Mains, L4, F045-F046	20	03MARD04 A	26MAY04 A	03MARD04 A	26MAY04 A	100	ls, L4, +F045-F046
B4-1691B8	Sewerage, Rising Mains, L4, F044-F45+	30	10MAY04 A	26MAY04 A	10MAY04 A	26MAY04 A	100	ls, L4, F044-F45+
B4-1683B28	Sewerage, Rising Mains,L4 remaining	45	02MAY04 A	15JUL04 A	02MAY04 A	15JUL04 A	100	Rising mains,L4, remaining
B4-1685B38	Drainage, L4 remaining	35	25JUN04 A	28SEP04 A	25JUN04 A	28SEP04 A	100	██████████ Drainage, L4, remaining
B4-1683B33	Drainage, D1, S0056-S0061	70	10NOV03 A	30DEC03 A	10NOV03 A	30DEC03 A	100	
B4-1685B3	Sewerage, D1, F040-F042	35	18NOV03 A	22DEC03 A	18NOV03 A	22DEC03 A	100	
B4-1691B3	Sewerage, Rising Mains, D1, F046-Ch1500	25	16MARD04 A	30MARD04 A	16MARD04 A	30MARD04 A	100	██████████ Ch1500
B4-1685B13	Sewerage, D1, F040-F042 remaining	25	15JUL04 A	28SEP04 A	15JUL04 A	28SEP04 A	100	D1,F040-F042 remaining
B4-1683B13	Drainage, D1, S0056-S0061 remaining	50	15JUL04 A	13SEP04 A	15JUL04 A	13SEP04 A	100	██████████ Sewer Raising Main Testing
B4-1691B23	Sewer Raising Main Testing	45	16AUG04 A	20OCT04 A	16AUG04 A	20OCT04 A	100	██████████ Sewer Raising Main Testing
B4-1691B13	Sewerage Rising Mains, D1, F046-Ch1500remaining	7	21OCT04 A	27OCT04 A	21OCT04 A	27OCT04 A	100	
B4-1678B15	Preparation Works for 2.5m Trapezoidal Channel	80	02APR04 A	02APR04 A	02APR04 A	02APR04 A	100	
B4-1078BB25	Fabrication Works and Delivery of 2.5m Trap.Ch.	55	20APR04 A	27APR04 A	20APR04 A	27APR04 A	100	██████████ very of 2.5m Trap.Ch.
B4-1078B35	Installation and Construction of 2.5m Trap. Ch.	60	03SEP04 A	16AUG04 A	03SEP04 A	16AUG04 A	100	██████████ installation and Construction of 2.5m Trap. Ch.
B4-1689C5	Trapezoidal Channel, NE of H Site 1	30	18AUG03 A	01NOV03 A	18AUG03 A	01NOV03 A	100	
B4-1689C3	Trapezoidal Channel, NE of School Site	25	01NOV03 A	01NOV03 A	01NOV03 A	01NOV03 A	100	
B4-1689C4	Trapezoidal Channel, Zone T	14	26DEC03 A	02APR04 A	26DEC03 A	02APR04 A	100	██████████ Islet Channel, Zone T
B4-1689D9	Trapezoidal Channel, LS South	100	08MARD04 A	25MAR04 A	08MARD04 A	25MAR04 A	100	
B4-1689D1	Trapezoidal Channel, D1 at area of Mound SS	60	17MARD04 A	30MARD04 A	17MARD04 A	30MARD04 A	100	██████████ of Mound SS
B4-1689G2	Trapezoidal Channel, NE of School Site	25	02APR04 A	20APR04 A	02APR04 A	20APR04 A	100	School Site
B4-1689G6	Trapezoidal Channel, Zone T	60	25MAY04 A	26JUL04 A	25MAY04 A	26JUL04 A	100	██████████ Islet Channel, Zone T
B4-1689B67	Sewerage, F58 to existing (remaining)	15	07SEP04 A	02OCT04 A	07SEP04 A	02OCT04 A	100	██████████ Sewerage, F58 to existing (remaining)
B4-1689B96	Drainage, D1/F1860-24/80 gully works remaining	20	08SEP04 A	19SEP04 A	08SEP04 A	19SEP04 A	100	██████████ Drainage, D1/F1860-24/80 gully works remaining
B4-1689D6	Trapezoidal Channel, D1, L4 to Culvert C10	50	08SEP04 A	30SEP04 A	08SEP04 A	30SEP04 A	100	██████████ Trapezoidal Channel, D1, L4 to Culvert C10
B4-1689B97	Drainage, D1/Ch.1860-24/80 gullyworks to existing	15	21SEP04 A	18OCT04 A	21SEP04 A	18OCT04 A	100	██████████ Drainage, D1/Ch.1860-24/80 gullyworks to existing
B4-1695D46	Drain Pipe laying	14	07OCT04 A	15SEP04 A	07OCT04 A	15SEP04 A	100	██████████ Drain Pipe laying
B4-1689Q2	Trapezoidal Channel, D1 at S0049 to Area 9B bound	30	10NOV04 A	09DEC04	10NOV04 A	09DEC04	100	██████████ Trapezoidal Channel, D1 at S0049 to Area 9B bound
B4-1689C8	Trapezoidal Channel, D1 at H Site 3	40	18NOV04 A	11DEC04	18NOV04 A	07JAN05	75	██████████ Trapezoidal Channel, D1 at H Site 3
<b>Part 6.1 Waterworks Structures</b>								
B6-1609A0	Waterworks, NE of H Site 1, Promenade	60	28APR03 A	30JUL03 A	28APR03 A	30JUL03 A	100	
B6-160740	Trial Pits	14	28JUL03 A	08AUG03 A	28JUL03 A	08AUG03 A	100	
<b>Section 16 Utilities - Section 16, Remaining</b>								
UT-160000	Utilities - Section 16, Remaining	459	20SEP03 A	29DEC04	0	94		
UT-160011A	PCCW, D1/Ch.920-1020	28	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 16, Remaining
UT-160011B	HGC-New World, D1/Ch.920-1020	30	08MARD04 A	17MAR04 A	08MARD04 A	17MAR04 A	100	
<b>Section 17 Utilities</b>								
UT-160000	Utilities - Section 17, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 17, Remaining
<b>Section 18 Utilities</b>								
UT-160000	Utilities - Section 18, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 18, Remaining
<b>Section 19 Utilities</b>								
UT-160000	Utilities - Section 19, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 19, Remaining
<b>Section 20 Utilities</b>								
UT-160000	Utilities - Section 20, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 20, Remaining
<b>Section 21 Utilities</b>								
UT-160000	Utilities - Section 21, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 21, Remaining
<b>Section 22 Utilities</b>								
UT-160000	Utilities - Section 22, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 22, Remaining
<b>Section 23 Utilities</b>								
UT-160000	Utilities - Section 23, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 23, Remaining
<b>Section 24 Utilities</b>								
UT-160000	Utilities - Section 24, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 24, Remaining
<b>Section 25 Utilities</b>								
UT-160000	Utilities - Section 25, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 25, Remaining
<b>Section 26 Utilities</b>								
UT-160000	Utilities - Section 26, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 26, Remaining
<b>Section 27 Utilities</b>								
UT-160000	Utilities - Section 27, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 27, Remaining
<b>Section 28 Utilities</b>								
UT-160000	Utilities - Section 28, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 28, Remaining
<b>Section 29 Utilities</b>								
UT-160000	Utilities - Section 29, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 29, Remaining
<b>Section 30 Utilities</b>								
UT-160000	Utilities - Section 30, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 30, Remaining
<b>Section 31 Utilities</b>								
UT-160000	Utilities - Section 31, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 31, Remaining
<b>Section 32 Utilities</b>								
UT-160000	Utilities - Section 32, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 32, Remaining
<b>Section 33 Utilities</b>								
UT-160000	Utilities - Section 33, Remaining	21	29DEC04	07JUN05	0	94		
UT-160011A	Waterworks, D1/Ch.920-1020	21	08MARD04 A	15MAR04 A	08MARD04 A	15MAR04 A	100	██████████ Utilities - Section 33, Remaining
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Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
UT-1-600G1	Gas Mains, D1/Ch.920-1020	25	12MAY04 A	25MAY04 A	12MAY04 A	25MAY04 A	100	
UT-1-600T1F	PCCW, D1/Ch.1020-1200	50	16MAY04 A	21MAY04 A	16MAY04 A	18MAY04 A	100	
UT-1-600T1G	HGC-New World,D1/Ch.1020-1200	55	19MAY04 A	24MAY04 A	19MAY04 A	23MAY04 A	100	
UT-1-600P1	Powers(1kV), D1/Ch.920-1020	27	23MAY04 A	30MAY04 A	23MAY04 A	30MAY04 A	100	
UT-1-600G11	Gas Mains, D1/Ch.1220-1280	45	26MAY04 A	27MAY04 A	26MAY04 A	27MAY04 A	100	
UT-1-600P11	Powers(1kV), D1/Ch.1020-1200	45	26MAY04 A	05APR04 A	26MAY04 A	05APR04 A	100	(25% completed)
UT-1-600T2A	PCCW, D1/Ch.1020-1280 (25% completed)	6	26MAY04 A	31MAY04 A	28MAY04 A	31MAY04 A	100	D1/Ch.1020-1360 (25% completed)
UT-1-600T2B	HGC-New World, D1/Ch.1020-1360 (25% completed)	6	05JUN04 A	08JUN04 A	05JUN04 A	08JUN04 A	100	D1/Ch.1020-1360 (25% completed)
UT-1-600P2	Gas Mains, D1/Ch.1020-1360	36	31JUL04 A	23AUG04 A	31JUL04 A	23AUG04 A	100	D1/Ch.1020-1360 (25% completed)
UT-1-600G2	Gas Mains, D1/Ch.1020-1360	40	1AUG04 A	11AUG04 A	11AUG04 A	11AUG04 A	100	D1/Ch.1020-1360 (25% completed)
UT-1-600T2C	PCCW, D1/Ch.1020-1360 remaining	27	18AUG04 A	14SEP04 A	18AUG04 A	14SEP04 A	100	D1/Ch.1020-1360 (25% completed)
UT-1-600T2D	HGC-New World, D1/Ch.1020-1360 remaining	27	30SEP04 A	17SEP04 A	30SEP04 A	17SEP04 A	100	D1/Ch.1020-1360 (25% completed)
UT-1-600G3	Gas Mains, D1/Ch.1360-1500	25	13SEP04 A	25SEP04 A	13SEP04 A	25SEP04 A	100	D1/Ch.1360-1500
UT-1-600P3	Powers(1kV), D1/Ch.1360-1500	25	17SEP04 A	27SEP04 A	17SEP04 A	27SEP04 A	100	D1/Ch.1360-1500
UT-1-600T3A	PCCW, D1/Ch.1360-1500	15	27SEP04 A	28SEP04 A	27SEP04 A	28SEP04 A	100	D1/Ch.1360-1500
UT-1-600T3B	HGC-New World, D1/Ch.1360-1500	16	28SEP04 A	28SEP04 A	27SEP04 A	28SEP04 A	100	D1/Ch.1360-1500
UT-1-600T3C	NT&T, D1/Ch.1360-1500	7	30SEP04 A	05OCT04 A	30SEP04 A	05OCT04 A	100	D1/Ch.1360-1500
UT-1-600T4A	PCCW, D1/Ch.1500-1860	75	17FEB04 A	12MAY04 A	17FEB04 A	12MAY04 A	100	D1/Ch.1500-1860
UT-1-600T4B	HGC-New World, D1/Ch.1500-1860	85	19FEB04 A	18MAY04 A	19FEB04 A	18MAY04 A	100	D1/Ch.1500-1860
UT-1-600P4	Powers(1kV), D1/Ch.1500-1860	72	28MAY04 A	08APR04 A	28MAY04 A	08APR04 A	100	D1/Ch.1500-1860
UT-1-600S4	Gas Mains, D1/Ch.1500-1860	72	16APR04 A	27APR04 A	16APR04 A	27APR04 A	100	D1/Ch.1500-1860
UT-1-600T4E	PCCW, D1/Ch.1500-1860 remaining	25	14JUN04 A	03JUL04 A	14JUN04 A	03JUL04 A	100	D1/Ch.1500-1860 remaining
UT-1-600T4F	HGC-New World, D1/Ch.1500-1860	25	18JUN04 A	05JUL04 A	18JUN04 A	05JUL04 A	100	D1/Ch.1500-1860
UT-1-600T4G	Gas Mains, D1/Ch.1500-2180	50	28JUN04 A	15JUN04 A	28JUN04 A	15JUN04 A	100	D1/Ch.1500-2180
UT-1-600P5	Powers(1kV), D1/Ch.1500-2180	40	28MAY04 A	15JUN04 A	28MAY04 A	15JUN04 A	100	D1/Ch.1500-2180
UT-1-600P6A	PCCW, D1/Ch.1860-2180	40	05JUL04 A	10JUL04 A	05JUL04 A	10JUL04 A	100	D1/Ch.1860-2180
UT-1-600T6B	HGC-New World, D1/Ch.1860-2180	49	15JUL04 A	20JUL04 A	15JUL04 A	20JUL04 A	100	D1/Ch.1860-2180
UT-1-600P16	Existing CLP cable realignment	21	09SEP04 A	27SEP04 A	08SEP04 A	27SEP04 A	100	Existing CLP cable realignment
UT-1-600P7	Powers(1kV), Crossing to D1/Ch.1500	12	07MAY04 A	18MAY04 A	07MAY04 A	18MAY04 A	100	to D1/Ch.1500
UT-1-600S5B	Gas Mains, Crossing to D1/Ch.1500	12	10MAY04 A	21MAY04 A	10MAY04 A	21MAY04 A	100	to D1/Ch.1500
UT-1-600P7F	PCCW, Crossing to D1/Ch.1500	12	01OCT04 A	08OCT04 A	01OCT04 A	08OCT04 A	100	D1/Ch.1500
UT-1-600T7H	HGC-New World, D1/Ch.1500 (Both sides of rd.)	12	05OCT04 A	09OCT04 A	05OCT04 A	09OCT04 A	100	pressing to D1/Ch.1500
UT-1-600T7C	CATV, Crossing	7	08JUN04 A	14JUN04 A	08JUN04 A	14JUN04 A	100	
UT-1-600T7T	NT&T, Crossing	7	15JUN04 A	18JUN04 A	15JUN04 A	18JUN04 A	100	
UT-1-600T7A	PCCW, L4/Ch.314-437	12	01OCT04 A	08OCT04 A	01OCT04 A	08OCT04 A	100	L4/Ch.314-437 (Both sides of rd.)
UT-1-600T7B	HGC-New World, L4/Ch.314-437 (Both sides of rd.)	12	05OCT04 A	09OCT04 A	05OCT04 A	09OCT04 A	100	L4/Ch.314-437 (Both sides of rd.)
UT-1-600P9	Powers(122kV, N. end, Promenade	20	20SEP03 A	16OCT03 A	20SEP03 A	16OCT03 A	100	
UT-1-600P10	Powers(122kV & 11kV), NE of Site 1, Promenade	60	10DEC03 A	30DEC03 A	10DEC03 A	30DEC03 A	100	
UT-1-600T9A	PCCW, N. end, Promenade	7	18DEC04	25DEC04	19DEC04	25DEC04	0	
UT-1-600T9B	HGC, N. end, Promenade	7	23DEC04	29DEC04	23DEC04	29DEC04	0	
<b>SECTION 16: AREA 15 &amp; REMINDER</b>								
B5-160000	Roadworks - Section 16, Area 15 & Reminder	515*	04AUG03 A	07JAN05	04AUG03 A	07JAN05	0	93
B5-1672A1	Cycle Track, D1/Ch.920-1020	28	13APR04 A	30APR04 A	13APR04 A	30APR04 A	100	D1/Ch.920-1200
B5-1672A11	Cycle Track & Footpath, D1/Ch.1020-1200	50	19APR04 A	30APR04 A	19APR04 A	30APR04 A	100	D1/Ch.920-1200
B5-1670A1	Roadworks, D1/Ch.920-1020	35	01OCT04 A	18NOV04 A	01OCT04 A	18NOV04 A	100	D1/Ch.920-1020
B5-1672A21	Footpath, D1/Ch.920-1020 remaining	12	28NOV04 A	02DEC04 A	28NOV04 A	02DEC04 A	100	D1/Ch.920-1020 remaining
B5-1672A31	Footpath, D1/Ch.920-1020 remaining	25	02DEC04 A	25DEC04 A	02DEC04 A	25DEC04 A	100	D1/Ch.920-1020 remaining
B5-1670A2	Roadworks, D1/Ch.920-1020	75	22JUL04 A	23OCT04 A	22JUL04 A	23OCT04 A	100	D1/Ch.920-1020
B5-1672A2	Cycle Track & Footpath, D1/Ch.1020-1360	45	28OCT04 A	10DEC04 A	28OCT04 A	10DEC04 A	100	D1/Ch.920-1360
B5-1670A3	Roadworks, D1/Ch.1360-1500	25	13OCT04 A	02DEC04 A	13OCT04 A	02DEC04 A	100	D1/Ch.1360-1500
B5-1670A13	Roadworks, D1/Ch.1360-1500 remaining	28	02DEC04 A	28DEC04 A	02DEC04 A	28DEC04 A	100	D1/Ch.1360-1500 remaining
B5-1670A4	Roadworks, D1/Ch.1500-1860 Seaside completion	70	08JUN04 A	21SEP04 A	08JUN04 A	21SEP04 A	100	D1/Ch.1500-1860 Seaside completion
B5-1672A4	Footpath, D1/Ch.1500-1860	90	15JUL04 A	30NOV04 A	15JUL04 A	30NOV04 A	100	D1/Ch.1500-1860
B5-1670A14	Roadworks, D1/Ch.1500-1860 total highway side paving	7	27SEP04 A	16OCT04 A	27SEP04 A	16OCT04 A	100	D1/Ch.1500-1860 total highway side paving
Standards	2/AU/02							
Finish date	28FEB04							
Data	No.10 Revision G							
Revision G	01JUN04							
Run date	07JUL04							
Page number	18A							
Number	18A							
Version	18A							
Summary bar	■							
Start milestone point	■							
Finish milestone point	■							
REVISION WORKS PROGRAMME !								

Date	Revision G	Checked	Approved
01JUN04	No.3 Revision G	WAJ	WL
01JUL04	No.10 Revision H	WAJ	WL
04OCT04	No.11 Revision I	WAJ	WL
17DEC04	No.12 Revision J	WAJ	WL



Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete	2004	2005	2006															
									SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
BT-1401C0	Update Safety Plan		810 31AUG02 A	02L-34 A	31AUG02 A	02DEC04 A		100																		
BT-1401G0	Arrange & Attend Weekly Safety Walk		805 03SEP02 A	02DEC04 A	03SEP02 A	02DEC04 A		100																		
BT-1401H0	Provide Safety Training		810 10SEP02 A	02DEC04 A	10SEP02 A	02DEC04 A		100																		
BT-1401E0	Attend Site Safety Committees & Mgmt Committee		810 26OCT02 A	02DEC04 A	26OCT02 A	02DEC04 A		100																		
BT-1401K0	Participate in safety promotional campaign		694 28NOV02 A	02DEC04 A	28NOV02 A	02DEC04 A		100																		
BT-1401K10	Site Safety Remaining Works		150 02DEC04 A	29APR05	02DEC04 A	30APR06	1d	1																		

Start date: 27 AUG 02  
 End date: 26 SEP 06  
 Due date: 02 DEC 04  
 Due further: 06 NOV 04  
 Last revision: 25 SEP 06  
 Number: 00000000000000000000000000000000  
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Contract No. TP35/02  
 Remaining Engineering Infrastructure Works  
 for Pak Shek Kok Development Package 1  
 REVISED WORKS PROGRAMME I

Date	Revision G	Revision H	Revision I	Approved
01JUN04	No.9	No.10	No.11	WAI
07JUL04	No.10	No.11	No.12	WL
04OCT04	No.11	No.12		WL
17DEC04	No.12			WL

Act ID	Description	Orig Dur	Early Start	Early Finish	Total Percent Complete	NOV	DEC	JAN	FEB	MAR
<b>Completion Dates</b>										
KD-2040A	Achievement Date for KD-2040	0			24DEC04	0	0	0	0	0
KD-2040B	Assumed Extension of Time for KD-2040	0			22DEC04 *	0	0	0	0	0
KD-2030A	Achievement Date for KD-2030	0			28FEB05	0	0	0	0	0
KD-2030B	Assumed Ext of Time for Section 3	0			28FEB05 *	0	0	0	0	0

### Section 3-Works in Areas 3,4 & 6, except Sec. 4+LS&EW

B3-0308M2	Deposition & Compaction, D1/Ch.780-920	10	28JAN05	13FEB05	5d	0				
B4-0317031	HPC pipe, L2/Ch.100-200 Gully works west bound	7	20NOV04 A	08DEC04	0					
UT-0300P1	Powerset(1kV), L2/Ch.100-200	15	06DEC04	23DEC04	0					
UT-0300G4	(Gas Mains at Area 3	20	03JAN05	22JAN05	7d	0				
UT-0300G4C	Gas Main at Area 4 remaining	10	24DEC04	02JAN05	2d	0				
<b>3.15.3 Roadworks - Section 2:</b>										
B5-0325C33	Footpath at Area 4 remaining	15	03JAN05	17JAN05	2d	0				
B5-0325C5	Footpath, Area 3	21	18JAN05	14FEB05	2d	0				
B5-0325C2	Roadworks, D1/Ch.780-920	12	30JAN05	17FEB05	5d	0				
B5-0326A2	Cycle track & Footpath, D1/Ch.780-920	15	13FEB05	27FEB05	3d	0				
B5-0328C0	Roadworks Furniture & Miscellaneous	13	13FEB05	26FEB05	3d	0				
B5-0325C23	Footpath at Area 6 under bridge	12	17FEB05	28FEB05	0					
B7-032050	Abutment Wall, Rest - East Abutment	7	28JAN05	03FEB05	0					
B7-032050	Drainage & Backfill - East Abutment	15	02FEB05	23FEB05	0					
B7-032050	Abutment Wall, Rest - West Abutment	7	28JAN05	03FEB05	5d	0				
B7-032050	Drainage & Backfill - West Abutment	7	31JAN05	13FEB05	5d	0				
<b>3.15.4 Structures:</b>										
B7-034050	Rebar Installation for bridge girder & wharf walls	20	17NOV04 A	03DEC04	0					
B7-034060	Installation of tendon ducts & grout vents	8	04DEC04	11DEC04	0					
B7-034070	Inspection and approval of tendon profile	1	12DEC04	12DEC04	0					
B7-034180	Formworking Installation at walls	7	12DEC04	18DEC04	0					
B7-034090	Concreting of soffit, sidewalls & internal web blockers	1	18DEC04	18DEC04	0					
B7-034110	Rebar and formworking for top slab	12	20DEC04	31DEC04	0					
B7-034110	Concreting of internal web well to top slab offitt	1	01JAN05	01JAN05	0					
B7-034080	Strands threading to tendon ducts	10	02JAN05	11JAN05	0					
B7-034120	Misc. rebar fixing and formworking for top slab	5	02JAN05	08JAN05	5d	0				
B7-034130	Concreting of top slab	1	12JAN05	12JAN05	0					
B7-034140	Curing	7	13JAN05	19JAN05	0					
B7-034020	Start Prestressing	0	20JAN05	28JAN05	0					
B7-034150	Post-tensioning of Bridge Deck	7	20JAN05	28JAN05	0					
B7-034160	Grouting	7	26JAN05	27JAN05	0					
B7-034170	Anchorage backfilling	1	27JAN05	05FEB05	6d	0				
B7-034030	Movement Joint	7	29JAN05	23FEB05	0					
B7-034190	Falsework dismantling	7	17FEB05	0	0					
<b>3.15.5 Falsework:</b>										
B7-035030	Retaining Wall No. 2	25	12NOV04 A	04DEC04	39d					
B7-035020	Retaining Wall No. 1	25	18NOV04 A	07DEC04	44d					
B7-035040	Retaining Wall No. 3	18	15JAN05	01FEB05	8d	0				
B7-035050	Drainage & Backfill	15	18JAN05	01FEB05	8d	0				
B7-035060	Movement Joint	7	23JAN05	28JAN05	9d	0				

Contract No. TP55/02  
Remaining Engineering Infrastructure Works  
for Pak Shak Kok Development Package 1  
REMAINING WORKS @ SECTION 3 & 4

Act ID	Description	Orig Dur	Early Start	Early Finish	2004			2005			JAN	FEB	MAR
					NOV	Total	Percent Complete	DEC	2005				
B7-036030	Road & Drainage Works	10 17FEB05		26FEB05		0	0						
B7-036050	Footway, Cycle Track, Paving	10 19FEB05		28FEB05		0	0						
B7-036060	Roadwork Furnitures & Miscellaneous	8 21FEB05		28FEB05		0	0						
B7-036040	Wearing Course	3 28FEB05		28FEB05		0	0						
<b>Section 4 - Waterworks in Areas 3, 4, &amp; 6</b>													
B7-037020	Demolition for Connection & Excavation	14 20JAN05		02FEB05		0	0						
B7-037030	Modification Works	20 27JAN05		22FEB05		0	0						
B7-037040	Drainage Works & Movement Joints	14 13FEB05		28FEB05		0	0						
B7-037050	Earth Works & Finishing	14 16FEB05		28FEB05		0	0						
<b>Section 4 - Washoutpit &amp; remaining works</b>													
B7-0424C23	Washoutpit & remaining works	18 05DEC04		23DEC04		0	0						

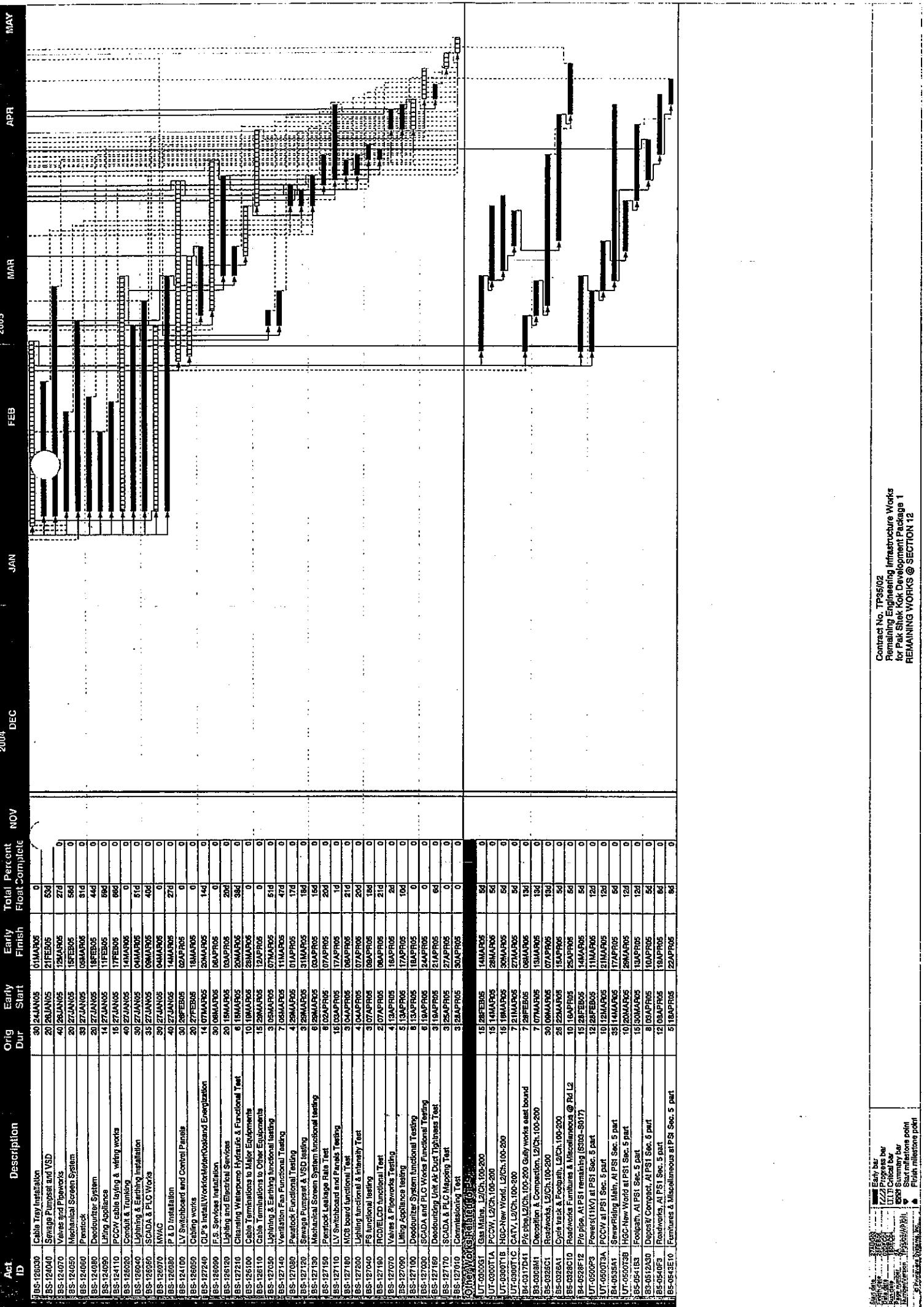
Contract No. TP35/02  
Remaining Engineering Infrastructure Works  
for Pak Shak Kok Development Package 1  
REMAINING WORKS @ SECTION 3 & 4

Legend:  
■ Early bar  
■ Progress bar  
□ Critical bar  
□ Summary bar  
▲ Start milestone point  
▼ Finish milestone point

**Section 12 - Works of Sewage Pumping Station No. 1**

Act ID	Description	Orig Dur	Early Start	Total Dur	Percent Complete	Nov	Dec	Jan	Feb	Mar	Apr	May
BS-121010	Assumption Date for ID-2120	0	0	30APR05	0	0	0	0	0	0	0	0
BS-120760	Preliminary Testing and Leakage Repair Works	25	02DEC04 A	22DEC04	0	0	0	0	0	0	0	0
BS-120720	Water-tightness Test for Group A	13	20DEC04	01JAN05	0	0	0	0	0	0	0	0
BS-120560	Water-tightness Test for Group B	13	01JAN05	14JAN05	0	0	0	0	0	0	0	0
BS-120710	Sump Removal & Backfilling around Dry Wall	42	20JUN05 A	13DECE04	14d	72	0	0	0	0	0	0
BS-121010	Scaffolding Erection for new Wall @ GL+5E	21	28DEC04	05JAN05	0	0	0	0	0	0	0	0
BS-121020	New Wall Construction @ GL+5E	8	09DEC04	17JAN05	0	0	0	0	0	0	0	0
BS-121030	Scaffolding Removal @ Switch room Area	2	15JAN05	17JAN05	0	0	0	0	0	0	0	0
BS-121040	Steelwork Extraction @ Switch Room Area	6	15JAN05	20JAN05	0	0	0	0	0	0	0	0
BS-120820	Insulation	20	01FEB05	15FEB05	0	0	0	0	0	0	0	0
BS-120770	Staircase & Platform Construction @ Dry Wall	23	28JUN04 A	20DEC04	24d	24	0	0	0	0	0	0
BS-120550	Buffer wall & Platform Construction @ New Wall A	7	02JAN05	21JAN05	0	0	0	0	0	0	0	0
BS-120260	Construct Internal Wall @ Screen Room A	5	02JAN05	08JAN05	0	0	0	0	0	0	0	0
BS-120890	Construct Internal Wall @ Screen Room B	6	15JAN05	21JAN05	0	0	0	0	0	0	0	0
BS-120780	Joint Chamber Construction	23	27NOV04 A	22DEC04	100d	18	0	0	0	0	0	0
BS-120700	Backfilling works after Watertightness Test	20	02JAN05	21JAN05	0	0	0	0	0	0	0	0
BS-120730	Shoring extraction	15	22JAN05	05FEB05	0	0	0	0	0	0	0	0
BS-120740	Expected CSD Inspection Building Works	9	27JAN05	01FEB05	0	0	0	0	0	0	0	0
BS-120810	Backfilling Works around PSt to Ground Level	16	01FEB05	27FEB05	0	0	0	0	0	0	0	0
BS-120310	Joint Chamber connection to PSt	0	01FEB05	22FEB05	0	0	0	0	0	0	0	0
BS-121050	Back main Chamber Construction	15	01FEB05	24JAN05	0	0	0	0	0	0	0	0
BS-120750	Construct Boundary Wall	15	11APR05	25APR05	0	0	0	0	0	0	0	0
BS-120840	Roof Finishing	30	01DEC04 A	27DEC04	30d	14	0	0	0	0	0	0
BS-120220	Caling, Cleaning & Painting	11	02DEC04 A	12DEC04	7d	5	0	0	0	0	0	0
BS-121000	Combining of Print Workshop/Indoor Lurene revisions	0	13DEC04	13DEC04 *	0	0	0	0	0	0	0	0
BS-120830	Wax Finishing	7	13DEC04	18DEC04	0	0	0	0	0	0	0	0
BS-120840	Wall Painting	3	20DEC04	22DEC04	0	0	0	0	0	0	0	0
BS-120550	Platform Removal @ Letting Bay	6	25DEC04	27DEC04	0	0	0	0	0	0	0	0
BS-120860	Boat Removal / Toilet Slab/Wall/Plastering / Tap Paint	14	24DEC04	TOURANS	6d	0	0	0	0	0	0	0
BS-120870	New/sedif Wall Washout	20	28DEC04	18JAN05	0	0	0	0	0	0	0	0
BS-120850	Backwash at GL (7 days coding)	20	28DEC04	25JAN05	0	0	0	0	0	0	0	0
BS-120890	Finishing on these Walls	10	15JAN05	25JAN05	0	0	0	0	0	0	0	0
BS-121060	Handover to E&M Works @ Loading Area	0	25JAN05	25JAN05	0	0	0	0	0	0	0	0
BS-120800	Finishing of New Wall @ GL+4/SI	8	07JAN05	12JAN05	0	0	0	0	0	0	0	0
BS-120850	External Finishing Works for Fridge gallery & Washroom	12	07FEB05	07FEB05	0	0	0	0	0	0	0	0
BS-120840	External Finishing Works	30	01FEB05	14MARS	47d	0	0	0	0	0	0	0
BS-120820	Pipe Trunk Construction @ Dry Wall	15	21DEC04	21JAN05	24d	0	0	0	0	0	0	0
BS-120840	Epoxy platform & Finishing works @ Dry Wall	21	25JAN05	25JAN05	0	0	0	0	0	0	0	0
BS-120850	Mass concrete/Platform construction @ Screen Room A	5	07JAN05	11JAN05	0	0	0	0	0	0	0	0
BS-120870	Backwash Blair @ Wet Wall A & Finishing	2	10JAN05	12JAN05	0	0	0	0	0	0	0	0
BS-120890	Mass concrete/Platform construction @ Screen Room B	5	12JAN05	25JAN05	0	0	0	0	0	0	0	0
BS-120880	Backwash Blair @ Wet Wall B & Finishing	2	15JAN05	25JAN05	0	0	0	0	0	0	0	0
BS-120850	Expected availability of fresh/salt water supply	0	01DEC04	01DEC04	94d	0	0	0	0	0	0	0
BS-120800	CIP Inspection for Meter Rost	0	02DEC04	02DEC04	0	0	0	0	0	0	0	0
BS-121220	CIP Final Inspection of Meter Rost	0	03DEC04	03DEC04	0	0	0	0	0	0	0	0
BS-120820	Water Purification Wm06-8 Part IV	0	04DEC04	04DEC04	0	0	0	0	0	0	0	0
BS-120810	Electrical WRI Submission	0	01MARS	11MARS	11d	0	0	0	0	0	0	0
BS-120720	CIP Erection	0	01MARS	11MARS	11d	0	0	0	0	0	0	0
BS-120830	Expected WSD Inspection for Other Works	0	02MARS	22MARS	20d	0	0	0	0	0	0	0
BS-120840	Expected DSD Inspection for Service Pump & VSD	0	01APR05	23MARS	23d	0	0	0	0	0	0	0
BS-121010	Expected DSD Inspection for Piping	0	02APR05	22MARS	22d	0	0	0	0	0	0	0
BS-121190	WPS Final Inspection	0	02APR05	23MARS	23d	0	0	0	0	0	0	0
BS-121010	Expected DSD Inspection for Mech. Screen Syst.	0	03APR05	24MARS	21d	0	0	0	0	0	0	0
BS-121010	Expected DSD Inspection for Other Works	0	03APR05	24MARS	21d	0	0	0	0	0	0	0
BS-120850	PSt, Submission	0	04APR05	04APR05	0	0	0	0	0	0	0	0
BS-121210	Expected DSD Inspection for Decarbonizer System	0	04APR05	04APR05	0	0	0	0	0	0	0	0
BS-121010	Expected FSD Inspection	0	05APR05	05APR05	0	0	0	0	0	0	0	0
BS-121010	FSD Final Inspection	0	06APR05	06APR05	0	0	0	0	0	0	0	0
BS-120810	Survey of Civil As-built	0	07DEC04	13JUL	10	0	0	0	0	0	0	0

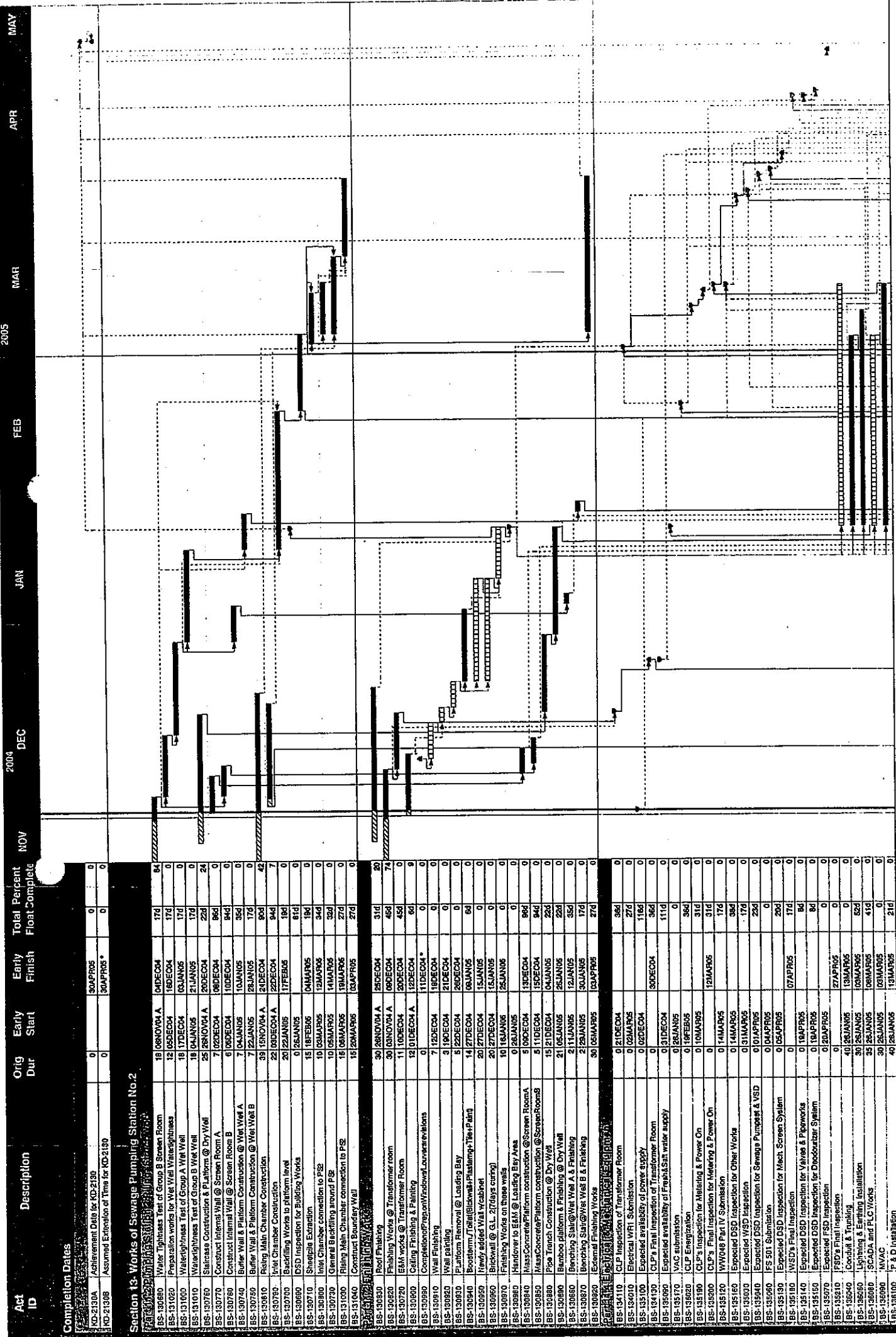
Contract No. TPS/02  
Remaining Engineering Infrastructure Works  
for Pak Sheik Kok Development Project 1  
REMAINING WORKS @ SECTION 12



Legend:

- Bar: Early bar
- Progress bar: Progress bar
- Horizontal line: Critical bar
- Vertical line: Summary bar
- Point: Start/End point
- Circle: Finish/Intermediate point
- Text: Description

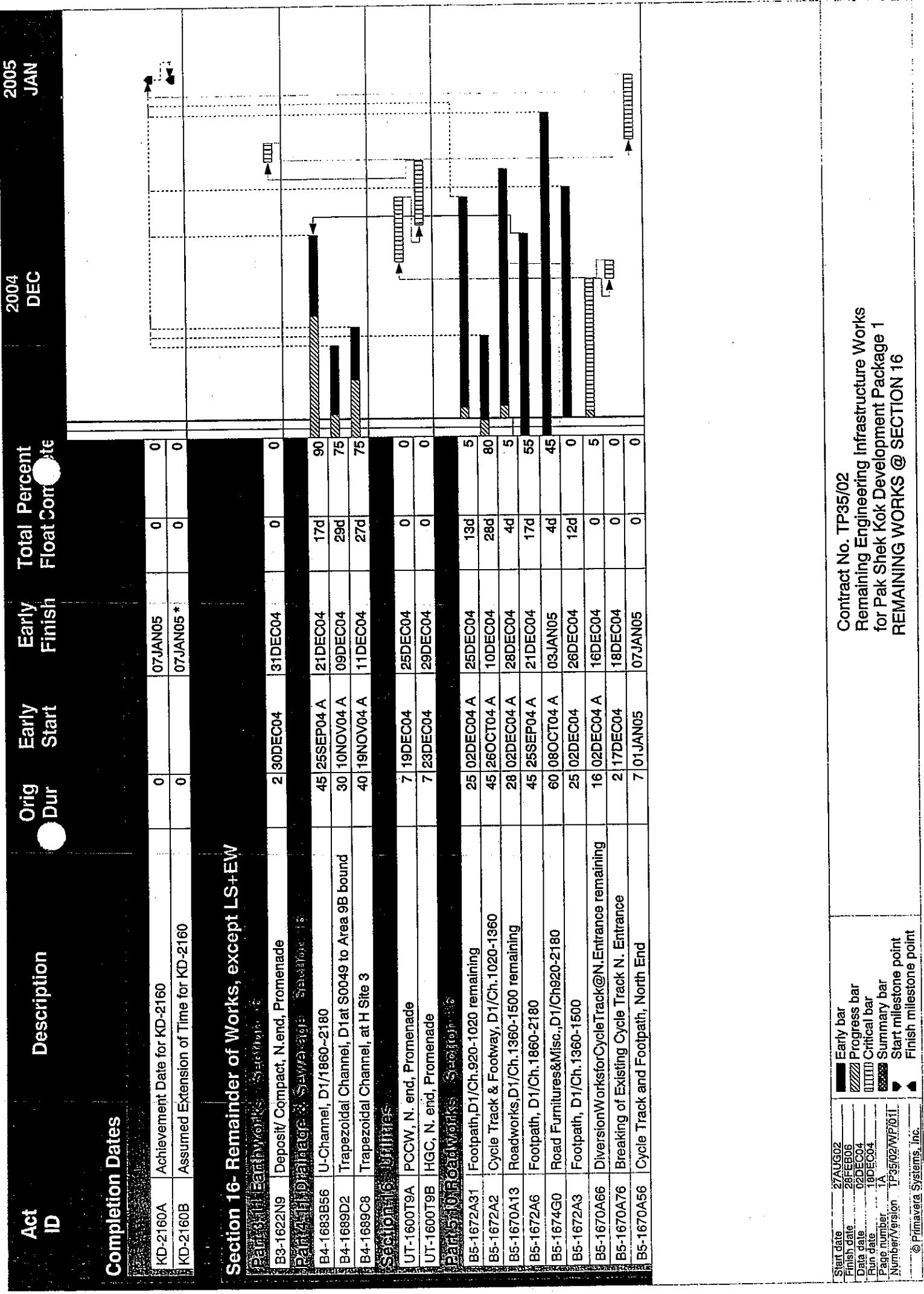
Contract No. T935/02  
Remaining Engineering Infrastructure Works  
for Pak Shak Kok Development Package 1  
REMAINING WORKS @ SECTION 12

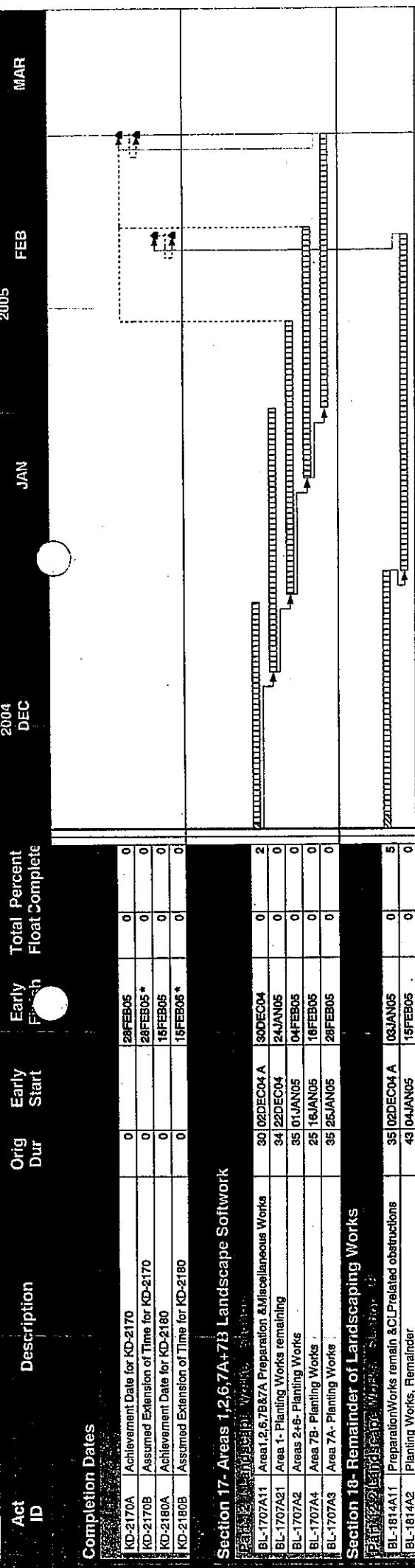


Contact No. TP3502  
Remaining Engineering Infrastructure Works  
for Pak Shak Kok Development Package 1  
REMAINING WORKS @ SECTION 13

Contract No. TP35/02  
Remaining Engineering Infrastructure Works  
for Pak Shek Kok Development Package 1  
REMAINING WORKS @ SECTION 13

Start	2015-01-01	Early bar
End date	2015-01-05	ZZZ Progress bar
Due date	2015-01-05	TTT Critical bar
Not due	2015-01-05	BBB Summary bar
Not started	2015-01-01	Start milestone point!
In progress	2015-01-01	End milestone point!





Contract No. TP35/02  
Remaining Engineering Infrastructure Works  
for Pak Shek Kok Development Package 1  
REMAINING WORKS @ SECTION 17 & 18

Legend:

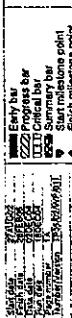
- Early bar
- Progress bar
- Critical bar
- Summary bar
- Start milestone point
- Finish milestone point

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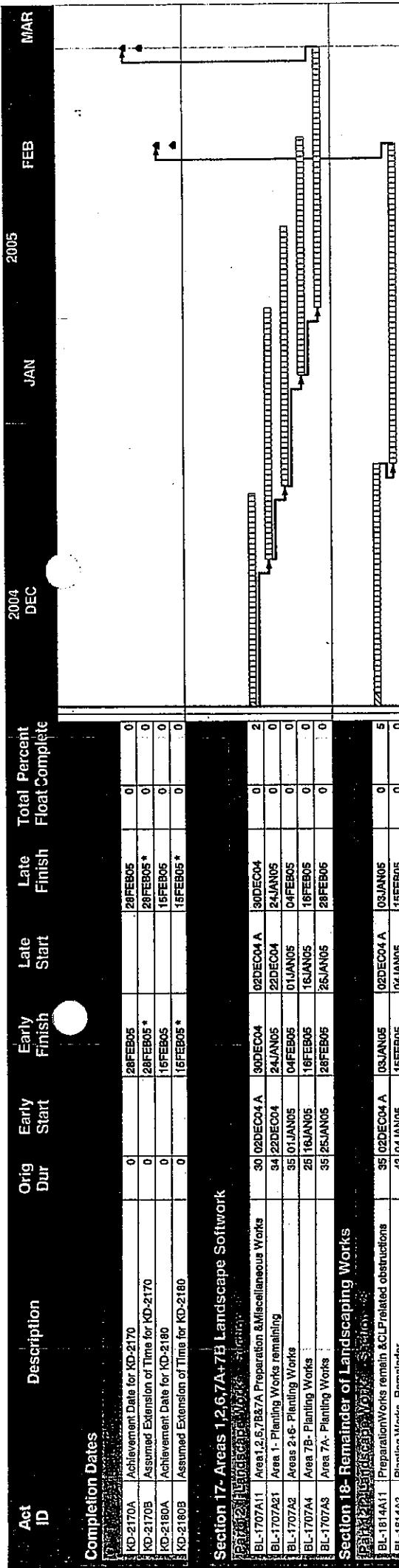
**Session 12: Works of Sawang Pumping Station No. 1**

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Duration	Percent Complete
KD-2120A	Achievement Date for XD-2120	0	30APR05	30APR05*	30APR05	30APR05	0	0
KD-2120B	Assumed Extension of Time for XD-2120	0	30APR05*	30APR05*	30APR05*	30APR05*	0	0
<b>Completion Dates</b>								
BS-12080	Completion of Project	0	15JAN05	15JAN05	15JAN05	15JAN05	0	0
BS-120760	Preliminary Testing and Landmark Repair Work	25	02DEC04 A	25DEC04	02DEC04 A	25DEC04	5	5
BS-120720	Waterhouse Test for Group A	13	20DEC04	01JAN05	02JAN05	01JAN05	0	0
BS-120680	Waterhouse Test for Group B	13	01JAN05	14JAN05	02JAN05	14JAN05	0	0
BS-120640	Staffing, Erection for new Wall @ GL4-5E	2	25DEC04	26DEC04	26DEC04	26DEC04	0	0
BS-120610	Construction of GL4-5E	8	03DEC04	30DEC04	30DEC04	01JAN05	0	0
BS-120600	Switch Room Area	2	15JAN05	16JAN05	15JAN05	15JAN05	0	0
BS-120590	Switch Room Area @ Switch Room Area	6	15JAN05	20JAN05	15JAN05	20JAN05	0	0
BS-120580	Sheath Extraction @ Switch Room Area	20	20JAN05	10FEB05	20JAN05	10FEB05	0	0
BS-120570	Inspection Gallery & Switchroom construction	10	10FEB05	20FEB05	10FEB05	20FEB05	0	0
BS-120560	Completion of Inspection Gallery & Switchroom	10	20FEB05	01MAR05	20FEB05	01MAR05	0	0
BS-120550	Completion of Inspection Gallery & Switchroom	0	01MAR05	12DEC04*	12DEC04	12DEC04	0	0
BS-120540	Wall Painting	3	10DEC04	22DEC04	10DEC04	22DEC04	0	0
BS-120530	Platform Removal @ Landing Bay	5	20DEC04	25DEC04	20DEC04	25DEC04	0	0
BS-120520	Newly Active Wall Weakening	20	20DEC04	15JAN05	20DEC04	15JAN05	0	0
BS-120510	Brickwork at GL2 (7 days cutting)	20	20DEC04	16JAN05	20DEC04	16JAN05	0	0
BS-120500	Fringing on brick walls	10	11JAN05	25JAN05	11JAN05	25JAN05	0	0
BS-120490	Handover to E&M Works @ Landing Area	0	25JAN05	27JAN05	25JAN05	27JAN05	0	0
BS-120480	Fringing of New Wall @ GL4-5E	6	01JAN05	12JAN05	01JAN05	12JAN05	0	0
BS-120470	Fringing Works for Insulation & Switchroom	12	15FEB05	27FEB05	15FEB05	27FEB05	0	0
BS-120460	Final Submission	0	07APR05	07APR05	07APR05	07APR05	0	0
BS-120450	FS-125 Submission	0	07APR05	07APR05	07APR05	07APR05	0	0
BS-120470	Expected FSD Inspections	0	07APR05	07APR05	07APR05	07APR05	0	0
BS-125170	FSB Final Inspection	0	07APR05	07APR05	07APR05	07APR05	0	0
BS-125170	Cable & Control Panels	0	07APR05	07APR05	07APR05	07APR05	0	0
BS-125170	LV Switchboard and Control Panels	30	21JAN05	01MAR05	21JAN05	01MAR05	0	0
BS-125170	Cable & Trunking	49	21JAN05	14MAR05	21JAN05	14MAR05	0	0
BS-125170	HV AC	39	21JAN05	04MAR05	21JAN05	04MAR05	0	0
BS-125170	LV Switchboard and Control Panels	30	21JAN05	02FEB05	21JAN05	02FEB05	0	0
BS-125170	Cabling works	20	21JAN05	18MAR05	21JAN05	18MAR05	0	0
BS-125170	I.S. Services Installation	30	01MAR05	03MAR05	01MAR05	03MAR05	0	0
BS-125170	Cable Terminations to Motor Equipments	10	01MAR05	12MAR05	01MAR05	12MAR05	0	0
BS-125170	Cable Terminations to Other Equipments	15	12MAR05	12APR05	12MAR05	12APR05	0	0
BS-125170	Deactivation System Functional Testing	8	01APR05	12APR05	01APR05	12APR05	0	0
BS-125170	SCADA and PLC Works Functional Testing	6	01APR05	24APR05	01APR05	24APR05	0	0
BS-125170	SCADA & PLC Mapping Test	3	01APR05	25APR05	01APR05	25APR05	0	0
BS-125170	SCADA & PLC Mapping Test	0	01APR05	27APR05	01APR05	27APR05	0	0

Contract No. TP35/02  
Resettlement Engineering Infrastructure Works  
for Pak Shek Kok Development Package 1  
Critical Path on Section 12



**Contract No. TP35/02**  
**Remaining Engineering Infrastructure Works**  
**for Pak Shek Kok Development Package 1**  
**Critical Path on Section 3**



Contract No. TP35/02  
Renovating Engineering Infrastructure Works  
for Pak Shek Kok Development Package 1  
Critical Path on Section 17, 18

Start date	24 NOV 04	Early bar
End date	02 DEC 04	Progress bar
Due date	02 DEC 04	Critical bar
Phase number	1A	Summary bar
Phase duration	7 days	Start milestone point
Phase duration	7 days	Finish milestone point

**Contract Award & Commencement**

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
KD-1000	Contract Duration		1282 *	27AUG02 A	28FEB08	27AUG02 A	28FEB06	0
KD-1010	Contract Award & Commencement	0	27AUG02 A		27AUG02 A		100	65

**Completion Dates**

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
KD-2212	Land Strip @E of ISRE Office/N of School Site	0		14NOV02 A		14NOV02 A	100	100
KD-2212A	Achievement Date of KD-2212	0		14NOV02 A		14NOV02 A	100	100
KD-2080	Section 8- Works In Area 10B	0		06DEC02 A		06DEC02 A	100	100
KD-2080A	Achievement Date of KD-2080	0		06DEC02 A		06DEC02 A	100	100
KD-2140	Section 14- Work In Area 14	0		07APR03 A		07APR03 A	100	100
KD-2140A	Achievement Date of KD-2140	0		07APR03 A		07APR03 A	100	100
KD-2213	Land Strip around Housing Site 1	0		15MAY03 A		15MAY03 A	100	100
KD-2213A	Achievement Date of KD-2213	0		15MAY03 A		15MAY03 A	100	100
KD-2080	Section 9- Works In Area 5	0		23JUL03 A		23JUL03 A	100	100
KD-2080B	Assumed Ext. of Time for Section 9-Works In Area 5	0		23JUL03 A		23JUL03 A	100	100
KD-2080A	Achievement Date for KD-2080	0		23JUL03 A		23JUL03 A	100	100
KD-2070	Sec 7-Area 8A,not Rd.work/Area 10A-not Sec.10&11	0		09AUG03 A		09AUG03 A	100	100
KD-2070A	Achievement Date for KD-2070	0		09AUG03 A		09AUG03 A	100	100
KD-2211	Land Strip South of Area 8A	0		09AUG03 A		09AUG03 A	100	100
KD-2211A	Achievement Date for KD-2211	0		09AUG03 A		09AUG03 A	100	100
KD-2110	Sec 11- Area 10A Piping Culvert 10A Earthwork+Works	0		10NOV03 A		10NOV03 A	100	100
KD-2110A	Achievement Date for KD-2110	0		10NOV03 A		10NOV03 A	100	100
KD-2214	Land Strip around Housing Sites 2 & 3	0		18NOV03 A		18NOV03 A	100	100
KD-2214A	Achievement Date for KD-2214	0		18NOV03 A		18NOV03 A	100	100
KD-2010	Section 1- Works In Area 1, except LS & EW	0		09MAR04 A		09MAR04 A	100	& EW
KD-2010A	Achievement Date for KD-2010	0		09MAR04 A		09MAR04 A	100	
KD-2010B	Assumed Extension of Time for Area 1	0		09MAR04 A		09MAR04 A	100	1
KD-2100	Sec 9+10/Areas 8A&10A Roadwork,not	0		29MAY04 A		29MAY04 A	100	100
KD-2100A	Achievement Date for KD-2100	0		29MAY04 A		29MAY04 A	100	or KD-2100
KD-2100B	Assumed Extension of Time for Section 10	0		29MAY04 A		29MAY04 A	100	Time for Section 10
KD-2060	Section 6- Works In Area 7B, except LS & EW	0		31MAY04 A		31MAY04 A	100	Area 8A& 10A Roadwork,not LS+EW
KD-2060A	Achievement Date for KD-2060(Affected by corr.pipe)	0		30APR04 A		30APR04 A	100	Area 7B, except LS & EW
KD-2060B	Assumed Extension of Time for Area 7B	0		31MAY04 A		31MAY04 A	100	(Affected by corr.pipe)
KD-2060C	Subst Completion of Area B not affected by corr.pipe	0		31MAY04 A		31MAY04 A	100	100
KD-2020	Section 2- Works Area 2, except LS & EW	0		17MAY04 A		17MAY04 A	100	Time for Area 7B not affected by corr.pipe
KD-2020A	Achievement Date for KD-2020	0		17MAY04 A		17MAY04 A	100	
KD-2020B	Assumed Extension of Time for Area 2	0		17MAY04 A		17MAY04 A	100	a 2
KD-2040	Section 4- Waterworks In Areas 3, 4 & 6	0		01DEC04 *		26MAY04 *	-189d	0
KD-2040A	Achievement Date for KD-2040	0		23DEC04		23DEC04	0	
KD-2040B	Assumed Extension of Time for KD-2040	0		23DEC04 *		23DEC04 *	0	▲ Assumed Extension of Time for KD-2040
KD-2150	Section 15- Waterworks In Area 15	0		01DEC04 *		14JUL04 *	-140d	0
KD-2150A	Achievement Date for KD-2150	0		04DEC04 A		04DEC04 A	100	Section 5- Waterworks In Area 15
KD-2150B	Assumed Extension of Time for KD-2150	0		04DEC04 A		04DEC04 A	100	▲ Achievement Date for KD-2150
KD-2150B10	Achievement Date for KD-2150 not affected by V0/073	0		04DEC04 A		04DEC04 A	100	▲ Achievement Date for KD-2150 not affected by V0/073
KD-2050	Section 5- Work In Area 7A,except P.Sln.1, LS&EW	0		01DEC04 *		16SEP04 *	-76d	0
KD-2050A	Achievement Date for KD-2050	0		16OCT04 A		16OCT04 A	100	Section 5- Work In Area 7A,except P.Sln.1, LS&EW
KD-2050B	Assumed Ext. of Time for Section 5	0		16OCT04 A		16OCT04 A	100	▲ Achievement Date for KD-2050
KD-2030	Section 3- Works In Areas 3,4+6,except Sec4+LS&EW	0		04FEB05 *		04FEB05 *	0	▲ Section 3- Works In Areas 3,4+6,except Sec4+LS&EW
KD-2030A	Achievement Date for KD-2030	0		28FEB05		28FEB05	0	▲ Achievement Date for KD-2030
KD-2030B	Assumed Ext. of Time for Section 3	0		28FEB05 *		28FEB05 *	0	▲ Assumed Ext. of Time for Section 3

Start date 27JUL02 Early bar  
 End date 26SEP04 Proprietary bar  
 Run time 18CET04 Critical bar  
 Page number 1/11 Summary bar  
 Number 175800 Revision 1 Point  
 © Primavera Systems, Inc. Finish milestone point

Contract No. TP35/02  
 Remaining Engineering Infrastructure Works  
 for Pak Shak Kok Development Package 1  
 REVISED WORKS PROGRAMME I

Date 01JUL04 Revision G  
 07JUL04 Revision G  
 04OCT04 Revision H  
 17OCT04 Revision I  
 Checked Approved  
 W W W W  
 W W W W  
 W W W W  
 W W W W



Act ID	Description	2004						2005																			
		Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
B1-0103E1	Operate/ maintain Mobile Phones, 4hr	1020	03SEP02 A	105	03SEP02 A	28FEB06	260d	81																			
B1-0107D0	Update Waste Management Plan	1080	03SEP02 A	08AUG05	03SEP02 A	28FEB06	208d	7																			
B1-0107E0	Implement & Monitor Waste Management Plan	1080	03SEP02 A	06AUG05	03SEP02 A	28FEB06	208d	7																			
B1-0102A0	Provide 4-wheel drive vehicle, 2 hr	5	05SEP02 A	08SEPMAY05	05SEP02 A	05SEP02 A	100																				
B1-0102B0	Operate & maintain 4-wheel drive vehicle, 2 hr	1001	05SEP02 A	30MAY05	05SEP02 A	20NOV05	174d	82																			
B1-0108B01	Site Clearance-Zones A, B2,C,D,E,F,J,L,N2,Q&S1	30	05SEP02 A	15OCT02 A	05SEP02 A	15OCT02 A	100																				
B1-0101F1	Provide measures-Traffic flow maint. S1/ZoneF, B2	14	10SEP02 A	23SEP02 A	10SEP02 A	23SEP02 A	100																				
B1-0101F3	Provide measures- Traffic flow maint. S5j/ Zone F	14	10SEP02 A	28SEP02 A	10SEP02 A	23SEP02 A	100																				
B1-0101G0	Maintain/remove measures for traffic flow	1140	10SEP02 A	28OCT05	10SEP02 A	28FEB06	123d	71																			
B1-0103I3	Construct W/Washing Facilities, WB3 at Zone N2	15	26SEP02 A	10OCT02 A	26SEP02 A	10OCT02 A	100																				
B1-0102B2	Site Clearance- Zones R & S1	2	27SEP02 A	26SEP02 A	27SEP02 A	26SEP02 A	100																				
B1-0102D0	Progress Photographs, 30hr	900	01OCT02 A	19MARS	01OCT02 A	12AUG05	14d	88																			
B1-0106A0	Provide Baseline Air Monitoring	14	02OCT02 A	17OCT02 A	02OCT02 A	17OCT02 A	100																				
B1-0108B15	General Site Clearance	1080	05OCT02 A	15MARCH04 A	05OCT02 A	15MARCH04 A	100																				
B1-0101E4	T/O measures-Traffic flow maintenance, Zone S1	2	09OCT02 A	10OCT02 A	09OCT02 A	10OCT02 A	100																				
B1-0105N0	Maintain Noise Monitoring	1118	08OCT02 A	02DEC04 A	08OCT02 A	02DEC04 A	100																				
B1-0103J3	Maintain W/Washing Facilities, WB3 at Zone N2	700	11OCT02 A	30APR04 A	11OCT02 A	30APR04 A	100																				
B1-0105K0	Maintain Air Monitoring	1104	10OCT02 A	02DEC04 A	10OCT02 A	02DEC04 A	100																				
B1-0105M0	Provide Baseline Noise Monitoring	14	16OCT02 A	18OCT02 A	16OCT02 A	16OCT02 A	100																				
B1-0101D4	Erect Contractor's Site Accommodation	60	01NOV02 A	28NOV02 A	01NOV02 A	28NOV02 A	100																				
B1-0101A0	Erect Engineer's Site Accommodation	60	14NOV02 A	01DEC02 A	14NOV02 A	01DEC02 A	100																				
B1-0104E0	Concrete Paving to Engineer's Site Accommodation	21	14NOV02 A	14NOV02 A	14NOV02 A	14NOV02 A	100																				
B1-0103C1	Erect Temporary Gate, 6mWx1.8mH at Zone A	21	26NOV02 A	16DEC02 A	26NOV02 A	16DEC02 A	100																				
B1-0103C2	Erect Temporary Gate, 6mWx1.8mH at Zone Q	21	28NOV02 A	18DEC02 A	28NOV02 A	18DEC02 A	100																				
B1-0103C3	Erect Temporary Gate, 6mWx1.8mH at SRE Office	21	26NOV02 A	16DEC02 A	26NOV02 A	16DEC02 A	100																				
B1-0103D2	Provide Mobile Phones, 3hr	7	26NOV02 A	02DEC02 A	26NOV02 A	02DEC02 A	100																				
B1-0107K0	Take over Ex/Cyclist/Ped.Bridge at Zone H	1	26NOV02 A	26NOV02 A	26NOV02 A	26NOV02 A	100																				
B1-0108B3	Site Clearance- Zone B1	2	26NOV02 A	27NOV02 A	27NOV02 A	27NOV02 A	100																				
B1-0107L0	Maintain Ex/Cyclist/Ped.Bridge at Zone H	392	07JUN03 A	07JUN04 A	27NOV02 A	07JUN04 A	100																				
B1-0103E2	Operate/ maintain Mobile Phones, 3hr	1020	03DEC02 A	20SEP04 A	03DEC02 A	03DEC02 A	100																				
B1-0101D3	Demolish Contractor's Temp. Site Offices	14	09DEC02 A	11DEC02 A	09DEC02 A	11DEC02 A	100																				
B1-0101D5	Servicing Contractor's Site Accommodation	1045	16DEC02 A	20SEP04 A	16DEC02 A	20SEP04 A	100																				
B1-0101B0	Servicing Engineer's Site Accommodation	1037	25DEC02 A	20SEP04 A	25DEC02 A	20SEP04 A	100																				
B1-0101E1	T/O measures-Traffic flow maintenance, Rest	14	26DEC02 A	28SEP03 A	26DEC02 A	28SEP03 A	100																				
B1-0101E3	T/O measures-Traffic flow maintenance, Zone P	2	26DEC02 A	27DEC02 A	26DEC02 A	27DEC02 A	100																				
B1-0102C2	Install computer facilities for Engineer	45	30DEC02 A	25JAN03 A	30DEC02 A	25JAN03 A	100																				
B1-0101D6	Provide measures-Traffic flow maint. S16/Zone P	14	15JAN03 A	21JAN03 A	21JAN03 A	21JAN03 A	100																				
B1-0101E2	T/O measures-Traffic flow maintenance, Zone G	2	24JAN03 A	25JAN03 A	24JAN03 A	25JAN03 A	100																				
B1-0101F2	Provide measures-Traffic flow maint. S3/Zone G	14	27JAN03 A	01APR03 A	27JAN03 A	01APR03 A	100																				
B1-0101F4	Provide measures-Traffic flow maint. S16/Zone G	14	27JAN03 A	08APR03 A	27JAN03 A	08APR03 A	100																				
B1-0108B6	Site Clearance- Zone S3 & J Rust	5	07MAY03 A	20MAY03 A	07MAY03 A	20MAY03 A	100																				
B1-0108B9	Site Clearance- Zone P	5	20MAY03 A	30APR03 A	20MAY03 A	30APR03 A	100																				
B1-0108B6	Site Clearance- Zone G	3	20MAY03 A	30MAY03 A	20MAY03 A	30MAY03 A	100																				
B1-0101E5	T/O measures-Traffic flow maintenance, Zone S3	2	27MAY03 A	28MAY03 A	27MAY03 A	28MAY03 A	100																				
B1-0103F6	Remove W/Washing Facilities, Existing @ Zone A	15	28MAY03 A	14APR03 A	28MAY03 A	14APR03 A	100																				
B1-0101F5	Provide measures-Traffic flow maint. S16/ZoneS3	14	29MAY03 A	11APR03 A	29MAY03 A	11APR03 A	100																				
B1-0108B07	Site Clearance- Zones N1 & T	6	05APR03 A	10APR03 A	05APR03 A	10APR03 A	100																				
B1-0103I5	Construct W/Washing Facilities, WB5 at Zone A	15	07APR03 A	27APR03 A	07APR03 A	27APR03 A	100																				
B1-0103AL	Erect Barricade at Zone L	30	11APR03 A	28APR03 A	11APR03 A	28APR03 A	100																				
B1-0103B3	Erect Signboard, 1mr at SRE Site Office	21	26APR03 A	28MAY03 A	26APR03 A	28MAY03 A	100																				
B1-0103J5	Maintain W/Washing Facilities, WB5 at Zone A	480	28APR03 A	31MAY04 A	28APR03 A	31MAY04 A	100																				
B1-0103K5	Remove W/Washing Facilities, WB5 at Zone A	15	29APR03 A	08MAY03 A	29APR03 A	08MAY03 A	100																				
B1-0107H0	Take over Ex/Cyclist/Pedestrian Bridge@N.RoundA	1	20MAY03 A	20MAY03 A	20MAY03 A	20MAY03 A	100																				
B1-0107I0	Maintain Ex/Cyclist/Pedestrian Bridge@N.RoundA	320	21MAY03 A	26JUN04 A	21MAY03 A	26JUN04 A	100																				
Start Date																											
Finish Date																											
Duration																											
Progress																											
Actual Progress																											
Remaining Work																											
Remaining Work																											
Remaining Work																											







2006										
2005										
Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete	2004	
									SEP	OCT
B7-034080	Strands threading to tendon ducts	10 02/JAN/05	005	02/JAN/05	11JAN05	0	0	0	2004	
B7-034120	Misc. rebar fixing and formworking for top slab	5 02/JAN/05	07JAN05	11JAN05	5d	0	0	0	2004	
B7-034130	Concreting of top slab	1 12/JAN/05	12JAN05	12JAN05	0	0	0	0	2004	
B7-034140	Curing	7 13/JAN/05	19JAN05	13JAN05	0	0	0	0	2004	
B7-034020	Start Prestressing	0 20/JAN/05	20/JAN/05	20/JAN/05	0	0	0	0	2004	
B7-034150	Post-tensioning of Bridge Deck	7 20/JAN/05	28JAN05	20/JAN/05	26JAN05	0	0	0	2004	
B7-034160	Grouting	7 20/JAN/05	26JAN05	20/JAN/05	26JAN05	0	0	0	2004	
B7-034170	Anchorage backfilling	1 27/JAN/05	27JAN05	27JAN05	0	0	0	0	2004	
B7-034030	Movement Joint	7 30/JAN/05	05FEB05	05FEB05	0	0	0	0	2004	
B7-034190	Falsework dismantling	7 17FEB05	23FEB05	17FEB05	23FEB05	0	0	0	2004	
<b>Section 4- Waterworks - Section 4, Areas 3 &amp; 4</b>										
B7-035000	Road D1 Bridge Retaining Walls	92* 02/NOV/04 A	01FEB05	02NOV04 A	18FEB05	8d	33	0	2004	
B7-035030	Retaining Wall No. 2	25 02/NOV/04 A	04DEC04	02NOV04 A	12JAN05	39d	89	0	2004	
B7-035020	Retaining Wall No. 1	25 1BNOV04 A	07DEC04	18NOV04 A	20JAN05	44d	76	0	2004	
B7-035040	Retaining Wall No. 3	18 13/JAN/05	30JAN05	21JAN05	14FEB05	8d	0	0	2004	
B7-035050	Drainage & Backfill	15 18/JAN/05	01FEB05	26JAN05	16FEB05	8d	0	0	2004	
B7-035060	Movement Joint	7 23/JAN/05	01FEB05	14FEB05	9d	0	0	0	2004	
<b>Section 4- Waterworks - Section 4, Areas 3 &amp; 4</b>										
B7-036000	Road D1 Bridge Finishing Works	12* 17FEB05	28FEB05	17FEB05	28FEB05	0	0	0	2004	
B7-036030	Road & Drainage Works	10 17FEB05	26FEB05	17FEB05	26FEB05	0	0	0	2004	
B7-036050	Footway, Cycle Track, Paving	10 19FEB05	28FEB05	18FEB05	28FEB05	0	0	0	2004	
B7-036060	Roadwork Furnitures & Miscellaneous	8 21FEB05	28FEB05	21FEB05	28FEB05	0	0	0	2004	
B7-036040	Wearing Course	3 26FEB05	28FEB05	26FEB05	28FEB05	0	0	0	2004	
<b>Section 4- Waterworks - Section 4, Areas 3 &amp; 4</b>										
B7-037000	Modification of PSK Bridge	33* 20JAN/05	28FEB05	20JAN/05	28FEB05	0	0	0	2004	
B7-037020	Demolition for Connection & Excavation	14 20JAN/05	02FEB05	20JAN/05	02FEB05	0	0	0	2004	
B7-037030	Modification Works	20 27JAN/05	22FEB05	27JAN/05	22FEB05	0	0	0	2004	
B7-037040	Drainage Works & Movement Joints	14 13FEB05	28FEB05	13FEB05	26FEB05	0	0	0	2004	
B7-037050	E&M Works & Finishing	14 15FEB05	28FEB05	15FEB05	28FEB05	0	0	0	2004	
<b>Section 4- Waterworks - Section 4, Areas 3 &amp; 4</b>										
B6-040000	Waterworks - Section 4, Areas 3 & 4	563* 02/JUN/04 A	23DEC04	02JUN/03 A	23DEC04	0	98	0	2004	
B6-042440	Trial Pits	14 02JUN/04 A	20JUN/04 A	02JUN/03 A	20JUN/04 A	100	0	0	2004	
B6-0425H0	Watermains Across YauKingLane@Area4 chamber	25 25SEP03 A	02DEC03 A	25SEP03 A	02DEC03 A	100	0	0	2004	
B6-0425H20	Preparation works for pipe laying across YKL	62 03DEC03 A	08FEB04 A	03DEC03 A	08FEB04 A	100	0	0	2004	
B6-0124C4	Waterworks, under footpath at Area 4 beside OC	35 07APR04 A	17APR04 A	07APR04 A	17APR04 A	100	0	0	2004	
B6-0424C5	Hyder's redesign phase at Area 4	30 18APR04 A	15MAY04 A	18APR04 A	15MAY04 A	100	0	0	2004	
B6-0424C6	Preparation works for watermain	10 18MAY04 A	02JUN04 A	18MAY04 A	02JUN04 A	100	0	0	2004	
B6-0425H10	Watermain Across YauKingLane at Area 4 remaining	5 03JUN/04 A	04AUG04 A	03JUN/04 A	04AUG04 A	100	0	0	2004	
B6-0425H20	Procure & Manufacture/g of new fittings for V0/288	48 03JUN/04 A	20JUL04 A	03JUN/04 A	20JUL04 A	100	0	0	2004	
B6-0424C17	Delivery of fittings	55 21JUL04 A	07AUG04 A	21JUL04 A	07AUG04 A	100	0	0	2004	
B6-0424C7	Waterworks under footpath at Area 4 remaining	25 13SEP04 A	28OCT04 A	13SEP04 A	28OCT04 A	100	0	0	2004	
B6-0424C13	Reprocurement of Stolen Fittings	30 22SEP04 A	25OCT04 A	22SEP04 A	25OCT04 A	100	0	0	2004	
B6-0424C3	Waterworks under footpath at Area 3	20 05OCT04 A	04DEC04	05OCT04 A	04DEC04	85	0	0	2004	
B6-0424C23	Washoutpit & remaining works	19 05DEC04	05DEC04	05DEC04	05DEC04	0	0	0	2004	
<b>Part 6- Waterworks - Section 4, Areas 3 &amp; 4</b>										
B6-040060	Waterworks - Section 4, Area 6	497* 08JUL03 A	24NOV04 A	08JUL03 A	24NOV04 A	100	0	0	2004	
B6-041060	Trial Pits	14 03JUL03 A	12JUL03 A	03JUL03 A	12JUL03 A	100	0	0	2004	
B6-0417C12	Replace Existing Watermain, D1/Ch.870-920	25 03JUL03 A	15JAN04 A	03NOV03 A	15JAN04 A	100	0	0	2004	
B6-0417C22	Realigned Existing Watermain Connection by WSD	32 03FEB04 A	23FEB04 A	03FEB04 A	23FEB04 A	100	0	0	2004	
B6-0417C1	Waterworks, L2/Ch.100-200	26 05MAY04 A	02MAY04 A	05MAY04 A	02MAY04 A	100	0	0	2004	
B6-0417C9	Waterworks, D1/Ch.780-920 phase 1	28 06MAY04 A	17JUL04 A	06MAY04 A	17JUL04 A	100	0	0	2004	
B6-0417C32	Waterworks, D1/Ch.780-920 phase 2	7 13NOV04 A	24NOV04 A	13NOV04 A	24NOV04 A	100	0	0	2004	
<b>Part 6- Waterworks - Section 4, Areas 3 &amp; 4</b>										
B6-040060	Strands	27AUG02	01JUN04	01JUN04	01JUN04	0	0	0	Approved	Contract No. TP35/02
B6-040060	Finishing	02DEC04	02DEC04	02DEC04	02DEC04	0	0	0	W/	Remaining Engineering Infrastructure Works
B6-040060	Data	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	No. 9 Revision G
B6-040060	Date	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	No. 10 Revision H
B6-040060	Time	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	No. 11 Revision I
B6-040060	Phase	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	No. 12 Revision J
B6-040060	System	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	REVISED WORKS PROGRAMME I
B6-040060	Start date	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Start date
B6-040060	Finish date	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Finish date
B6-040060	Data	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Data
B6-040060	Finishing	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Finishing
B6-040060	Progress bar	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Progress bar
B6-040060	Critical bar	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Critical bar
B6-040060	Summary bar	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Summary bar
B6-040060	Start milestone point	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Start milestone point
B6-040060	Finish milestone point	01BEC04	01BEC04	01BEC04	01BEC04	0	0	0	W/	Finish milestone point

2006

2005

2004

Total Percent Complete

Float

Late

Start

Early

Finish

Description

Orig Dur

Late Start

Early Finish

25MARD04 A

25MAR04 A

25MAR04 A

100

Section 5 Works in Area 7A, except PumpStn.1,L&amp;EW

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete	2004	2005
B3-0503A0	Remove disused duct		40	04MARD04 A	25MARD04 A	DAMAR04 A				
<b>B3-0504</b>	<b>Drainage &amp; Sewerage - Section 5, Area 7A:</b>									
B3-050000	Earthworks - Sections 5, Area 7A	271*	100CT02 A	15JUL03 A	100CT02 A	15JUL03 A				
B3-0512F2	S2, Preloading Mound Formation, Zone C, Phase 2A	12	100CT02 A	27JAN03 A	100CT02 A	27JAN03 A				
B3-0512F3	S2, Preloading Mound Formation, Zone C, Phase 3A	24	110CT02 A	27JAN03 A	110CT02 A	27JAN03 A				
B3-0512F4	S2, Preloading Mound Formation, Zone H/G, Phase 4A	8	180CT02 A	26NOV02 A	180CT02 A	26NOV02 A				
B3-0512F5	S2, Preloading Mound Formation, Zone C, Phase 5	30	200CT02 A	28NOV02 A	200CT02 A	28NOV02 A				
B3-0511A4	Vibrating wire plumbometer, No. 2P4	6	240CT02 A	05NOV02 A	240CT02 A	05NOV02 A				
B3-0511C4	Subsurface Settlement Marker, No. 2M4	3	07NOV02 A	08NOV02 A	07NOV02 A	08NOV02 A				
B3-0511D0	Establish rigs for G.I.	3	12NOV02 A	13NOV02 A	12NOV02 A	13NOV02 A				
B3-0511E0	Moving rigs, 9 nr.	13	14NOV02 A	03DEC02 A	14NOV02 A	03DEC02 A				
B3-0511G1	Ground Investigation, S2-07	5	14NOV02 A	18NOV02 A	14NOV02 A	18NOV02 A				
B3-0511G3	Ground Investigation, S2-09	5	16NOV02 A	28NOV02 A	16NOV02 A	28NOV02 A				
B3-0511G4	Ground Investigation, S2-10	5	18NOV02 A	28NOV02 A	18NOV02 A	28NOV02 A				
B3-0511G5	Ground Investigation, S2-08	5	19NOV02 A	26NOV02 A	19NOV02 A	26NOV02 A				
B3-0511H0	Fieldwork Reports	16	19NOV02 A	06DEC02 A	19NOV02 A	06DEC02 A				
B3-0511G6	Ground Investigation, S2-12	5	20NOV02 A	26NOV02 A	20NOV02 A	26NOV02 A				
B3-0511G9	Ground Investigation, S2-15	5	23NOV02 A	02DEC02 A	23NOV02 A	02DEC02 A				
B3-0511B3	Surface Settlement Marker, No. 2M3	3	26NOV02 A	28NOV02 A	26NOV02 A	28NOV02 A				
B3-0511B4	Surface Settlement Marker, No. 2M4	3	26NOV02 A	28NOV02 A	26NOV02 A	28NOV02 A				
B3-0511C3	Subsurface Settlement Marker, No. 2M3	3	26NOV02 A	12NOV02 A	26NOV02 A	12NOV02 A				
B3-0511G7	Ground Investigation, S2-13	5	27NOV02 A	02DEC02 A	27NOV02 A	02DEC02 A				
B3-0511G5	Ground Investigation, S2-11	5	29NOV02 A	05DEC02 A	29NOV02 A	05DEC02 A				
B3-0511G8	Ground Investigation, S2-14	5	05DEC02 A	05DEC02 A	05DEC02 A	05DEC02 A				
B3-0512H2	S2, Preloading Mound Formation, Zone F, Phase 3B	8	09DEC02 A	15JUL03 A	09DEC02 A	15JUL03 A				
B3-0512G2	S2, Temp. RE Wall, Zone F, Phase 2	5	08JAN03 A	28FEB03 A	08JAN03 A	28FEB03 A				
B3-0512G4	S2, Temp. RE Wall, Zone G, Phase 3	4	10JAN03 A	15JUL03 A	10JAN03 A	15JUL03 A				
B3-0512G3	S2, Temp. RE Wall, Zone F, Phase 3	11	11JAN03 A	15JUL03 A	11JAN03 A	15JUL03 A				
B3-050005	Earthworks - Sections 5, Area 7A, after surcharge	411*	21AUG03 A	12OCT04 A	21AUG03 A	12OCT04 A				
B3-0512I5	S2, Preloading Mound Removal, Zone C, Phase 5	30	21AUG03 A	26NOV03 A	21AUG03 A	26NOV03 A				
B3-0512I4	S2, Preloading Mound Removal, Zone J-G, Phase 4A	9	05SEP03 A	11SEP03 A	05SEP03 A	11SEP03 A				
B3-0512I2	S2, Preloading Mound Removal, Zone F, Phase 2A	17	11SEP03 A	02OCT03 A	11SEP03 A	02OCT03 A				
B3-0512J2	S2, Temp.REWall & Mound Removal, Zone C, Phase	7	11SEP03 A	05OCT03 A	11SEP03 A	05OCT03 A				
B3-0512I3	S2, Preloading Mound Removal, Zone G, Phase 3A	24	12SEP03 A	25NOV03 A	12SEP03 A	25NOV03 A				
B3-0512J8	S2, Temp.REWall & Mound Removal, Zone C, Phase 5	8	05NOV03 A	17NOV03 A	05NOV03 A	17NOV03 A				
B3-0512I4	Excavate, D1/Ch. 540-820	15	26MAY04 A	28JUN04 A	26MAY04 A	28JUN04 A				
B3-0511L2	Backfilling beside PS1, D1/Ch.720-780	25	07AUJ04 A	20SEPO4 A	07AUJ04 A	20SEPO4 A				
B3-0511L2	Deposit/Compact, D1/Ch.820-780	10	26AUJ04 A	28AUJ04 A	26AUJ04 A	28AUJ04 A				
B3-0511L32	Backfilling Works beside PS1 remaining	18	20SEPO4 A	08OCT04 A	20SEPO4 A	08OCT04 A				
B3-0511L22	Deposit/Compact, D1/Ch.820-780 remaining	10	08OCT04 A	12OCT04 A	08OCT04 A	12OCT04 A				
<b>B3-0512</b>	<b>Drainage &amp; Sewerage - Section 5, Area 7A:</b>									
B4-050000	Drainage & Sewerage - Section 5, Area 7A	276*	22NOV03 A	31AUG04 A	22NOV03 A	31AUG04 A				
B4-0530A2	Clay pipe, D1/Ch. 620-780 preliminary excavation	3	22NOV03 A	24NOV03 A	22NOV03 A	24NOV03 A				
B4-0530A12	Clay pipe, D1/Ch. 620-780 remaining	35	16FEB04 A	08MAR04 A	16FEB04 A	08MAR04 A				
B4-0530A1	Clay pipe, D1/Ch. 540-820	45	18FEB04 A	17MAR04 A	18FEB04 A	17MAR04 A				
B4-0528F3	Pvc pipe, At PS1	30	05MAR04 A	02APR04 A	05MAR04 A	02APR04 A				
B4-0528F2	Pvc pipe, D1/Ch. 620-780 pipelaying	45	09MAR04 A							

Start date	Finish date	Progress %	Approved
27/01/04	28/01/04	0%	No.1 Revision G
02/02/04	03/02/04	0%	No.10 Revision G
07/02/04	08/02/04	0%	No.1 Revision H
04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

Page number	Contract No.	Remaining Engineering Infrastructure Works
TP35/02	No.10 Revision G	for Pak Shek Kok Development Package 1
TP35/02N/F01	No.1 Revision H	REVISED WORKS PROGRAMME I
TP35/02N/F01	No.12 Revision I	

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02/02/04	03/02/04	0%	No.10 Revision G
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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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07/02/04	08/02/04	0%	No.1 Revision H
04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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07/02/04	08/02/04	0%	No.1 Revision H
04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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17/04/04	18/04/04	0%	

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04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

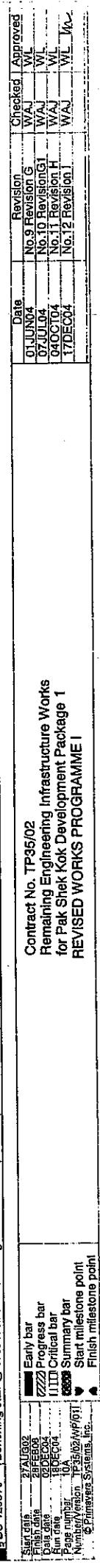
Start date	Finish date	Progress %	Approved
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02/02/04	03/02/04	0%	No.10 Revision G
07/02/04	08/02/04	0%	No.1 Revision H
04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	

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02/02/04	03/02/04	0%	No.10 Revision G
07/02/04	08/02/04	0%	No.1 Revision H
04/03/04	05/03/04	0%	No.12 Revision I
17/04/04	18/04/04	0%	</



2004  
Percent Complete

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
BS-120350	Excavation & Shuttering	24 07JUN04 A	24A... 4 A	07JUN04 A	24AUG04 A	24AUG04 A	100
BS-120400	Construction of base slab	10 25AUG04 A	14SEP04 A	25AUG04 A.	14SEP04 A	14SEP04 A	100
BS-120410	Base slab Waterproofing	4 14SEP04 A	16SEP04 A	14SEP04 A	16SEP04 A	16SEP04 A	100
BS-120500	Screen rm. const. to G/L (Wall, Slabs & Beams)	8 15SEP04 A	20SEP04 A	15SEP04 A	20SEP04 A	20SEP04 A	100
BS-120510	Backfilling and removal of lowest layer strut	3 20SEP04 A	22SEP04 A	20SEP04 A	22SEP04 A	22SEP04 A	100
BS-120530	Screen rm. const. to G/L (Wall, Slabs&Beams) continue	22 20SEP04 A	22OCT04 A	20SEP04 A	22OCT04 A	22OCT04 A	100
BS-120520	Other walls construction up to -2.0 mPD	17 23SEP04 A	08OCT04 A	23SEP04 A	08OCT04 A	08OCT04 A	100
BS-120570	Other wall up to Grnd Lev.(Walls, Beams & Slabs)	9 08OCT04 A	21OCT04 A	08OCT04 A	21OCT04 A	21OCT04 A	100
BS-120540	Continue Screen room to Roof level	15 23OCT04 A	11NOV04 A	23OCT04 A	11NOV04 A	11NOV04 A	100
BS-120600	Construct remaining Walls, Cols., Beams&RoofSlab	15 25OCT04 A	11NOV04 A	25OCT04 A	11NOV04 A	11NOV04 A	100
BS-120690	Waterproofing of Walls & Beam,Slab,soffit	4 25OCT04 A	30NOV04 A	25OCT04 A	30NOV04 A	30NOV04 A	100
BS-120610	Scaffolding removal after 7dayscuring(GroundtoRoof)	7 17NOV04 A	26NOV04 A	17NOV04 A	26NOV04 A	26NOV04 A	100
BS-120760	Preliminary Testing and Leakage Repair Works	25 02DEC04 A	25DEC04	02DEC04 A	25DEC04	25DEC04	5
BS-120720	Watertightness Test for Group A	13 20DEC04	01JAN05	20DEC04	01JAN05	01JAN05	0
BS-120660	Watertightness Test for Group B	13 02JAN05	14JAN05	02JAN05	14JAN05	14JAN05	0
BS-120710	Strut Removal & Backfilling around Dry Well	42 02NOV04 A	13DEC04	02NOV04 A	27DEC04	27DEC04	14d
BS-121010	Scaffolding Erection for new Wall @ GL4-5/E	2 28DEC04	28DEC04	28DEC04	28DEC04	28DEC04	72
BS-121020	New Wall Construction @ GL4-5/E	8 30DEC04	08JAN05	30DEC04	08JAN05	08JAN05	0
BS-121030	Scaffolding removal @ Switch room Area	2 13JAN05	14JAN05	13JAN05	14JAN05	14JAN05	0
BS-121040	Shearpile Extraction @ Switch Room Area	6 15JAN05	20JAN05	15JAN05	20JAN05	20JAN05	0
BS-120620	Inspection Gallery & Switchroom construction	20 20JAN05	16FEB05	20JAN05	15FEB05	15FEB05	0
BS-120770	Staircase & Platform Construction @ Dry Well	25 28NOV04 A	20DEC04	28NOV04 A	18JAN05	18JAN05	24d
BS-120650	Buffer wall & Platform Construction @ Wet Well A	7 02JAN05	08JAN05	02JAN05	17FEB05	17FEB05	24
BS-120780	Construct internal wall @ Screen Room A	5 02JAN05	08JAN05	02JAN05	18MAR05	18MAR05	64d
BS-120680	Buffer Wall & Platform Construction @ Wet Wall B	7 15JAN05	21JAN05	15JAN05	19FEB05	19FEB05	28d
BS-120790	Construct Internal Wall @ Screen Room B	5 15JAN05	18JAN05	15JAN05	13MAR05	13MAR05	50d
BS-120890	Inlet Chamber Construction	25 27NOV04 A	22DEC04	27NOV04 A	01APR05	01APR05	100d
BS-120700	Backfilling works after Watertightness Test	20 02JAN05	02JAN05	02JAN05	07JAN05	07JAN05	5d
BS-120730	Shearpile Extraction	15 22JAN05	05FEB05	27JAN05	17FEB05	17FEB05	5d
BS-120740	Expected DSD Inspection Building Works	0 02JAN05	01MAY05	02JAN05	01MAY05	01MAY05	87d
BS-120810	Backfilling Works around PS1 to Ground Level	15 13FEB05	27FEB05	13FEB05	04MAR05	04MAR05	5d
BS-120810	RemainingDrainageWorks around PS1(refer to Sec5)	0 03FEB05	01MAY05	03FEB05	01MAY05	01MAY05	77d
BS-121050	Inlet Chamber connection to PS1	7 16FEB05	22FEB05	16FEB05	06APR05	15APR05	52d
BS-120990	Rising main Chamber Construction	15 28FEB05	14MAR05	28FEB05	01APR05	15APR05	32d
BS-120750	Construct Boundary Wall	15 11APR05	25APR05	11APR05	16APR05	30APR05	5d
<b>2005 CONSTRUCTION WORKS</b>							
BS-120830	Roof Finishing	30 01DEC04 A	27DEC04	01DEC04 A	26JAN05	30JAN05	14
BS-120920	Ceiling Finishing & Painting	11 02DEC04 A	12DEC04	02DEC04 A	19DEC04 *	19DEC04	5
BS-121000	Completion&Prep.WorksonWindows/Louverstrevissions	0	02JAN05	12DEC04 *	12DEC04	0	0
BS-120930	Wall Finishing	7 13DEC04	19DEC04	13DEC04	19DEC04	19DEC04	0
BS-120940	Wall Painting	3 20DEC04	22DEC04	20DEC04	22DEC04	22DEC04	0
BS-120950	Platform Removal @ Loading Bay	5 23DEC04	27DEC04	23DEC04	27DEC04	27DEC04	0
BS-120960	Boosterrm./Toilet(Brickwall+Plastering+Tilt+Paint)	14 28DEC04	10JAN05	03JAN05	18JAN05	6d	0
BS-120970	Newly added Wall w/cabinet	20 28DEC04	16JAN05	28DEC04	16JAN05	16JAN05	0
BS-120980	Brickwall at G.L.2 (7 days curing)	20 28DEC04	16JAN05	28DEC04	16JAN05	16JAN05	0
BS-120990	Finishing on these Walls	10 17JAN05	26JAN05	17JAN05	26JAN05	26JAN05	0
BS-121060	Handover to E&M Works @ Loading Area	0 27JAN05	07JAN05	27JAN05	07JAN05	07JAN05	0
BS-120800	Finishing of New Wall @ G.L.4-5/E	6 07JAN05	12JAN05	07JAN05	12JAN05	12JAN05	0
BS-120630	Finishing Works for Insp.Gallery & Switchroom	12 16FEB05	27FEB05	16FEB05	27FEB05	27FEB05	0
BS-120640	External Finishing Works	30 19FEB05	14MAR05	01APR05	30APR05	47d	0
BS-120820	Pipe Trench Construction @ Dry Well	15 21DEC04	04JAN05	14JAN05	28JAN05	24d	0
BS-120840	Bamboo Platform & Finishing works @ Dry Well	21 05JAN05	25JAN05	05JAN05	25FEB05	24d	0
BS-120850	Massconcrete/Platform construction @ Screen RoomA	5 07JAN05	19JAN05	07JAN05	23MAR05	6d	0
BS-120870	Benching stair @ Wet Well A & finishing	2 08JAN05	10JAN05	08JAN05	24FEB05	39d	0



Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Duration	Percent Complete	Float	Completion Status	Notes
BS-120260	Mass concrete/Platform construction @Screen RoomB	5	20JAN05	20JAN05	18MAR05	23MAY05	49d	0	0	Not Started	
BS-120260	Benching stair @ Wet wall B & finishing	2	22JAN05	23JAN05	26FEB05	27FEB05	28d	0	0	Not Started	
BS-124020	Power Supply Application	0	11DEC03 A	11DEC03 A	11DEC03 A	11DEC03 A	100	0	0	Not Started	
BS-124030	Link Application	0	07JUL04 A	07JUL04 A	20SEP04 A	20SEP04 A	100	0	0	Not Started	
BS-125020	Water Certification WW046 Part I & II	0	20SEP04 A	20SEP04 A	04APR05	04APR05	94d	0	0	Not Started	
BS-125050	CLP's Final Inspection of Meter Kiosk	0	24DEC04	31DEC04	04APR05	04APR05	94d	0	0	Not Started	
BS-125090	Expected availability of power supply	0	31DEC04	27JAN05	04APR05	04APR05	94d	0	0	Not Started	
BS-125080	Expected availability of fresh&salt water supply	0	21MAR05	21MAR05	04APR05	04APR05	94d	0	0	Not Started	
BS-125160	VAC submission	0	28FEB05	14MAR05	04APR05	04APR05	14d	0	0	Not Started	
BS-127220	CLP's Final Inspection of Meter Kiosk	0	07MAR05	21MAR05	04APR05	04APR05	14d	0	0	Not Started	
BS-127230	Water Certification WW046 Part IV	0	08MAR05	01APR05	28APR05	28APR05	22d	0	0	Not Started	
BS-125100	Electrical WR1 Submission	0	21MAR05	01APR05	04APR05	04APR05	11d	0	0	Not Started	
BS-124010	CLP's Final Inspection	0	21MAR05	01APR05	04APR05	04APR05	11d	0	0	Not Started	
BS-125040	Expected DSD Inspection for Sewage Pump & VSD	0	01APR05	01APR05	07APR05	07APR05	6d	0	0	Not Started	
BS-125130	Expected DSD Inspection for Penstock	0	02APR05	02APR05	02APR05	02APR05	0d	0	0	Not Started	
BS-125180	WSD's Final Inspection	0	02APR05	02APR05	02APR05	02APR05	0d	0	0	Not Started	
BS-125110	Expected DSD Inspection for Mech. Screen Syst.	0	04APR05	04APR05	04APR05	04APR05	0d	0	0	Not Started	
BS-125150	Expected DSD Inspection for Other Works	0	04APR05	04APR05	04APR05	04APR05	0d	0	0	Not Started	
BS-125060	FS 501 Submission	0	07APR05	07APR05	07APR05	07APR05	0d	0	0	Not Started	
BS-125120	Expected DSD Inspection for Valves & Pipeworks	0	18APR05	27NOV04 A	07DEC04 A	07DEC04 A	137d	10	0	Not Started	
BS-125140	Expected DSD Inspection for Deodorizer System	0	19APR05	30APR05	30APR05	30APR05	0d	0	0	Not Started	
BS-126030	Cable Tray Installation	30	24JAN05	01MARS05	01MARS05	01MARS05	59d	0	0	Not Started	
BS-124040	Sewage Pumpset and VSD	20	27JAN05	21FEB05	21FEB05	21FEB05	56d	0	0	Not Started	
BS-124070	Valves and Pipeworks	14	27JAN05	11FEB05	07APR05	07APR05	56d	0	0	Not Started	
BS-124090	Lifting Appliance	14	27JAN05	11FEB05	10APR05	10APR05	66d	0	0	Not Started	
BS-124110	PCCW cable laying & wiring works	15	27JAN05	17FEB05	10APR05	10APR05	66d	0	0	Not Started	
BS-126020	Conduit & Trunking	40	27JAN05	14MARS05	02MARS05	02MARS05	27d	0	0	Not Started	
BS-127240	Lightning & Earthing Installation	30	26FEB05	18MARS05	27FEB05	27FEB05	38d	0	0	Not Started	
BS-126100	Cabling works	20	27FEB05	19MARS05	28MARS05	28MARS05	0d	0	0	Not Started	
BS-126110	Cable Terminations to Major Equipments	15	28MARS05	12APR05	29MARS05	29MARS05	14d	0	0	Not Started	
BS-127000	Cable Terminations to Other Equipments	15	28MARS05	03APR05	03APR05	03APR05	0d	0	0	Not Started	
BS-127000	Functional Testing	57	* OSMAR05	30APR05	04APR05	04APR05	0d	0	0	Not Started	
BS-127120	Lighting and Electrical Services	20	15MARS05	07MARS05	07MARS05	07MARS05	23d	0	0	Not Started	
BS-127210	Cleansing Waterpump Hydraulic & Functional Test	6	15MARS05	07MARS05	07MARS05	07MARS05	27d	0	0	Not Started	
BS-126100	Cable Terminations to Major Equipments	10	19MARS05	28MARS							

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
BS-127150	Penstock Leakage Rate Test		6/02APR05	07/14..05	22APR05	27APR05	20d	0
BS-127110	LV Switchboard and Panels Testing		15/03APR05	04APR05	18APR05	01APR05	1d	0
BS-127180	MCB board functional Test		3/04APR05	06APR05	25APR05	27APR05	21d	0
BS-127200	Lighting functional & Intensity Test		4/04APR05	07APR05	24APR05	27APR05	20d	0
BS-127040	FS functional testing		3/07APR05	09APR05	25APR05	27APR05	18d	0
BS-127190	RCDE/LCD functional Test		2/07APR05	08APR05	28APR05	29APR05	21d	0
BS-127070	Valves & Pipeworks Testing		4/13APR05	16APR05	15APR05	18APR05	2d	0
BS-127090	Lifting Appliance testing		5/13APR05	17APR05	23APR05	27APR05	10d	0
BS-127100	Deodorizer System functional Testing		6/13APR05	16APR05	13APR05	18APR05	0	0
BS-127030	SCADA and PLC Works Functional Testing		6/19APR05	24APR05	19APR05	24APR05	0	0
BS-127160	Deodorizing Unit Air Duct Tightness Test		3/19APR05	21APR05	25APR05	27APR05	6d	0
BS-127170	SCADA & PLC Mapping Test		3/25APR05	27APR05	25APR05	27APR05	0	0
BS-127010	Commissioning Test		3/28APR05	30APR05	30APR05	30APR05	0	0
<b>Other Works at Pump Station No.1</b>								
UT-030061	Gas Mains, L2/Ch.100-200		15/28FEB05	14MARS05	05MARS05	18MARS05	5d	0
UT-030071A	PCCW, L2/Ch.100-200		16/14MARS05	28MARS05	19MARS05	02APR05	5d	0
UT-030071B	HGC-New World, L2/Ch.100-200		15/16MARS05	30MARS05	21MARS05	04APR05	5d	0
UT-030071C	CATV, L2/Ch.100-200		7/21MARS05	27MARS05	26MARS05	01APR05	5d	0
B4-0317241	PG Pipe, L2/Ch.100-200 Gully works east bound		7/28FEB05	08MARS05	09MARS05	13MARS05	13d	0
B3-030801	Deposition & Compaction, L2/Ch.100-200		7/07MARS05	10MARS05	20MARS05	26MARS05	13d	0
B5-0325251	Roadworks, L2/Ch.100-200		30/08MARS05	07APR05	22MARS05	20APR05	13d	0
B5-0326861	Cycle track & Footpath, L2/Ch.100-200		25/22MARS05	15APR05	27MARS05	20APR05	5d	0
B5-0328910	Furniture & Miscellaneous @ Rd. L2		10/18APR05	25APR05	21APR05	30APR05	5d	0
B4-0328912	Pic pipe, At PS1 remaining (S303-S017)		15/26FEB05	14MARS05	05MARS05	19MARS05	5d	0
UT-0500573	Powers(11kV) at PS1 Sec. 5 part		12/28FEB05	11MARS05	12MARS05	23MARS05	12d	0
UT-050013A	PCCW at PS1 Sec. 5 part		10/12MARS05	21MARS05	24MARS05	02APR05	12d	0
B4-0335451	Sewer/Fishing Main, At PS1 Sec. 5 part		35/14MARS05	17APR05	19MARS05	22APR05	5d	0
UT-050013B	HGC-C-New World at PS1 Sec. 5 part		10/20MARS05	01APR05	10APR05	10APR05	12d	0
B5-05441B3	Footpath, At PS1 Sec. 5 part		15/30MARS05	13APR05	11APR05	25APR05	12d	0
B3-0512430	Deposit/ Compact, At PS1 Sec. 5 part		8/03APR05	10APR05	08APR05	15APR05	5d	0
B5-054073	Footpath, At PS1 Sec. 5 part		12/03APR05	19APR05	16APR05	27APR05	8d	0
B5-0543410	Furniture & Miscellaneous at PS1 Sec. 5 part		5/18APR05	22APR05	26APR05	30APR05	8d	0
<b>Section 1.2 Works of Sewage Pumping Station No.2</b>								
BS-150000	Pump Station No.2 - Piling & Structural Works		6/21*	08JUL03 A	03APR05	08JUL03 A	30APR05	27d
BS-150100	Ground Investigation, 4 nos.		12/08JUL03 A	28OCT03 A	08JUL03 A	29OCT03 A	100	100
BS-150300	Sheetpiling		45/22OCT03 A	11DEC03 A	22OCT03 A	11DEC03 A	100	100
BS-150200	Install/Bored Piles, 2.25dia, 2.35bellout, 4m Alt. Dis.		70/11JAN04 A	28MAY04 A	11JAN04 A	28MAY04 A	100	100
BS-150250	Pile Testing		30/01APR04 A	28APR04 A	01APR04 A	28APR04 A	100	100
BS-150360	Ground Investigation, 1 no.		9/02APR04 A	07MAY04 A	02APR04 A	07MAY04 A	100	100
BS-150360	Install/Bored Pile, 1 no. additional		20/13MAY04 A	30MAY04 A	13MAY04 A	30MAY04 A	100	100
BS-150390	Pile Testing Platform Preparation Works		27/31MAY04 A	05JUL04 A	31MAY04 A	05JUL04 A	100	100
BS-150420	Mobilization for Excavation & strutting		12/31MAY04 A	07JUN04 A	31MAY04 A	07JUN04 A	100	100
BS-150350	Excavation & Strutting		16/08JUN04 A	16AUG04 A	08JUN04 A	16AUG04 A	100	100
BS-150370	Pile Testing 1 no. additional		6/08JUL04 A	10JUL04 A	06JUL04 A	10JUL04 A	100	100
BS-150400	Construction and concreting of Base Slab		10/17AUG04 A	02SEP04 A	17AUG04 A	02SEP04 A	100	100
BS-150410	Base Slab waterproofing		4/02SEP04 A	02SEP04 A	02SEP04 A	02SEP04 A	100	100
BS-150500	Construct Walls of Screen Room		8/03SEP04 A	14SEP04 A	03SEP04 A	14SEP04 A	100	100
BS-150430	Backfilling and removal of lower layer strut		3/05SEP04 A	12SEP04 A	05SEP04 A	12SEP04 A	100	100
BS-150520	Other Walls Construction to +2.5mPD Level		8/05SEP04 A	24SEP04 A	05SEP04 A	24SEP04 A	100	100
BS-150600	Wall at GL.4 to +2.5mPD Level		8/11SEP04 A	11SEP04 A	11SEP04 A	11SEP04 A	100	100
BS-150570	Complete Wall @ Grid Line 4 to GLL		2/12SEP04 A	21SEP04 A	12SEP04 A	21SEP04 A	100	100
BS-150580	Other Walls to GL (Walls, Beams & Slabs)		7/12SEP04 A	20SEP04 A	12SEP04 A	20SEP04 A	100	100
BS-150550	Waterproofing of Wall @ GL.4		4/15SEP04 A	17SEP04 A	15SEP04 A	17SEP04 A	100	100
<b>Pump Station No.2 - Piling &amp; Structural Works</b>								
BS-150000	Pump Station No.2 - Piling & Structural Works		12/08JUL03 A	08JUL03 A	28OCT03 A	29OCT03 A	100	100
BS-150100	Ground Investigation, 4 nos.		45/22OCT03 A	11DEC03 A	22OCT03 A	11DEC03 A	100	100
BS-150300	Sheetpiling		70/11JAN04 A	28MAY04 A	11JAN04 A	28MAY04 A	100	100
BS-150200	Install/Bored Piles, 2.25dia, 2.35bellout, 4m Alt. Dis.		30/01APR04 A	28APR04 A	01APR04 A	28APR04 A	100	100
BS-150250	Pile Testing		9/02APR04 A	07MAY04 A	02APR04 A	07MAY04 A	100	100
BS-150360	Ground Investigation, 1 no.		20/13MAY04 A	30MAY04 A	13MAY04 A	30MAY04 A	100	100
BS-150360	Install/Bored Pile, 1 no. additional		27/31MAY04 A	05JUL04 A	31MAY04 A	05JUL04 A	100	100
BS-150390	Pile Testing Platform Preparation Works		12/31MAY04 A	07JUN04 A	31MAY04 A	07JUN04 A	100	100
BS-150420	Mobilization for Excavation & strutting		16/08JUN04 A	16AUG04 A	08JUN04 A	16AUG04 A	100	100
BS-150350	Excavation & Strutting		6/08JUL04 A	10JUL04 A	06JUL04 A	10JUL04 A	100	100
BS-150370	Pile Testing 1 no. additional		10/17AUG04 A	02SEP04 A	17AUG04 A	02SEP04 A	100	100
BS-150400	Construction and concreting of Base Slab		10/17AUG04 A	02SEP04 A	17AUG04 A	02SEP04 A	100	100
BS-150410	Base Slab waterproofing		4/02SEP04 A	02SEP04 A	02SEP04 A	02SEP04 A	100	100
BS-150500	Construct Walls of Screen Room		8/03SEP04 A	14SEP04 A	03SEP04 A	14SEP04 A	100	100
BS-150430	Backfilling and removal of lower layer strut		3/05SEP04 A	12SEP04 A	05SEP04 A	12SEP04 A	100	100
BS-150520	Other Walls Construction to +2.5mPD Level		8/05SEP04 A	24SEP04 A	05SEP04 A	24SEP04 A	100	100
BS-150600	Wall at GL.4 to +2.5mPD Level		8/11SEP04 A	11SEP04 A	11SEP04 A	11SEP04 A	100	100
BS-150570	Complete Wall @ Grid Line 4 to GLL		2/12SEP04 A	21SEP04 A	12SEP04 A	21SEP04 A	100	100
BS-150580	Other Walls to GL (Walls, Beams & Slabs)		7/12SEP04 A	20SEP04 A	12SEP04 A	20SEP04 A	100	100
BS-150550	Waterproofing of Wall @ GL.4		4/15SEP04 A	17SEP04 A	15SEP04 A	17SEP04 A	100	100
<b>Remaining Engineering Infrastructure Works</b>								
Contract No. TP35/02 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 REVISED WORKS PROGRAMME 1								
Start date	27 AUG 02	Early bar	■	01 JUN 04	No. 9 Revision G	WAJ	Approved	
End date	27 FEB 03	Progress bar	■	07 JUL 04	No. 10 Revision G	WAJ	WL	
Run date	04 DEC 04	Critical bar	■	04 OCT 04	No. 11 Revision H	WAJ	WL	
Page number	124	Summary bar	■	17 DEC 04	No. 12 Revision I	WAJ	WL	
Number Version	TP35/02/WP011	Finish milestone point	■					
Comments	Primavera Systems, Inc.	Finish milestone point	■					

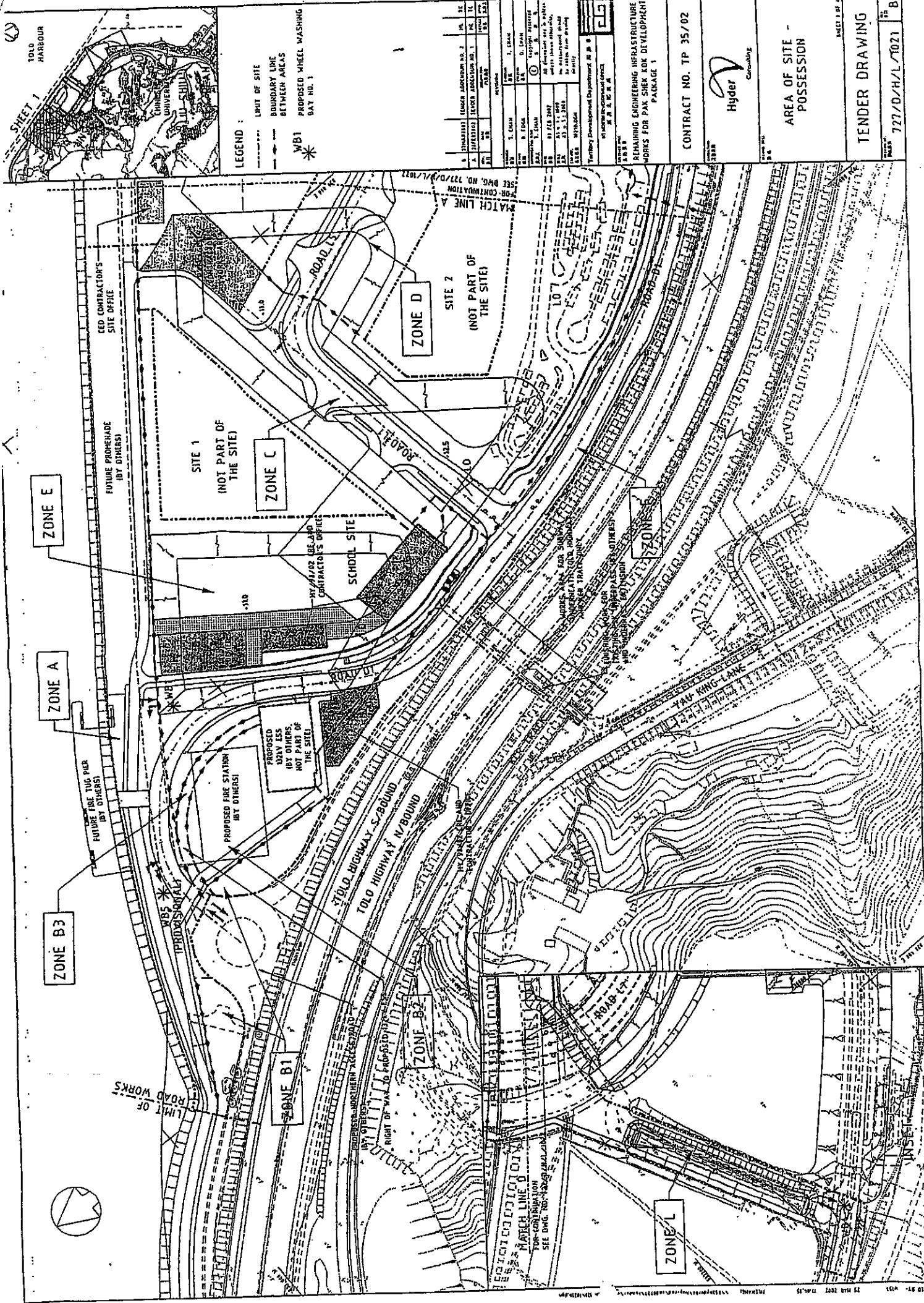
Date	01 JUN 04	Revision G	WAJ
Run date	07 JUL 04	No. 10 Revision G	WAJ
Page number	124	No. 11 Revision H	WAJ
Number Version	TP35/02/WP011	No. 12 Revision I	WAJ

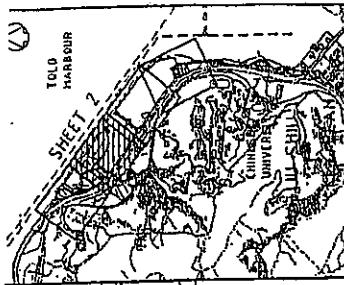


東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## **Appendix G**

### **Construction Site Area**





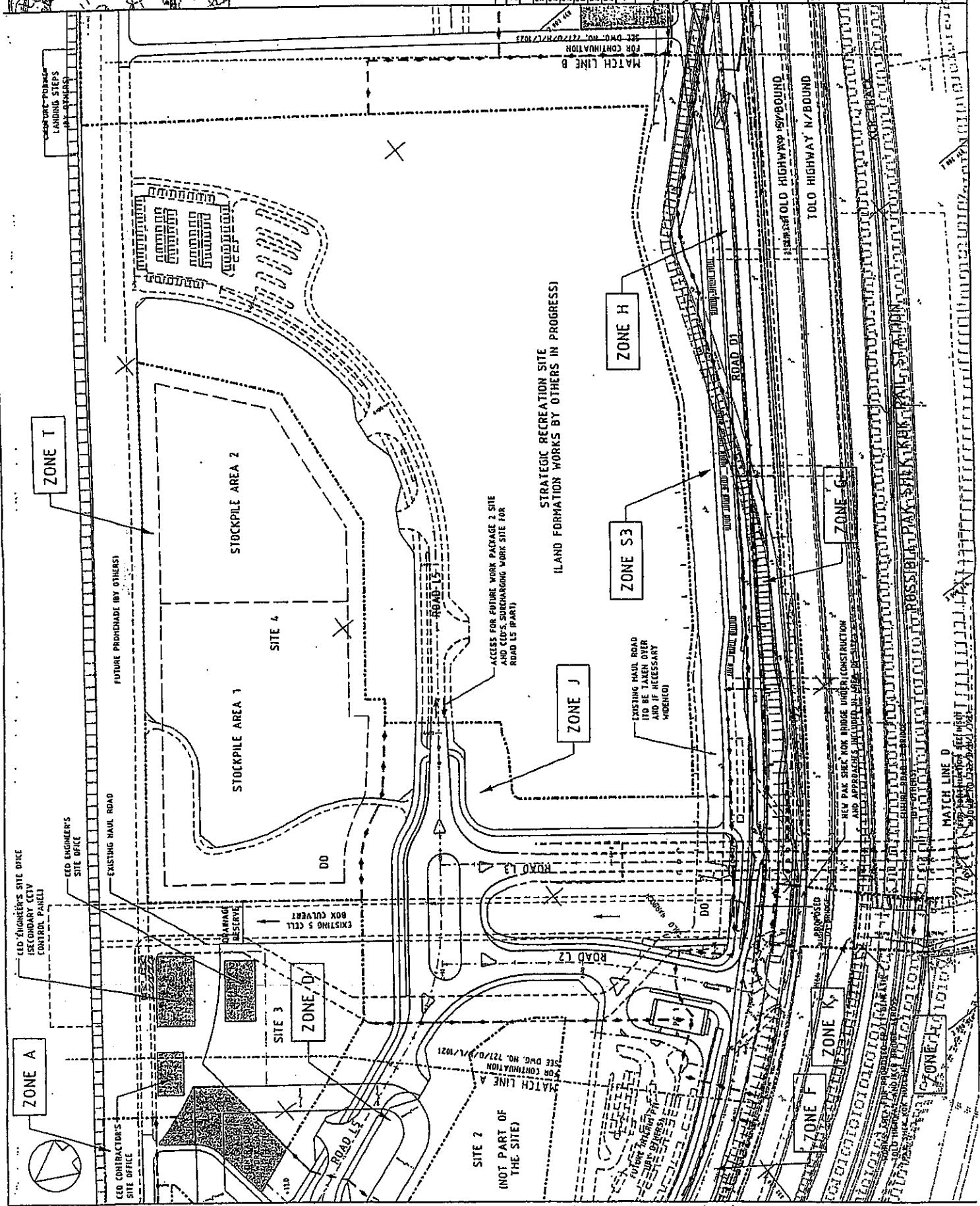
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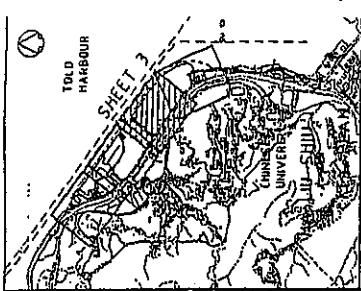
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CONTRACT NO. TP 35/02

AREA OF SITE -  
POSSESSION

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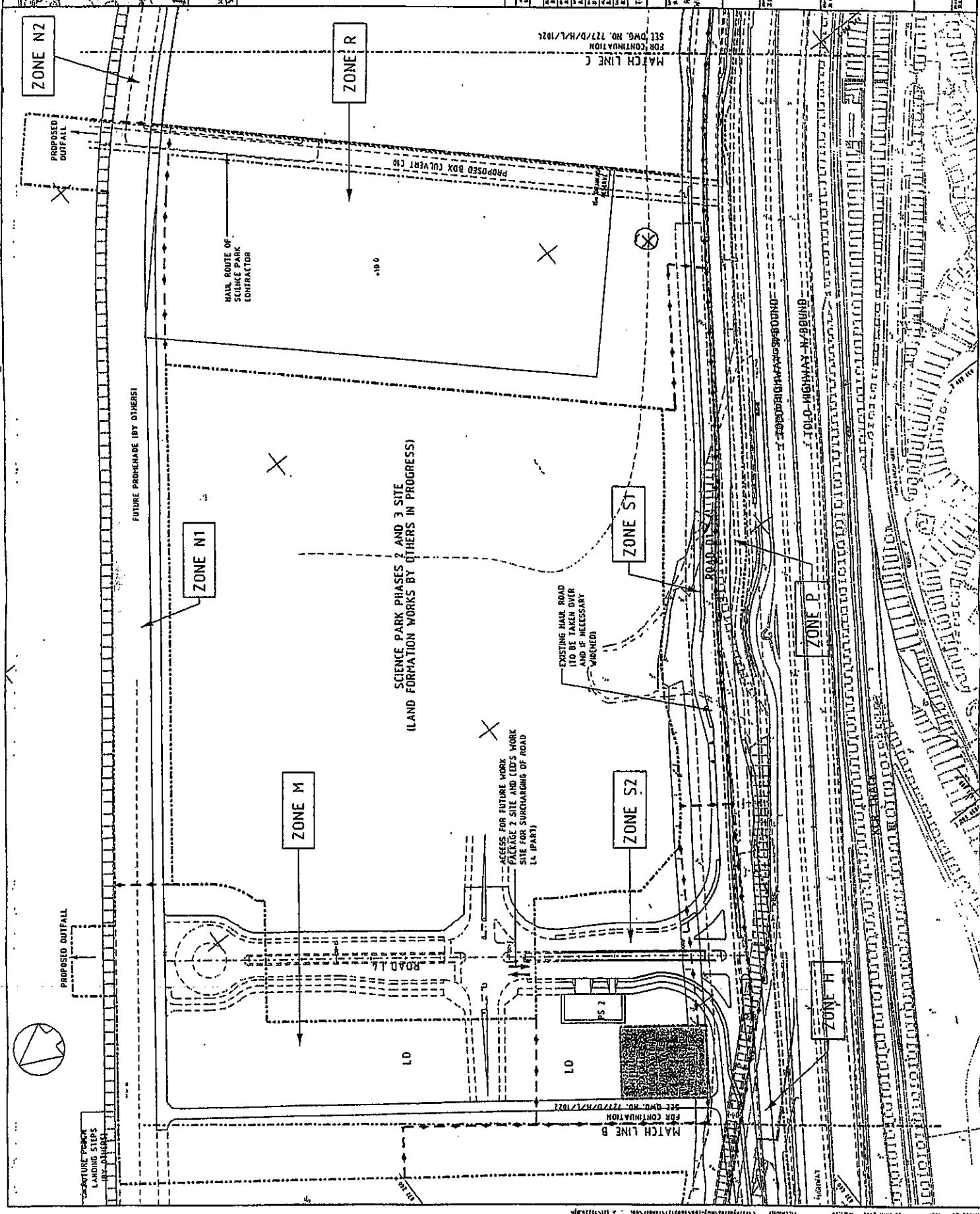
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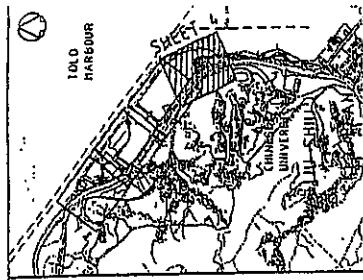
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POSSESSION

TENDER DRAWING





NOTES :  
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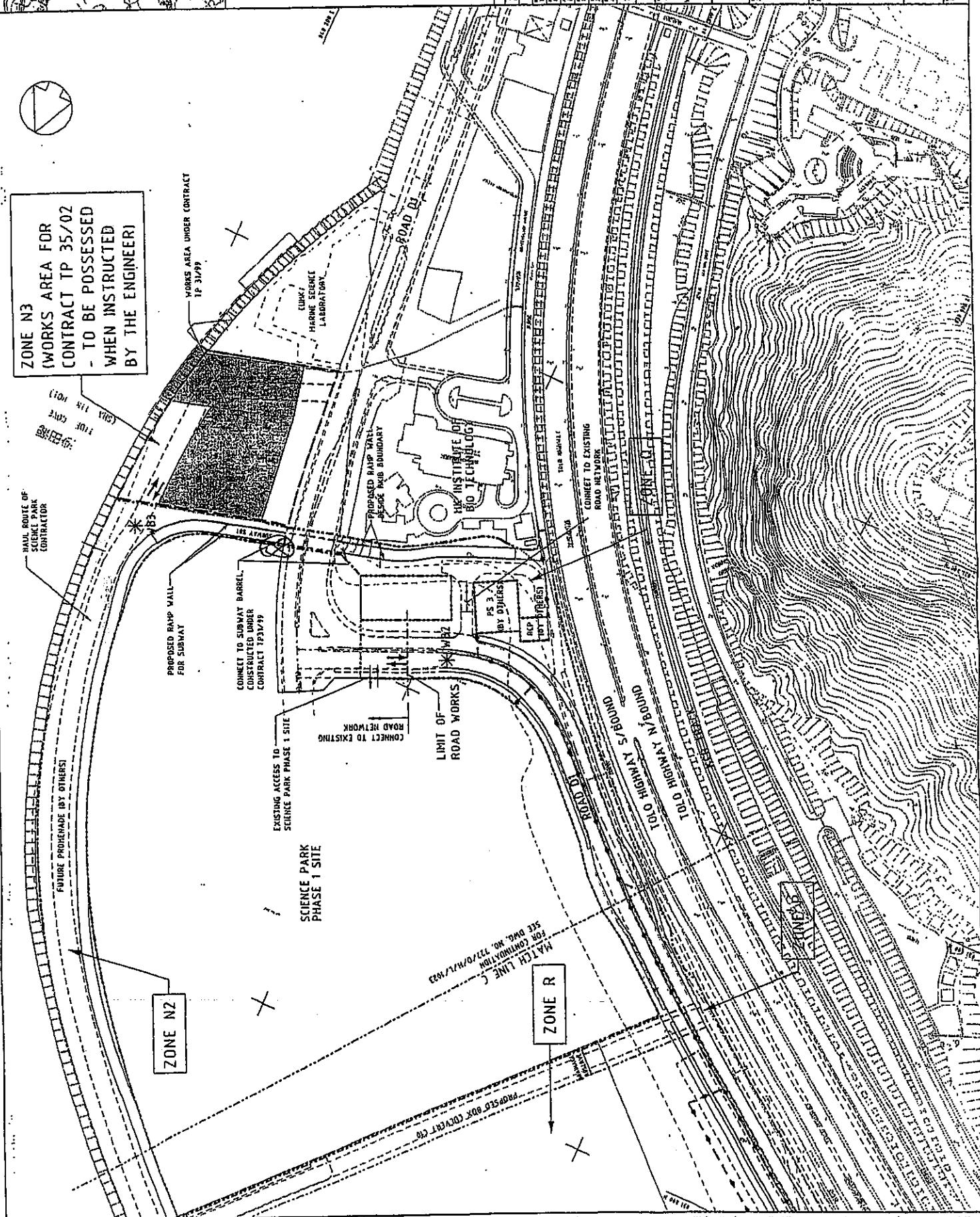
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A.	A.	24010007	24010007	24010007	24010007	

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## Appendix H

### The Summary of Implementation Status of Mitigation Measures during Weekly Site Inspections

## The Summary of Implementation status of Mitigation Measures

Aspect	Mitigation Measures	Implementation Status		
		Y	N	N/A
Air	- The height from which fill materials were dropped was controlled to a practical height to minimize the fugitive dust arising from unloading.	√		
	- During transportation by truck, material was loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.	√		
	- All stockpile of aggregate or spoil were enclosed or covered and water applied in dry or windy condition.	√		
	- Effective water sprays were used on the site at potential dust emission sources such as unpaved area.	√		
	- The haul road was either paved or regular watering.	√		
	- Vehicle speed was limited to 20 km/hr.	√		
	- Adequately designed wheel washing facilities including a high pressure water jet were provided at all main entrance of work site.	√		
Noise	- Only well maintained plant was operated on-site and plant should be serviced regularly during the construction works.	√		
	- Machines and plants that were in intermittent use were shut down between work periods or throttled down to a minimum.	√		
	- Plant known to emit noise strongly in one direction, where possible, were orientated so that the noise is directed away from nearby NSRs.	√		
	- Silencers or mufflers on construction equipment were considered.	√		
Water	- Recirculation system was used to reduce SS from the vehicle wheel washing facility.	√		
	- Fuel tanks on site were housed within drainable trays and regularly drained of rainwater.	√		
	- Washing area and road exiting were paved from washing facility.	√		
	- Permanent / Temporary ditches were provided to facilities run-off discharge into the appropriate watercourses, via a sediment trap/sediment retention basin, prior to discharge.	√		
	- Sedimentation tanks with adequate capacity to settle the sand and silt out were provided.	√		
	- Sedimentation tanks were regularly cleaned and maintained in order to control their efficiency and to prevent the recycled water overflow to drains.	√		
	- All drainage facilities were adequate for the controlled release of storm flows.	√		
	- Exposed soil areas were minimized to reduce the potential for increased siltation and contamination of run-off.	√		
	- All chemical stores were contained (bunded) such that spills are not slowed to gain access to water bodies.	√		
	- Chemical toilets were provided to handle the sewage from the on-site construction workforce.	√		

## The Summary of Implementation status of Mitigation Measures

Aspect	Mitigation Measures	Implementation Status		
		Y	N	N/A
Waste	- Wastes were handle and store in a manner, which ensure that they were held securely without loss or leakage, thereby minimizing the potential for pollution.	√		
	- Authorized or licensed waste hauliers were use to collect the specific category of waste.	√		
	- Wastes were removed in a timely manner.	√		
	- The waste storage areas were maintained and cleaned regularly.	√		
	- Windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers were minimized.	√		
	- Waste disposal permits were obtained form the appropriate authorities.	√		
	- Wastes were disposed at licensed sites.	√		
	- Procedures such as a ticketing system were developed to facilitate tracing of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	√		
Chemical Waste	- Records of the quantities of wastes generated, recycled and disposal were maintained.	√		
	- Under the Waste Disposal (Chemical Waste) (General) Regulation, chemical waste producers were registered with EPD.	√		
	- Chemical wastes were transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	√		
	- Containers used for the storage of chemical wastes were:			
	1.Suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	√		
	2.Enclosed on at least 3 sides;	√		
	3.Have an impermeable floor and bunding, of capacity to accommodate 120% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;	√		
	4.-Have adequate ventilation;	√		
	5.Covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary);	√		
	6.Arranged so that incompatible materials are adequately separated.	√		

## Appendix I

### **IEC and RE Comments on Monthly EM&A Report**

**—  
February 2005**

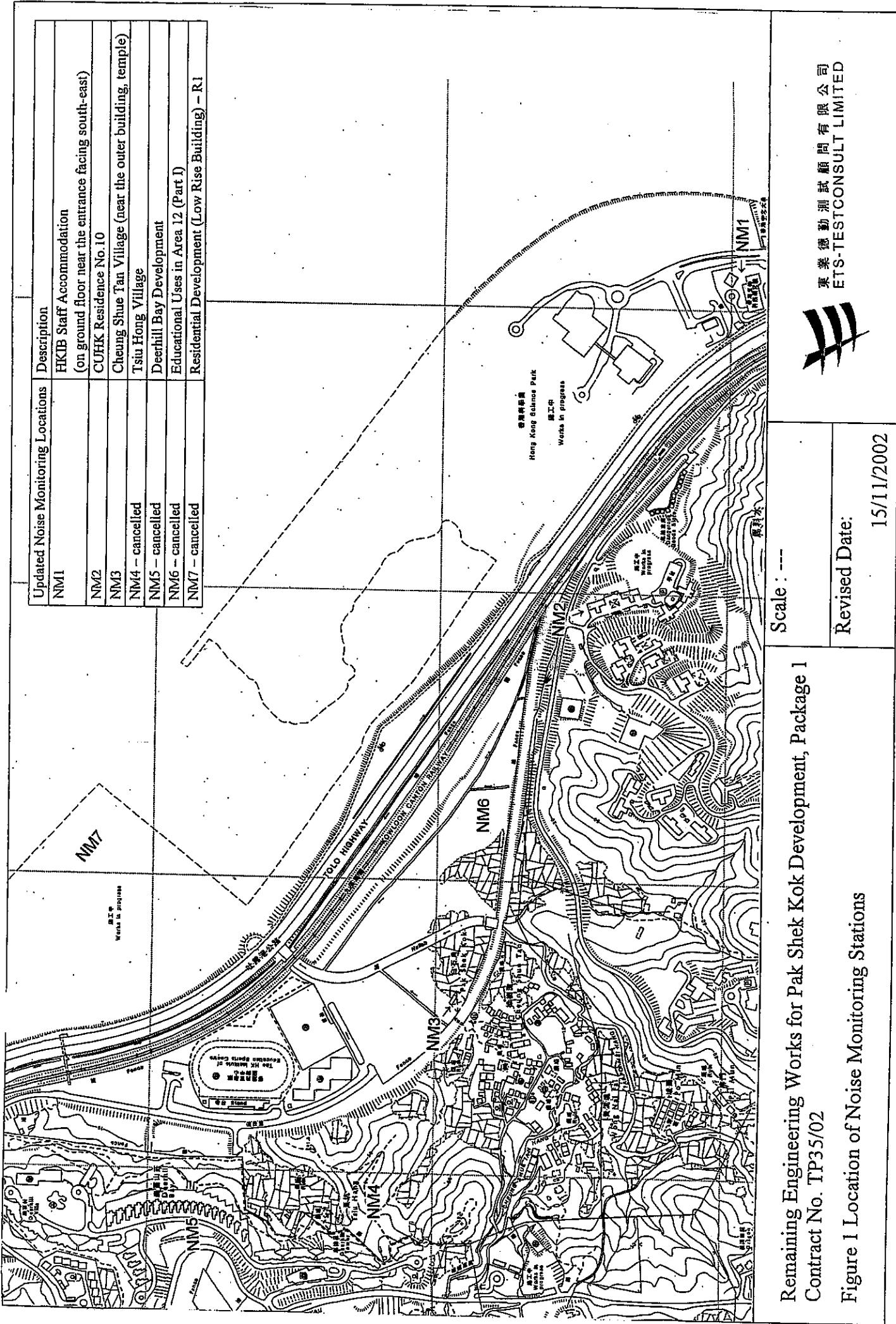
**IEC and RE Comments on Monthly Environmental Monitoring and Audit Report – February 2005**

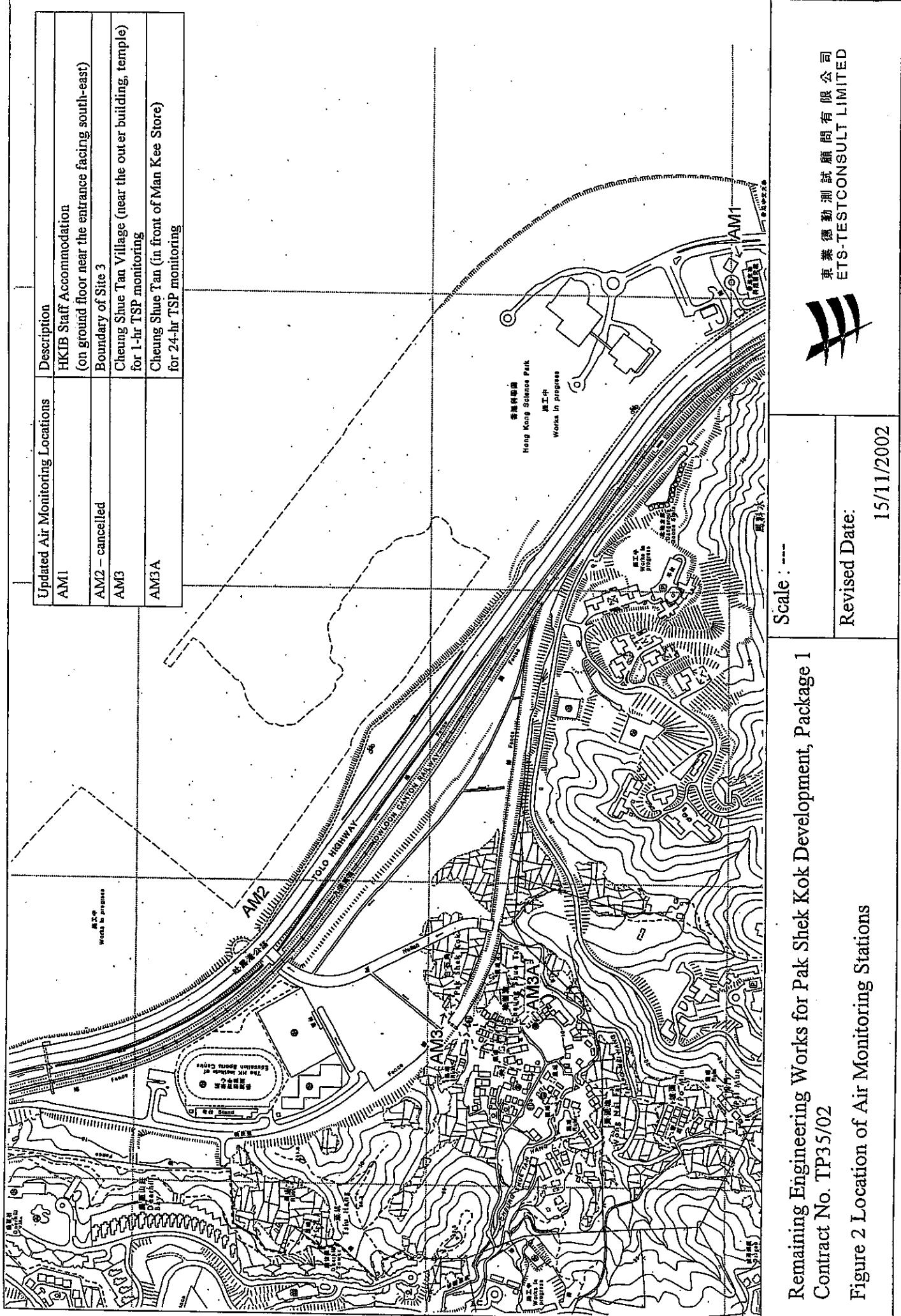
Item No.	Document Reference	Comment	ET Response
---	---	No RE / IEC Comments on Monthly Environmental Monitoring and Audit Report – February 2005 were received.	No ET responses were required

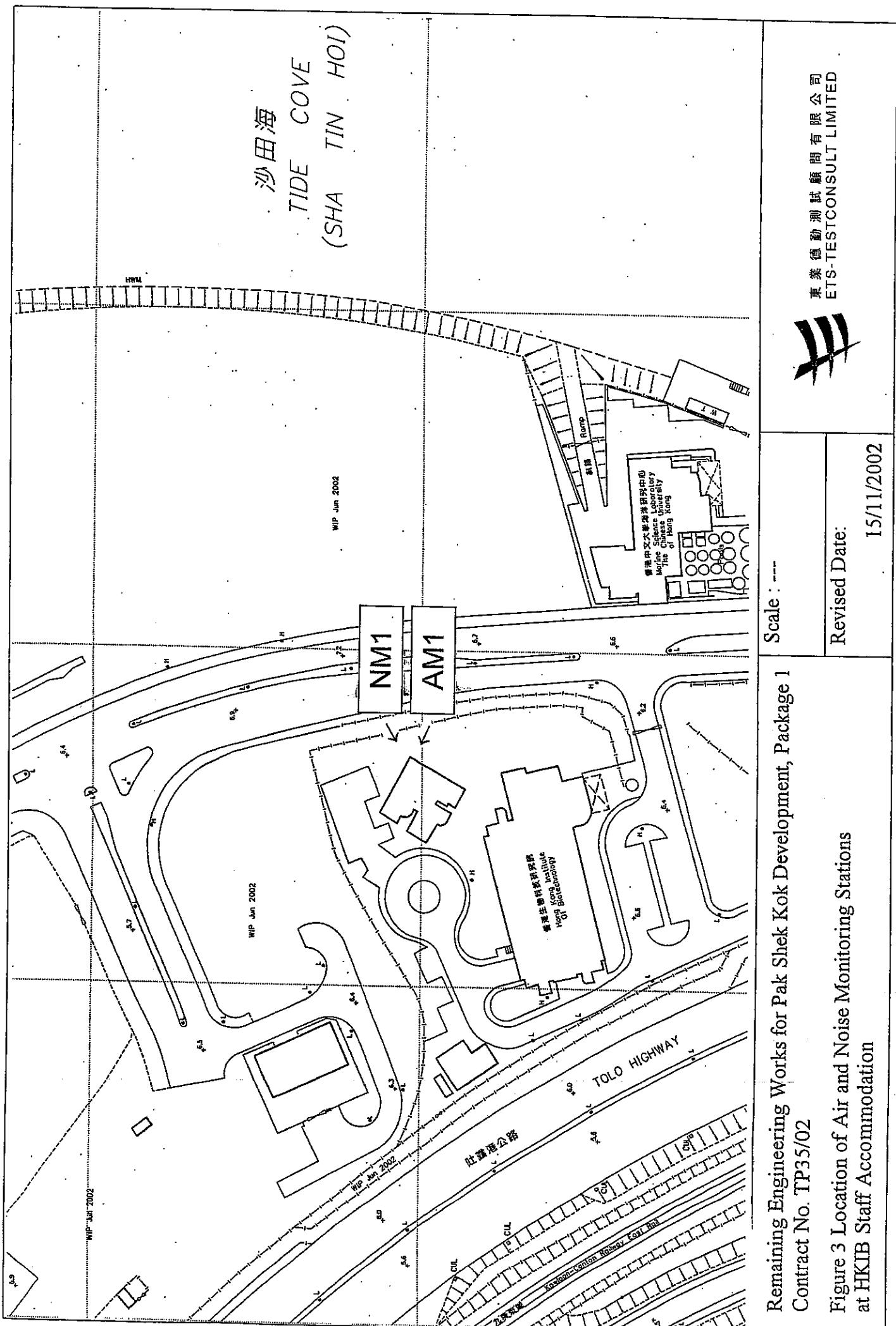


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## Figures



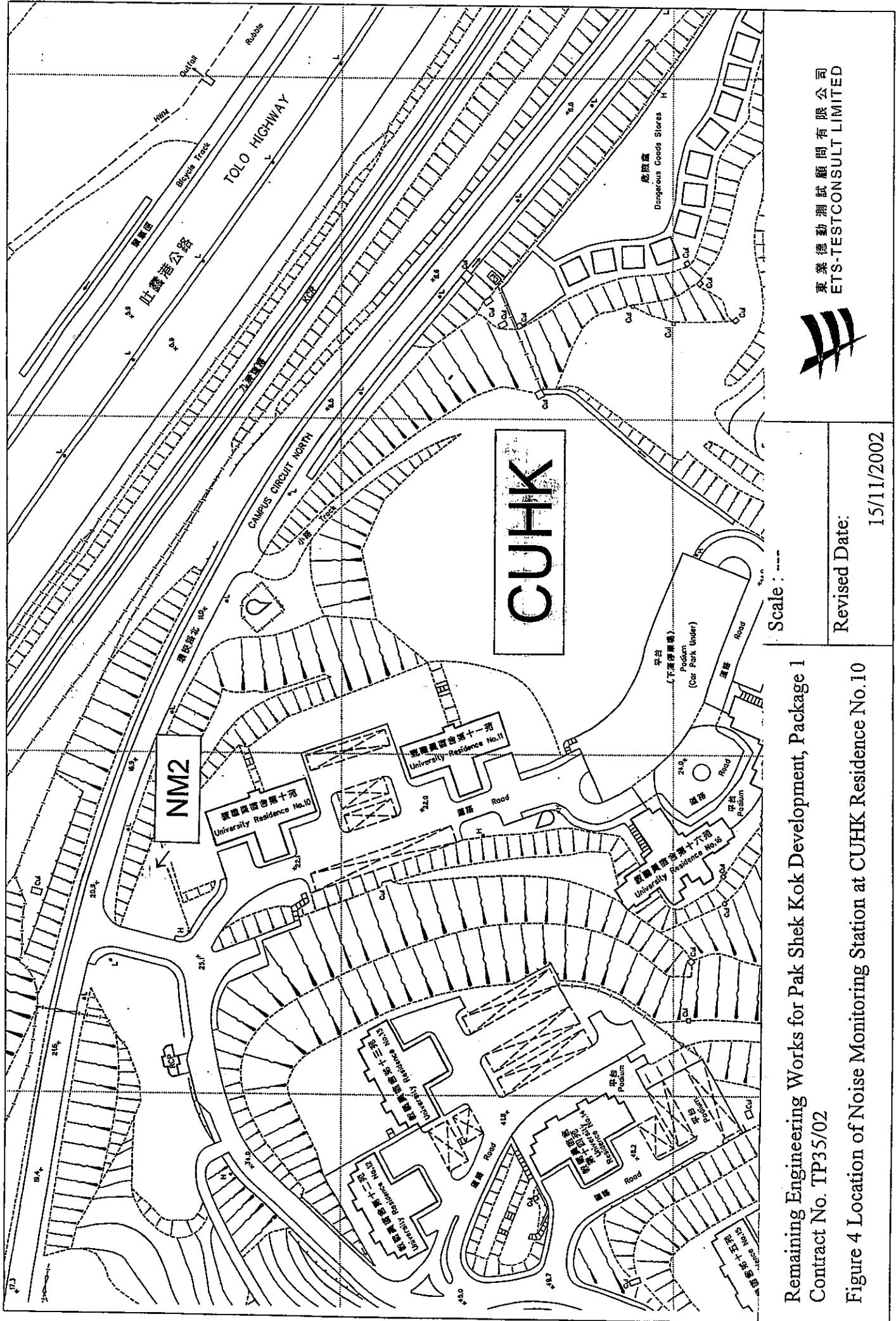




Remaining Engineering Works for Pak Shek Kok Development, Package 1  
Contract No. TP35/02

Contract No. TP35/02

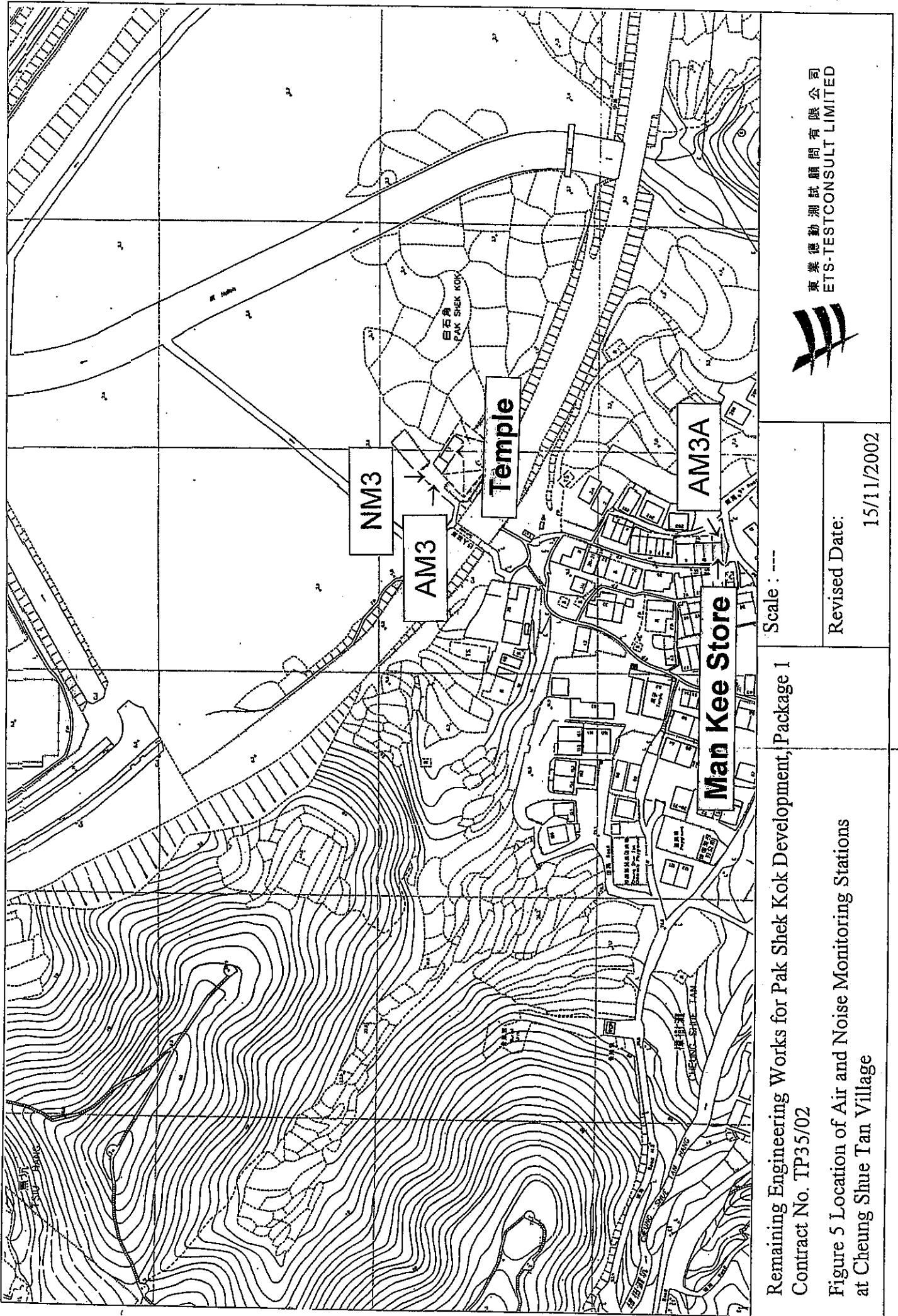
Figure 3 Location of Air and Noise Monitoring Stations at HKIB Staff Accommodation



Remaining Engineering Works for Pak Shek Kok Development, Package 1  
Contract No. TP35/02  
Figure 4 Location of Noise Monitoring Station at CUHK Residence No.10

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Remaining Engineering Works for Pak Shek Kok Development, Package 1

Scale : ---

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Figure 5 Location of Air and Noise Monitoring Stations at Cheung Shue Tan Village