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

LEADER – WAI KEE (C&T) JOINT VENTURE

REMAINING ENGINEERING INFRASTRUCTURE WORKS FOR PAK SHEK KOK DEVELOPMENT PACKAGE 2A (CONTRACT NO.: TP 37/03)

MONTHLY EM&A REPORT

(JUNE 2005)

Prepared by: Linda Law
Linda Law
Environmental Officer

Checked by:
C. L. Lau
Environmental Team Leader

Approved by:
Tony Wong
Operations Manager

TABLE OF CONTENTS **Page**

APPENDIX

Figure

Tables

EXECUTIVE SUMMARY

This monthly EM&A report (No.2) 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 2A (Contract No: TP 37/03) during the reporting period from 01 to 30 June 2005.

Construction Progress

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

- *Drainage works (excavation, pipe lying and breaking) at Section 5, 6,7 & 8*
- *Taking up of rubbles and under-layers at Landscape Node P1, P2 and Public Landing Steps*
- *Taking up existing utilities at cycle track adjoining to landscape Nod P2*
- *Construction of Kerb Planter Wall and Feature Wall at PSK Waterfront Promenade*
- *Abandon the existing 3200 dia. Drain pipe across the proposed promenade and existing cycle track at Zone R*
- *Dismantle of existing HY/98/02 site office*

Environmental Monitoring Progress

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

- *Noise Monitoring (Day-time): 5 Occasion at 4 designated locations*
- *24-hour TSP Monitoring: 5 Occasions at 3 designated locations*
- *1-hour TSP Monitoring: 13 Occasions at 3 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 and 1-hr TSP monitoring in the reporting month.

Wastewater Monitoring

During this reporting month, no wastewater monitoring was carried out since the Discharge Licence required carrying out wastewater monitoring at effluent discharge point quarterly and the monitoring had been carried out at 25 May 2005 by ET. The next wastewater monitoring should be at August 2005.

Site Inspection

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

Concerned Parties	*Dates of Audit / Inspection*
Weekly site inspection (ET)	*04, 09, 18, 25*
Monthly site inspection (IEC/LWKJV/RE)	*29*

The observations were raised during this reporting month. The site inspection findings are presented as follows:

Item	*Aspects*	*Findings*	*Action(s) taken by LWKJV*	*ET Verification*
1	*Water*	*Refer to the previous site inspection of the last month, standing water observed at Road L4 was drained out during weekly site inspection (04/06/05).*	*Since the finding was improved, no further actions were required.*	*Since the finding was improved, no further verifications were required.*
2	*Waste*	*The rubbish skip was found full at Road L4 during weekly site inspection (09/06/05).*	*The Contractor replied to clean the rubbish skip frequently and if necessary.*	*During the subsequent site inspection (18/06/05), it was found that the rubbish had been clean up. Hence, the finding was completed and no further actions were required.*
3	*Air*	*Stockpile of excavated material at Road L4 was found without cover during weekly site inspections (09/06/05 and 18/06/05).*	*The Contractor replied to cover the stockpile area.*	*During the subsequent site inspection (23/06/05), it was found that the stockpile at Road L4 was found removed. Hence, no further actions were required and the finding was completed.*
4	*Chemical*	*Chemical container at Landscape Node 1 was on the ground without drip tray during weekly site inspection (09/06/05).*	*The Contractor replied to remove the chemical container to chemical storage area immediately*	*During the subsequent site inspection (18/06/05), it was found that the chemical container had been removed. Hence, the finding was completed and no further actions were required.*

Item	Aspects	Findings	Action(s) taken by LWKJV	ET Verification
5	Water	The silt curtain was found not fully enclosed in the working area at Landscape Node 1 during weekly site inspection (18/06/05).	The Contractor replied to enclose the working area by using silt curtain during marine works.	During the subsequent site inspection (23/06/05), it was found that the working area at Landscape Node 1 was enclosed by silt curtain. Hence, the finding was completed and no further actions were required.
6	Water	Site runoff was found directly discharged into the sea at SA14 during weekly site inspections (18/06/05 and 23/06/05).	The Contractor replied to treat the site runoff (e.g. passing through sedimentation tank) before discharge.	Since the finding was still observed at the last weekly site inspection of this reporting month, the finding will be verified at the first inspection at the coming month.

Waste Management

According to weekly site inspection, ET found that the Contractor followed the recommended procedures stipulated in the Waste Management Plan (WMP) on handling and disposal of wastes. 5100 m^3 inert C&D materials and 2000 kg C&D Wastes (e.g. general refuse) were generated. All inert C&D materials were reused in the Contract and other wastes were handling under the instruction and procedure stated in the WMP in 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 or sedimentation tanks;
- Use and maintenance of silt curtain properly during marine works;
- Maintain good site practice and waste management to minimize environmental impacts at the site;
- Follow-up improvements on waste management issues.

1.0 INTRODUCTION

Leader – Wai Kee (C&T) Joint Venture (LWKJV) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A (Contract No.: TP 37/03).

In accordance with the 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 30 June 2005.

2.0 PROJECT INFORMATION

2.1 Background

Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A (Contract No.: TP 37/03) was planned and designed by the Civil Engineering and Development Department (CEDD).

As the main Contractor of the captioned project: contracted by, LWKJV 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	*Mr. M. S. Lam*	*Employer*	*2158 5630*	*2693 2918*
Hyder	*Mr. Herman Fong*	*Engineer*	*2603 6638*	*2603 7883*
LWJV	*Mr. T. T. Wong*	*Project Manager*	*2442 1123*	*2442 9733*
Hyder	*Ir. Coleman Ng*	*Independent Environmental Checker*	*2911 2233*	*2805 5028*
ETL	*Mr. C.L. Lau*	*Environmental Team Leader*	*2946 7791*	*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

Major Construction Activity	*Location*
Drainage Works (Excavation, pipe lying and breaking)	*Section 5, 6, 7, 8*
Taking up of rubbles and underlayers	*Landscape Node P1, P2 and Public Landing Steps*
Taking up existing utilities	*Cycle track adjoining to Landscape Node P2*
Planter Wall Construction	*Pak Shek Kok Waterfront Promenade*
Abandon the existing 3200 dia. Drain pipe across the proposed promenade and existing cycle track	*Zone ZR*
Dismantle of existing HY/98/02 site office	*HY/98/02 site office*

Table 3.2 Implementation of Environmental Mitigation Measures

General construction works	• *Effective water sprays used on the site at potential dust emission sources such as haul roads and unpaved areas;* • *The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading;* • *Minimize of exposed soil areas to reduce the potential for increased siltation and contamination of run-off;* • *Water, hydro-seed or cover the open stockpile and exposed loose soil areas by using clean tarpaulin sheets;* • *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;* • *Remove the sand/rubbish accumulated in the drain/channel regularly;* • *Use and maintenance of silt curtain properly during marine works;* • *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;* • *Remove the construction waste accumulated inside or outside the site regularly.*

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

1-hour and 24-hour TSP monitoring were required to 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;*
- *Near Wen Chih Tang at the CUHK.*

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 certificates for the HVS and portable dust meter are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

Equipment	*Model and Make*
HVS	*Greasby GMWS2310*
Calibrator	*Tisch TE-5025A*
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

Table 4.3 tabulates the air quality monitoring locations of this project.

Table 4.3 Air quality monitoring locations

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*
AM5	*Near Wen Chih Tang at the CUHK*

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		*Finish*		*Date*	*Start*	*Finish*
		Date	*Time*	*Date*	*Time*			
AM1	*HKIB Staff Accommodation*	---				*02/06/05*	*17:08*	*18:08*
						04/06/05	*09:00*	*10:00*
						07/06/05	*14:45*	*15:45*
						08/06/05	*09:00*	*10:00*
						09/06/05	*15:08*	*16:08*
						14/06/05	*09:00*	*10:00*
						16/06/05	*09:45*	*10:45*
						18/06/05	*14:20*	*15:20*
						21/06/05	*08:45*	*09:45*
						23/06/05	*08:45*	*09:45*
						25/06/05	*08:15*	*09:15*
						28/06/05	*09:00*	*10:00*
						30/06/05	*10:15*	*11:15*

Air quality monitoring stations	Location	Monitoring Period						
		24-hr TSP				1-hr TSP		
		Start		Finish		Date	Start	Finish
		Date	Time	Date	Time			
AM3	Cheung Shue Tan Village (Near the outer building, temple)	---				02/06/05	10:56	11:56
						04/06/05	10:15	11:15
						07/06/05	09:00	10:00
						08/06/05	15:00	16:00
						09/06/05	09:00	10:00
						14/06/05	13:00	14:00
						16/06/05	16:30	17:30
						18/06/05	13:00	14:00
						21/06/05	14:30	15:30
						23/06/05	14:00	15:00
						25/06/05	13:00	14:00
						28/06/05	14:45	15:45
						30/06/05	15:10	16:10
AM5	Near Wen Chih Tang at the CUHK	---				02/06/05	13:00	14:00
						04/06/05	15:30	16:30
						07/06/05	10:20	11:20
						08/06/05	10:15	11:15
						09/06/05	10:20	11:20
						14/06/05	10:20	11:20
						16/06/05	11:00	12:00
						18/06/05	18:00	19:00
						21/06/05	15:50	16:50
						23/06/05	15:12	16:12
						25/06/05	11:00	12:00
						28/06/05	13:15	14:15
						30/06/05	16:23	17:23
AM1	HKIB Staff Accommodation	04/06/05	18:20	05/06/05	18:16	---		
		10/06/05	10:45	11/06/05	10:40			
		16/06/05	09:55	17/06/05	09:59			
		22/06/05	15:12	23/06/05	15:23			
		28/06/05	09:05	29/06/05	08:55			
AM3A	Cheung Shue Tan (in front of Man Kee Store)	04/06/05	18:40	05/06/05	18:53	---		
		10/06/05	10:30	11/06/05	10:31			
		16/06/05	16:40	17/06/05	16:26			
		22/06/05	15:36	23/06/05	15:16			
		28/06/05	14:50	29/06/05	15:18			
AM5	Near Wen Chih Tang at the CUHK	04/06/05	18:30	05/06/05	18:45	---		
		10/06/05	10:55	11/06/05	11:03			
		16/06/05	11:07	17/06/05	11:07			
		22/06/05	15:23	23/06/05	15:38			
		28/06/05	13:20	29/06/05	13:32			

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 0.6m^3/min and 1.7m^3/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 recoded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of 25°C $\pm$ 3°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 (μg/m³)		1-hr TSP (μg/m³)	
	Action Level	Limit Level	Action Level	Limit Level
AM1	164 *	260 *	325 *	500 *
AM3	---	---	306 **	500 **
AM3A	183 **	260 **	---	---
AM5	174	260	329	500

* = 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.

** = Reference to the information contained in the Baseline Monitoring Report submitted under the "Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 – Contract No. TP 35/02.

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;*
- *Near Wen Chih Tang at the CUHK.*

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_{eq}) and percentile sound pressure level (Lx). 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 NL-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 Leq, L10 and L90 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 $L_{eq(5\text{-}min)}$);*
- *One set of measurements between 1900-2300 hours (3 consecutive $L_{eq(5\text{-}min)}$)*;*
- *One set of measurements between 2300-0700 hours of next day (3 consecutive $L_{eq(5\text{-}min)}$)*;*
- *One set of measurements between 0700-1900 hours on holidays (3 consecutive $L_{eq(5\text{-}min)}$)*.*

(*): 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 this reporting month, there were four noise monitoring locations: HKIB Staff Accommodation, Cheung Shue Tan Village, CUHK Residence No.10 and Near Wen Chih Tang at the CUHK. 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)*
NM8	*Near Wen Chih Tang at the CUHK*

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

Monitoring stations	*Monitoring Period*							
	Day-time		*Evening-time*		*Holiday*		*Night-time*	
NM1	*02/06/05*	*17:13*	---	---	---	---	---	---
	09/06/05	*15:15*	---	---	---	---	---	---
	16/06/05	*09:50*	---	---	---	---	---	---
	25/06/05	*08:13*	---	---	---	---	---	---
	*30/06/05 **	---	---	---	---	---	---	---
NM2	*02/06/05*	*13:48*	---	---	---	---	---	---
	09/06/05	*11:08*	---	---	---	---	---	---
	16/06/05	*17:50*	---	---	---	---	---	---
	25/06/05	*11:17*	---	---	---	---	---	---
	*30/06/05 **	---	---	---	---	---	---	---
NM3	02/06/05	11:00	---	---	---	---	---	---
	09/06/05	09:03	---	---	---	---	---	---
	16/06/05	16:35	---	---	---	---	---	---
	25/06/05	13:02	---	---	---	---	---	---
	30/06/05 *	---	---	---	---	---	---	---

Monitoring stations	Monitoring Period							
	Day-time		Evening-time		Holiday		Night-time	
NM8	02/06/05	13:03	---	---	---	---	---	---
	09/06/05	10:23	---	---	---	---	---	---
	16/06/05	11:03	---	---	---	---	---	---
	25/06/05	10:02	---	---	---	---	---	---
	30/06/05 *	---	---	---	---	---	---	---

Remark (*): The noise monitoring was cancelled due to the rain.

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

Only Day-time noise monitoring were carried out at monitoring stations in this reporting month. No Evening-time, Night-time and Holiday noise monitoring were required since no construction works were processed during the night-time period. All noise levels are provided in Appendix C2. Graphical presentation of the monitoring results for the reporting month is shown in Appendix C3.

No Day-time 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 noise monitoring.

6.0 WASTEWATER MONITORING

Effluent Discharge License of this Project is valid from 06 December 2004 (Discharge Licence No.: 3246-Part A and Part B).

Water quality monitoring was carried out at 25 May 2005. One wastewater sample was collected from the discharge point at the construction site. The results of suspended solids content of the wastewater sample was complied the discharge limit of the Discharge Licence. The test report was attached at Appendix I.

Since the Discharge Licence required carrying out wastewater monitoring at effluent discharge point quarterly, the next wastewater monitoring should be at August 2005.

7.0 ENVIRONMENTAL NON-CONFORMANCE

7.1 Summary of environmental 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 noise level measured at all monitoring stations exceeded the Action and Limit Level in the reporting month. No evening-time, night-time and holiday noise monitoring were required since no construction works were processed during these periods.

During this reporting month, no wastewater monitoring was carried out since the Discharge Licence required carrying out wastewater monitoring at effluent discharge point quarterly and the monitoring had been carried out at 25 May 2005 by ET. The next wastewater monitoring should be at August 2005.

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 was no notification of summons respect to environmental issues registered in this month.

8.0 SITE INSPECTION

Weekly site inspections were carried out by the ET in this reporting month (04, 09, 16 and 23 June 2005). Monthly joint site inspection at 29 June 2005 was carried out by Engineer's Representative, IEC and LWKJV. The implementation status of the mitigation measures on site inspections in this reporting month is presented in Appendix H.

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

Summaries of the site inspection findings in this reporting month are shown in Table 8.1.

Table 8.1 The summary of the site inspection findings and Action(s) taken by LWKJV and ET

Item	*Aspects*	*Findings*	*Action(s) taken by LWKJV*	*ET Verification*
1	*Water*	*Refer to the previous site inspection of the last month, standing water observed at Road L4 was drained out during weekly site inspection (04/06/05).*	*Since the finding was improved, no further actions were required.*	*Since the finding was improved, no further verifications were required.*
2	*Waste*	*The rubbish skip was found full at Road L4 during weekly site inspection (09/06/05).*	*The Contractor replied to clean the rubbish skip frequently and if necessary.*	*During the subsequent site inspection (18/06/05), it was found that the rubbish had been clean up. Hence, the finding was completed and no further actions were required.*
3	*Air*	*Stockpile of excavated material at Road L4 was found without cover during weekly site inspections (09/06/05 and 18/06/05).*	*The Contractor replied to cover the stockpile area.*	*During the subsequent site inspection (23/06/05), it was found that the stockpile at Road L4 was found removed. Hence, no further actions were required and the finding was completed.*
4	*Chemical*	*Chemical container at Landscape Node 1 was on the ground without drip tray during weekly site inspection (09/06/05).*	*The Contractor replied to remove the chemical container to chemical storage area immediately*	*During the subsequent site inspection (18/06/05), it was found that the chemical container had been removed. Hence, the finding was completed and no further actions were required.*
5	*Water*	*The silt curtain was found not fully enclosed in the working area at Landscape Node 1 during weekly site inspection (18/06/05).*	*The Contractor replied to enclose the working area by using silt curtain during marine works.*	*During the subsequent site inspection (23/06/05), it was found that the working area at Landscape Node 1 was enclosed by silt curtain. Hence, the finding was completed and no further actions were required.*
6	*Water*	*Site runoff was found directly discharged into the sea at SA14 during weekly site inspections (18/06/05 and 23/06/05).*	*The Contractor replied to treat the site runoff (e.g. passing through sedimentation tank) before discharge.*	*Since the finding was still observed at the last weekly site inspection of this reporting month, the finding will be verified at the first inspection at the coming month.*

8.2 Status of Environmental Licensing and Permitting

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

Table 8.2 Summary of environmental licensing and permit status

Description	*Permit No.*	*Valid Period*		*Section*
		From	*To*	
Construction Noise Permit	*GW-RN0682-04*	*30/12/04*	*29/06/05*	*Group A* *One Tug Boat (CNP221)* *Group B* *Two Derrick Barge (CNP061)* *One Dredger, grab (CNP063)*
Construction Noise Permit	*GW-RN0266-05*	*01/07/05*	*31/12/05*	*Group A* *One Poker, vibrator, hand-held (CNP170)* *One Concrete pump, lorry mounted (CNP047)* *One Concrete lorry mixer (CNP044)* *Group B* *One Dump Truck (CNP067)* *One Excavator, tracked (CNP081)*
Chemical Waste Producer	*5113-729-LL1113-01*	*24/09/04*	*---*	*Spent lubricating oil, spent battery parts containing heavy metals*
Wastewater Discharge License	*3246 – Part A*	*06/12/04*	*05/12/09*	*Discharge of trade Effluent, surface run-off and all other wastewater arising from the construction site and sedimentation tank to Coastal water or communal drain for the carriage of surface drainage water.*
Wastewater Discharge License	*3246 – Part B*	*06/12/04*	*05/12/09*	*Discharge of trade Effluent, surface run-off and all other wastewater arising from the construction site and on-site aerobic waste water treatment system to soak-away pit.*

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

Based on the site inspection findings, the recommendations are as below:

- *All stockpiles should be covered with clean tarpaulin sheets, spraying with water 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;*
- *Minimize of exposed soil areas to reduce the potential for increased siltation and contamination of run-off;*
- *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;*
- *Use and maintenance of silt curtain properly during marine works;*
- *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;*
- *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. The implementation status of the mitigation measures on waste management in this reporting month 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*	*Cumulative Quantity*
Inert C&D Materials	*Total Quantity Generated (m^3)*	*5100*	*Reused in the Contract*	*38915*
	Broken Concrete (m^3)	*100*	*N/A*	*485*
	Reused in the Contract (m^3)	*5000*	*N/A*	*38500*
	Reused in other Projects (m^3)	*0*	*N/A*	*0*
	Disposal as Public Fill (m^3)	*0*	*N/A*	*0*
C&D Waste	*Metals (1000kg)*	*0*	*N/A*	*37.341*
	Paper/Cardboard Packaging (1000kg)	*0*	*N/A*	*0.010*
	Plastics (1000kg)	*0*	*N/A*	*0.014*
	Chemical Waste (1000kg)	*0*	*N/A*	*1*
	Other, e.g. General Refuse (1000kg)	*2*	*SENT*	*60.29*

10.0 IMPLEMENTATION STATUS

10.1 Implementation Status of Environmental Mitigation Measures

LWKJV has been implementing the required environmental mitigation measures according to the Mitigation Protection Measures stated in Implementation Schedule of the EM&A Manual. The implementation status of the environmental mitigation measures in this reporting month is presented in Appendix H.

Air Quality

The Contractor was reminded to water 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 and provide effective wheel washing facilities.

Noise

All mitigation measures stated in Appendix H 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.

Waste Management

LWKJV 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 noise level measured at all monitoring stations exceeded the Action and Limit Level in the reporting month. No Evening-time, Night-time and Holiday noise monitoring were required since no construction works were processed during these periods.

During this reporting month, no wastewater monitoring was carried out since the Discharge Licence required carrying out wastewater monitoring at effluent discharge point quarterly and the monitoring had been carried out at 25 May 2005 by ET. The next wastewater monitoring should be at August 2005.

According to the ET weekly site inspection and IEC monthly site audit carried out this month, it indicated that site practices of the LWKJV 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	*July 2005*	*August 2005*
Noise Monitoring (Day-time)	*05, 12, 19, 26*	*02,09, 16, 23, 30*
1-hour TSP	*02, 05, 07, 09, 12, 14, 16, 19, 21, 23, 26, 28, 30*	*02, 04, 06, 09, 11, 13, 16, 18, 20, 23, 25, 27, 30*
24-hour TSP	*04, 09, 15, 21, 27*	*02, 08, 13, 19, 25, 31*
Site Inspection	*07, 14, 21, 28*	*04, 11, 18, 25*

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.

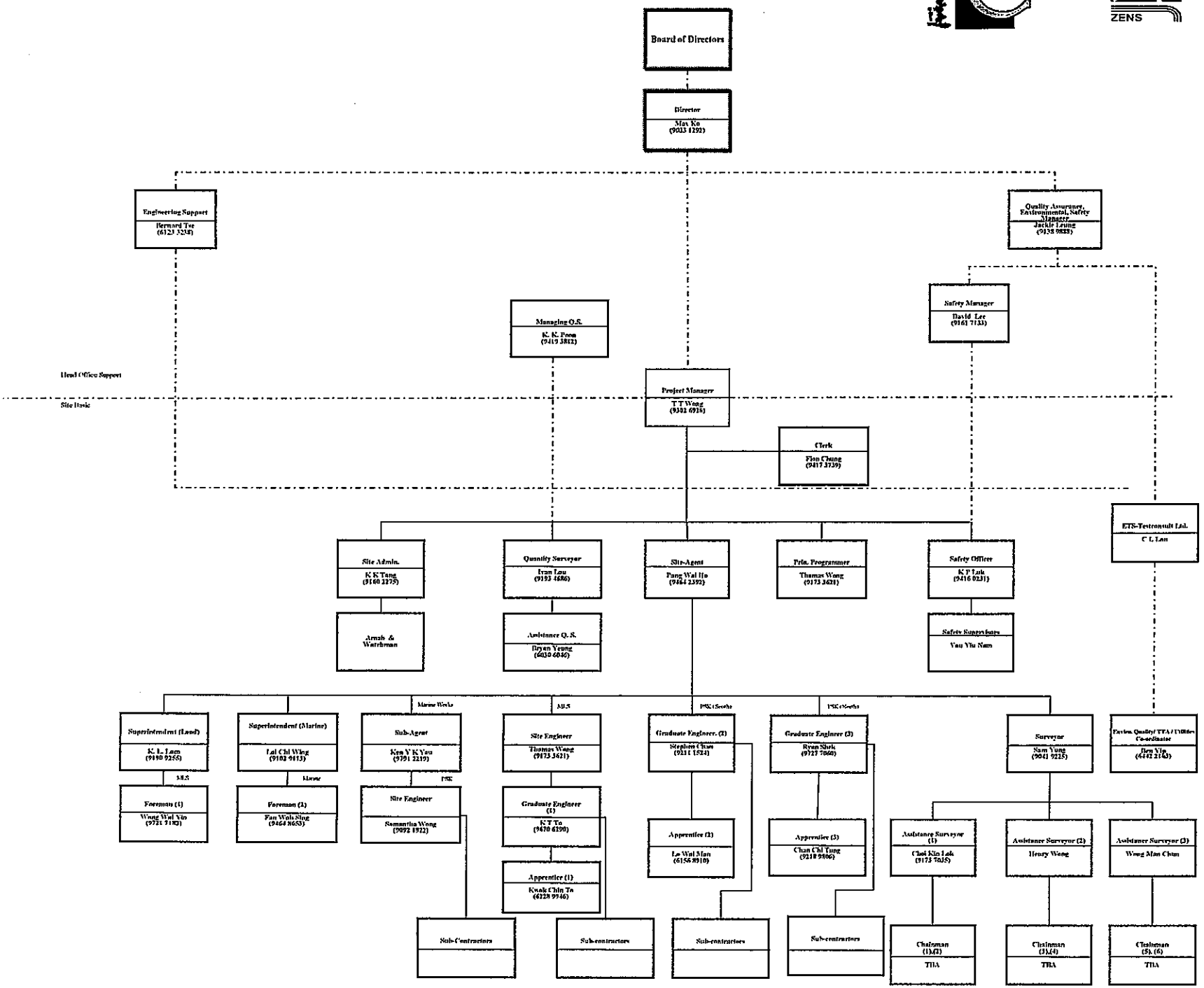
Table 12.2 – Construction Plan in the coming month

Month	*Works Planned to be Carried Out*
Between July and August 2005	▪ *Drainage Works (excavation, pipe lying and breaking) at Section 5, 6, 7 and 8;* ▪ *Construction of Landscape Node P1, P2 and Public Landing Steps;* ▪ *Piling works at SA3;* ▪ *Preloading mound at SA3;* ▪ *Construction of parapet wall, kerb planter wall and feature wall at PSK promenade.*

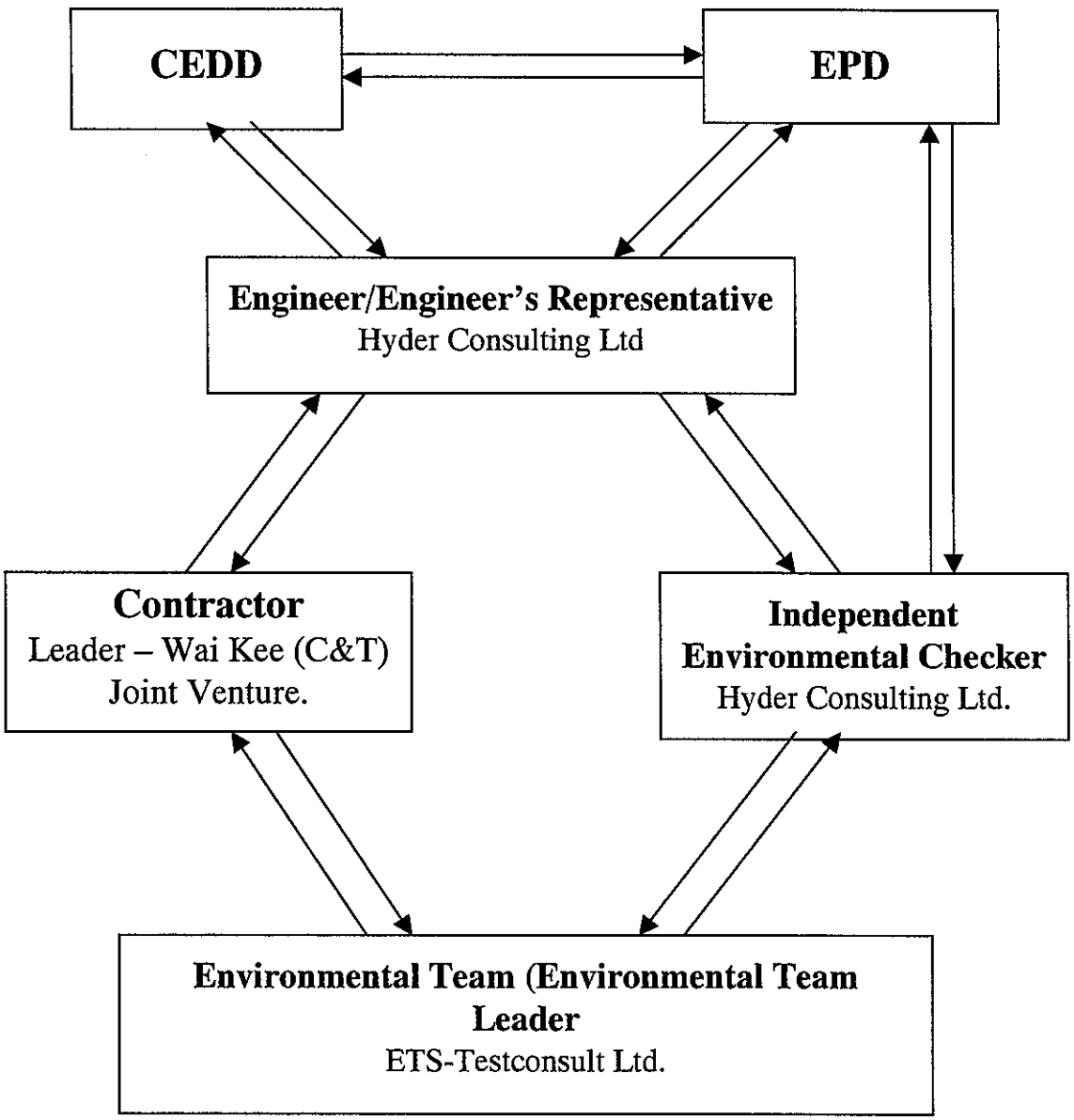
Appendix A

Organization Chart and Lines of Communication

Leader - Wai Kee (C&T) Joint Venture
Contract No. TP 3703
Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A
ORGANIZATION CHART



Lines of Communication



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

Internal Calibration Report of Dust Trak Monitor

Manufacturer : TSI - 8520 Dust Trak

Date of Calibration : 18 March 2005

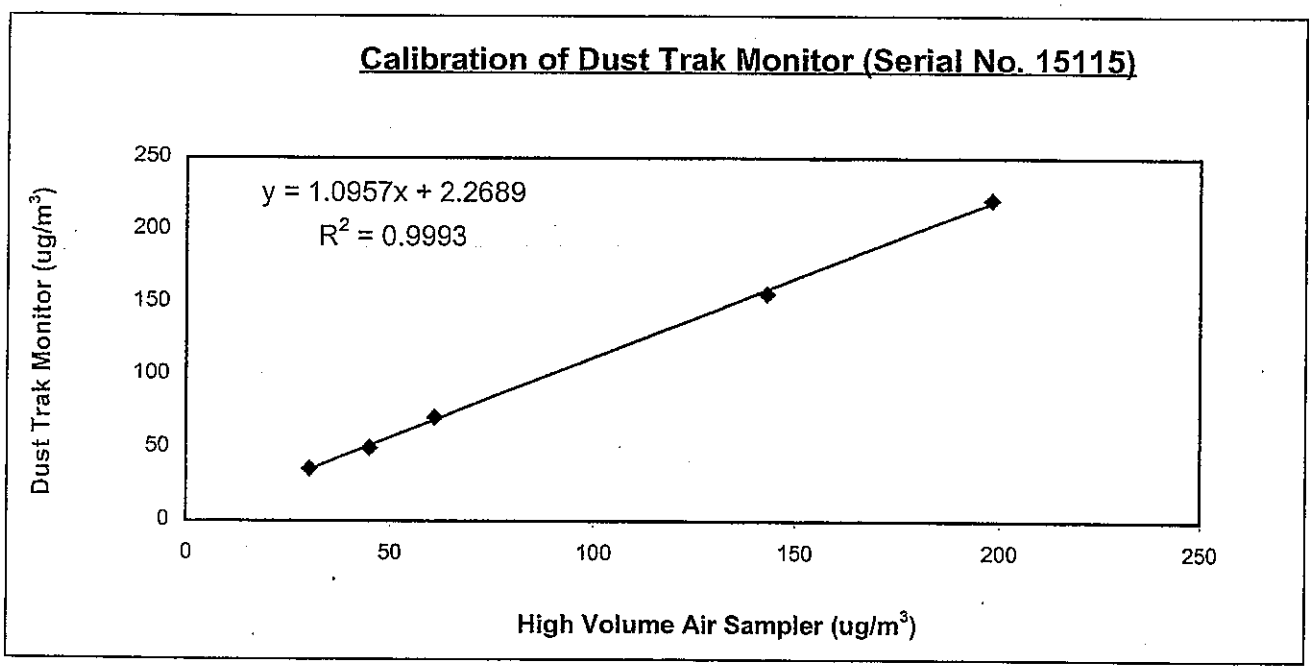
Serial No. : 15115 (EA/001/02)

Calibration Due Date : 17 September 2005

Method : Place two Dust Trak Monitor together at same environment condition for parallel measurement with five point calibration

Results :

Dust Trak Monitor (ug/m^3)	36	50	71	156	221
High Volume Air Sampler (ug/m^3)	30	45	61	143	198
High Volume Air Sampler Serail No.: 1178		Calibration Date: 15 / 03 / 2005			



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

The Dust Trak Monitor complies * / ~~does not comply *~~ with the internal calibration procedures and is deemed acceptable */ ~~unacceptable *~~ for use.

Calibrated by : _____
Felix Tin
(Technician)

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

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 : 14 May 2005

Serial No. : 1178 (ET / EA / 003 / 01)

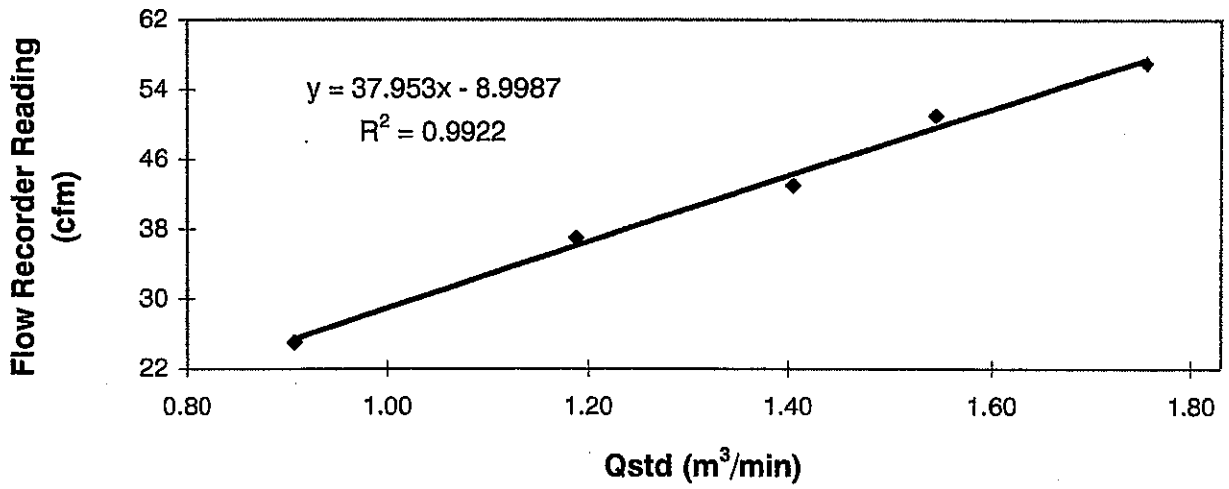
Calibration Due Date : 13 July 2005

Method : Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A

Results :

Flow recorder reading (cfm)	57	51	43	37	25
Qstd (Actual flow rate, m^3/min)	1.75	1.55	1.40	1.19	0.91
Pressure : 754.56 mm Hg		Temp. : 302 K			

Sampler1178 Calibration Curve
Site: Pak Shek Kok Monitoring Station AM1 (24hr.)
Date of Calibration: 14 May 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 : _____
Peter Leung
(Technician)

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

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 : 14 May 2005

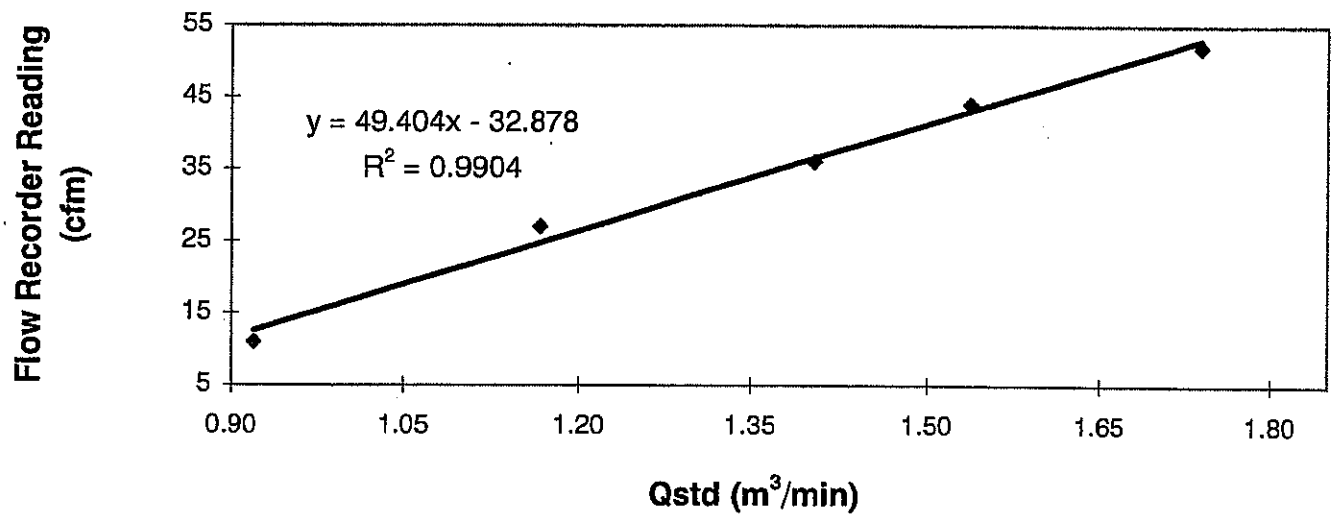
Serial No. : 7179 (ET / EA / 003 / 16) Calibration Due Date : 13 July 2005

Method : Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A

Results :

Flow recorder reading (cfm)	52	44	36	27	11
Qstd (Actual flow rate, m^3/min)	1.74	1.54	1.40	1.17	0.92
Pressure : 754.56 mm Hg		Temp. : 302 K			

Sampler 7179 Calibration Curve
Site: Pak Shek Kok (AM3A)
Date of Calibration: 14 May 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 : _____
Peter Leung
(Technician)

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

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 : 14 May 2005

Serial No. : 1172 (ET / EA / 003 / 11)

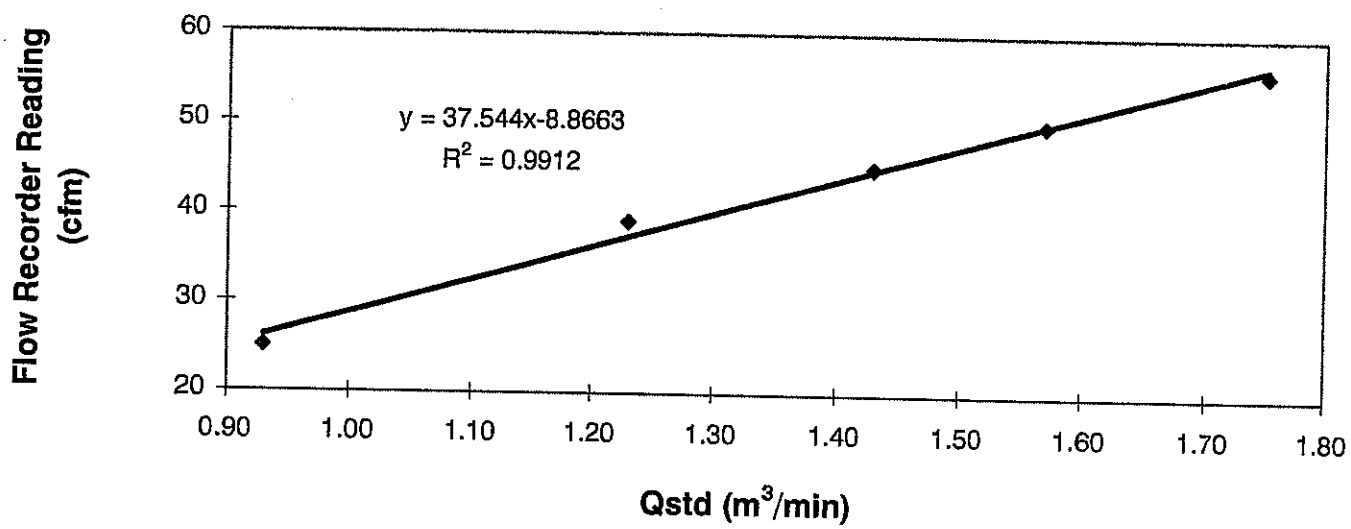
Calibration Due Date : 13 July 2005

Method : Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A

Results :

Flow recorder reading (cfm)	56	50	45	39	25
Qstd (Actual flow rate, m^3/min)	1.75	1.57	1.43	1.23	0.93
Pressure : 754.56 mm Hg		Temp. : 302 K			

Sampler 1172 Calibration Curve
Site: Pak Shek Kok (AM5)
Date of Calibration: 14 May 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 : _____
Peter Leung
(Technician)

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

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 (m^3/min.)		Average (m^3/min.)	Filter Weight (g)		Conc. ($\mu g/m^3$)	Weather Condition
Date	Time	Date	Time	Initial	Final		Initial	Final		Initial	Final		
04/06/05	18:20	05/06/05	18:16	8620.13	8644.06	23.93	1.24	1.24	1.24	2.9070	3.0164	61	Cloudy
10/06/05	10:45	11/06/05	10:40	8644.06	8667.97	23.91	1.24	1.24	1.24	2.8909	2.9696	44	Cloudy
16/06/05	09:55	17/06/05	09:59	8667.97	8692.04	24.07	1.24	1.24	1.24	2.8363	2.9167	45	Cloudy
22/06/05	15:12	23/06/05	15:23	8692.04	8716.22	24.18	1.26	1.26	1.26	2.8336	2.8976	35	Rainy
28/06/05	09:05	29/06/05	08:55	8716.22	8740.05	23.83	1.26	1.26	1.26	2.8613	2.8952	19	Sunny

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

Start		Finish		Elapse Time		Sampling Time (hrs)	Flow Rate (m^3/min.)		Average (m^3/min.)	Filter Weight (g)		Conc. ($\mu g/m^3$)	Weather Condition
Date	Time	Date	Time	Initial	Final		Initial	Final		Initial	Final		
04/06/05	18:40	05/06/05	18:53	13959.45	13983.67	24.22	1.39	1.39	1.39	2.9052	2.9565	25	Cloudy
10/06/05	10:30	11/06/05	10:31	13983.67	14007.68	24.01	1.39	1.39	1.39	2.9091	2.9861	38	Cloudy
16/06/05	16:40	17/06/05	16:26	14007.88	14031.65	23.77	1.39	1.39	1.39	2.8136	2.8523	20	Cloudy
22/06/05	15:36	23/06/05	15:16	14031.65	14056.31	24.66	1.41	1.41	1.41	2.8380	2.8770	19	Rainy
28/06/05	14:50	29/06/05	15:18	14056.31	14080.78	24.47	1.41	1.41	1.41	2.8787	2.9161	18	Sunny

Monitoring Station : AM5
Location : Near Wen Chin Tung at the CUHK

Start		Finish		Elapse Time		Sampling Time (hrs)	Flow Rate (m^3/min.)		Average (m^3/min.)	Filter Weight (g)		Conc. ($\mu g/m^3$)	Weather Condition
Date	Time	Date	Time	Initial	Final		Initial	Final		Initial	Final		
04/06/05	18:30	05/06/05	18:45	3996.83	4021.08	24.25	1.14	1.14	1.14	2.8862	2.9296	26	Cloudy
10/06/05	10:55	11/06/05	11:03	4021.08	4045.22	24.14	1.14	1.14	1.14	2.9027	2.9631	37	Cloudy
16/06/05	11:07	17/06/05	11:07	4045.22	4069.22	24.00	1.14	1.14	1.14	2.8142	2.8510	22	Cloudy
22/06/05	15:23	23/06/05	15:38	4069.22	4093.47	24.25	1.20	1.20	1.20	2.8264	2.8637	21	Rainy
28/06/05	13:20	29/06/05	13:32	4093.47	4117.67	24.20	1.20	1.20	1.20	2.8710	2.9023	18	Sunny

Summary of 1-hr TSP Monitoring Results

Monitoring Station : AM1 (HKIB Staff Accommodation)

Date	Monitoring Period		1-hr TSP (μg/m³)			Weather
	Start	Finish	Minimum	Maximum	Average	
02/06/05	17:08	18:08	105	410	220	Cloudy
04/06/05	09:00	10:00	102	401	170	Cloudy
07/06/05	14:45	15:45	98	399	147	Cloudy
08/06/05	09:00	10:00	109	411	144	Sunny
09/06/05	15:08	16:08	98	381	143	Cloudy
14/06/05	09:00	10:00	82	397	152	Cloudy
16/06/05	09:45	10:45	86	372	148	Cloudy
18/06/05	14:20	15:20	69	331	96	Rainy
21/06/05	08:45	09:45	72	379	144	Rainy
23/06/05	08:45	09:45	51	498	170	Rainy
25/06/05	08:15	09:15	95	396	169	Cloudy
28/06/05	09:00	10:00	97	359	123	Sunny
30/06/05	10:15	11:15	55	347	106	Rainy

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

Date	Monitoring Period		1-hr TSP (μg/m³)			Weather
	Start	Finish	Minimum	Maximum	Average	
02/06/05	10:56	11:56	89	348	159	Cloudy
04/06/05	10:15	11:15	68	327	128	Cloudy
07/06/05	09:00	10:00	89	351	105	Cloudy
08/06/05	15:00	16:00	91	378	107	Sunny
09/06/05	09:00	10:00	79	311	88	Cloudy
14/06/05	13:00	14:00	72	330	144	Cloudy
16/06/05	16:30	17:30	64	320	120	Cloudy
18/06/05	13:00	14:00	57	296	79	Rainy
21/06/05	14:30	15:30	64	321	133	Rainy
23/06/05	14:00	15:00	47	466	138	Rainy
25/06/05	13:00	14:00	72	330	147	Cloudy
28/06/05	14:45	15:45	91	321	99	Sunny
30/06/05	15:10	16:10	42	288	75	Rainy

Summary of 1-hr TSP Monitoring Results

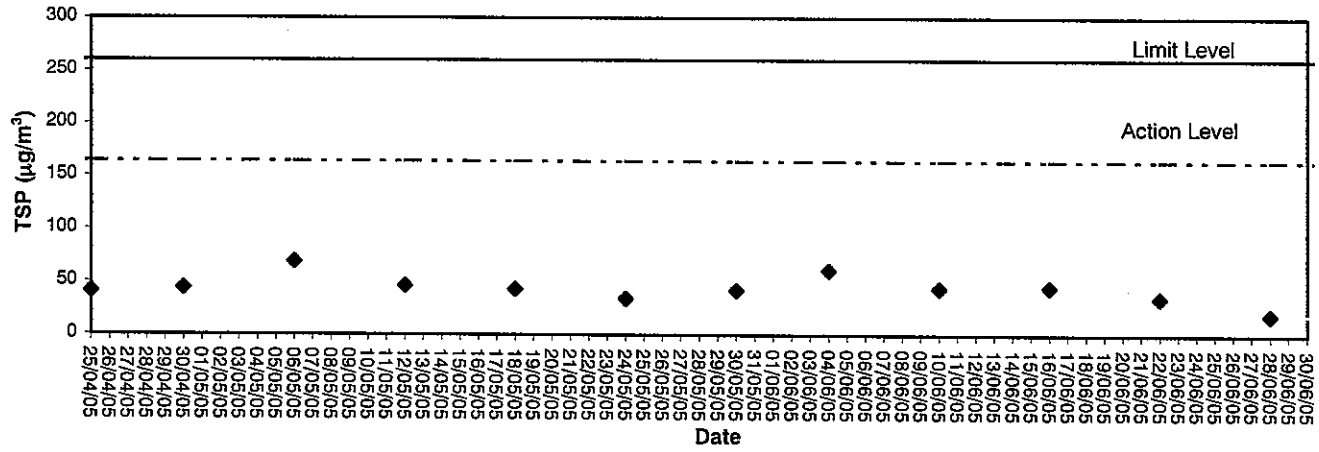
Monitoring Station : AM8 – Near Wen Vhih Tand at the CUHK

Date	Monitoring Period		1-hr TSP (μg/m³)			Weather
	Start	Finish	Minimum	Maximum	Average	
02/06/05	13:00	14:00	75	324	144	Cloudy
04/06/05	15:30	16:30	59	310	114	Cloudy
07/06/05	10:20	11:20	85	330	90	Cloudy
08/06/05	10:15	11:15	99	369	120	Sunny
09/06/05	10:20	11:20	83	362	92	Cloudy
14/06/05	10:20	11:20	64	318	141	Cloudy
16/06/05	11:00	12:00	58	317	115	Cloudy
18/06/05	18:00	19:00	63	312	87	Rainy
21/06/05	15:50	16:50	60	309	107	Rainy
23/06/05	15:12	16:12	55	475	182	Rainy
25/06/05	11:00	12:00	69	314	138	Cloudy
28/06/05	13:15	14:15	95	337	108	Sunny
30/06/05	16:23	17:23	47	306	83	Rainy

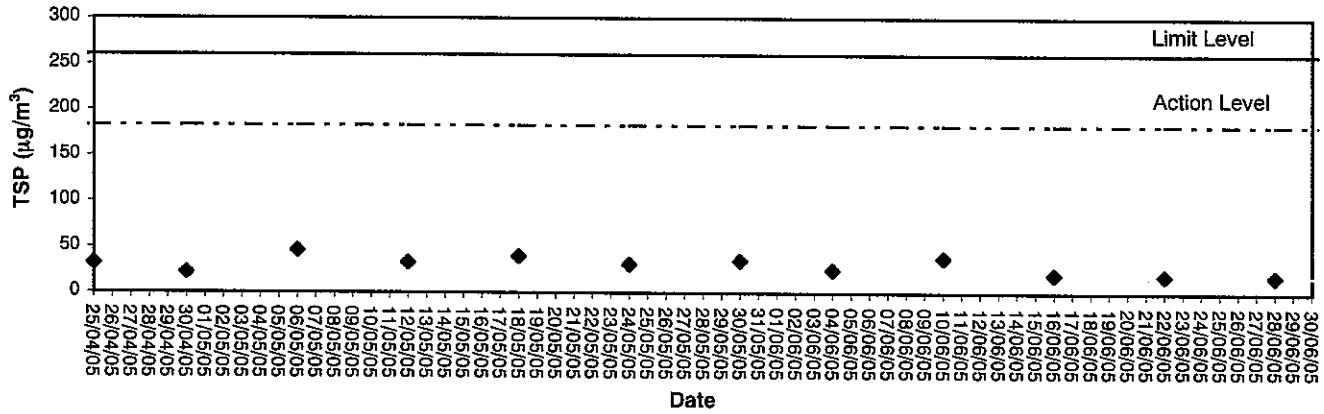
Appendix B3

Graphical Plots of Air Quality Monitoring Data

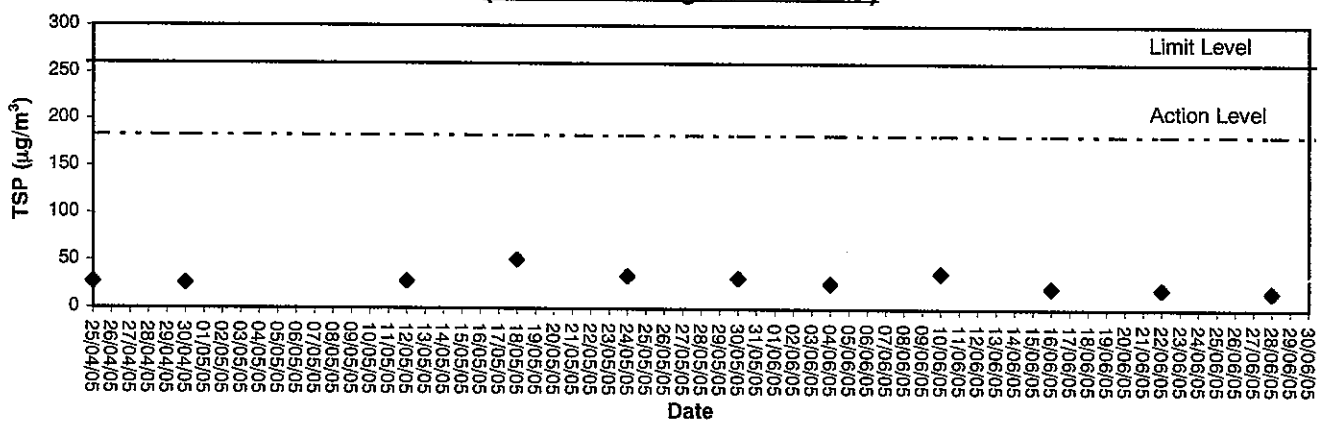
24-hour TSP level at AM1 (HKIB Staff Accommodation)



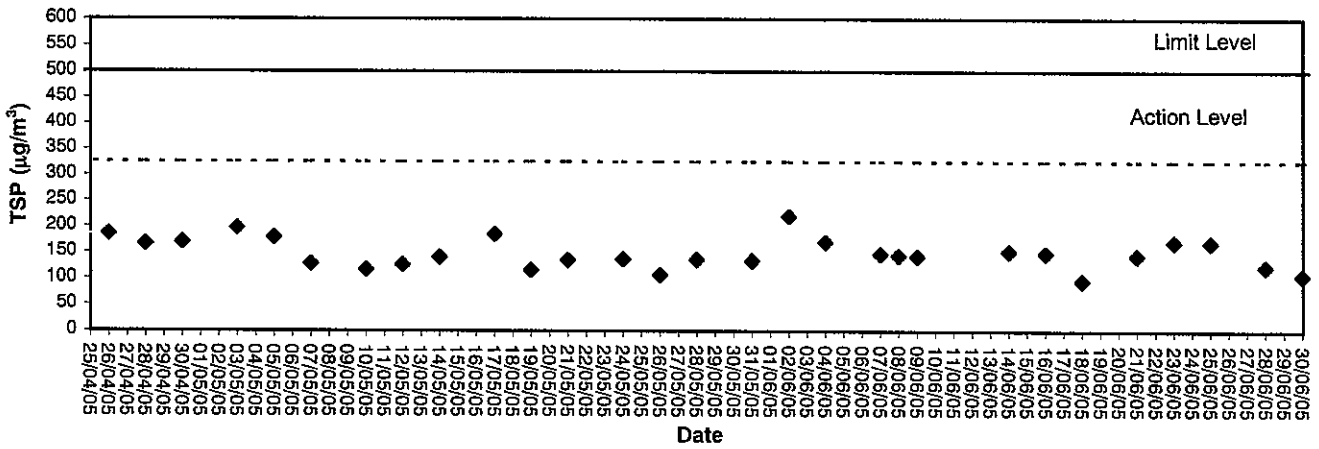
24-hour TSP level at AM3A (Cheung Shue Tan in front of Man Kee Store)



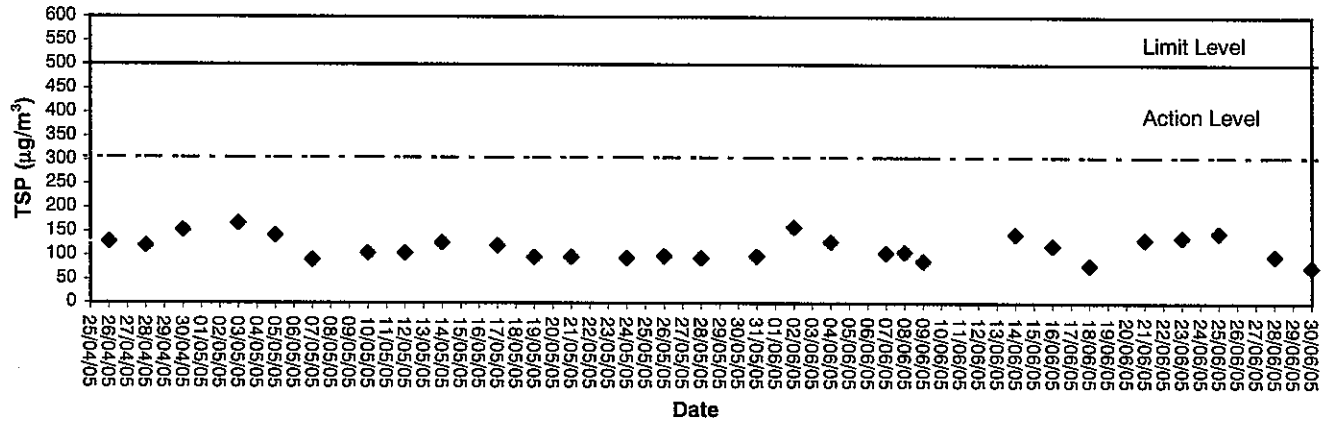
24-hour TSP level at AM5 (Wen Chih Tang at the CUHK)



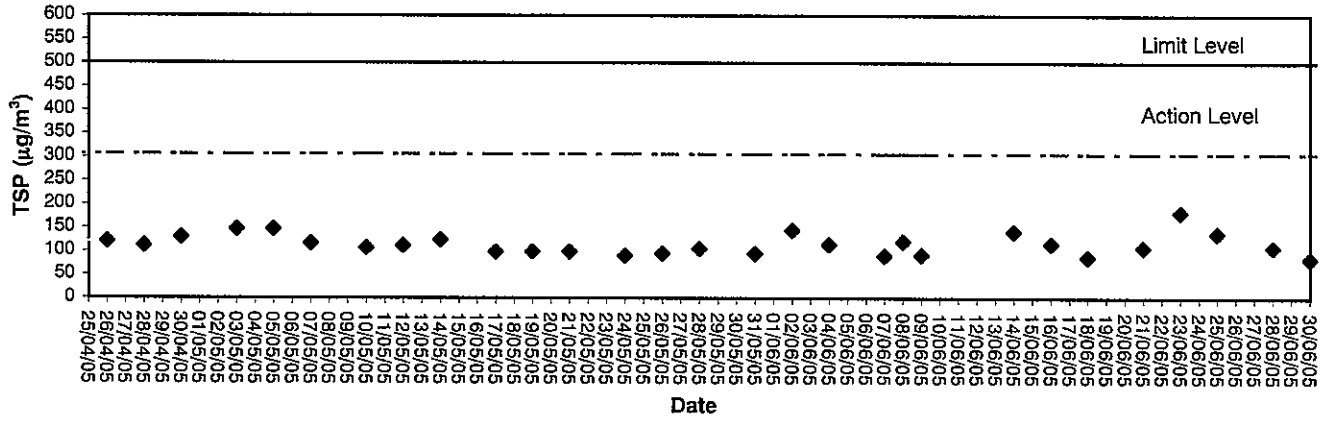
1-hour TSP level at AM1, HKIB Staff Accommodation



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



1-hour TSP level at AM5 Wen Chih Tang at the CUHK



Appendix C1

Calibration Certificates for Noise Monitoring Equipments

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **51472** 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. : Q50535 **Date of receipt :** 7-Apr-05

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-31 **Serial No. :** 00531142

Test Conditions

Date of Test : 20-Apr-05 **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	C051022	21-Mar-06	PRC-NIM
S024	S41431	22-May-05	PRC-NIM

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by : _____ **Approved by :** _____

Alan Chu - Manager

Date: 20-Apr-05

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 9801 Fax: 2425 8646

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting			UUT Reading (dB)	Correction (dB)
Level Range (dB)	Weight	Response		
20 – 100	L_A	Fast	94.0	+ 0.1
		Slow		+ 0.1
	L_C	Fast		0.0
	Lp	Fast		0.0
30 – 120	L_A	Fast	94.0	+ 0.1
		Slow		+ 0.1
	L_C	Fast		+ 0.1
	Lp	Fast		+ 0.1
30 – 120	L_A	Fast	114.0	+ 0.1
		Slow		+ 0.1
	L_C	Fast		0.0
	Lp	Fast		0.0

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.2 dB

2. **Level Stability** : 0.0 dB
IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

Calibration Certificate

3. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.6	- 39.4 dB, ± 1.5 dB
63 Hz	- 26.2	- 26.2 dB, ± 1.5 dB
125 Hz	- 16.2	- 16.1 dB, ± 1 dB
250 Hz	- 8.7	- 8.6 dB, ± 1 dB
500 Hz	- 3.2	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref.)	0 dB, ± 1 dB
2 kHz	+ 1.3	+ 1.2 dB, ± 1 dB
5 kHz	+ 1.1	+ 1.0 dB ,± 1 dB
8 kHz	- 1.1	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	- 6.7	- 6.6 dB, + 3 dB ~ ∞

Uncertainty : ± 0.1 dB

4. Time Averaging

Applied Burst duty Factor	UUT Reading (dB)	Correction (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	39.9	+ 0.1	± 0.5 dB
$1/10^2$	39.9	+ 0.1	
$1/10^3$	39.9	+ 0.1	± 1.0 dB
$1/10^4$	39.8	+ 0.2	

Uncertainty : ± 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 : 1 000 hPa.

---------- END ----------

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **51473**

Customer : ETS-Testconsult Limited

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

Order No. : Q50535 **Date of receipt :** 7-Apr-05

Item Tested

Description : Sound Level Calibrator (Eqip No.: ET/0527/004)

Manufacturer : Rion

Model : NC-73 **Serial No. :** 10196943

Test Conditions

Date of Test : 20-Apr-05 **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:

Equipment No.	Cert. No.	Due Date	Traceable to
S014	43147	7-Jul-05	PRC-NIM
S024	S41431	22-May-05	PRC-NIM
S041	43734	12-Aug-05	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 International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by : _____

Approved by : _____
Alan Chu - Manager

Date: 20-Apr-05

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 8801 Fax: 2425 8646

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	94.1 dB	± 1 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.991 kHz	± 2 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.3 %
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 : 1 000 hPa
4. The above measured values are the mean of 3 measurement.

---------- 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
		$L_{eq(30min)}$	L10	L90		
02/06/05	17:13	58.1	60.5	57.3	0.9	Cloudy
09/06/05	15:15	58.0	60.3	55.6	1.0	Cloudy
16/06/05	09:50	58.2	60.5	55.8	0.9	Cloudy
25/06/05	08:13	59.2	61.3	57.3	0.8	Cloudy
30/06/05 *	---	---	---	---	---	Rainy

Remark (*): The noise monitoring was cancelled due to the rain.

Monitoring Location: NM2 (CUHK Residence No.10)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		$L_{eq(30min)}$	L10	L90		
02/06/05	13:48	55.2	57.5	52.4	0.6	Cloudy
09/06/05	11:08	54.6	57.6	52.5	0.6	Cloudy
16/06/05	17:50	54.8	57.0	53.0	0.8	Cloudy
25/06/05	11:17	54.6	56.8	50.6	0.6	Cloudy
30/06/05 *	---	---	---	---	---	Rainy

Remark (*): The noise monitoring was cancelled due to the rain.

Mon Monitoring Location: NM3 (Cheung Shue Tan Village)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		$L_{eq(30min)}$	L10	L90		
02/06/05	11:00	54.4	56.3	50.1	0.8	Cloudy
09/06/05	09:03	53.1	55.8	49.3	0.8	Cloudy
16/06/05	16:35	53.3	55.8	49.7	1.0	Cloudy
25/06/05	13:02	53.8	55.6	49.6	0.5	Cloudy
30/06/05 *	---	---	---	---	---	Rainy

Remark (*): The noise monitoring was cancelled due to the rain.

Monitoring Location: NM8 (Near Wen Chih Tang at the CUHK)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		$L_{eq(30min)}$	L10	L90		
02/06/05	13:03	53.1	55.3	49.2	0.4	Cloudy
09/06/05	10:23	53.8	56.4	50.0	0.8	Cloudy
16/06/05	11:03	53.8	56.2	49.8	0.6	Cloudy
25/06/05	10:02	54.2	56.9	50.3	0.8	Cloudy
30/06/05 *	---	---	---	---	---	Rainy

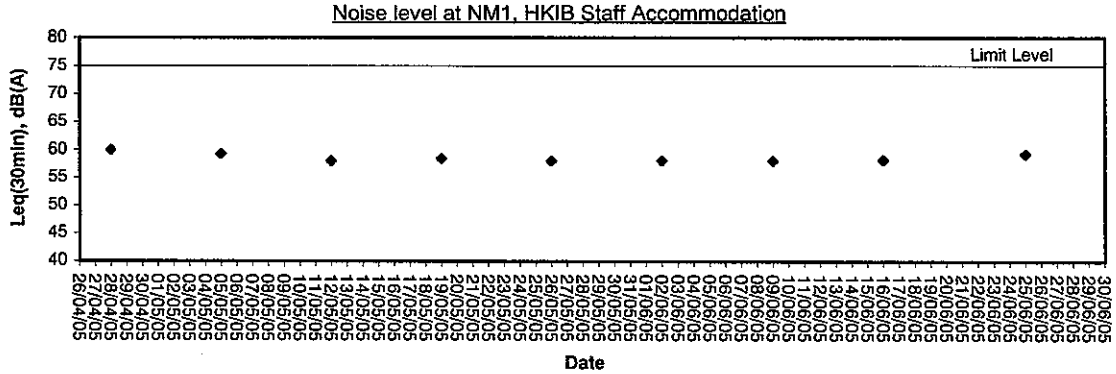
Remark (*): The noise monitoring was cancelled due to the rain.

Appendix C3

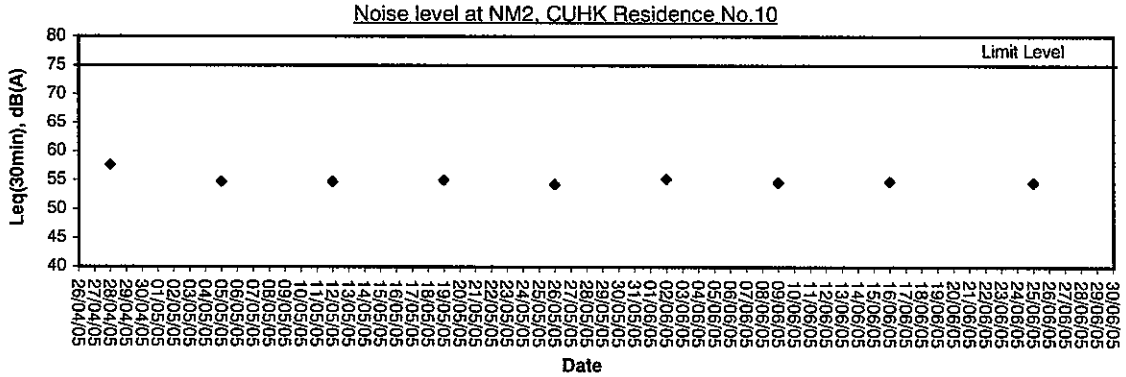
Graphical Plots of Noise Monitoring Data

Noise Monitoring (Day-time)

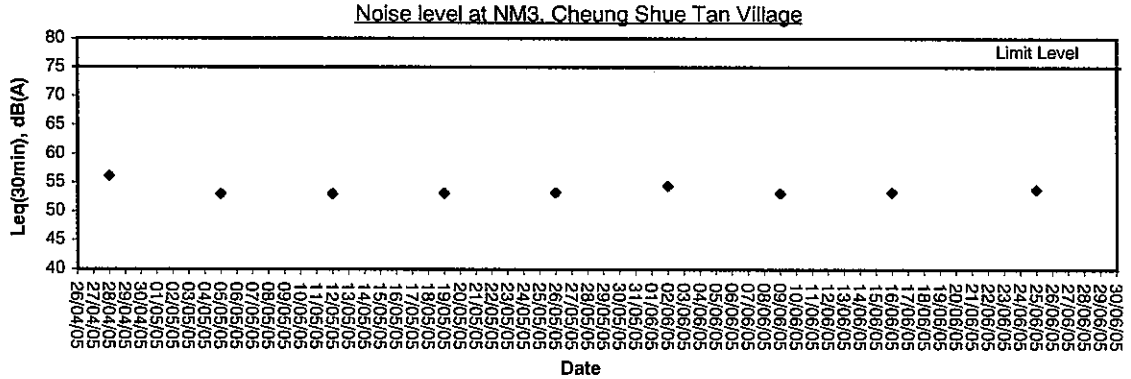
Noise level at NM1, HKIB Staff Accommodation



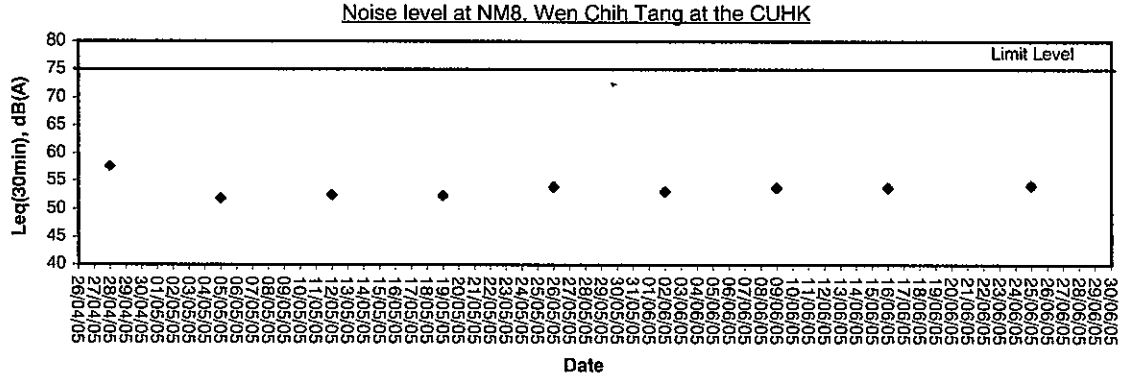
Noise level at NM2, CUHK Residence No.10



Noise level at NM3, Cheung Shue Tan Village



Noise level at NM8, Wen Chih Tang at the CUHK



Appendix D

Weather Condition

Weather Condition

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp. (°C)	Relative Humidity (%)	Wind Direction	Wind Speed (m/s)
01/06/05	Trace	31.0	26.0	82	S	<5
02/06/05	3.2	30.8	28.0	82	SW	<5
03/06/05	1.7	33.4	26.0	81	SW	<5
04/06/05	32.5	29.4	25.8	92	SE	<5
05/06/05	7.0	26.6	23.2	78	E	<5
06/06/05	Trace	26.1	25.0	82	E	<5
07/06/05	1.4	25.8	23.6	84	E	<5
08/06/05	Trace	28.2	25.1	82	E	<5
09/06/05	5.3	27.9	25.0	87	E	<5
10/06/05	0.9	31.4	25.3	83	SW	<5
11/06/05	-	32.7	27.8	79	SW	<5
12/06/05	4.8	30.9	26.9	80	SW	<5
13/06/05	8.1	28.7	26.4	86	SW	<5
14/06/05	19.2	31.2	26.0	86	SW	<5
15/06/05	168.5	29.3	25.1	92	SW	<5
16/06/05	26.1	27.5	25.4	93	W	<5
17/06/05	35.1	29.4	24.4	91	S	<5
18/06/05	3.3	30.9	27.6	82	SW	<5
19/06/05	Trace	30.9	28.3	80	SW	<5
20/06/05	1.0	30.5	28.3	81	SW	<5
21/06/05	106.3	29.6	25.1	84	SW	<5
22/06/05	32.7	29.3	24.7	87	SW	<5
23/06/05	106.6	28.5	24.8	91	S	<5
24/06/05	232.6	28.7	24.2	93	S	<5
25/06/05	3.9	30.9	26.5	85	S	<5
26/06/05	11.5	30.7	26.0	85	S	<5
27/06/05	3.4	31.4	28.0	80	S	<5
28/06/05	Trace	31.6	28.0	82	SE	<5
29/06/05	31.8	30.3	25.6	88	SE	<5
30/06/05	47.0	28.1	25.0	91	S	<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	ACTION			
	ET Leader	IC(E)	ER	CNOTRACTOR
Action Level				
1. Exceedance of one sample	1. Identify source 2. Inform IC(E) and ER 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily	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 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 Contactor'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 5. If exceedance continues, consider what portion of this work is responsible and instruct the Contract to stop that portion of work until the exceedance is abated.	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.

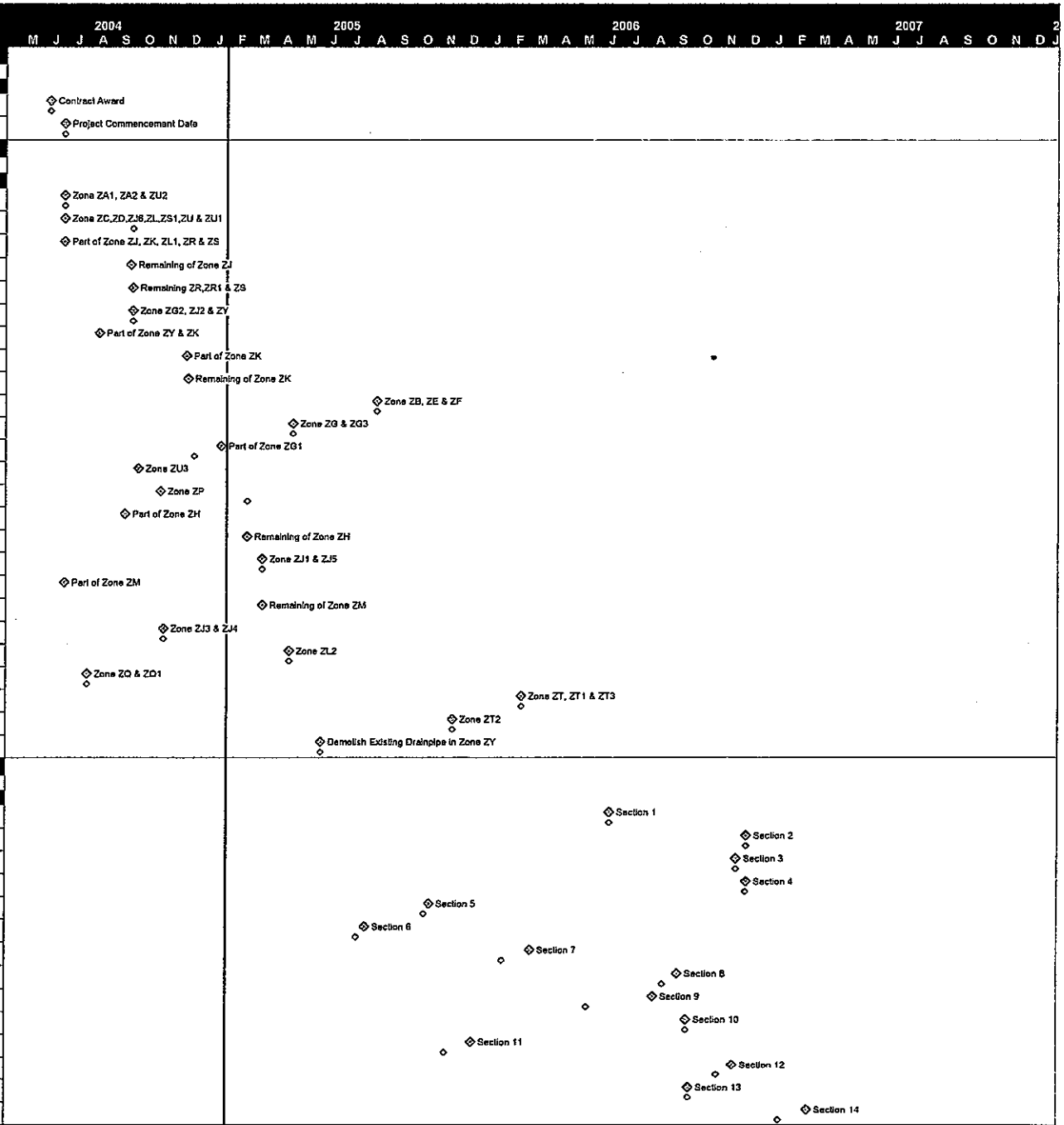
Event / Action Plan for Construction Noise

EVENT	ACTION			
	ET Leader	IC(E)	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	1. Submit noise mitigation proposal to IC(E) 2. Implement noise mitigation proposals
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 advice 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 analysed noise problem 4. Ensure remedial measures are properly implemented 5. If exceedance continues, consider what protion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	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 problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated

Appendix F

Construction Programme

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
ject Commencement								
C0100	Contract Award	0		100	10JUN04 A		10JUN04 A	
C0200	Project Commencement Date	0		100	29JUN04 A		29JUN04 A	
session Date								
D0100	Zone ZA1, ZA2 & ZU2	0		100	29JUN04 A		29JUN04 A	
D0200	Zone ZC,ZD,ZJ6,ZL,ZS1,ZU & ZU1	0		100	29JUN04 A		29JUN04 A	
D0210	Part of Zone ZJ, ZK, ZL1, ZR & ZS	0		100	29JUN04 A		29JUN04 A	
D0220	Remaining of Zone ZJ	0		100	24SEP04 A		24SEP04 A	
D0230	Remaining ZR,ZR1 & ZS	0		100	27SEP04 A		27SEP04 A	
D0300	Zone ZG2, ZJ2 & ZY	0		100	27SEP04 A		27SEP04 A	
D0310	Part of Zone ZY & ZK	0		100	14AUG04 A		14AUG04 A	
D0320	Part of Zone ZK	0		100	06DEC04 A		06DEC04 A	
D0330	Remaining of Zone ZK	0		100	08DEC04 A		08DEC04 A	
D0400	Zone ZB, ZE & ZF	0	16d	0	13AUG05 *		31AUG05	
D0500	Zone ZG & ZG3	0	90d	0	25APR05 *		24JUL05	
D0600	Part of Zone ZG1	0		100	21JAN05 A		21JAN05 A	
D0610	Zone ZU3	0		100	04OCT04 A		04OCT04 A	
D0700	Zone ZP	0		100	02NOV04 A		02NOV04 A	
D0710	Part of Zone ZH	0		100	17SEP04 A		17SEP04 A	
D0720	Remaining of Zone ZH	0	864d	0	24FEB05 *		26DEC07	
D0800	Zone ZJ1 & ZJ5	0	119d	0	16MAR05 *		13JUL05	
D0810	Part of Zone ZM	0		100	29JUN04 A		29JUN04 A	
D0820	Remaining of Zone ZM	0	847d	0	16MAR05 *		26DEC07	
D0900	Zone ZJ3 & ZJ4	0		100	05NOV04 A		05NOV04 A	
D1000	Zone ZL2	0	95d	0	20APR05 *		24JUL05	
D1100	Zone ZQ & ZQ1	0		100	29JUL04 A		29JUL04 A	
D1200	Zone ZT, ZT1 & ZT3	0	92d	0	19FEB06 *		22MAY06	
D1300	Zone ZT2	0	90d	0	21NOV05 *		19FEB06	
D1400	Demolish Existing Drainpipe in Zone ZY	0	68d	0	01JUN05 *		14SEP05	
tion Completion								
D0100	Section 1	0	34d	0		14JUN06		18JUL06 *
D0200	Section 2	0	18d	0		07DEC06		25DEC06 *
D0300	Section 3	0	31d	0		24NOV06		25DEC06 *
D0400	Section 4	0	18d	0		07DEC06		25DEC06 *
D0500	Section 5	0	0	0		21OCT05		21OCT05 *
D0600	Section 6	0	-6d	0		29JUL05		23JUL05 *
D0700	Section 7	0	-13d	0		03MAR06		18FEB06 *
D0800	Section 8	0	55d	0		11SEP06		05NOV06 *
D0900	Section 9	0	137d	0		10AUG06		25DEC06 *
D1000	Section 10	0	94d	0		22SEP06		25DEC06 *
D1100	Section 11	0	64d	0		16DEC05		18FEB06 *
D1200	Section 12	0	-15d	0		20NOV06		05NOV06 *
D1300	Section 13	0	91d	0		25SEP06		25DEC06 *
D1400	Section 14	0	-6d	0		24FEB07		18FEB07 *



date 10JUN04
date 20NOV07
date 28JAN05
date 28JAN05
ct name IP06
number 1A

Primavera Systems, Inc.

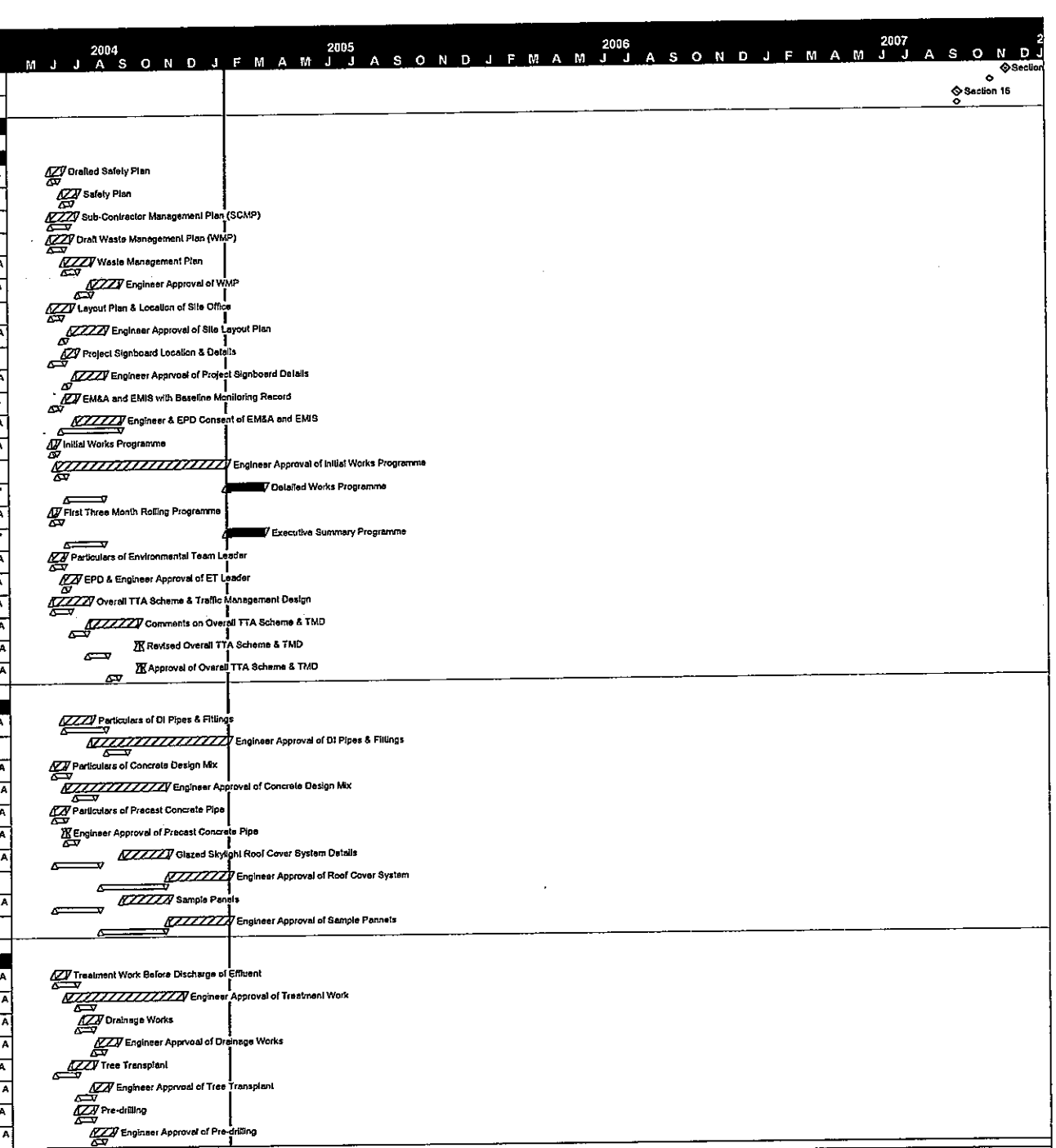
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
CD1500	Section 15	0	-15d	0		20NOV07		05NOV07 *
CD1600	Section 16	0	97d	0		19SEP07		25DEC07 *
Submissions								
General Submissions								
SUGS0100	Drafted Safety Plan	10		100	10JUN04 A	24JUN04 A	10JUN04 A	24JUN04 A
SUGS0200	Safety Plan	12		100	25JUN04 A	14JUL04 A	26JUN04 A	14JUL04 A
SUGS0300	Sub-Contractor Management Plan (SCMP)	24		100	10JUN04 A	12JUL04 A	10JUN04 A	12JUL04 A
SUGS0400	Draft Waste Management Plan (WMP)	18		100	10JUN04 A	05JUL04 A	10JUN04 A	05JUL04 A
SUGS0500	Waste Management Plan	18		100	28JUN04 A	02AUG04 A	28JUN04 A	02AUG04 A
SUGS0600	Engineer Approval of WMP	18		100	03AUG04 A	08SEP04 A	03AUG04 A	08SEP04 A
SUGS0700	Layout Plan & Location of Site Office	14		100	10JUN04 A	06JUL04 A	10JUN04 A	06JUL04 A
SUGS0800	Engineer Approval of Site Layout Plan	6		100	07JUL04 A	20AUG04 A	07JUL04 A	20AUG04 A
SUGS0900	Project Signboard Location & Details	18		100	29JUN04 A	12JUL04 A	29JUN04 A	12JUL04 A
SUGS1000	Engineer Approval of Project Signboard Details	6		100	13JUL04 A	19AUG04 A	13JUL04 A	19AUG04 A
SUGS1100	EM&A and EMIS with Baseline Monitoring Record	12		100	29JUN04 A	12JUL04 A	29JUN04 A	12JUL04 A
SUGS1200	Engineer & EPD Consent of EM&A and EMIS	60		100	13JUL04 A	09SEP04 A	13JUL04 A	09SEP04 A
SUGS1500	Initial Works Programme	7		100	10JUN04 A	15JUN04 A	10JUN04 A	15JUN04 A
SUGS1600	Engineer Approval of Initial Works Programme	12	-200d	99	16JUN04 A	27JAN05	15JUN04 A	11JUL04
SUGS1700	Detailed Works Programme	50	-200d	0	28JAN05	18MAR05	12JUL04	30AUG04 *
SUGS1800	First Three Month Rolling Programme	12		100	10JUN04 A	15JUN04 A	10JUN04 A	15JUN04 A
SUGS1900	Executive Summary Programme	50	-200d	0	28JAN05	18MAR05	12JUL04	30AUG04 *
SUGS2000	Particulars of Environmental Team Leader	12		100	10JUN04 A	24JUN04 A	10JUN04 A	24JUN04 A
SUGS2100	EPD & Engineer Approval of ET Leader	6		100	25JUN04 A	12JUL04 A	25JUN04 A	12JUL04 A
SUGS2200	Overall TTA Scheme & Traffic Management Design	24		100	10JUN04 A	28JUL04 A	10JUN04 A	28JUL04 A
SUGS2300	Comments on Overall TTA Scheme & TMD	18		100	29JUL04 A	30SEP04 A	29JUL04 A	30SEP04 A
SUGS2400	Revised Overall TTA Scheme & TMD	24		100	02OCT04 A	02OCT04 A	02OCT04 A	02OCT04 A
SUGS2500	Approval of Overall TTA Scheme & TMD	12		100	04OCT04 A	04OCT04 A	04OCT04 A	04OCT04 A
Material Submission								
SUMA0100	Particulars of DI Pipes & Fittings	48		100	23JUN04 A	29JUL04 A	23JUN04 A	29JUL04 A
SUMA0200	Engineer Approval of DI Pipes & Fittings	24	9d	99	30JUL04 A	27JAN05	30JUL04 A	07FEB05
SUMA0300	Particulars of Concrete Design Mix	16		100	10JUN04 A	24JUN04 A	10JUN04 A	24JUN04 A
SUMA0400	Engineer Approval of Concrete Design Mix	23		100	25JUN04 A	05NOV04 A	25JUN04 A	05NOV04 A
SUMA0500	Particulars of Precast Concrete Pipe	12		100	10JUN04 A	24JUN04 A	10JUN04 A	24JUN04 A
SUMA0600	Engineer Approval of Precast Concrete Pipe	12		100	25JUN04 A	25JUN04 A	25JUN04 A	25JUN04 A
SUMA0700	Glazed Skylight Roof Cover System Details	50		100	09SEP04 A	08NOV04 A	09SEP04 A	08NOV04 A
SUMA0800	Engineer Approval of Roof Cover System	72	115d	99	09NOV04 A	28JAN05	09NOV04 A	17JUN05
SUMA0900	Sample Panels	50		100	09SEP04 A	08NOV04 A	09SEP04 A	08NOV04 A
SUMA1000	Engineer Approval of Sample Pannels	72	115d	99	09NOV04 A	28JAN05	09NOV04 A	17JUN05
Method Statement Submissions								
SUME0100	Treatment Work Before Discharge of Effluent	24		100	10JUN04 A	24JUN04 A	10JUN04 A	24JUN04 A
SUME0200	Engineer Approval of Treatment Work	18		100	25JUN04 A	27NOV04 A	25JUN04 A	27NOV04 A
SUME0300	Drainage Works	18		100	17JUL04 A	06AUG04 A	17JUL04 A	06AUG04 A
SUME0400	Engineer Approval of Drainage Works	12		100	07AUG04 A	31AUG04 A	07AUG04 A	31AUG04 A
SUME0500	Tree Transplant	24		100	02JUL04 A	30JUL04 A	02JUL04 A	30JUL04 A
SUME0600	Engineer Approval of Tree Transplant	18		100	31JUL04 A	19AUG04 A	31JUL04 A	19AUG04 A
SUME0700	Pre-drilling	18		100	10JUL04 A	30JUL04 A	10JUL04 A	30JUL04 A
SUME0800	Engineer Approval of Pre-drilling	12		100	31JUL04 A	25AUG04 A	31JUL04 A	25AUG04 A



art date 10JUN04
inish date 20NOV07
ta date 28JAN05
n date 28JAN05
oject name 1P06
ge number 2A

© Primavera Systems, Inc.

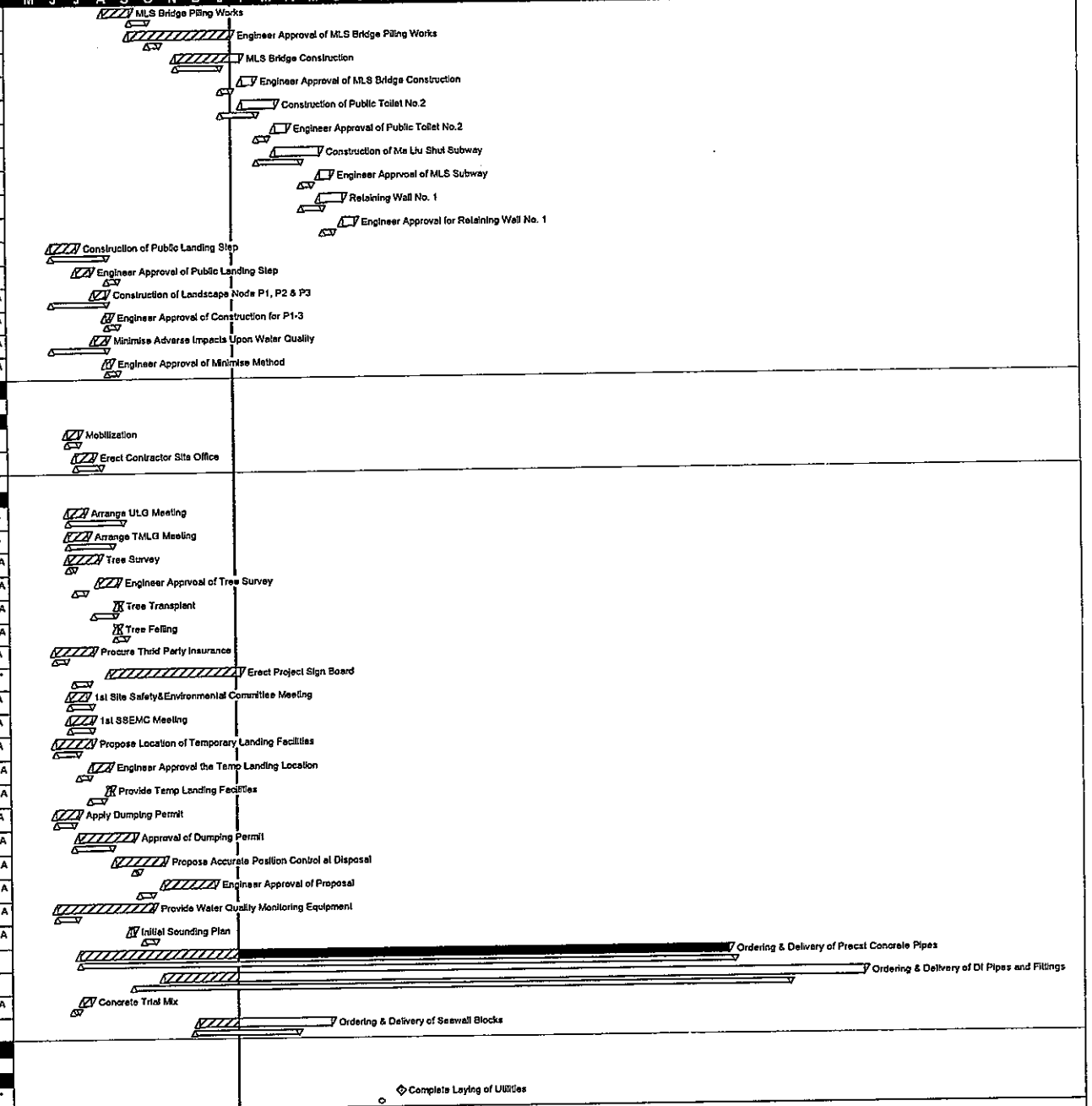
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
SUME0900	MLS Bridge Piling Works	18		100	18AUG04 A	20SEP04 A	18AUG04 A	20SEP04 A
SUME1000	Engineer Approval of MLS Bridge Piling Works	12	15d	99	20SEP04 A	27JAN05	20SEP04 A	17FEB05
SUME1100	MLS Bridge Construction	48	62d	60	19NOV04 A	08FEB05	19NOV04 A	26APR05
SUME1200	Engineer Approval of MLS Bridge Construction	12	121d	0	12FEB05	25FEB05	07JUL05	20JUL05
SUME1300	Construction of Public Toilet No.2	36	62d	0	12FEB05	25MAR05	27APR05	07JUN05
SUME1400	Engineer Approval of Public Toilet No.2	12	133d	0	26MAR05	09APR05	01SEP05	14SEP05
SUME1500	Construction of Ma Liu Shui Subway	48	62d	0	25MAR05	21MAY05	08JUN05	04AUG05
SUME1600	Engineer Approval of MLS Subway	12	72d	0	23MAY05	04JUN05	17AUG05	30AUG05
SUME1700	Retaining Wall No. 1	24	62d	0	23MAY05	20JUN05	05AUG05	01SEP05
SUME1800	Engineer Approval for Retaining Wall No. 1	12	62d	0	21JUN05	05JUL05	02SEP05	15SEP05
SUME1900	Construction of Public Landing Step	60		100	10JUN04 A	12JUL04 A	10JUN04 A	12JUL04 A
SUME2000	Engineer Approval of Public Landing Step	12		100	13JUL04 A	30JUL04 A	13JUL04 A	30JUL04 A
SUME2100	Construction of Landscape Node P1, P2 & P3	60		100	05AUG04 A	19AUG04 A	05AUG04 A	19AUG04 A
SUME2200	Engineer Approval of Construction for P1-3	12		100	20AUG04 A	24AUG04 A	20AUG04 A	24AUG04 A
SUME2300	Minimise Adverse Impacts Upon Water Quality	60		100	05AUG04 A	19AUG04 A	05AUG04 A	19AUG04 A
SUME2400	Engineer Approval of Minimise Method	12		100	20AUG04 A	24AUG04 A	20AUG04 A	24AUG04 A
eliminaries								
ontractor's Site Accommodation								
PRCS0100	Mobilization	12		100	29JUN04 A	13JUL04 A	29JUN04 A	13JUL04 A
PRCS0200	Erect Contractor Site Office	28		100	10JUL04 A	31JUL04 A	10JUL04 A	31JUL04 A
reliminary Works								
PRPR0300	Arrange ULG Meeting	60		100	29JUN04 A	19JUL04 A	29JUN04 A	19JUL04 A
PRPR0400	Arrange TMLG Meeting	48		100	29JUN04 A	23JUL04 A	29JUN04 A	23JUL04 A
PRPR0500	Tree Survey	6		100	29JUN04 A	06AUG04 A	29JUN04 A	06AUG04 A
PRPR0600	Engineer Approval of Tree Survey	12		100	07AUG04 A	30AUG04 A	07AUG04 A	30AUG04 A
PRPR0900	Tree Transplant	24		100	31AUG04 A	31AUG04 A	31AUG04 A	31AUG04 A
PRPR1000	Tree Felling	12		100	30AUG04 A	30AUG04 A	30AUG04 A	30AUG04 A
PRPR1100	Procure Third Party Insurance	12		100	10JUN04 A	29JUL04 A	10JUN04 A	29JUL04 A
PRPR1300	Erect Project Sign Board	18	168d	75	20AUG04 A	02FEB05	20AUG04 A	24AUG05 *
PRPR1400	1st Site Safety&Environmental Committee Meeting	24		100	29JUN04 A	20JUL04 A	29JUN04 A	20JUL04 A
PRPR1500	1st SSEMC Meeting	24		100	29JUN04 A	27JUL04 A	29JUN04 A	27JUL04 A
PRPR1600	Propose Location of Temporary Landing Facilities	24		100	10JUN04 A	26JUL04 A	10JUN04 A	26JUL04 A
PRPR1700	Engineer Approval the Temp Landing Location	12		100	27JUL04 A	17AUG04 A	27JUL04 A	17AUG04 A
PRPR1800	Provide Temp Landing Facilities	15		100	18AUG04 A	19AUG04 A	18AUG04 A	19AUG04 A
PRPR1900	Apply Dumping Permit	18		100	10JUN04 A	08JUL04 A	10JUN04 A	08JUL04 A
PRPR2000	Approval of Dumping Permit	42		100	09JUL04 A	17SEP04 A	09JUL04 A	17SEP04 A
PRPR2100	Propose Accurate Position Control at Disposal	6		100	25AUG04 A	25OCT04 A	25AUG04 A	25OCT04 A
PRPR2200	Engineer Approval of Proposal	12		100	28OCT04 A	29DEC04 A	26OCT04 A	29DEC04 A
PRPR2300	Provide Water Quality Monitoring Equipment	21		100	10JUN04 A	11OCT04 A	10JUN04 A	11OCT04 A
PRPR2400	Initial Sounding Plan	12		100	13SEP04 A	16SEP04 A	13SEP04 A	16SEP04 A
PRPR2500	Ordering & Delivery of Precst Concrete Pipes	700	-21d	25	10JUL04 A	26OCT06	10JUL04 A	25SEP06
PRPR2600	Ordering & Delivery of DI Pipes and Fittings	700	9d	5	25OCT04 A	07APR07	25OCT04 A	16APR07
PRPR2700	Concrete Trial Mix	6		100	13JUL04 A	22JUL04 A	13JUL04 A	22JUL04 A
PRPR2800	Ordering & Delivery of Seawall Blocks	110	5d	10	09DEC04 A	27MAY05	09DEC04 A	02JUN05
ilestone								
Section 5								
MSS50100	Complete Laying of Utilities	0	-24d	0		24AUG05		31JUL05 *



art date 10JUN04
nish date 20NOV07
ta date 28JAN05
n date 28JAN05
oject name IP06
ge number 3A

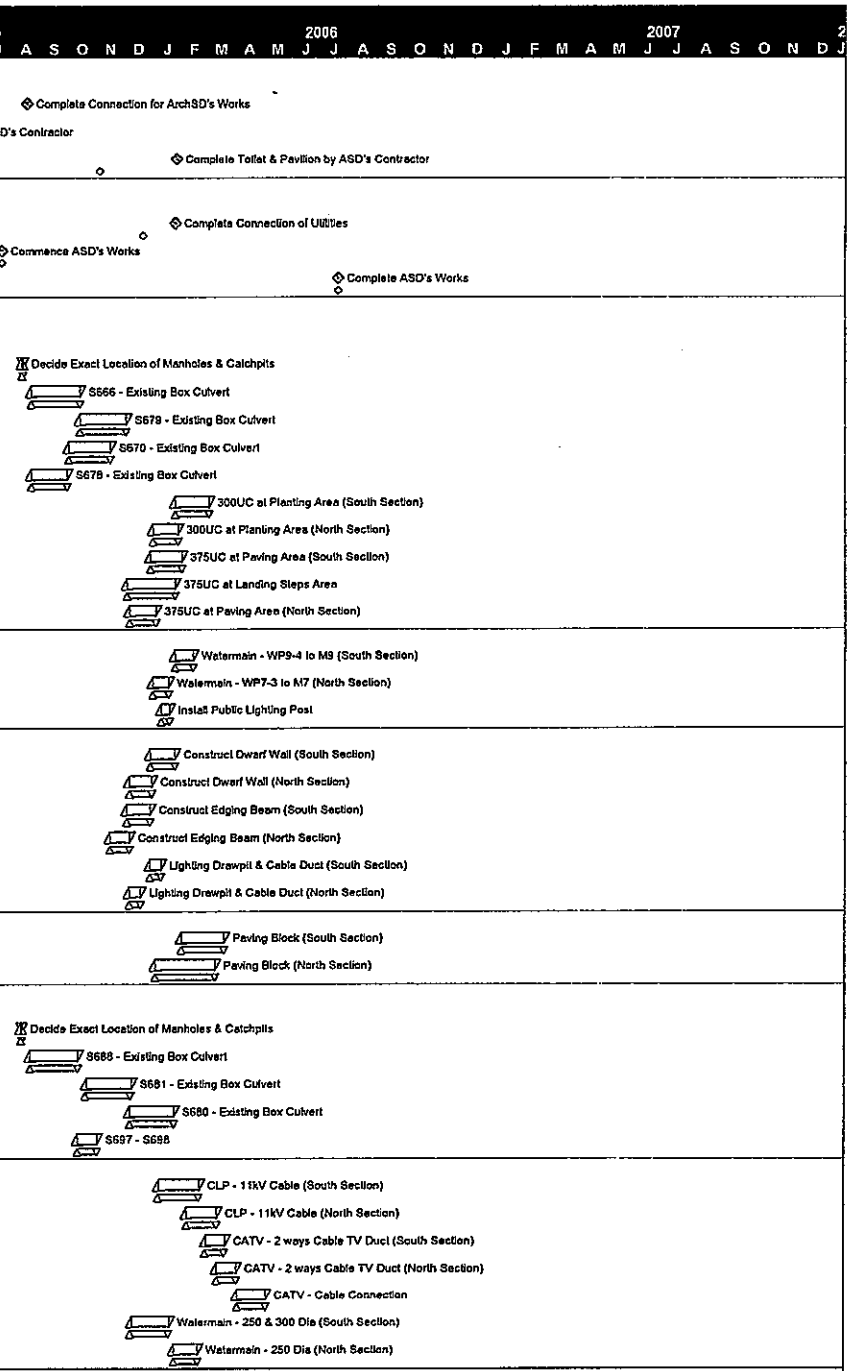
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
ction 7								
MSS70100	Complete Connection for ArchSD's Works	0	-17d	0		17AUG05		31JUL05 *
MSS70200	Commence Toilet & Pavilion by ASD's Contractor	0		100	28DEC04 A		28DEC04 A	
MSS70300	Complete Toilet & Pavilion by ASD's Contractor	0	-82d	0		26JAN05		05NOV05 *
ction 8								
MSS80100	Complete Connection of Utilities	0	65d	0		25JAN06		20APR06 *
MSS80200	Commence ASD's Works	0	1d	0	22JUL05 *		23JUL05	
MSS80300	Complete ASD's Works	0	1d	0		21JUL06		22JUL06 *
tion 1								
menity Area								
Drainage Works								
01AMDW0100	Decide Exact Location of Manholes & Catchpits	1	99d	0	13AUG05	13AUG05	10DEC05	10DEC05
01AMDW0200	S666 - Existing Box Culvert	43	99d	0	23AUG05	14OCT05	20DEC05	09FEB06
01AMDW0300	S679 - Existing Box Culvert	43	99d	0	15OCT05	03DEC05	10FEB06	31MAR06
01AMDW0400	S670 - Existing Box Culvert	36	107d	0	03OCT05	18NOV05	08FEB06	23MAR06
01AMDW0500	S678 - Existing Box Culvert	33	107d	0	23AUG05	30SEP05	29DEC05	07FEB06
01AMDW0600	300UC at Planting Area (South Section)	30	113d	0	26JAN06	03MAR06	13JUN06	18JUL06
01AMDW0700	300UC at Planting Area (North Section)	24	140d	0	02JAN06	28JAN06	20JUN06	18JUL06
01AMDW0800	375UC at Paving Area (South Section)	27	99d	0	30DEC05	01FEB06	26APR06	30MAY06
01AMDW0900	375UC at Landing Steps Area	45	103d	0	05DEC05	25JAN06	07APR06	30MAY06
01AMDW1000	375UC at Paving Area (North Section)	24	107d	0	08DEC05	04JAN06	15APR06	13MAY06
Utility Works								
01AMUT0100	Watermain - WP9-4 to M9 (South Section)	15	126d	0	26JAN06	14FEB06	30JUN06	18JUL06
01AMUT0200	Watermain - WP7-3 to M7 (North Section)	15	149d	0	02JAN06	16JAN06	30JUN06	18JUL06
01AMUT0300	Install Public Lighting Post	8	148d	0	11JAN06	19JAN06	10JUL06	18JUL06
Public Lighting, Duct and Kerb								
01AMPK0100	Construct Dwarf Wall (South Section)	23	113d	0	30DEC05	25JAN06	16MAY06	12JUN06
01AMPK0200	Construct Dwarf Wall (North Section)	21	140d	0	06DEC05	31DEC05	25MAY06	19JUN06
01AMPK0300	Construct Edging Beam (South Section)	22	99d	0	05DEC05	29DEC05	01APR06	27APR06
01AMPK0400	Construct Edging Beam (North Section)	18	107d	0	17NOV05	07DEC05	24MAR06	14APR06
01AMPK0500	Lighting Drawpit & Cable Duct (South Section)	10	116d	0	30DEC05	10JAN06	19MAY06	30MAY06
01AMPK0600	Lighting Drawpit & Cable Duct (North Section)	10	121d	0	08DEC05	19DEC05	03MAY06	13MAY06
Roads and Paving								
01AMRP0100	Paving Block (South Section)	40	99d	0	02FEB06	20MAR06	01JUN06	18JUL06
01AMRP0200	Paving Block (North Section)	54	107d	0	05JAN06	10MAR06	15MAY06	18JUL06
ycle Track								
Drainage Works								
01CTDW0100	Decide Exact Location of Manholes & Catchpits	1	86d	0	13AUG05	13AUG05	25NOV05	25NOV05
01CTDW0200	S688 - Existing Box Culvert	42	86d	0	23AUG05	13OCT05	05DEC05	21JAN06
01CTDW0300	S681 - Existing Box Culvert	42	23d	0	24OCT05	10DEC05	19NOV05	08JAN06
01CTDW0400	S680 - Existing Box Culvert	41	15d	0	09DEC05	25JAN06	27DEC05	14FEB06
01CTDW0500	S697 - S698	18	86d	0	14OCT05	03NOV05	23JAN06	14FEB06
Utility Works								
01CTUT0300	CLP - 11kV Cable (South Section)	36	23d	0	10JAN06	22FEB06	08FEB06	21MAR06
01CTUT0400	CLP - 11kV Cable (North Section)	28	15d	0	09FEB06	13MAR06	27FEB06	30MAR06
01CTUT0900	CATV - 2 ways Cable TV Duct (South Section)	18	23d	0	02MAR06	22MAR06	29MAR06	19APR06
01CTUT1000	CATV - 2 ways Cable TV Duct (North Section)	18	15d	0	14MAR06	03APR06	31MAR06	21APR06
01CTUT1010	CATV - Cable Connection	25	29d	0	05APR06	05MAY06	10MAY06	09JUN06
01CTUT1100	Watermain - 250 & 300 Dia (South Section)	35	23d	0	12DEC05	20JAN06	07JAN06	18FEB06
01CTUT1200	Watermain - 250 Dia (North Section)	20	15d	0	26JAN06	20FEB06	15FEB06	09MAR06



t date	10JUN04
h date	20NOV07
date	28JAN05
date	28JAN05
ect name	IP06
e number	4A
	Primavera Systems, Inc

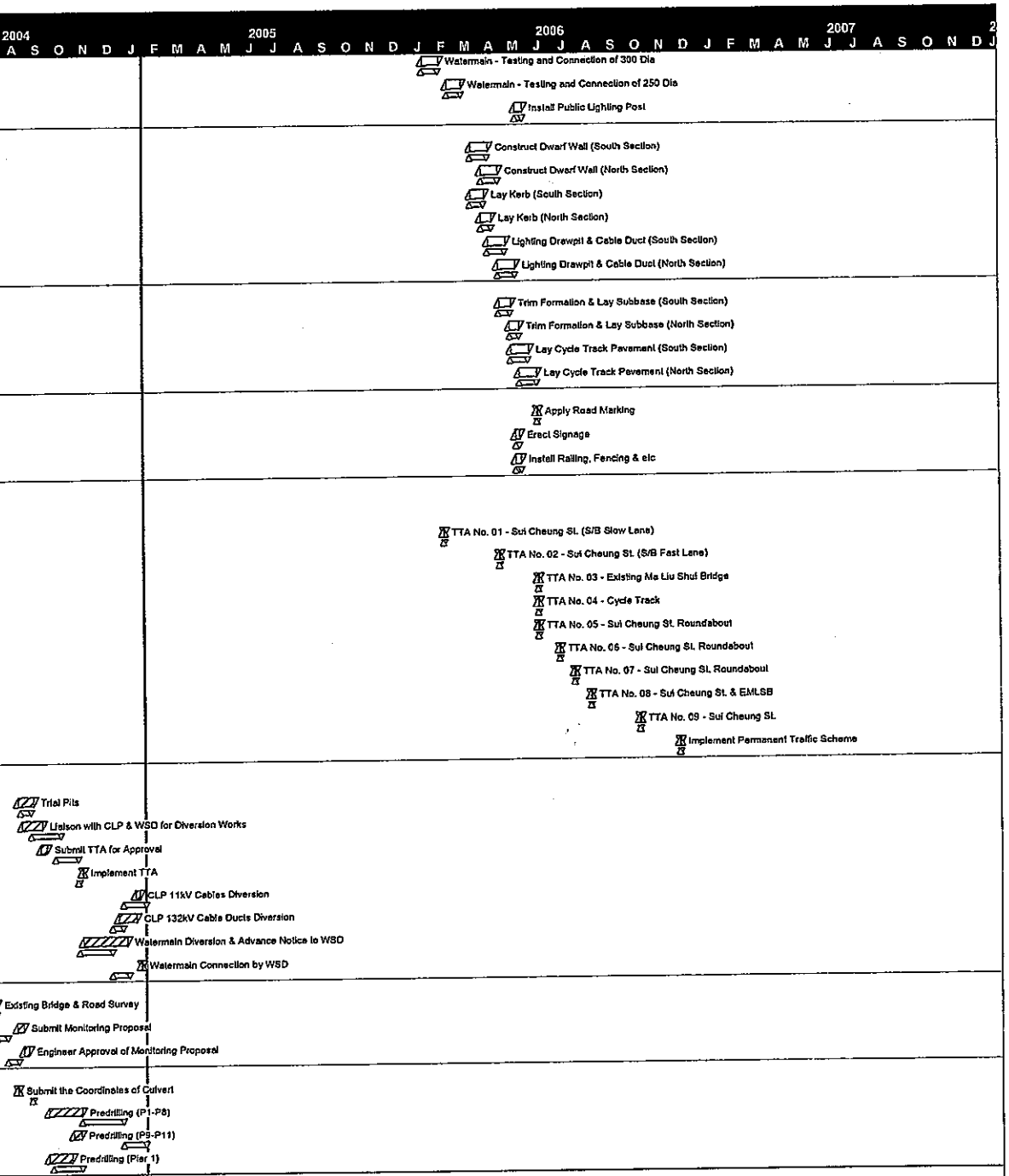
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
01CTUT1300	Watermain - Testing and Connection of 300 Dia	16	67d	0	21JAN06	10FEB06	08MAY06	25MAY06
01CTUT1400	Watermain - Testing and Connection of 250 Dia	16	55d	0	21FEB06	10MAR06	10MAY06	27MAY06
01CTUT1500	Install Public Lighting Post	6	43d	0	18MAY06	25MAY06	10JUL06	18JUL06
Public Lighting, Duct and Kerb								
01CTPK0100	Construct Dwarf Wall (South Section)	18	23d	0	23MAR06	13APR06	20APR06	11MAY06
01CTPK0200	Construct Dwarf Wall (North Section)	18	15d	0	05APR06	25APR06	22APR06	13MAY06
01CTPK0300	Lay Kerb (South Section)	14	39d	0	23MAR06	08APR06	10MAY06	25MAY06
01CTPK0400	Lay Kerb (North Section)	11	34d	0	05APR06	17APR06	16MAY06	27MAY06
01CTPK0500	Lighting Drawpit & Cable Duct (South Section)	18	23d	0	14APR06	05MAY06	12MAY06	02JUN06
01CTPK0600	Lighting Drawpit & Cable Duct (North Section)	18	15d	0	26APR06	17MAY06	15MAY06	05JUN06
Roads and Paving								
01CTRP0100	Trim Formation & Lay Subbase (South Section)	12	23d	0	26APR06	12MAY06	26MAY06	09JUN06
01CTRP0200	Trim Formation & Lay Subbase (North Section)	10	15d	0	11MAY06	22MAY06	29MAY06	09JUN06
01CTRP0500	Lay Cycle Track Pavement (South Section)	18	23d	0	13MAY06	03JUN06	10JUN06	30JUN06
01CTRP0600	Lay Cycle Track Pavement (North Section)	18	15d	0	23MAY06	13JUN06	10JUN06	30JUN06
Road Marking , Traffic Sign and Fencing								
01CTRM0100	Apply Road Marking	1	28d	0	14JUN06	14JUN06	18JUL06	18JUL06
01CTRM0200	Erect Signage	4	47d	0	16MAY06	22MAY06	14JUL06	18JUL06
01CTRM0300	Install Railing, Fencing & etc	6	45d	0	18MAY06	24MAY06	12JUL06	18JUL06
Section 2								
Temporary Traffic Management Scheme								
TTA Implementation								
02TTMS0100	TTA No. 01 - Sui Cheung St. (S/B Slow Lane)	1	101d	0	15FEB05	15FEB06	16JUN06	16JUN06
02TTMS0200	TTA No. 02 - Sui Cheung St. (S/B Fast Lane)	1	101d	0	26APR05	26APR06	25AUG06	25AUG06
02TTMS0300	TTA No. 03 - Existing Ma Liu Shui Bridge	1	29d	0	14JUN06	14JUN06	19JUL06	19JUL06
02TTMS0400	TTA No. 04 - Cycle Track	1	15d	0	14JUN06	14JUN06	03JUL06	03JUL06
02TTMS0500	TTA No. 05 - Sui Cheung St. Roundabout	1	86d	0	14JUN06	14JUN06	23SEP06	23SEP06
02TTMS0600	TTA No. 06 - Sui Cheung St. Roundabout	1	86d	0	10JUL06	10JUL06	19OCT06	19OCT06
02TTMS0700	TTA No. 07 - Sui Cheung St. Roundabout	1	86d	0	29JUL06	29JUL06	09NOV06	09NOV06
02TTMS0800	TTA No. 08 - Sui Cheung St. & EMLSB	1	15d	0	18AUG06	18AUG06	05SEP06	05SEP06
02TTMS0900	TTA No. 09 - Sui Cheung St.	1	15d	0	18OCT06	18OCT06	06NOV06	06NOV06
02TTMS1000	Implement Permanent Traffic Scheme	1	15d	0	07DEC06	07DEC06	25DEC06	25DEC06
Proposed Ma Liu Shui Bridge								
Utility Diversion at Sui Cheung Street								
02MBUD0100	Trial Pits	12		100	18AUG04 A	06SEP04 A	18AUG04 A	06SEP04 A
02MBUD0200	Liaison with CLP & WSD for Diversion Works	30		100	23AUG04 A	17SEP04 A	23AUG04 A	17SEP04 A
02MBUD0300	Submit TTA for Approval	24		100	16SEP04 A	23SEP04 A	16SEP04 A	23SEP04 A
02MBUD0400	Implement TTA	1		100	08NOV04 A	08NOV04 A	08NOV04 A	08NOV04 A
02MBUD0500	CLP 11kV Cables Diversion	24		100	15JAN05 A	19JAN05 A	15JAN05 A	19JAN05 A
02MBUD0510	CLP 132kV Cable Ducts Diversion	12		100	24DEC04 A	15JAN05 A	24DEC04 A	15JAN05 A
02MBUD0600	Watermain Diversion & Advance Notice to WSD	36		100	09NOV04 A	03JAN05 A	09NOV04 A	03JAN05 A
02MBUD0610	Watermain Connection by WSD	18		100	22JAN05 A	22JAN05 A	22JAN05 A	22JAN05 A
Existing Structure Survey								
02MBES0100	Existing Bridge & Road Survey	12		100	07JUL04 A	20JUL04 A	07JUL04 A	20JUL04 A
02MBES0200	Submit Monitoring Proposal	12		100	16AUG04 A	23AUG04 A	16AUG04 A	23AUG04 A
02MBES0300	Engineer Approval of Monitoring Proposal	12		100	24AUG04 A	30AUG04 A	24AUG04 A	30AUG04 A
Pre-drilling Works								
02MBPR0100	Submit the Coordinates of Culvert	1		100	16AUG04 A	16AUG04 A	16AUG04 A	16AUG04 A
02MBPR0200	Predrilling (P1-P8)	45		100	25SEP04 A	05NOV04 A	25SEP04 A	05NOV04 A
02MBPR0300	Predrilling (P9-P11)	24		100	26OCT04 A	04NOV04 A	26OCT04 A	04NOV04 A
02MBPR0400	Predrilling (Pier 1)	30		100	25SEP04 A	23OCT04 A	25SEP04 A	23OCT04 A



Start date	10JUN04
Finish date	20NOV07
Data date	28JAN05
Run date	28JAN05
Project name	IP06
Page number	5A

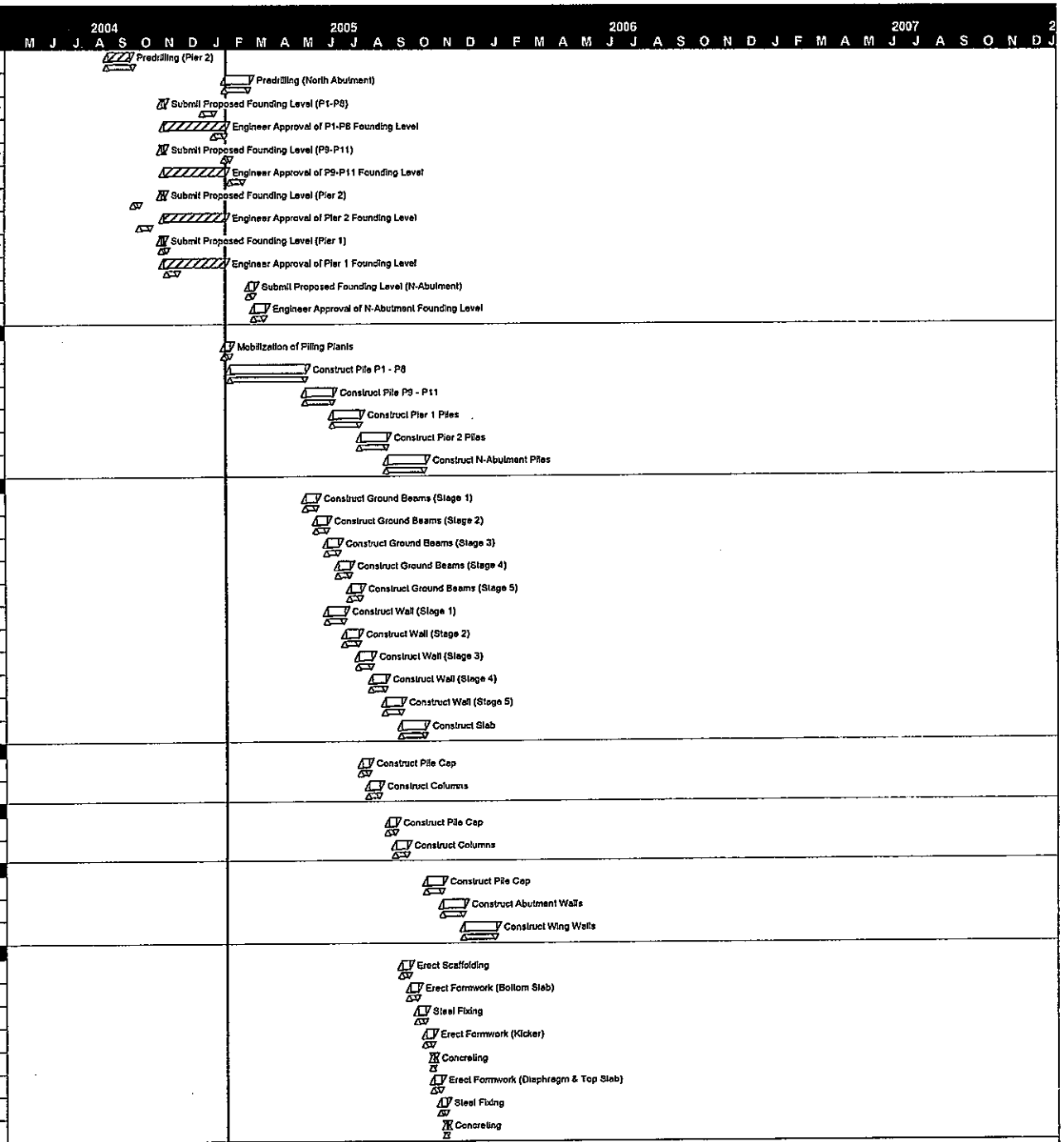
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
02MBPR0500	Predrilling (Pier 2)	30		100	27AUG04 A	24SEP04 A	27AUG04 A	24SEP04 A
02MBPR0600	Predrilling (North Abutment)	24	220d	0	28JAN05	28FEB05	22OCT05	18NOV05
02MBPR0700	Submit Proposed Founding Level (P1-P8)	12		100	06NOV04 A	06NOV04 A	06NOV04 A	06NOV04 A
02MBPR0800	Engineer Approval of P1-P8 Founding Level	12	15d	99	09NOV04 A	27JAN05	09NOV04 A	17FEB05
02MBPR0900	Submit Proposed Founding Level (P9-P11)	6		100	06NOV04 A	06NOV04 A	06NOV04 A	06NOV04 A
02MBPR1000	Engineer Approval of P9-P11 Founding Level	12	101d	99	09NOV04 A	27JAN05	09NOV04 A	30MAY05
02MBPR1100	Submit Proposed Founding Level (Pier 2)	6		100	06NOV04 A	06NOV04 A	06NOV04 A	06NOV04 A
02MBPR1200	Engineer Approval of Pier 2 Founding Level	12	161d	99	09NOV04 A	27JAN05	09NOV04 A	10AUG05
02MBPR1210	Submit Proposed Founding Level (Pier 1)	6		100	06NOV04 A	06NOV04 A	06NOV04 A	06NOV04 A
02MBPR1220	Engineer Approval of Pier 1 Founding Level	12	131d	99	09NOV04 A	27JAN05	09NOV04 A	06JUL05
02MBPR1300	Submit Proposed Founding Level (N-Abutment)	6	220d	0	01MAR05	07MAR05	19NOV05	25NOV05
02MBPR1400	Engineer Approval of N-Abutment Founding Level	12	220d	0	08MAR05	21MAR05	26NOV05	09DEC05
Piling Works								
02MBPW0100	Mobilization of Piling Plants	6	15d	0	28JAN05	03FEB05	18FEB05	24FEB05
02MBPW0200	Construct Pile P1 - P8	80	15d	0	04FEB05	12MAY05	25FEB05	30MAY05
02MBPW1000	Construct Pile P9 - P11	30	15d	0	13MAY05	17JUN05	31MAY05	06JUL05
02MBPW1300	Construct Pier 1 Piles	30	15d	0	18JUN05	23JUL05	07JUL05	10AUG05
02MBPW1400	Construct Pier 2 Piles	30	15d	0	25JUL05	27AUG05	11AUG05	14SEP05
02MBPW1500	Construct N-Abutment Piles	40	86d	0	29AUG05	17OCT05	10DEC05	25JAN06
Voided Abutment								
02MBVA0100	Construct Ground Beams (Stage 1)	12	57d	0	13MAY05	26MAY05	21JUL05	03AUG05
02MBVA0200	Construct Ground Beams (Stage 2)	12	57d	0	27MAY05	09JUN05	04AUG05	17AUG05
02MBVA0300	Construct Ground Beams (Stage 3)	12	84d	0	10JUN05	24JUN05	20SEP05	04OCT05
02MBVA0400	Construct Ground Beams (Stage 4)	12	84d	0	25JUN05	09JUL05	05OCT05	19OCT05
02MBVA0500	Construct Ground Beams (Stage 5)	12	84d	0	11JUL05	23JUL05	20OCT05	02NOV05
02MBVA0600	Construct Wall (Stage 1)	18	57d	0	10JUN05	02JUL05	18AUG05	07SEP05
02MBVA0700	Construct Wall (Stage 2)	15	57d	0	04JUL05	20JUL05	08SEP05	26SEP05
02MBVA0800	Construct Wall (Stage 3)	15	57d	0	21JUL05	06AUG05	27SEP05	15OCT05
02MBVA0900	Construct Wall (Stage 4)	15	57d	0	08AUG05	24AUG05	17OCT05	02NOV05
02MBVA1000	Construct Wall (Stage 5)	18	57d	0	25AUG05	14SEP05	03NOV05	23NOV05
02MBVA1100	Construct Slab	24	183d	0	15SEP05	15OCT05	24APR06	22MAY06
Pier 1								
02MBPA0100	Construct Pile Cap	8	75d	0	25JUL05	02AUG05	24OCT05	01NOV05
02MBPA0200	Construct Columns	12	75d	0	03AUG05	16AUG05	02NOV05	15NOV05
Pier 2								
02MBPB0100	Construct Pile Cap	8	85d	0	29AUG05	06SEP05	16NOV05	24NOV05
02MBPB0200	Construct Columns	12	65d	0	07SEP05	21SEP05	25NOV05	08DEC05
North Abutment								
02MBNA0100	Construct Pile Cap	18	86d	0	18OCT05	07NOV05	26JAN06	17FEB06
02MBNA0200	Construct Abutment Walls	24	86d	0	08NOV05	05DEC05	18FEB06	17MAR06
02MBNA0300	Construct Wing Walls	36	93d	0	06DEC05	19JAN06	27MAR06	09MAY06
Bridge Deck - Voided Abutment to Pier 1								
02MBDA0100	Erect Scaffolding	8	57d	0	15SEP05	24SEP05	24NOV05	02DEC05
02MBDA0200	Erect Formwork (Bottom Slab)	8	69d	0	26SEP05	05OCT05	17DEC05	26DEC05
02MBDA0300	Steel Fixing	8	69d	0	06OCT05	15OCT05	27DEC05	04JAN06
02MBDA0400	Erect Formwork (Kicker)	8	69d	0	17OCT05	25OCT05	05JAN06	13JAN06
02MBDA0500	Concreting	1	69d	0	26OCT05	26OCT05	14JAN06	14JAN06
02MBDA0600	Erect Formwork (Diaphragm & Top Slab)	8	69d	0	27OCT05	04NOV05	16JAN06	24JAN06
02MBDA0700	Steel Fixing	6	69d	0	05NOV05	11NOV05	25JAN06	02FEB06
02MBDA0800	Concreting	1	69d	0	12NOV05	12NOV05	03FEB06	03FEB06



t date	10JUN04
sh date	20NOV07
e date	28JAN05
date	28JAN05
ect name	IP06
e number	6A

Primavera Systems, Inc.

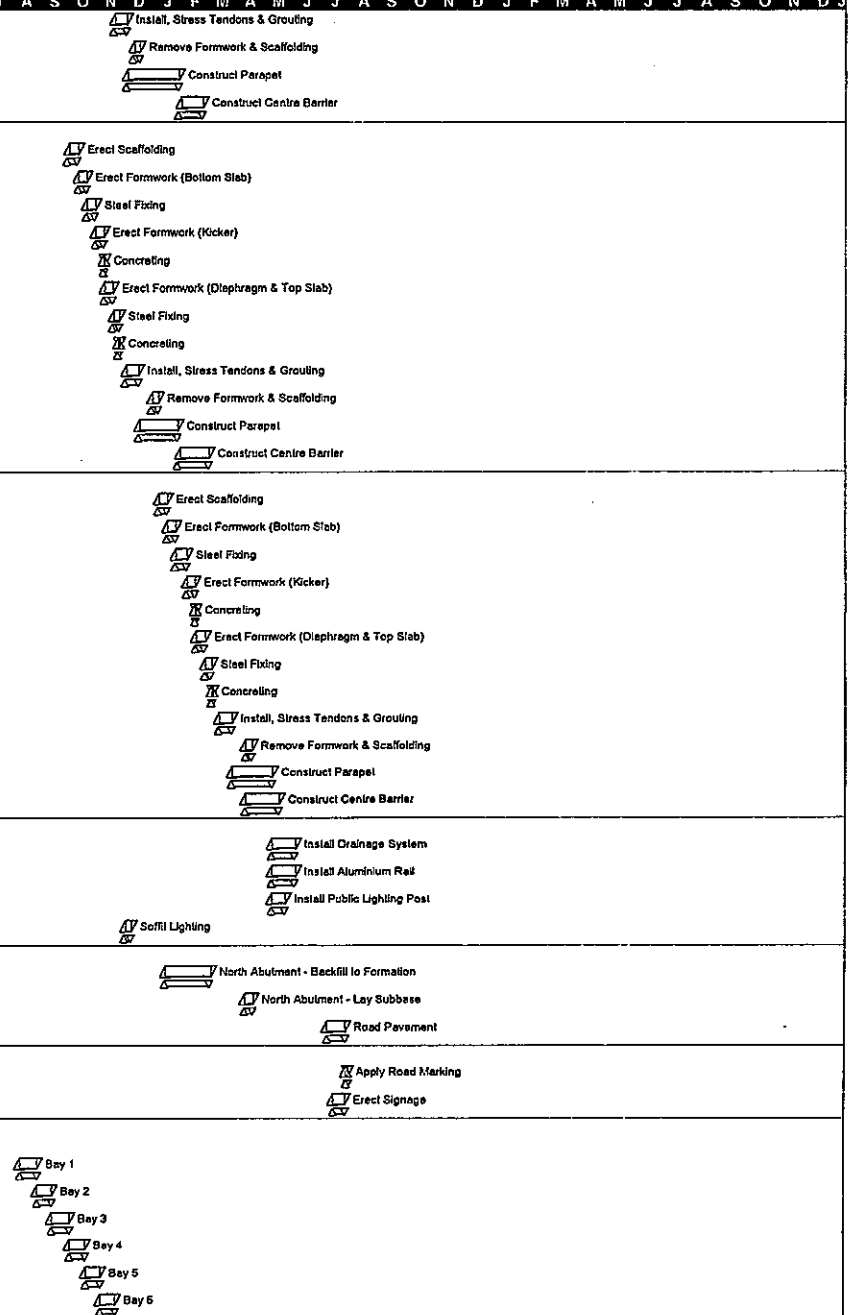
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
02MBDA0900	Install, Stress Tendons & Grouting	12	69d	0	21NOV05	03DEC05	11FEB06	24FEB06
02MBDA1000	Remove Formwork & Scaffolding	6	69d	0	12DEC05	17DEC05	04MAR06	10MAR06
02MBDA1100	Construct Parapet	48	141d	0	05DEC05	26JAN06	23MAY06	19JUL06
02MBDA1200	Construct Centre Barrier	20	141d	0	01FEB05	23FEB06	20JUL06	11AUG06
Bridge Deck - Pier 1 to Pier 2								
02MBDB0100	Erect Scaffolding	8	57d	0	03OCT05	12OCT05	05DEC05	17DEC05
02MBDB0200	Erect Formwork (Bottom Slab)	8	57d	0	13OCT05	21OCT05	19DEC05	27DEC05
02MBDB0300	Steel Fixing	8	57d	0	22OCT05	31OCT05	28DEC05	05JAN06
02MBDB0400	Erect Formwork (Kicker)	6	57d	0	01NOV05	09NOV05	06JAN06	14JAN06
02MBDB0500	Concreting	1	57d	0	10NOV05	10NOV05	16JAN06	16JAN06
02MBDB0600	Erect Formwork (Diaphragm & Top Slab)	8	57d	0	11NOV05	19NOV05	17JAN06	25JAN06
02MBDB0700	Steel Fixing	6	57d	0	21NOV05	26NOV05	25JAN06	03FEB06
02MBDB0800	Concreting	1	57d	0	26NOV05	26NOV05	03FEB06	03FEB06
02MBDB0900	Install, Stress Tendons & Grouting	12	57d	0	05DEC05	17DEC05	11FEB06	24FEB06
02MBDB1000	Remove Formwork & Scaffolding	6	57d	0	02JAN06	07JAN06	11MAR06	17MAR06
02MBDB1100	Construct Parapet	36	134d	0	19DEC05	26JAN06	29MAY06	11JUL06
02MBDB1200	Construct Centre Barrier	27	134d	0	01FEB06	03MAR06	12JUL06	11AUG06
Bridge Deck - Pier 2 to North Abutment								
02MBDC0100	Erect Scaffolding	8	57d	0	09JAN06	17JAN06	18MAR06	27MAR06
02MBDC0200	Erect Formwork (Bottom Slab)	6	57d	0	18JAN06	25JAN06	28MAR06	06APR06
02MBDC0300	Steel Fixing	8	57d	0	27JAN06	07FEB06	07APR06	15APR06
02MBDC0400	Erect Formwork (Kicker)	8	57d	0	08FEB06	16FEB06	17APR06	25APR06
02MBDC0500	Concreting	1	57d	0	17FEB06	17FEB06	26APR06	26APR06
02MBDC0600	Erect Formwork (Diaphragm & Top Slab)	8	57d	0	18FEB06	27FEB06	27APR06	06MAY06
02MBDC0700	Steel Fixing	6	57d	0	28FEB06	06MAR06	08MAY06	13MAY06
02MBDC0800	Concreting	1	57d	0	07MAR06	07MAR06	15MAY06	15MAY06
02MBDC0900	Install, Stress Tendons & Grouting	12	57d	0	15MAR06	28MAR06	23MAY06	06JUN06
02MBDC1000	Remove Formwork & Scaffolding	6	75d	0	13APR06	19APR06	13JUL06	19JUL06
02MBDC1100	Construct Parapet	36	57d	0	29MAR06	11MAY06	07JUN06	19JUL06
02MBDC1200	Construct Centre Barrier	35	71d	0	13APR06	18MAY06	08JUL06	11AUG06
Miscellaneous works								
02MBMW0100	Install Drainage System	20	57d	0	12MAY06	05JUN06	20JUL06	11AUG06
02MBMW0200	Install Aluminium Rail	20	57d	0	12MAY06	05JUN06	20JUL06	11AUG06
02MBMW0300	Install Public Lighting Post	12	65d	0	12MAY06	25MAY06	29JUL06	11AUG06
02MBMW0400	Soffit Lighting	6	69d	0	05DEC05	10DEC05	25FEB06	03MAR06
Roads and Paving								
02MBRP0100	North Abutment - Backfill to Formation	40	93d	0	17JAN06	06MAR06	10MAY06	26JUN06
02MBRP0200	North Abutment - Lay Subbase	8	93d	0	13APR06	21APR06	03AUG06	11AUG06
02MBRP0300	Road Pavement	18	29d	0	10JUL06	29JUL06	12AUG06	01SEP06
Road Marking, Traffic Sign and Fencing								
02MBRM0100	Apply Road Marking	2	29d	0	31JUL06	01AUG06	02SEP06	04SEP06
02MBRM0200	Erect Signage	12	29d	0	17JUL06	29JUL06	19AUG06	01SEP06
etaining Wall No. 1								
02REWA0100	Bay 1	16	29d	0	13AUG05	31AUG05	16SEP05	06OCT05
02REWA0200	Bay 2	14	29d	0	01SEP05	16SEP05	07OCT05	24OCT05
02REWA0300	Bay 3	14	29d	0	17SEP05	05OCT05	25OCT05	09NOV05
02REWA0400	Bay 4	14	29d	0	06OCT05	22OCT05	10NOV05	25NOV05
02REWA0500	Bay 5	14	29d	0	24OCT05	08NOV05	26NOV05	12DEC05
02REWA0600	Bay 6	14	107d	0	09NOV05	24NOV05	16MAR06	31MAR06



t date 10JUN04
ch date 20NOV07
e date 28JAN05
date 28JAN05
ect name IP06
e number 7A

Primavera Systems, Inc.

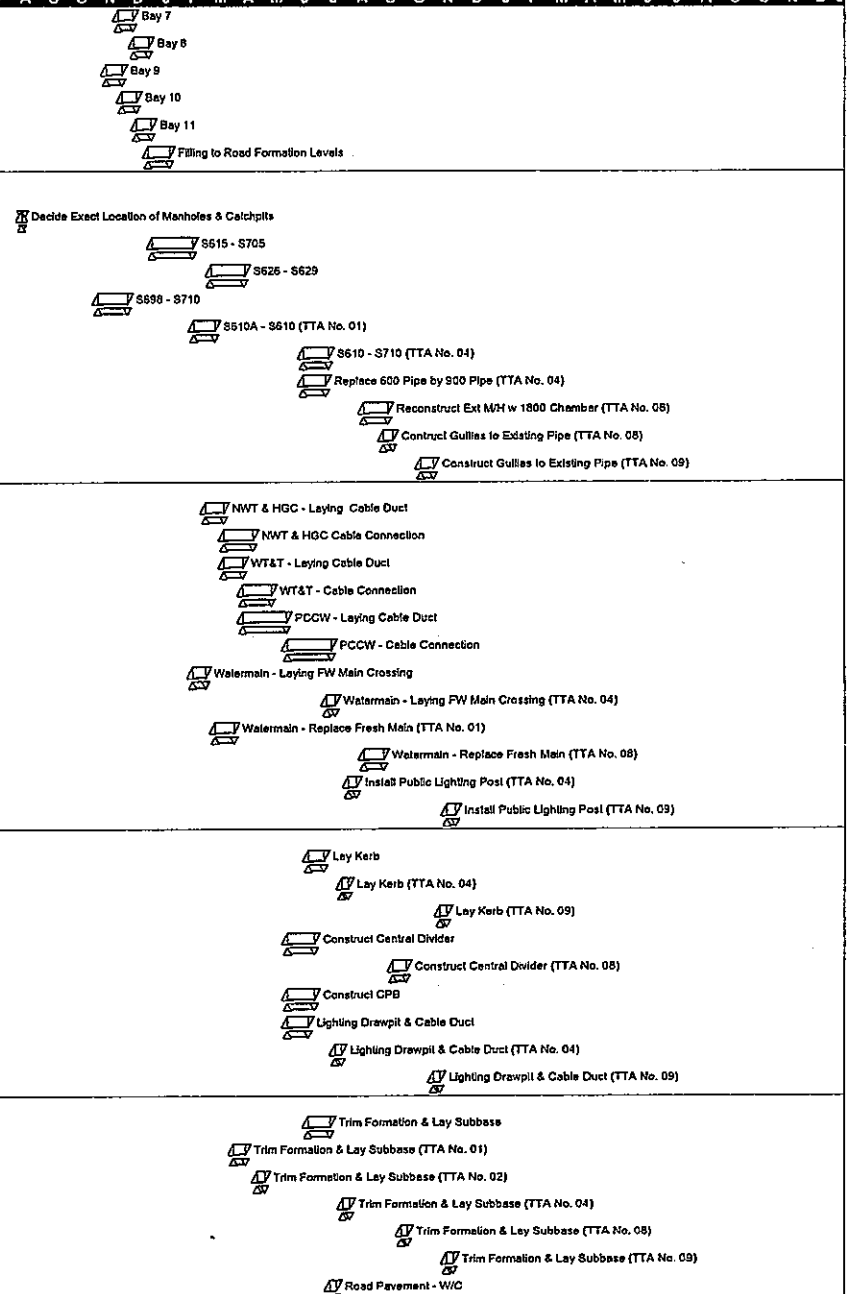
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
2REWA0700	Bay 7	14	107d	0	25NOV05	10DEC05	01APR06	18APR06
2REWA0800	Bay 8	14	107d	0	12DEC05	27DEC05	19APR06	05MAY06
2REWA0900	Bay 9	14	114d	0	12NOV05	28NOV05	28MAR06	13APR06
2REWA1000	Bay 10	14	114d	0	29NOV05	14DEC05	14APR06	29APR06
2REWA1100	Bay 11	14	114d	0	15DEC05	30DEC05	02MAY06	17MAY06
2REWA1200	Filling to Road Formation Levels	20	107d	0	28DEC05	19JAN06	06MAY06	29MAY06
ad D1								
ainage Works								
2RDDW0100	Decide Exact Location of Manholes & Catchpits	1	165d	0	13AUG05	13AUG05	28FEB06	28FEB06
2RDDW0200	S615 - S705	36	39d	0	02JAN06	14FEB06	18FEB06	31MAR06
2RDDW0300	S626 - S629	31	93d	0	07MAR06	12APR06	27JUN06	02AUG06
2RDDW0400	S698 - S710	27	98d	0	04NOV05	05DEC05	01MAR06	31MAR06
2RDDW0500	S610A - S610 (TTA No. 01)	20	101d	0	16FEB06	10MAR06	17JUN06	11JUL06
2RDDW0600	S610 - S710 (TTA No. 04)	22	21d	0	15JUN06	11JUL06	11JUL06	04AUG06
2RDDW0700	Replace 600 Pipe by 900 Pipe (TTA No. 04)	20	15d	0	15JUN06	08JUL06	04JUL06	26JUL06
2RDDW0800	Reconstruct Ext M/H w 1800 Chamber (TTA No. 08)	22	19d	0	19AUG05	13SEP06	11SEP05	05OCT06
2RDDW0900	Contruct Gullies to Existing Pipe (TTA No. 08)	8	15d	0	09SEP06	18SEP06	27SEP06	05OCT06
2RDDW1000	Construct Gullies to Existing Pipe (TTA No. 09)	10	15d	0	19OCT06	31OCT06	07NOV06	17NOV06
ility Works								
2RDUT0300	NWT & HGC - Laying Cable Duct	17	39d	0	01MAR06	20MAR06	17APR06	05MAY06
2RDUT0310	NWT & HGC Cable Connection	27	148d	0	21MAR06	21APR06	14SEP06	16OCT06
2RDUT0400	WT&T - Laying Cable Duct	17	39d	0	21MAR06	10APR06	08MAY06	26MAY06
2RDUT0410	WT&T - Cable Connection	26	132d	0	11APR06	11MAY06	15SEP06	16OCT06
2RDUT0500	PCCW - Laying Cable Duct	40	39d	0	11APR06	27MAY06	27MAY06	14JUL06
2RDUT0510	PCCW - Cable Connection	39	44d	0	29MAY06	14JUL06	21JUL06	04SEP06
2RDUT0600	Watermain - Laying FW Main Crossing	12	39d	0	15FEB06	28FEB06	01APR06	15APR06
2RDUT0700	Watermain - Laying FW Main Crossing (TTA No. 04)	8	15d	0	10JUL06	18JUL06	27JUL06	04AUG06
2RDUT0800	Watermain - Replace Fresh Main (TTA No. 01)	18	101d	0	11MAR06	31MAR06	12JUL06	01AUG06
2RDUT0900	Watermain - Replace Fresh Main (TTA No. 08)	18	15d	0	19AUG05	08SEP06	06SEP06	26SEP06
2RDUT1000	Install Public Lighting Post (TTA No. 04)	8	21d	0	02AUG06	10AUG06	26AUG06	04SEP06
2RDUT1100	Install Public Lighting Post (TTA No. 09)	8	26d	0	15NOV06	23NOV06	15DEC06	23DEC06
ublic Lighting, Duct and Kerb								
2RDPK0100	Lay Kerb	14	39d	0	20JUN06	06JUL06	05AUG06	21AUG06
2RDPK0200	Lay Kerb (TTA No. 04)	6	15d	0	26JUL06	01AUG06	12AUG06	18AUG06
2RDPK0300	Lay Kerb (TTA No. 09)	6	15d	0	06NOV06	14NOV06	25NOV06	01DEC06
2RDPK0400	Construct Central Divider	24	43d	0	29MAY06	26JUN06	20JUL06	16AUG06
2RDPK0500	Construct Central Divider (TTA No. 08)	12	15d	0	19SEP06	02OCT06	06OCT06	20OCT06
2RDPK0600	Construct CPB	24	43d	0	29MAY06	26JUN06	20JUL06	16AUG06
2RDPK0700	Lighting Drawpit & Cable Duct	18	39d	0	29MAY06	19JUN06	15JUL06	04AUG06
2RDPK0800	Lighting Drawpit & Cable Duct (TTA No. 04)	6	15d	0	19JUL06	25JUL06	05AUG06	11AUG06
2RDPK0900	Lighting Drawpit & Cable Duct (TTA No. 09)	6	15d	0	01NOV06	07NOV06	18NOV06	24NOV06
oads and Paving								
2RDRP0100	Trim Formation & Lay Subbase	20	39d	0	20JUN06	13JUL06	05AUG06	28AUG06
2RDRP0200	Trim Formation & Lay Subbase (TTA No. 01)	10	101d	0	01APR06	13APR06	02AUG06	12AUG06
2RDRP0300	Trim Formation & Lay Subbase (TTA No. 02)	6	101d	0	27APR06	04MAY06	26AUG06	01SEP06
2RDRP0400	Trim Formation & Lay Subbase (TTA No. 04)	6	15d	0	28JUL06	03AUG06	15AUG06	21AUG06
2RDRP0500	Trim Formation & Lay Subbase (TTA No. 08)	6	15d	0	28SEP06	04OCT06	17OCT06	23OCT06
2RDRP0600	Trim Formation & Lay Subbase (TTA No. 09)	6	15d	0	15NOV06	21NOV06	02DEC06	08DEC06
2RDRP0700	Road Pavement - W/C	8	39d	0	14JUL06	20JUL06	29AUG06	04SEP06



date 10JUN04
date 20NOV07
date 28JAN05
date 28JAN05
ct name IP05
number 8A

Primavera Systems, Inc.

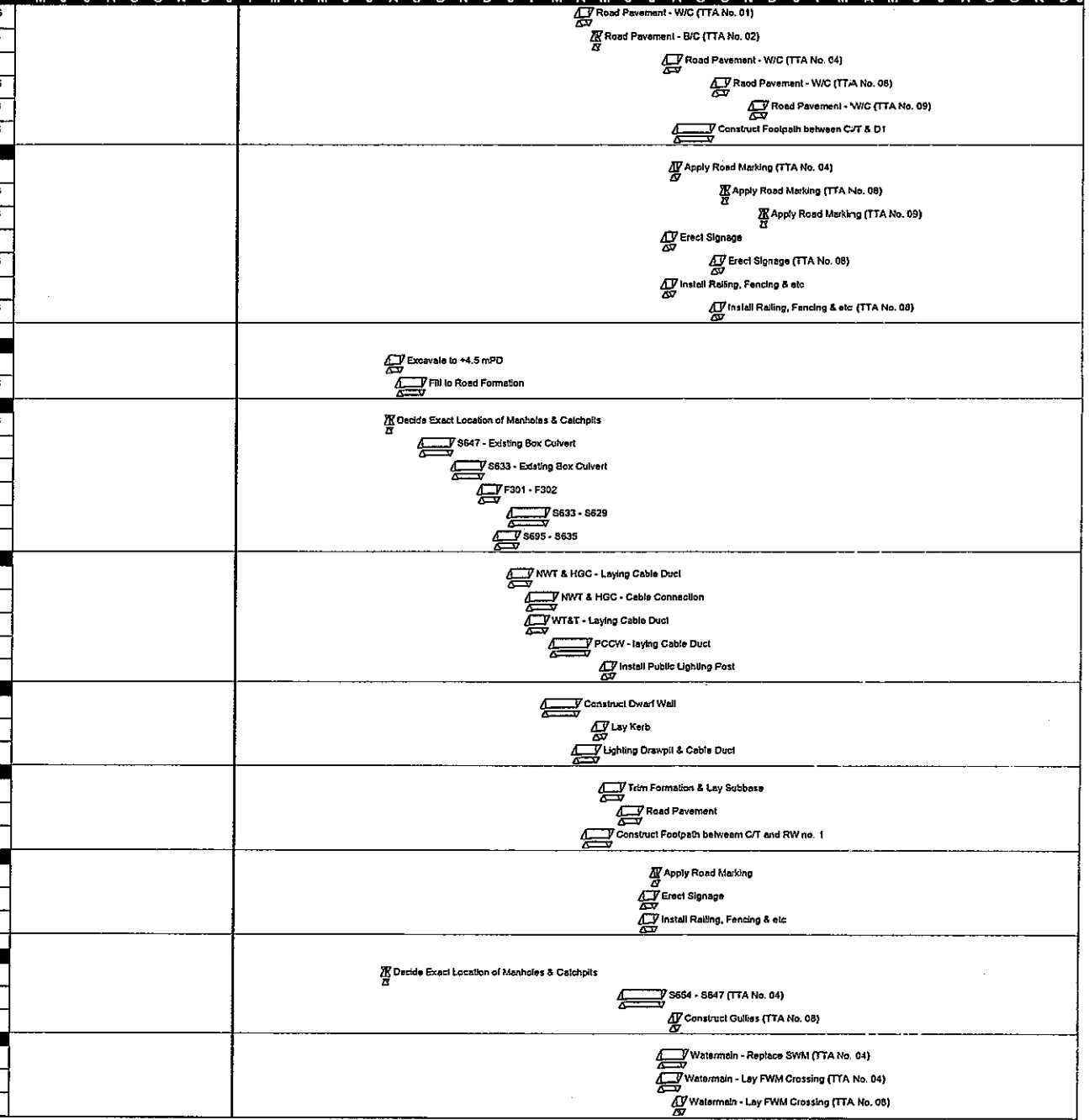
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
02RDRP0800	Road Pavement - W/C (TTA No. 01)	10	101d	0	14APR06	25APR06	14AUG06	24AUG06
02RDRP0900	Road Pavement - B/C (TTA No. 02)	2	101d	0	05MAY06	06MAY06	02SEP06	04SEP06
02RDRP1000	Road Pavement - W/C (TTA No. 04)	12	15d	0	04AUG06	17AUG06	22AUG06	04SEP06
02RDRP1100	Road Pavement - W/C (TTA No. 08)	10	15d	0	05OCT06	17OCT06	24OCT06	04NOV06
02RDRP1200	Road Pavement - W/C (TTA No. 09)	12	15d	0	22NOV06	05DEC06	09DEC06	22DEC06
02RDRP1300	Construct Footpath between C/T & D1	36	73d	0	18AUG06	28SEP06	14NOV06	25DEC06
Road Marking , Traffic Sign and Fencing								
02RDRM0100	Apply Road Marking (TTA No. 04)	4	15d	0	14AUG06	17AUG06	31AUG06	04SEP06
02RDRM0200	Apply Road Marking (TTA No. 08)	1	15d	0	17OCT06	17OCT06	04NOV06	04NOV06
02RDRM0300	Apply Road Marking (TTA No. 09)	1	15d	0	06DEC06	06DEC06	23DEC06	23DEC06
02RDRM0400	Erect Signage	8	19d	0	04AUG06	12AUG06	26AUG06	04SEP06
02RDRM0500	Erect Signage (TTA No. 08)	6	19d	0	05OCT06	12OCT06	28OCT06	04NOV06
02RDRM0600	Install Railing, Fencing & etc	8	19d	0	04AUG06	12AUG06	26AUG06	04SEP06
02RDRM0700	Install Railing, Fencing & etc (TTA No. 08)	6	19d	0	05OCT06	12OCT06	26OCT06	04NOV06
Road SL3								
Earthworks								
02RSEA0100	Excavate to +4.5 mPD	12	138d	0	13AUG05	26AUG05	25JAN06	09FEB06
02RSEA0200	Fill to Road Formation	24	138d	0	27AUG05	24SEP05	10FEB06	09MAR06
Drainage Works								
02RSDW0100	Decide Exact Location of Manholes & Catchpits	1	173d	0	13AUG05	13AUG05	09MAR06	09MAR06
02RSDW0200	S647 - Existing Box Culvert	29	138d	0	26SEP05	31OCT05	10MAR06	13APR06
02RSDW0300	S633 - Existing Box Culvert	29	138d	0	06NOV05	10DEC05	21APR06	25MAY06
02RSDW0400	F301 - F302	18	138d	0	12DEC05	31DEC05	26MAY06	16JUN06
02RSDW0500	S633 - S629	36	107d	0	20JAN06	04MAR06	30MAY06	12JUL06
02RSDW0600	S695 - S635	21	138d	0	02JAN06	25JAN06	17JUN06	12JUL06
Utility Works								
02RSUT0200	NWT & HGC - Laying Cable Duct	18	144d	0	20JAN06	11FEB06	14JUL06	03AUG06
02RSUT0210	NWT & HGC - Cable Connection	27	144d	0	13FEB06	15MAR06	04AUG06	04SEP06
02RSUT0300	WT&T - Laying Cable Duct	18	178d	0	13FEB06	04MAR06	13SEP06	03OCT06
02RSUT0400	PCCW - laying Cable Duct	36	178d	0	16MAR06	27APR06	16OCT06	27NOV06
02RSUT0500	Install Public Lighting Post	8	175d	0	20MAY06	29MAY06	15DEC06	23DEC06
Public Lighting, Duct and Kerb								
02RSPK0100	Construct Dwarf Wall	34	107d	0	06MAR06	14APR06	13JUL06	21AUG06
02RSPK0200	Lay Kerb	9	126d	0	10MAY06	19MAY06	06OCT06	17OCT06
02RSPK0300	Lighting Drawpit & Cable Duct	20	125d	0	15APR06	09MAY06	13SEP06	05OCT06
Roads and Paving								
02RSRP0100	Trim Formation & Lay Subbase	18	126d	0	20MAY06	10JUN06	16OCT06	08NOV06
02RSRP0200	Road Pavement	18	126d	0	12JUN06	03JUL06	09NOV06	29NOV06
02RSRP0300	Construct Footpath between C/T and RW no. 1	24	178d	0	28APR06	26MAY06	28NOV06	25DEC06
Road Marking , Traffic Sign and Fencing								
02RSRM0100	Apply Road Marking	3	126d	0	25JUL06	27JUL06	21DEC06	23DEC06
02RSRM0200	Erect Signage	12	126d	0	11JUL06	24JUL06	07DEC06	20DEC06
02RSRM0300	Install Railing, Fencing & etc	12	126d	0	11JUL06	24JUL06	07DEC06	20DEC06
Existing Sui Cheung Street								
Drainage Works								
02SCDW0100	Decide Exact Location of Manholes & Catchpits	1	294d	0	13AUG05	13AUG05	02AUG06	02AUG06
02SCDW0200	S654 - S647 (TTA No. 04)	42	41d	0	15JUN06	03AUG06	03AUG06	20SEP06
02SCDW0300	Construct Gullies (TTA No. 08)	4	42d	0	19AUG06	23AUG06	09OCT06	12OCT06
Utility Works								
02SCUT0600	Watermain - Replace SWM (TTA No. 04)	24	41d	0	04AUG06	31AUG06	21SEP06	19OCT06
02SCUT0700	Watermain - Lay FWM Crossing (TTA No. 04)	18	47d	0	04AUG06	24AUG06	26SEP06	19OCT06
02SCUT0800	Watermain - Lay FWM Crossing (TTA No. 08)	6	42d	0	24AUG06	30AUG06	13OCT06	19OCT06



Early bar	
Early start point	
Early finish point	
Target start point	
Target finish point	
Target bar	
Progress bar	
Critical bar	
Summary bar	
Start milestone point	
Finish milestone point	

Data date	10JUN04
Finish date	20NOV07
Data date	28JAN05
Run date	28JAN05
Project name	TP06
Page number	9A

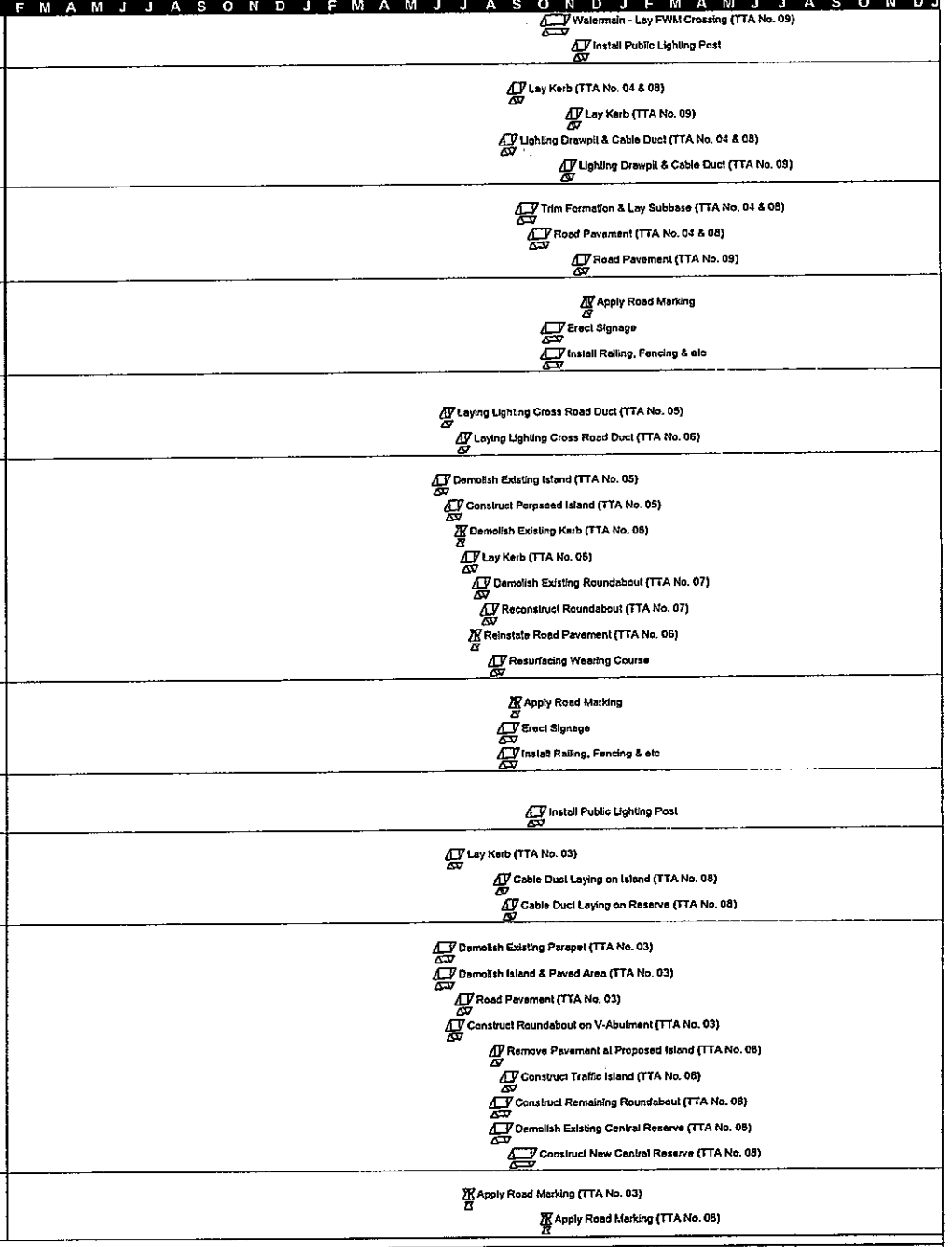
© Primavera Systems, Inc.

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
2SCUT0900	Watermain - Lay FWM Crossing (TTA No. 09)	18	15d	0	19OCT05	09NOV06	07NOV06	27NOV06
2SCUT1000	Install Public Lighting Post	8	16d	0	24NOV06	02DEC06	15DEC06	23DEC06
ublic Lighting, Duct and Kerb								
2SCPK0100	Lay Kerb (TTA No. 04 & 08)	8	41d	0	11SEP06	19SEP06	31OCT06	08NOV06
2SCPK0200	Lay Kerb (TTA No. 09)	6	15d	0	17NOV06	23NOV06	05DEC06	11DEC06
2SCPK0300	Lighting Drawpit & Cable Duct (TTA No. 04 & 08)	8	41d	0	01SEP06	09SEP06	20OCT06	28OCT06
2SCPK0400	Lighting Drawpit & Cable Duct (TTA No. 09)	6	15d	0	10NOV06	16NOV06	28NOV06	04DEC06
oads and Paving								
2SCRP0100	Trim Formation & Lay Subbase (TTA No. 04 & 08)	12	41d	0	20SEP06	03OCT06	09NOV06	22NOV06
2SCRP0200	Road Pavement (TTA No. 04 & 08)	12	41d	0	04OCT06	18OCT06	23NOV06	06DEC06
2SCRP0300	Road Pavement (TTA No. 09)	8	15d	0	24NOV06	02DEC06	12DEC06	20DEC06
oad Marking , Traffic Sign and Fencing								
2SCRM0100	Apply Road Marking	3	15d	0	04DEC06	06DEC06	21DEC06	23DEC06
2SCRM0200	Erect Signage	12	41d	0	19OCT06	02NOV06	07DEC06	20DEC06
2SCRM0300	Install Railing, Fencing & etc	12	41d	0	19OCT06	02NOV06	07DEC06	20DEC06
isting Sui Cheung Street Roundabout								
ublic Lighting, Duct and Kerb								
2SRPK0100	Laying Lighting Cross Road Duct (TTA No. 05)	4	86d	0	24JUN06	28JUN06	04OCT06	09OCT06
2SRPK0200	Laying Lighting Cross Road Duct (TTA No. 06)	4	86d	0	13JUL06	17JUL06	23OCT06	26OCT06
oads and Paving								
2SRRP0100	Demolish Existing Island (TTA No. 05)	8	86d	0	15JUN06	23JUN06	25SEP06	03OCT06
2SRRP0200	Construct Porpsoed Island (TTA No. 05)	8	86d	0	29JUN06	06JUL06	10OCT06	18OCT06
2SRRP0300	Demolish Existing Kerb (TTA No. 06)	2	86d	0	11JUL06	12JUL06	20OCT06	21OCT06
2SRRP0400	Lay Kerb (TTA No. 06)	8	86d	0	18JUL06	26JUL06	27OCT06	06NOV06
2SRRP0500	Demolish Existing Roundabout (TTA No. 07)	8	86d	0	31JUL06	08AUG06	10NOV06	18NOV06
2SRRP0600	Reconstruct Roundabout (TTA No. 07)	8	86d	0	09AUG06	17AUG06	20NOV06	28NOV06
2SRRP0700	Reinstate Road Pavement (TTA No. 06)	2	86d	0	27JUL06	28JUL06	07NOV06	08NOV06
2SRRP0800	Resurfacing Wearing Course	8	86d	0	18AUG06	26AUG06	29NOV06	07DEC06
oad Marking , Traffic Sign and Fencing								
2SRRM0100	Apply Road Marking	2	86d	0	11SEP06	12SEP06	22DEC06	23DEC06
2SRRM0200	Erect Signage	12	86d	0	28AUG06	09SEP06	08DEC06	21DEC06
2SRRM0300	Install Railing, Fencing & etc	12	86d	0	28AUG06	09SEP06	08DEC06	21DEC06
isting Ma Liu Shui Bridge								
Utility Works								
2EBUT0100	Install Public Lighting Post	8	21d	0	30SEP06	10OCT06	26OCT06	04NOV06
Public Lighting, Duct and Kerb								
2EBPK0100	Lay Kerb (TTA No. 03)	8	40d	0	29JUN06	06JUL06	16AUG06	24AUG06
2EBPK0200	Cable Duct Laying on Island (TTA No. 08)	6	39d	0	24AUG06	30AUG06	10OCT06	16OCT06
2EBPK0300	Cable Duct Laying on Reserve (TTA No. 08)	6	21d	0	02SEP06	08SEP06	27SEP06	03OCT06
Roads and Paving								
2EBRP0100	Demolish Existing Parapet (TTA No. 03)	12	29d	0	15JUN06	28JUN06	20JUL06	02AUG06
2EBRP0200	Demolish Island & Paved Area (TTA No. 03)	12	40d	0	15JUN06	28JUN06	02AUG06	15AUG06
2EBRP0300	Road Pavement (TTA No. 03)	8	40d	0	10JUL06	18JUL06	25AUG06	02SEP06
2EBRP0400	Construct Roundabout on V-Abutment (TTA No. 03)	8	29d	0	29JUN06	06JUL06	03AUG06	11AUG06
2EBRP0500	Remove Pavement at Proposed Island (TTA No. 08)	4	39d	0	19AUG06	23AUG06	04OCT06	09OCT06
2EBRP0600	Construct Traffic Island (TTA No. 08)	8	39d	0	31AUG06	08SEP06	17OCT06	25OCT06
2EBRP0700	Construct Remaining Roundabout (TTA No. 08)	12	62d	0	19AUG06	01SEP06	25NOV06	08DEC06
2EBRP0800	Demolish Existing Central Reserve (TTA No. 08)	12	21d	0	19AUG06	01SEP06	13SEP06	26SEP06
2EBRP0900	Construct New Central Reserve (TTA No. 08)	18	21d	0	09SEP06	29SEP06	04OCT06	25OCT06
Road Marking , Traffic Sign and Fencing								
2EBRM0100	Apply Road Marking (TTA No. 03)	1	40d	0	19JUL06	19JUL06	04SEP06	04SEP06
2EBRM0200	Apply Road Marking (TTA No. 08)	1	58d	0	16OCT06	16OCT06	23DEC06	23DEC06



date	10JUN04
date	20NOV07
date	28JAN05
date	28JAN05
ject name	IP06
er number	10A

Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

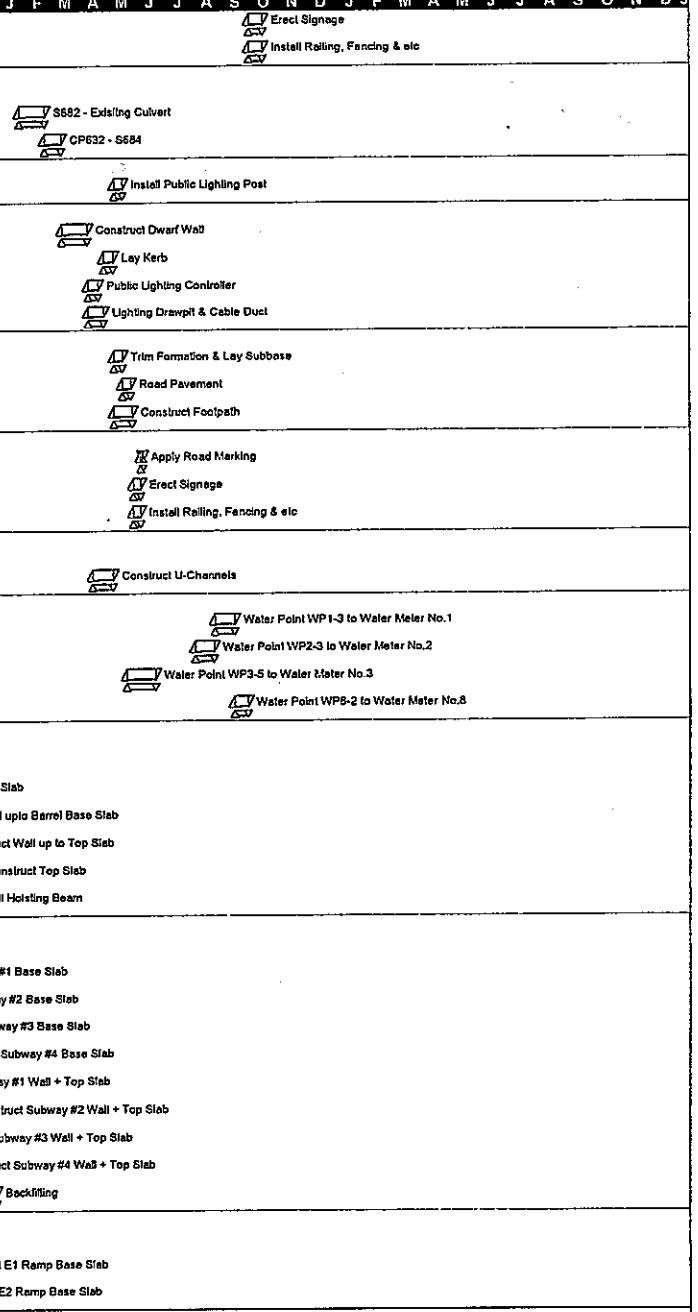
© Primavera Systems, Inc.

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
2EBRM0300	Erect Signage	12	58d	0	30SEP06	14OCT06	09DEC06	22DEC06
2EBRM0400	Install Railing, Fencing & etc	12	58d	0	30SEP06	14OCT06	09DEC06	22DEC06
r Park and Access Road								
rainage Works								
2CPDW1200	S682 - Existing Culvert	21	169d	0	26JAN06	21FEB06	18AUG06	11SEP06
2CPDW1300	CP632 - S684	16	169d	0	22FEB06	11MAR06	12SEP06	29SEP06
ility Works								
2CPUT0500	Install Public Lighting Post	8	187d	0	08MAY06	16MAY06	16DEC06	25DEC06
ublic Lighting, Duct and Kerb								
2CPPK0100	Construct Dwarf Wall	23	169d	0	13MAR06	06APR06	30SEP06	27OCT06
2CPPK0200	Lay Kerb	8	169d	0	27APR06	06MAY06	15NOV06	24NOV06
2CPPK0300	Public Lighting Controller	10	200d	0	10APR06	20APR06	05DEC06	15DEC06
2CPPK0400	Lighting Drawpit & Cable Duct	15	169d	0	10APR06	26APR06	26OCT06	15NOV06
oads and Paving								
2CPRP0100	Trim Formation & Lay Subbase	8	177d	0	08MAY06	16MAY06	05DEC06	13DEC06
2CPRP0200	Road Pavement	8	177d	0	17MAY06	25MAY06	14DEC06	22DEC06
2CPRP0300	Construct Footpath	18	169d	0	08MAY06	27MAY06	25NOV06	15DEC06
oad Marking , Traffic Sign and Fencing								
2CPRM0100	Apply Road Marking	2	169d	0	06JUN06	07JUN06	23DEC06	25DEC06
2CPRM0200	Erect Signage	6	169d	0	29MAY06	05JUN06	16DEC06	22DEC06
2CPRM0300	Install Railing, Fencing & etc	6	169d	0	29MAY06	05JUN06	16DEC06	22DEC06
nenity Area								
rainage Works								
2AMDW0100	Construct U-Channels	18	195d	0	15APR06	06MAY06	05DEC06	25DEC06
ility Works								
2AMUT0100	Water Point WP1-3 to Water Meter No.1	18	73d	0	25AUG06	14SEP06	21NOV06	11DEC06
2AMUT0200	Water Point WP2-3 to Water Meter No.2	17	104d	0	04AUG06	23AUG06	06DEC06	25DEC06
2AMUT0300	Water Point WP3-5 to Water Meter No.3	26	157d	0	22MAY06	21JUN06	25NOV06	25DEC06
2AMUT0400	Water Point WP8-2 to Water Meter No.8	12	73d	0	15SEP06	28SEP06	12DEC06	25DEC06
tion 3								
a Liu Shui Subway								
ump House Construction								
03MSPH0100	Construct Base Slab	8	39d	0	17SEP05	27SEP05	05NOV05	14NOV05
03MSPH0200	Construct Wall upto Barrel Base Slab	8	39d	0	28SEP05	07OCT05	15NOV05	23NOV05
03MSPH0300	Construct Wall up to Top Slab	12	39d	0	31OCT05	12NOV05	15DEC05	28DEC05
03MSPH0400	Construct Top Slab	12	39d	0	28NOV05	10DEC05	12JAN06	25JAN06
03MSPH0500	Install Hoisting Beam	6	39d	0	21NOV05	26NOV05	05JAN06	11JAN06
ubway Barrel Construction								
03MSSB0100	Excavation	30	15d	0	13AUG05	16SEP05	31AUG05	06OCT05
03MSSB0200	Construct Subway #1 Base Slab	9	16d	0	31AUG05	09SEP05	20SEP05	29SEP05
03MSSB0300	Construct Subway #2 Base Slab	9	49d	0	10SEP05	21SEP05	10NOV05	19NOV05
03MSSB0400	Construct Subway #3 Base Slab	9	49d	0	22SEP05	03OCT05	21NOV05	30NOV05
03MSSB0500	Construct Subway #4 Base Slab	12	39d	0	17OCT05	29OCT05	01DEC05	14DEC05
03MSSB0600	Construct Subway #1 Wall + Top Slab	12	55d	0	10SEP05	24SEP05	17NOV05	30NOV05
03MSSB0700	Construct Subway #2 Wall + Top Slab	12	51d	0	14NOV05	26NOV05	12JAN06	25JAN06
03MSSB0800	Construct Subway #3 Wall + Top Slab	12	49d	0	04OCT05	18OCT05	01DEC05	14DEC05
03MSSB0900	Construct Subway #4 Wall + Top Slab	12	51d	0	31OCT05	12NOV05	29DEC05	11JAN06
03MSSB1000	Backfilling	16	39d	0	12DEC05	31DEC05	25JAN06	17FEB06
ubway East Ramp Construction								
03MSSE0100	Excavation	44	15d	0	31AUG05	24OCT05	17SEP05	10NOV05
03MSSE0200	Construct E1 Ramp Base Slab	6	43d	0	27OCT05	02NOV05	16DEC05	22DEC05
03MSSE0300	Construct E2 Ramp Base Slab	6	41d	0	20OCT05	26OCT05	07DEC05	13DEC05



date	10JUN04
h date	20NOV07
date	28JAN05
date	28JAN05
ect name	IP06
e number	11A
	Primavera Systems, Inc.

Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
03MSSE0400	Construct E3 Ramp Base Slab	6	27d	0	27OCT05	02NOV05	28NOV05	03DEC05
03MSSE0500	Construct E4 Ramp Base Slab	6	27d	0	20OCT05	26OCT05	21NOV05	28NOV05
03MSSE0600	Construct E5 Ramp Base Slab	6	27d	0	13OCT05	19OCT05	14NOV05	19NOV05
03MSSE0700	Construct E6 Ramp Base Slab	6	27d	0	05OCT05	12OCT05	07NOV05	12NOV05
03MSSE0800	Construct E7 Ramp Base Slab	6	27d	0	27SEP05	04OCT05	31OCT05	05NOV05
03MSSE0900	Construct E8 Ramp Base Slab	6	17d	0	20SEP05	26SEP05	12OCT05	18OCT05
03MSSE1000	Construct E9 Ramp Base Slab	6	15d	0	12SEP05	17SEP05	30SEP05	07OCT05
03MSSE1100	Construct E10 Ramp Base Slab	8	15d	0	20SEP05	28SEP05	06OCT05	18OCT05
03MSSE1200	Construct E11 Ramp Base Slab	8	31d	0	29SEP05	06OCT05	07NOV05	15NOV05
03MSSE1300	Construct E12 Ramp Base Slab	8	31d	0	10OCT05	19OCT05	16NOV05	24NOV05
03MSSE1400	Construct E1 Ramp Walls	8	19d	0	01DEC05	09DEC05	23DEC05	31DEC05
03MSSE1500	Construct E2 Ramp Walls	8	19d	0	22NOV05	30NOV05	14DEC05	22DEC05
03MSSE1600	Construct E3 Ramp Walls	8	19d	0	12NOV05	21NOV05	05DEC05	13DEC05
03MSSE1700	Construct E4 Ramp Walls	8	15d	0	24NOV05	02DEC05	12DEC05	20DEC05
03MSSE1800	Construct E5 Ramp Walls	8	15d	0	15NOV05	23NOV05	02DEC05	10DEC05
03MSSE1900	Construct E6 Ramp Walls	8	15d	0	05NOV05	14NOV05	23NOV05	01DEC05
03MSSE2000	Construct E7 Ramp Walls	10	15d	0	25OCT05	04NOV05	11NOV05	22NOV05
03MSSE2100	Construct E8 Ramp Walls	10	15d	0	13OCT05	24OCT05	31OCT05	10NOV05
03MSSE2200	Construct E9 Ramp Walls	10	15d	0	29SEP05	12OCT05	19OCT05	29OCT05
03MSSE2300	Construct E10 Ramp Walls	10	19d	0	13OCT05	24OCT05	04NOV05	15NOV05
03MSSE2400	Construct E11 Ramp Walls	8	19d	0	25OCT05	02NOV05	16NOV05	24NOV05
03MSSE2500	Construct E12 Ramp Walls	8	19d	0	03NOV05	11NOV05	25NOV05	03DEC05
03MSSE2600	Backfilling	20	15d	0	03DEC05	26DEC05	21DEC05	12JAN06
03MSSE2700	Install Roof Steel Posts	18	92d	0	27DEC05	16JAN06	17APR06	08MAY06
03MSSE2800	Construct Roof Slab E6, E8	12	92d	0	17JAN06	01FEB06	09MAY06	22MAY06
03MSSE2900	Construct Roof Slab E5, E7	12	92d	0	02FEB06	15FEB06	23MAY06	05JUN06
03MSSE3000	Construct Roof Slab E4, E9	12	92d	0	16FEB06	01MAR06	07JUN06	20JUN06
03MSSE3100	Construct Roof Slab E3, E10	12	92d	0	02MAR06	15MAR06	21JUN06	05JUL06
03MSSE3200	Construct Roof Slab E2, E11	12	92d	0	16MAR06	29MAR06	05JUL06	19JUL06
03MSSE3300	Construct Roof Slab E1, E12	12	92d	0	30MAR06	13APR06	20JUL06	02AUG06
Subway West Ramp Construction								
03MSSW0100	Excavation (Western Ramp)	41	49d	0	25OCT05	10DEC05	21DEC05	08FEB06
03MSSW0200	Construct W1 Ramp Base Slab	8	75d	0	13DEC05	21DEC05	13MAR06	21MAR06
03MSSW0300	Construct W2 Ramp Base Slab	8	73d	0	03DEC05	12DEC05	01MAR06	09MAR06
03MSSW0400	Construct W3 Ramp Base Slab	8	71d	0	24NOV05	02DEC05	17FEB06	25FEB06
03MSSW0500	Construct W4 Ramp Base Slab	8	49d	0	15NOV05	23NOV05	11JAN06	19JAN06
03MSSW0600	Construct W5 Ramp Base Slab	8	49d	0	05NOV05	14NOV05	02JAN06	10JAN06
03MSSW0700	Construct W6 Ramp Base Slab	8	49d	0	15NOV05	23NOV05	11JAN06	19JAN06
03MSSW0800	Construct W7 Ramp Base Slab	8	91d	0	24NOV05	02DEC05	13MAR06	21MAR06
03MSSW0900	Construct W1 Ramp Walls	10	35d	0	09FEB06	20FEB06	22MAR06	01APR06
03MSSW1000	Construct W2 Ramp Walls	10	35d	0	26JAN06	08FEB06	10MAR06	21MAR06
03MSSW1100	Construct W3 Ramp Walls	10	35d	0	14JAN06	25JAN06	27FEB06	09MAR06
03MSSW1200	Construct W4 Ramp Walls	10	35d	0	03JAN06	13JAN06	15FEB06	25FEB06
03MSSW1300	Construct W5 Ramp Walls	20	35d	0	10DEC05	02JAN06	20JAN06	14FEB06
03MSSW1400	Construct W6 Ramp Walls	20	45d	0	03JAN06	25JAN06	27FEB06	21MAR06
03MSSW1500	Construct W7 Ramp Walls	10	45d	0	26JAN06	08FEB06	22MAR06	01APR06
03MSSW1600	Backfilling	20	35d	0	21FEB06	15MAR06	03APR06	26APR06
03MSSW1700	Install Roof Posts	18	50d	0	16MAR06	06APR06	16MAY06	08JUN06

Start date	10JUN04
Finish date	20NOV07
Data date	28JAN05
Run date	28JAN05
Project name	TP06
Page number	12A

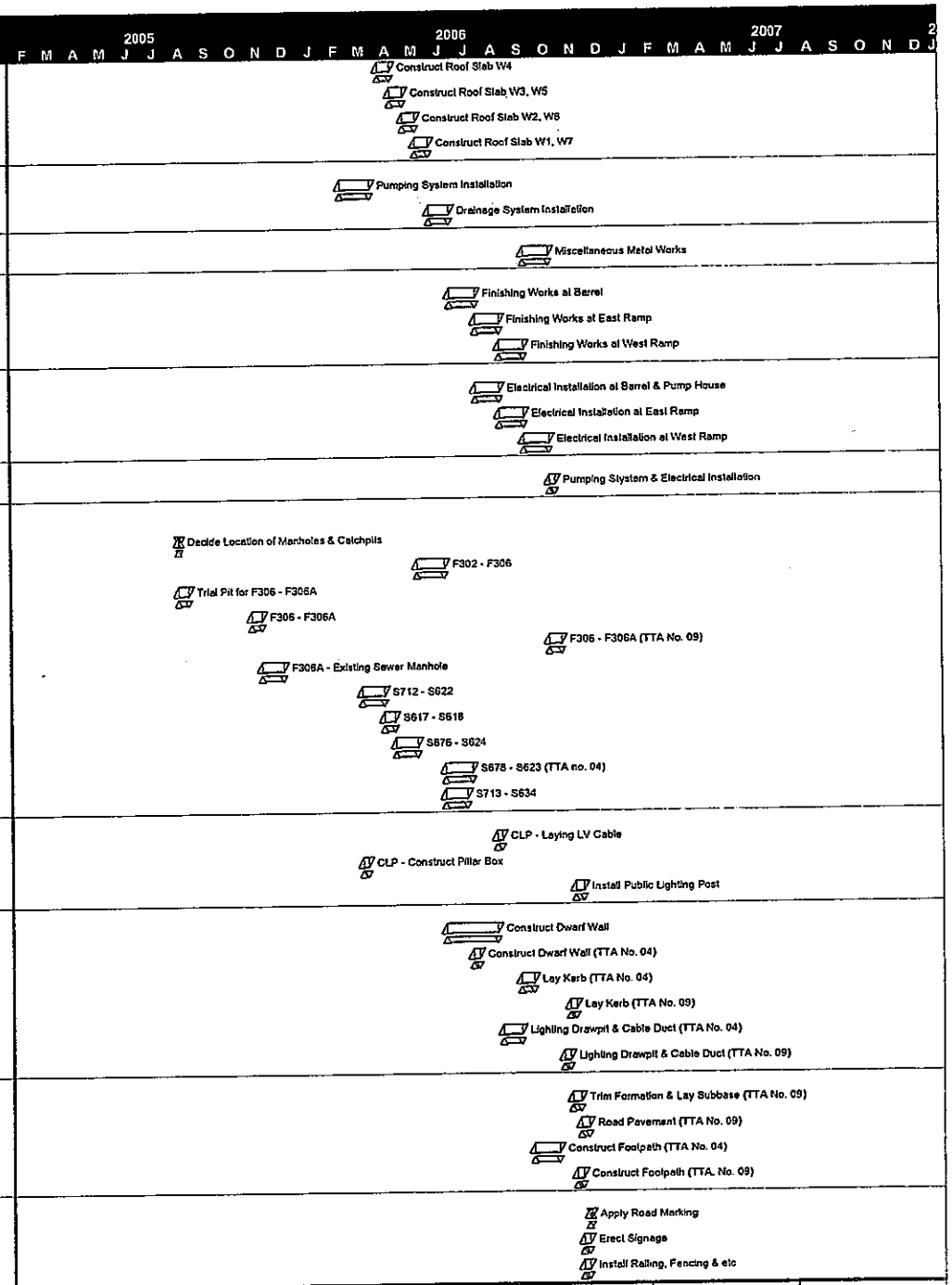
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
03MSSW1800	Construct Roof Slab W4	12	50d	0	07APR06	20APR06	07JUN06	20JUN06
03MSSW1900	Construct Roof Slab W3, W5	12	50d	0	21APR06	05MAY06	21JUN06	05JUL06
03MSSW2000	Construct Roof Slab W2, W6	12	50d	0	06MAY06	19MAY06	06JUL06	19JUL06
03MSSW2100	Construct Roof Slab W1, W7	12	50d	0	20MAY06	03JUN06	20JUL06	02AUG06
Pumping and Drainage System								
03MSPD0100	Pumping System Installation	30	198d	0	21FEB06	27MAR06	16OCT06	26NOV06
03MSPD0200	Drainage System Installation	20	50d	0	05JUN06	27JUN06	03AUG06	25AUG06
Miscellaneous works								
03MSMW0100	Miscellaneous Metal Works	24	56d	0	21SEP06	19OCT06	28NOV06	25DEC06
Finishing Works								
03MSFW0100	Finishing Works at Barrel	24	50d	0	28JUN06	26JUL06	25AUG06	22SEP06
03MSFW0200	Finishing Works at East Ramp	24	50d	0	27JUL06	23AUG06	23SEP06	21OCT06
03MSFW0300	Finishing Works at West Ramp	24	50d	0	24AUG06	20SEP06	23OCT06	20NOV06
E & M Works								
03MSEM0100	Electrical Installation at Barrel & Pump House	24	98d	0	27JUL06	23AUG06	21NOV06	18DEC06
03MSEM0200	Electrical Installation at East Ramp	24	74d	0	24AUG06	20SEP06	21NOV06	18DEC06
03MSEM0300	Electrical Installation at West Ramp	24	50d	0	21SEP06	19OCT06	21NOV06	18DEC06
Testing and Commissioning								
03MSTC0100	Pumping System & Electrical Installation	6	50d	0	20OCT06	26OCT06	19DEC06	25DEC06
Loading and Unloading Area								
Drainage Works								
03LUDW0100	Decide Location of Manholes & Catchpits	1	213d	0	13AUG05	13AUG05	26APR06	26APR06
03LUDW0200	F302 - F306	25	35d	0	19MAY06	19JUN06	30JUN06	31JUL06
03LUDW0300	Trial Pit for F306 - F306A	10	277d	0	13AUG05	24AUG05	13JUL06	24JUL06
03LUDW0400	F306 - F306A	11	277d	0	07NOV05	18NOV05	03OCT06	16OCT06
03LUDW0500	F306 - F306A (TTA No. 09)	11	19d	0	19OCT06	01NOV06	11NOV06	23NOV06
03LUDW0600	F306A - Existing Sewer Manhole	21	277d	0	19NOV05	13DEC05	17OCT06	10NOV06
03LUDW0700	S712 - S622	21	35d	0	15MAR06	10APR06	27APR06	22MAY06
03LUDW0800	S617 - S618	11	35d	0	11APR06	22APR06	23MAY06	05JUN06
03LUDW0900	S676 - S624	21	35d	0	24APR06	18MAY06	06JUN06	29JUN06
03LUDW1000	S678 - S623 (TTA no. 04)	26	58d	0	20JUN06	20JUL06	28AUG06	26SEP06
03LUDW1100	S713 - S634	21	35d	0	20JUN06	14JUL06	01AUG06	24AUG06
Utility Works								
03LUUT0100	CLP - Laying LV Cable	5	35d	0	18AUG06	23AUG06	26SEP06	03OCT06
03LUUT0200	CLP - Construct Pillar Box	5	159d	0	16MAR06	21MAR06	22SEP06	27SEP06
03LUUT0300	Install Public Lighting Post	8	26d	0	16NOV06	24NOV06	16DEC06	25DEC06
Public Lighting, Duct and Kerb								
03LUPK0100	Construct Dwarf Wall	50	35d	0	20JUN06	17AUG06	01AUG06	27SEP06
03LUPK0200	Construct Dwarf Wall (TTA No. 04)	6	58d	0	21JUL06	27JUL06	27SEP06	03OCT06
03LUPK0300	Lay Kerb (TTA No. 04)	12	35d	0	14SEP06	27SEP06	26OCT06	09NOV06
03LUPK0400	Lay Kerb (TTA No. 09)	6	19d	0	09NOV06	15NOV06	01DEC06	07DEC06
03LUPK0500	Lighting Drawpit & Cable Duct (TTA No. 04)	18	35d	0	24AUG06	13SEP06	04OCT06	25OCT06
03LUPK0600	Lighting Drawpit & Cable Duct (TTA No. 09)	6	19d	0	02NOV06	08NOV06	24NOV06	30NOV06
Roads and Paving								
03LURP0100	Trim Formation & Lay Subbase (TTA No. 09)	8	19d	0	11NOV06	20NOV06	04DEC06	12DEC06
03LURP0200	Road Pavement (TTA No. 09)	8	19d	0	21NOV06	29NOV06	13DEC06	21DEC06
03LURP0300	Construct Footpath (TTA No. 04)	24	35d	0	28SEP06	26OCT06	10NOV06	07DEC06
03LURP0400	Construct Footpath (TTA. No. 09)	6	19d	0	16NOV06	22NOV06	08DEC06	14DEC06
Road Marking , Traffic Sign and Fencing								
03LURM0100	Apply Road Marking	2	19d	0	30NOV06	01DEC06	22DEC06	23DEC06
03LURM0200	Erect Signage	6	19d	0	23NOV06	29NOV06	15DEC06	21DEC06
03LURM0300	Install Railing, Fencing & etc	6	19d	0	23NOV06	29NOV06	15DEC06	21DEC06



Start date 10JUN04
Finish date 20NOV07
Data date 28JAN05
Run date 28JAN05
Project name IP06
Page number 13A

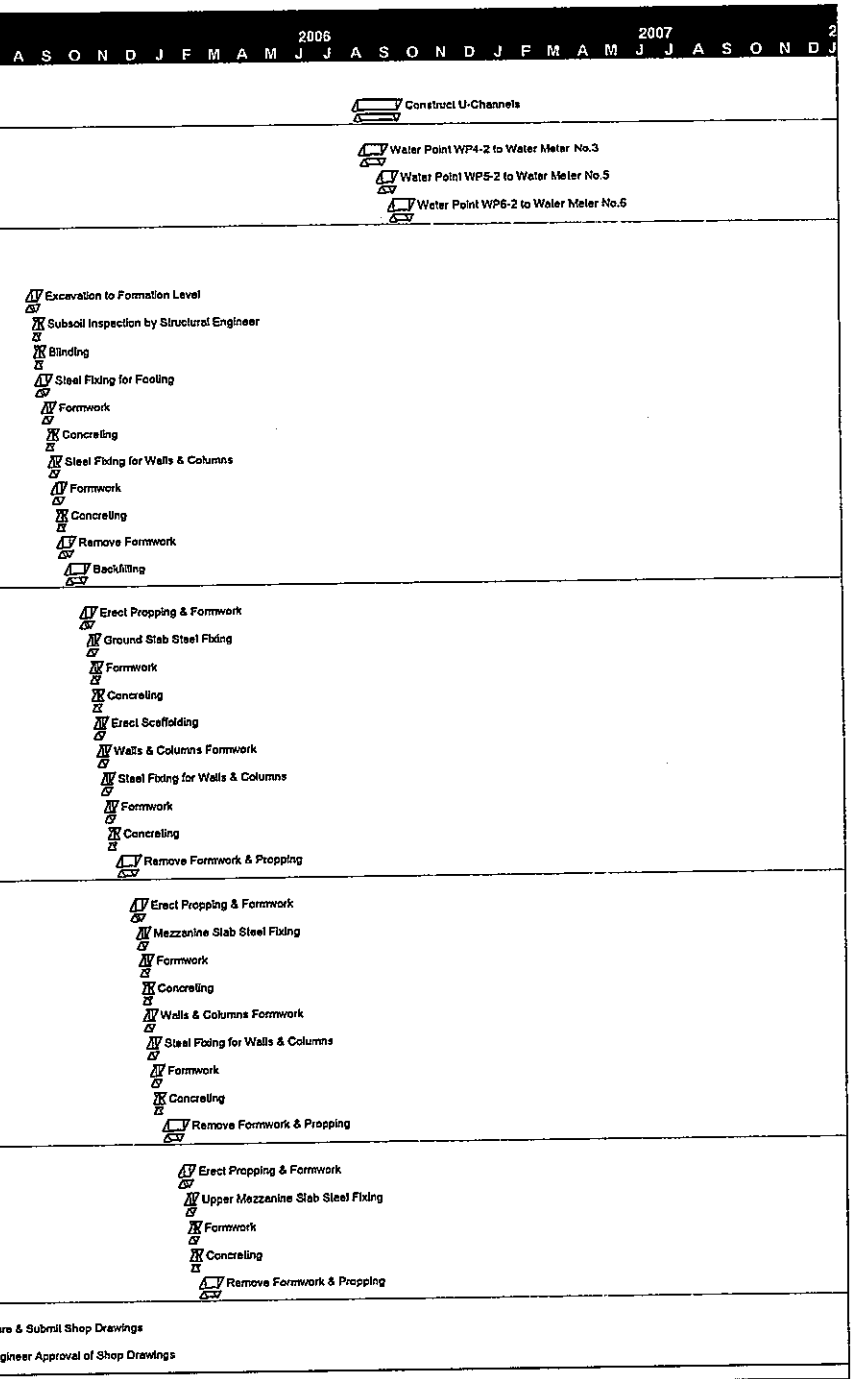
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
menity Area								
Drainage Works								
03AMDW0100	Construct U-Channels	36	73d	0	18AUG05	28SEP05	14NOV05	25DEC05
Utility Works								
03AMUT0100	Water Point WP4-2 to Water Meter No.3	16	63d	0	25AUG05	12SEP05	09NOV05	27NOV05
03AMUT0200	Water Point WP5-2 to Water Meter No.5	10	63d	0	13SEP05	23SEP05	28NOV05	08DEC05
03AMUT0300	Water Point WP6-2 to Water Meter No.6	14	63d	0	25SEP05	11OCT05	09DEC05	25DEC05
ction 4								
ublic Toilet No. 2								
Foundation Construction								
04PTFC0100	Excavation to Formation Level	6	15d	0	29AUG05	03SEP05	15SEP05	22SEP05
04PTFC0200	Subsoil Inspection by Structural Engineer	1	15d	0	05SEP05	05SEP05	23SEP05	23SEP05
04PTFC0300	Blinding	1	15d	0	06SEP05	06SEP05	24SEP05	24SEP05
04PTFC0400	Steel Fixing for Footing	6	15d	0	07SEP05	13SEP05	26SEP05	03OCT05
04PTFC0500	Formwork	4	15d	0	14SEP05	17SEP05	04OCT05	07OCT05
04PTFC0600	Concreting	1	15d	0	20SEP05	20SEP05	08OCT05	08OCT05
04PTFC0700	Steel Fixing for Walls & Columns	3	15d	0	21SEP05	23SEP05	10OCT05	13OCT05
04PTFC0800	Formwork	4	15d	0	24SEP05	28SEP05	14OCT05	18OCT05
04PTFC0900	Concreting	1	15d	0	29SEP05	29SEP05	19OCT05	19OCT05
04PTFC1000	Remove Formwork	6	15d	0	30SEP05	07OCT05	20OCT05	26OCT05
04PTFC1100	Backfilling	12	15d	0	08OCT05	22OCT05	27OCT05	09NOV05
Ground Floor Slab Construction								
04PTGF0100	Erect Propping & Formwork	6	15d	0	24OCT05	29OCT05	10NOV05	16NOV05
04PTGF0200	Ground Slab Steel Fixing	3	15d	0	31OCT05	02NOV05	17NOV05	19NOV05
04PTGF0300	Formwork	2	15d	0	03NOV05	04NOV05	21NOV05	22NOV05
04PTGF0400	Concreting	1	15d	0	05NOV05	05NOV05	23NOV05	23NOV05
04PTGF0500	Erect Scaffolding	3	15d	0	07NOV05	09NOV05	24NOV05	26NOV05
04PTGF0600	Walls & Columns Formwork	3	15d	0	10NOV05	12NOV05	29NOV05	30NOV05
04PTGF0700	Steel Fixing for Walls & Columns	3	15d	0	14NOV05	16NOV05	01DEC05	03DEC05
04PTGF0800	Formwork	3	15d	0	17NOV05	19NOV05	05DEC05	07DEC05
04PTGF0900	Concreting	1	15d	0	21NOV05	21NOV05	08DEC05	08DEC05
04PTGF1000	Remove Formwork & Propping	12	15d	0	30NOV05	13DEC05	17DEC05	30DEC05
Mezzanine Floor Slab Construction								
04PTMF0100	Erect Propping & Formwork	6	15d	0	14DEC05	20DEC05	31DEC05	05JAN06
04PTMF0200	Mezzanine Slab Steel Fixing	3	15d	0	21DEC05	23DEC05	07JAN06	10JAN06
04PTMF0300	Formwork	2	15d	0	24DEC05	26DEC05	11JAN06	12JAN06
04PTMF0400	Concreting	1	15d	0	27DEC05	27DEC05	13JAN06	13JAN06
04PTMF0500	Walls & Columns Formwork	3	15d	0	28DEC05	30DEC05	14JAN06	17JAN06
04PTMF0600	Steel Fixing for Walls & Columns	3	15d	0	31DEC05	03JAN06	18JAN06	20JAN06
04PTMF0700	Formwork	3	15d	0	04JAN06	06JAN06	21JAN06	24JAN06
04PTMF0800	Concreting	1	15d	0	07JAN06	07JAN06	25JAN06	25JAN06
04PTMF0900	Remove Formwork & Propping	12	15d	0	17JAN06	01FEB06	06FEB06	18FEB06
Upper Mezanine Floor Slab Construction								
04PTUF0100	Erect Propping & Formwork	6	15d	0	02FEB06	08FEB06	20FEB06	25FEB06
04PTUF0200	Upper Mezzanine Slab Steel Fixing	3	15d	0	09FEB06	11FEB06	27FEB06	01MAR06
04PTUF0300	Formwork	2	15d	0	13FEB06	14FEB06	02MAR06	03MAR06
04PTUF0400	Concreting	1	15d	0	15FEB06	15FEB06	04MAR06	04MAR06
04PTUF0500	Remove Formwork & Propping	12	15d	0	24FEB06	09MAR06	14MAR06	27MAR06
Structural Steelworks								
04PTSS0100	Prepare & Submit Shop Drawings	30	24d	0	02MAY05	04JUN05	30MAY05	05JUL05
04PTSS0200	Engineer Approval of Shop Drawings	12	24d	0	06JUN05	20JUN05	06JUL05	19JUL05



Start date 10JUN04
Finish date 20NOV07
Data date 28JAN05
Run date 28JAN05
Project name IP06
Page number 14A

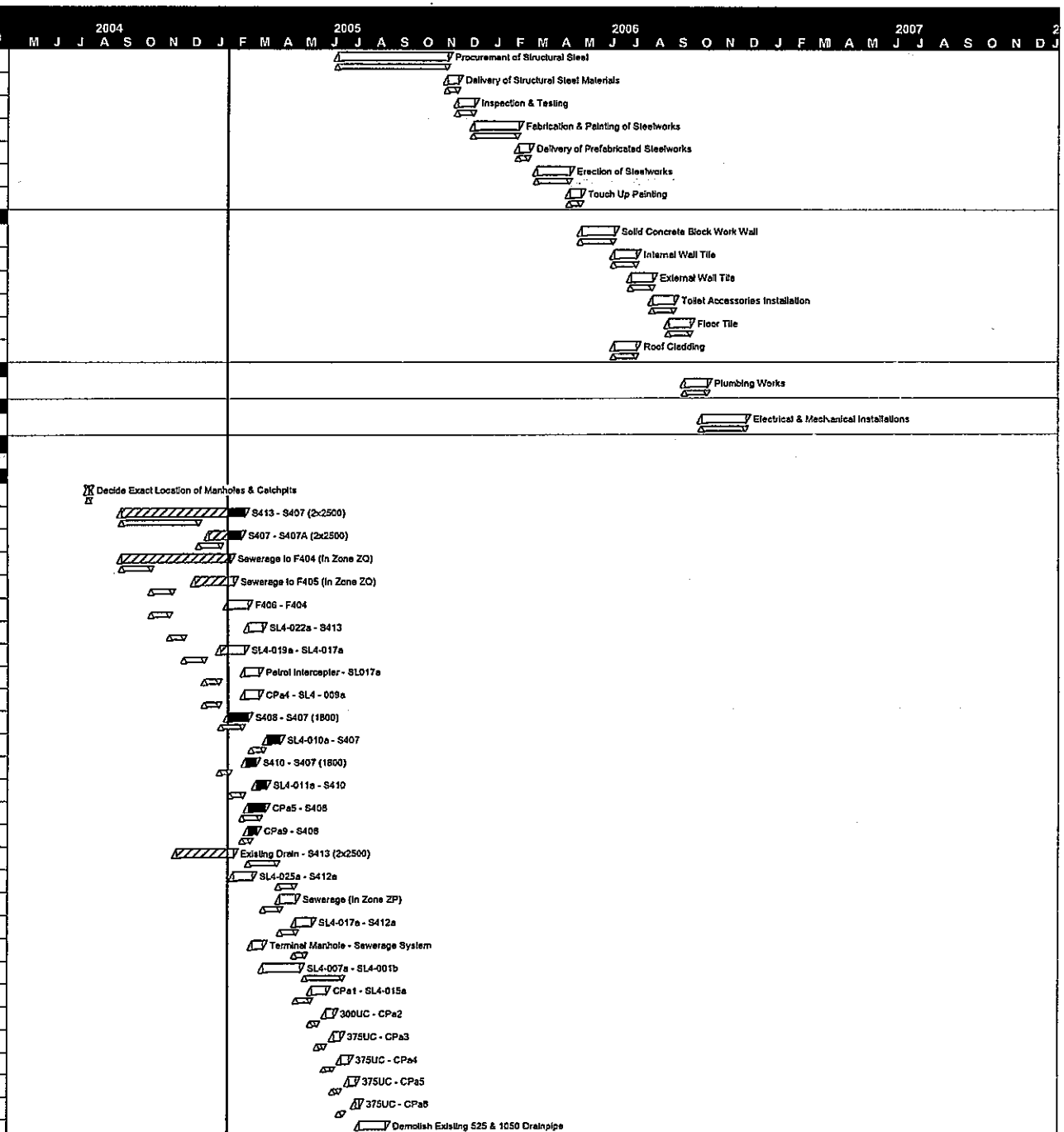
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
04PTSS0300	Procurement of Structural Steel	120	24d	0	21JUN05	11NOV05	20JUL05	09DEC05
04PTSS0400	Delivery of Structural Steel Materials	12	24d	0	12NOV05	25NOV05	10DEC05	23DEC05
04PTSS0500	Inspection & Testing	18	24d	0	26NOV05	16DEC05	24DEC05	13JAN06
04PTSS0600	Fabrication & Painting of Steelworks	48	24d	0	17DEC05	13FEB06	14JAN06	13MAR06
04PTSS0700	Delivery of Prefabricated Steelworks	12	24d	0	14FEB06	27FEB06	14MAR06	27MAR06
04PTSS0800	Erection of Steelworks	36	15d	0	10MAR06	21APR06	28MAR06	10MAY06
04PTSS0900	Touch Up Painting	12	15d	0	22APR06	06MAY06	11MAY06	24MAY06
Architectural Builder's Works and Finishes								
04PTAB0100	Solid Concrete Block Work Wall	36	15d	0	08MAY06	19JUN06	25MAY06	07JUL06
04PTAB0200	Internal Wall Tile	24	15d	0	20JUN06	18JUL06	08JUL06	04AUG06
04PTAB0300	External Wall Tile	24	15d	0	12JUL06	08AUG06	29JUL06	25AUG06
04PTAB0400	Toilet Accessories Installation	24	15d	0	09AUG06	05SEP06	26AUG06	22SEP06
04PTAB0500	Floor Tile	24	15d	0	30AUG06	26SEP06	16SEP06	14OCT06
04PTAB0600	Roof Cladding	24	15d	0	20JUN06	18JUL06	08JUL06	04AUG06
Plumbing Works								
04PTPL0100	Plumbing Works	24	15d	0	20SEP06	18OCT06	09OCT06	06NOV06
E & M Works								
04PTEM0100	Electrical & Mechanical Installations	48	15d	0	12OCT06	07DEC06	31OCT06	25DEC06
Section 5								
Road L4								
Drainage Works								
05RLDW0100	Decide Exact Location of Manholes & Catchpits	1		100	29JUL04 A	29JUL04 A	29JUL04 A	29JUL04 A
05RLDW0200	S413 - S407 (2x2500)	84	-21d	80	10SEP04 A	19FEB05	10SEP04 A	22JAN05
05RLDW0300	S407 - S407A (2x2500)	24	-16d	50	03JAN05 A	14FEB05	03JAN05 A	22JAN05
05RLDW0400	Sewerage to F404 (In Zone ZQ)	31	-21d	90	10SEP04 A	31JAN05	10SEP04 A	06JAN05
05RLDW0500	Sewerage to F405 (In Zone ZQ)	23	13d	70	16DEC04 A	04FEB05	16DEC04 A	23FEB05
05RLDW0600	F406 - F404	20	848d	0	26JAN05	23FEB05	14NOV07	06DEC07
05RLDW0700	SL4-022a - S413	16	848d	0	24FEB05	14MAR05	07DEC07	25DEC07
05RLDW0800	SL4-019a - SL4-017a	23	6d	30	18JAN05 A	16FEB05	18JAN05 A	25FEB05
05RLDW0900	Petrol Intercepter - SL017a	16	6d	0	19FEB05	09MAR05	26FEB05	16MAR05
05RLDW1000	CPa4 - SL4 - 009a	16	6d	0	19FEB05	09MAR05	26FEB05	16MAR05
05RLDW1100	S408 - S407 (1800)	21	-4d	5	26JAN05 A	23FEB05	26JAN05 A	18FEB05
05RLDW1200	SL4-010a - S407	14	-15d	0	21MAR05	06APR05	03MAR05	18MAR05
05RLDW1300	S410 - S407 (1800)	12	-21d	0	21FEB05	05MAR05	24JAN05	05FEB05
05RLDW1400	SL4-011a - S410	12	-21d	0	07MAR05	19MAR05	07FEB05	23FEB05
05RLDW1500	CPa5 - S408	20	-4d	0	24FEB05	18MAR05	19FEB05	14MAR05
05RLDW1600	CPa9 - S408	10	-4d	0	24FEB05	07MAR05	19FEB05	02MAR05
05RLDW1700	Existing Drain - S413 (2x2500)	33	100d	80	22NOV04 A	04FEB05	22NOV04 A	06JUN05
05RLDW1800	SL4-025a - S412a	18	100d	0	05FEB05	01MAR05	07JUN05	28JUN05
05RLDW1900	Sewerage (In Zone ZP)	18	47d	0	07APR05	27APR05	01JUN05	22JUN05
05RLDW2000	SL4-017a - S412a	18	47d	0	26APR05	18MAY05	23JUN05	14JUL05
05RLDW2100	Terminal Manhole - Sewerage System	12	100d	0	02MAR05	15MAR05	29JUN05	13JUL05
05RLDW2200	SL4-007a - SL4-001b	41	100d	0	16MAR05	03MAY05	14JUL05	30AUG05
05RLDW2300	CPa1 - SL4-015a	16	47d	0	19MAY05	05JUN05	15JUL05	02AUG05
05RLDW2400	300UC - CPa2	8	47d	0	07JUN05	16JUN05	03AUG05	11AUG05
05RLDW2500	375UC - CPa3	8	47d	0	17JUN05	25JUN05	12AUG05	20AUG05
05RLDW2600	375UC - CPa4	8	47d	0	27JUN05	06JUL05	22AUG05	30AUG05
05RLDW2700	375UC - CPa5	8	47d	0	07JUL05	15JUL05	31AUG05	08SEP05
05RLDW2800	375UC - CPa8	4	47d	0	16JUL05	20JUL05	09SEP05	13SEP05
05RLDW2900	Demolish Existing 525 & 1050 Drainpipe	30	47d	0	21JUL05	24AUG05	14SEP05	21OCT05



Data date 10JUN04
Finish date 20NOV07
Data date 25JAN05
Run date 25JAN05
Project name IP06
Page number 15A

© Primavera Systems, Inc.

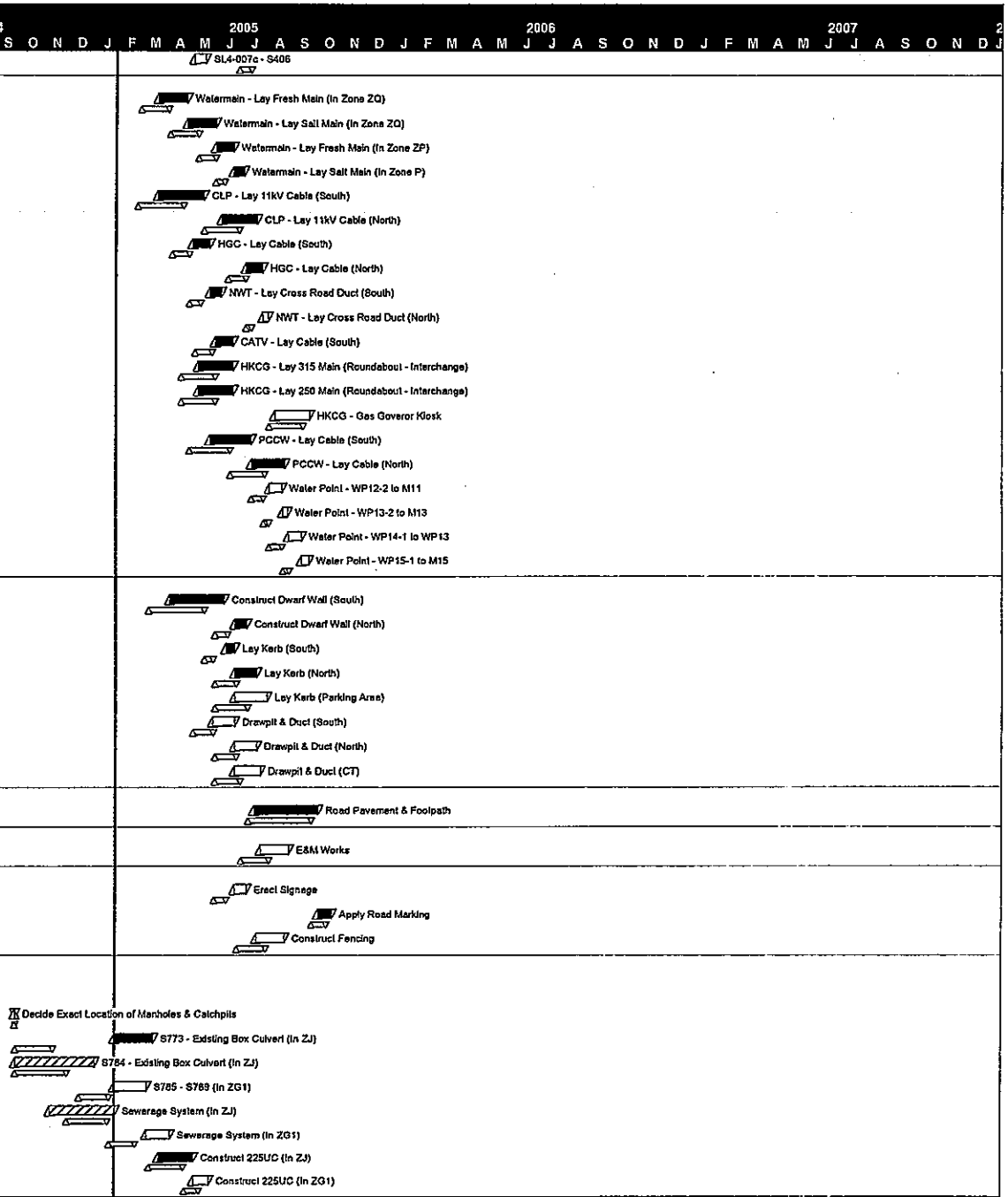
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
5RLDW3000	SL4-007c - S406	12	100d	0	04MAY05	17MAY05	31AUG05	13SEP05
ility Works								
5RLUT0100	Watermain - Lay Fresh Main (In Zone ZQ)	30	-15d	0	21MAR05	25APR05	03MAR05	07APR05
5RLUT0200	Watermain - Lay Salt Main (In Zone ZQ)	30	-15d	0	26APR05	30MAY05	08APR05	12MAY05
5RLUT0300	Watermain - Lay Fresh Main (In Zone ZP)	18	-13d	0	31MAY05	21JUN05	16MAY05	04JUN05
5RLUT0400	Watermain - Lay Salt Main (In Zone P)	10	-13d	0	22JUN05	04JUL05	06JUN05	17JUN05
5RLUT0500	CLP - Lay 11kV Cable (South)	48	-21d	0	21MAR05	16MAY05	24FEB05	21APR05
5RLUT0600	CLP - Lay 11kV Cable (North)	36	-15d	0	07JUN05	20JUL05	20MAY05	02JUL05
5RLUT0700	HGC - Lay Cable (South)	18	-21d	0	03MAY05	23MAY05	08APR05	28APR05
5RLUT0800	HGC - Lay Cable (North)	18	-15d	0	07JUL05	27JUL05	18JUN05	09JUL05
5RLUT0810	NWT - Lay Cross Road Duct (South)	12	-21d	0	24MAY05	06JUN05	29APR05	12MAY05
5RLUT0820	NWT - Lay Cross Road Duct (North)	6	5d	0	28JUL05	03AUG05	03AUG05	09AUG05
5RLUT0900	CATV - Lay Cable (South)	18	-21d	0	31MAY05	21JUN05	06MAY05	26MAY05
5RLUT1100	HKCG - Lay 315 Main (Roundabout - Interchange)	36	-15d	0	10MAY05	21JUN05	22APR05	02JUN05
5RLUT1200	HKCG - Lay 250 Main (Roundabout - Interchange)	36	-15d	0	10MAY05	21JUN05	22APR05	02JUN05
5RLUT1210	HKCG - Gas Goveror Kiosk	36	8d	0	12AUG05	23SEP05	22AUG05	04OCT05
5RLUT1400	PCCW - Lay Cable (South)	42	-21d	0	24MAY05	13JUL05	29APR05	17JUN05
5RLUT1500	PCCW - Lay Cable (North)	36	-21d	0	14JUL05	24AUG05	18JUN05	30JUL05
5RLUT1600	Water Point - WP12-2 to M11	13	23d	0	06AUG05	20AUG05	02SEP05	16SEP05
5RLUT1700	Water Point - WP13-2 to M13	6	23d	0	22AUG05	27AUG05	17SEP05	24SEP05
5RLUT1800	Water Point - WP14-1 to WP13	14	23d	0	29AUG05	13SEP05	28SEP05	13OCT05
5RLUT1900	Water Point - WP15-1 to M15	7	23d	0	14SEP05	22SEP05	14OCT05	21OCT05
ublic Lighting, Duct and Kerb								
5RLPK0100	Construct Dwarf Wall (South)	58	0	0	05APR05	10JUN05	05APR05	10JUN05
5RLPK0200	Construct Dwarf Wall (North)	12	0	0	24JUN05	08JUL05	24JUN05	08JUL05
5RLPK0300	Lay Kerb (South)	10	0	0	13JUN05	23JUN05	13JUN05	23JUN05
5RLPK0400	Lay Kerb (North)	22	0	0	24JUN05	20JUL05	24JUN05	20JUL05
5RLPK0500	Lay Kerb (Parking Area)	33	19d	0	24JUN05	02AUG05	18JUL05	24AUG05
5RLPK0600	Drawpit & Duct (South)	22	5d	0	28MAY05	23JUN05	03JUN05	29JUN05
5RLPK0700	Drawpit & Duct (North)	22	5d	0	24JUN05	20JUL05	30JUN05	26JUL05
5RLPK0800	Drawpit & Duct (CT)	26	5d	0	24JUN05	25JUL05	30JUN05	30JUL05
oads and Paving								
5RLRP0100	Road Pavement & Footpath	65	0	0	18JUL05	04OCT05	18JUL05	04OCT05
& M Works								
5RLEM0500	E&M Works	30	43d	0	26JUL05	29AUG05	14SEP05	21OCT05
oad Marking , Traffic Sign and Fencing								
5RLRM0100	Erect Signage	12	87d	0	24JUN05	08JUL05	07OCT05	21OCT05
5RLRM0200	Apply Road Marking	14	0	0	05OCT05	21OCT05	05OCT05	21OCT05
5RLRM0300	Construct Fencing	30	47d	0	21JUL05	24AUG05	14SEP05	21OCT05
ion 6								
cle Track								
rainage Works								
6CTDW0100	Decide Exact Location of Manholes & Catchpits	1		100	27SEP04 A	27SEP04 A	27SEP04 A	27SEP04 A
6CTDW0200	S773 - Existing Box Culvert (In ZJ)	38	-5d	0	28JAN05	16MAR05	22JAN05	10MAR05
6CTDW0300	S784 - Existing Box Culvert (In ZJ)	52		100	28SEP04 A	03JAN05 A	28SEP04 A	03JAN05 A
6CTDW0400	S785 - S789 (In ZG1)	31	24d	0	28JAN05	08MAR05	01MAR05	06APR05
6CTDW0500	Sewerage System (In ZJ)	42		100	10NOV04 A	28JAN05	10NOV04 A	28JAN05
6CTDW0600	Sewerage System (In ZG1)	24	24d	0	09MAR05	06APR05	07APR05	04MAY05
6CTDW0700	Construct 225UC (In ZJ)	38	-5d	0	24MAR05	05MAY05	18MAR05	29APR05
6CTDW0800	Construct 225UC (In ZG1)	16	17d	0	06MAY05	24MAY05	26MAY05	14JUN05
ility Works								



date	10JUN04
date	20NOV07
date	28JAN05
ate	28JAN05
t name	1P05
number	16A
rimavera Systems, Inc.	

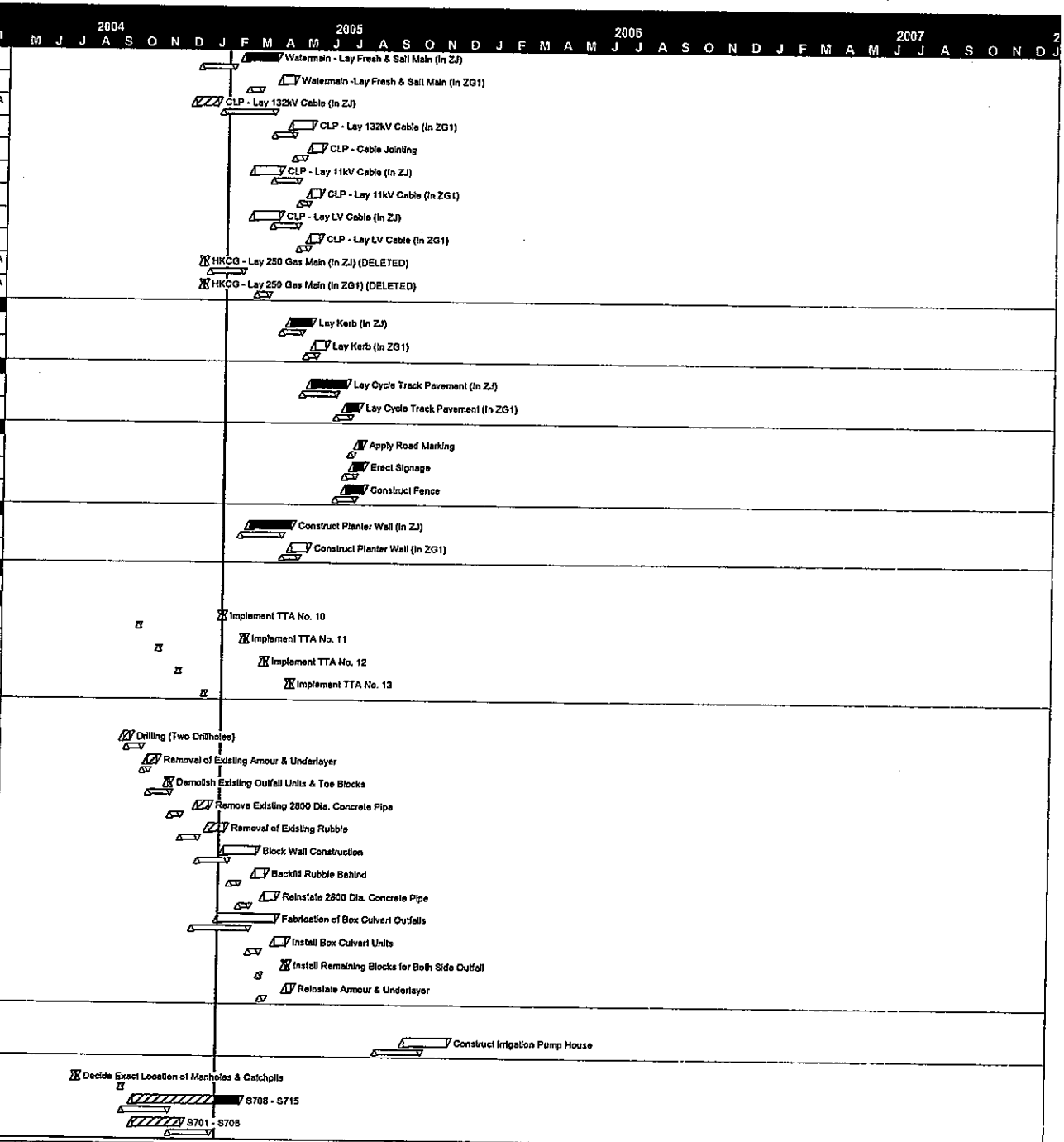
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
05CTUT0100	Watermain - Lay Fresh & Salt Main (In ZJ)	36	-5d	0	17FEB05	30MAR05	08FEB05	24MAR05
05CTUT0200	Watermain -Lay Fresh & Salt Main (In ZG1)	14	24d	0	07APR05	22APR05	05MAY05	20MAY05
05CTUT0300	CLP - Lay 132kV Cable (In ZJ)	55		100	15DEC04 A	12JAN05 A	15DEC04 A	12JAN05 A
05CTUT0400	CLP - Lay 132kV Cable (In ZG1)	22	24d	0	21APR05	16MAY05	19MAY05	14JUN05
05CTUT0500	CLP - Cable Jointing	12	24d	0	17MAY05	30MAY05	15JUN05	28JUN05
05CTUT0600	CLP - Lay 11kV Cable (In ZJ)	28	50d	0	03MAR05	05APR05	13MAY05	15JUN05
05CTUT0700	CLP - Lay 11kV Cable (In ZG1)	11	25d	0	17MAY05	28MAY05	16JUN05	28JUN05
05CTUT0800	CLP - Lay LV Cable (In ZJ)	28	50d	0	03MAR05	05APR05	13MAY05	15JUN05
05CTUT1000	CLP - Lay LV Cable (In ZG1)	11	25d	0	17MAY05	28MAY05	16JUN05	28JUN05
05CTUT1400	HKCG - Lay 250 Gas Main (In ZJ) (DELETED)	35		100	29DEC04 A	29DEC04 A	29DEC04 A	29DEC04 A
05CTUT1500	HKCG - Lay 250 Gas Main (In ZG1) (DELETED)	14		100	29DEC04 A	29DEC04 A	29DEC04 A	29DEC04 A
Public Lighting, Duct and Kerb								
05CTPK0100	Lay Kerb (In ZJ)	24	-5d	0	22APR05	19MAY05	16APR05	13MAY05
05CTPK0200	Lay Kerb (In ZG1)	12	17d	0	25MAY05	07JUN05	15JUN05	28JUN05
Roads and Paving								
05CTRP0100	Lay Cycle Track Pavement (In ZJ)	38	-5d	0	20MAY05	05JUL05	14MAY05	28JUN05
05CTRP0200	Lay Cycle Track Pavement (In ZG1)	15	-5d	0	06JUL05	22JUL05	29JUN05	16JUL05
Road Marking , Traffic Sign and Fencing								
05CTRM0100	Apply Road Marking	4	-3d	0	23JUL05	27JUL05	20JUL05	23JUL05
05CTRM0200	Erect Signage	12	-5d	0	18JUL05	29JUL05	11JUL05	23JUL05
05CTRM0300	Construct Fence	21	-5d	0	06JUL05	29JUL05	29JUN05	23JUL05
Landscape Hardworks								
05CTHL0100	Construct Planter Wall (In ZJ)	46	-5d	0	03MAR05	26APR05	25FEB05	20APR05
05CTHL0200	Construct Planter Wall (In ZG1)	18	19d	0	27APR05	17MAY05	19MAY05	08JUN05
ction 7								
emporary Traffic Management Scheme								
TTA Implementation								
07TTMS0100	Implement TTA No. 10	1	-15d	0	28JAN05	28JAN05	11JAN05	11JAN05
07TTMS0200	Implement TTA No. 11	1	-15d	0	26FEB05	26FEB05	05FEB05	05FEB05
07TTMS0300	Implement TTA No. 12	1	-15d	0	24MAR05	24MAR05	07MAR05	07MAR05
07TTMS0400	Implement TTA No. 13	1	-15d	0	27APR05	27APR05	09APR05	09APR05
andscape Node No. 3								
Landscape Node Structure								
07LCNS0100	Drilling (Two Drillholes)	15		100	23SEP04 A	30SEP04 A	23SEP04 A	30SEP04 A
07LCNS0200	Removal of Existing Armour & Underlayer	6		100	25OCT04 A	05NOV04 A	25OCT04 A	05NOV04 A
07LCNS0300	Demolish Existing Outfall Units & Toe Blocks	25		100	21NOV04 A	22NOV04 A	21NOV04 A	22NOV04 A
07LCNS0400	Remove Existing 2800 Dia. Concrete Pipe	12		100	30DEC04 A	13JAN05 A	30DEC04 A	13JAN05 A
07LCNS0500	Removal of Existing Rubble	20	160d	70	14JAN05 A	03FEB05	14JAN05 A	16AUG05
07LCNS0600	Block Wall Construction	33	160d	0	04FEB05	17MAR05	17AUG05	24SEP05
07LCNS0700	Backfill Rubble Behind	10	160d	0	18MAR05	29MAR05	25SEP05	07OCT05
07LCNS0800	Reinstate 2800 Dia. Concrete Pipe	12	160d	0	30MAR05	13APR05	08OCT05	22OCT05
07LCNS0900	Fabrication of Box Culvert Outfalls	60	160d	0	29JAN05	13APR05	11AUG05	22OCT05
07LCNS1000	Install Box Culvert Units	12	160d	0	14APR05	27APR05	24OCT05	05NOV05
07LCNS1100	Install Remaining Blocks for Both Side Outfall	2	160d	0	28APR05	29APR05	07NOV05	08NOV05
07LCNS1200	Reinstate Armour & Underlayer	5	160d	0	30APR05	05MAY05	09NOV05	14NOV05
aterfront Promenade								
Pump House Construction								
07WPPH0100	Construct Irrigation Pump House	48	9d	0	03OCT05	28NOV05	14OCT05	08DEC05
Drainage Works								
07WPDW0100	Decide Exact Location of Manholes & Catchpits	1		100	29JUL04 A	29JUL04 A	29JUL04 A	29JUL04 A
07WPDW0200	S708 - S715	50	-11d	50	13OCT04 A	01MAR05	13OCT04 A	16FEB05
07WPDW0300	S701 - S708	46		100	13OCT04 A	14DEC04 A	13OCT04 A	14DEC04 A



date 10JUN04
h date 20NOV07
date 26JAN05
date 28JAN05
ct name IP06
number 17A

Primavera Systems, Inc.

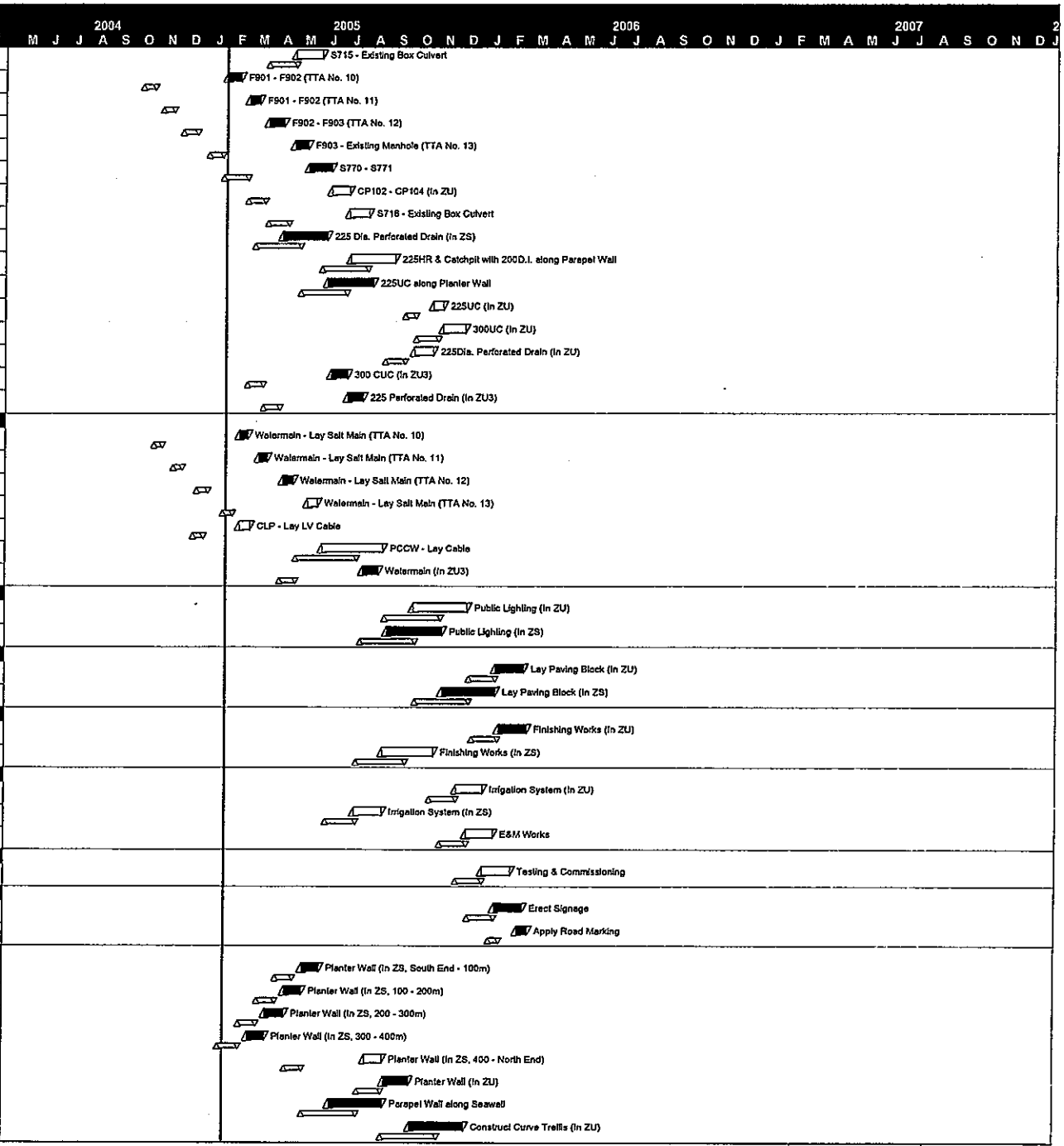
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
7WPDW0400	S715 - Existing Box Culvert	30	160d	0	26APR05	01JUN05	07NOV05	10DEC05
7WPDW0500	F901 - F902 (TTA No. 10)	12	-15d	0	28JAN05	14FEB05	11JAN05	24JAN05
7WPDW0600	F901 - F902 (TTA No. 11)	12	-15d	0	26FEB05	11MAR05	05FEB05	22FEB05
7WPDW0700	F902 - F903 (TTA No. 12)	16	-15d	0	24MAR05	12APR05	07MAR05	24MAR05
7WPDW0800	F903 - Existing Manhole (TTA No. 13)	16	-15d	0	27APR05	14MAY05	09APR05	27APR05
7WPDW0900	S770 - S771	25	-15d	0	15MAY05	14JUN05	28APR05	26MAY05
7WPDW1000	CP102 - CP104 (In ZU)	20	100d	0	15JUN05	08JUL05	14OCT05	05NOV05
7WPDW1100	S716 - Existing Box Culvert	22	100d	0	09JUL05	03AUG05	07NOV05	01DEC05
7WPDW1200	225 Dia. Perforated Drain (In ZS)	51	-4d	0	12APR05	09JUN05	07APR05	04JUN05
7WPDW1300	225HR & Catchpit with 200D.I. along Parapet Wall	50	41d	0	11JUL05	06SEP05	27AUG05	27OCT05
7WPDW1400	225UC along Planter Wall	50	-4d	0	10JUN05	09AUG05	06JUN05	04AUG05
7WPDW1500	225UC (In ZU)	11	24d	0	28OCT05	09NOV05	25NOV05	07DEC05
7WPDW1600	300UC (In ZU)	25	24d	0	10NOV05	08DEC05	08DEC05	05JAN06
7WPDW1700	225Dia. Perforated Drain (In ZU)	21	24d	0	03OCT05	27OCT05	01NOV05	24NOV05
7WPDW1800	300 CUC (In ZU3)	18	-15d	0	15JUN05	06JUL05	27MAY05	17JUN05
7WPDW1900	225 Perforated Drain (In ZU3)	16	-15d	0	07JUL05	27JUL05	18JUN05	09JUL05
ility Works								
7WPUT0100	Watermain - Lay Salt Main (TTA No. 10)	10	-15d	0	15FEB05	25FEB05	25JAN05	04FEB05
7WPUT0200	Watermain - Lay Salt Main (TTA No. 11)	10	-15d	0	12MAR05	23MAR05	23FEB05	05MAR05
7WPUT0300	Watermain - Lay Salt Main (TTA No. 12)	12	-15d	0	13APR05	26APR05	25MAR05	08APR05
7WPUT0400	Watermain - Lay Salt Main (TTA No. 13)	12	34d	0	16MAY05	28MAY05	25JUN05	09JUL05
7WPUT0500	CLP - Lay LV Cable	12	29d	0	15FEB05	28FEB05	21MAR05	02APR05
7WPUT0600	PCCW - Lay Cable	67	29d	0	04JUN05	23AUG05	11JUL05	27SEP05
7WPUT0700	Watermain (In ZU3)	18	-15d	0	28JUL05	17AUG05	11JUL05	30JUL05
ublic Lighting, Duct and Kerb								
7WPPK0100	Public Lighting (In ZU)	60	21d	0	03OCT05	12DEC05	28OCT05	05JAN06
7WPPK0200	Public Lighting (In ZS)	60	-11d	0	29AUG05	09NOV05	16AUG05	27OCT05
oads and Paving								
7WPRP0100	Lay Paving Block (In ZU)	30	-11d	0	19JAN06	24FEB06	06JAN06	11FEB06
7WPRP0200	Lay Paving Block (In ZS)	60	-11d	0	10NOV05	18JAN06	28OCT05	05JAN06
nishing Works								
7WPFW0100	Finishing Works (In ZU)	30	-8d	0	23JAN06	28FEB06	13JAN06	18FEB06
7WPFW0200	Finishing Works (In ZS)	55	64d	0	24AUG05	29OCT05	10NOV05	12JAN06
& M Works								
7WPEM0500	Irrigation System (In ZU)	30	9d	0	29NOV05	02JAN06	09DEC05	12JAN06
7WPEM0600	Irrigation System (In ZS)	32	59d	0	18JUL05	23AUG05	26SEP05	03NOV05
7WPEM0700	E&M Works	30	27d	0	13DEC05	15JAN06	13JAN06	18FEB06
esting and Commissioning								
7WPTC0100	Testing & Commissioning	30	9d	0	03JAN06	08FEB06	13JAN06	18FEB06
oad Marking , Traffic Sign and Fencing								
7WPRM0300	Erect Signage	30	-5d	0	19JAN06	24FEB06	13JAN06	18FEB06
7WPRM0400	Apply Road Marking	12	-11d	0	16FEB06	03MAR06	06FEB06	16FEB06
ndscape Hardworks								
7WPHL0100	Planter Wall (In ZS, South End - 100m)	20	-11d	0	12MAY05	03JUN05	29APR05	21MAY05
7WPHL0200	Planter Wall (In ZS, 100 - 200m)	20	-11d	0	19APR05	11MAY05	06APR05	28APR05
7WPHL0300	Planter Wall (In ZS, 200 - 300m)	20	-11d	0	25MAR05	18APR05	12MAR05	05APR05
7WPHL0400	Planter Wall (In ZS, 300 - 400m)	20	-11d	0	02MAR05	24MAR05	17FEB05	11MAR05
7WPHL0500	Planter Wall (In ZS, 400 - North End)	20	100d	0	04AUG05	28AUG05	02DEC05	24DEC05
7WPHL0600	Planter Wall (In ZU)	28	-8d	0	29AUG05	30SEP05	19AUG05	21SEP05
7WPHL0700	Parapet Wall along Seawall	60	-11d	0	16JUN05	27AUG05	04JUN05	15AUG05
7WPHL0800	Construct Curve Trellis (In ZU)	60	-8d	0	03OCT05	12DEC05	22SEP05	02DEC05



date 10JUN04
date 20NOV07
date 28JAN05
ate 28JAN05
Lname IP06
umber 18A
innavera Systems, Inc.

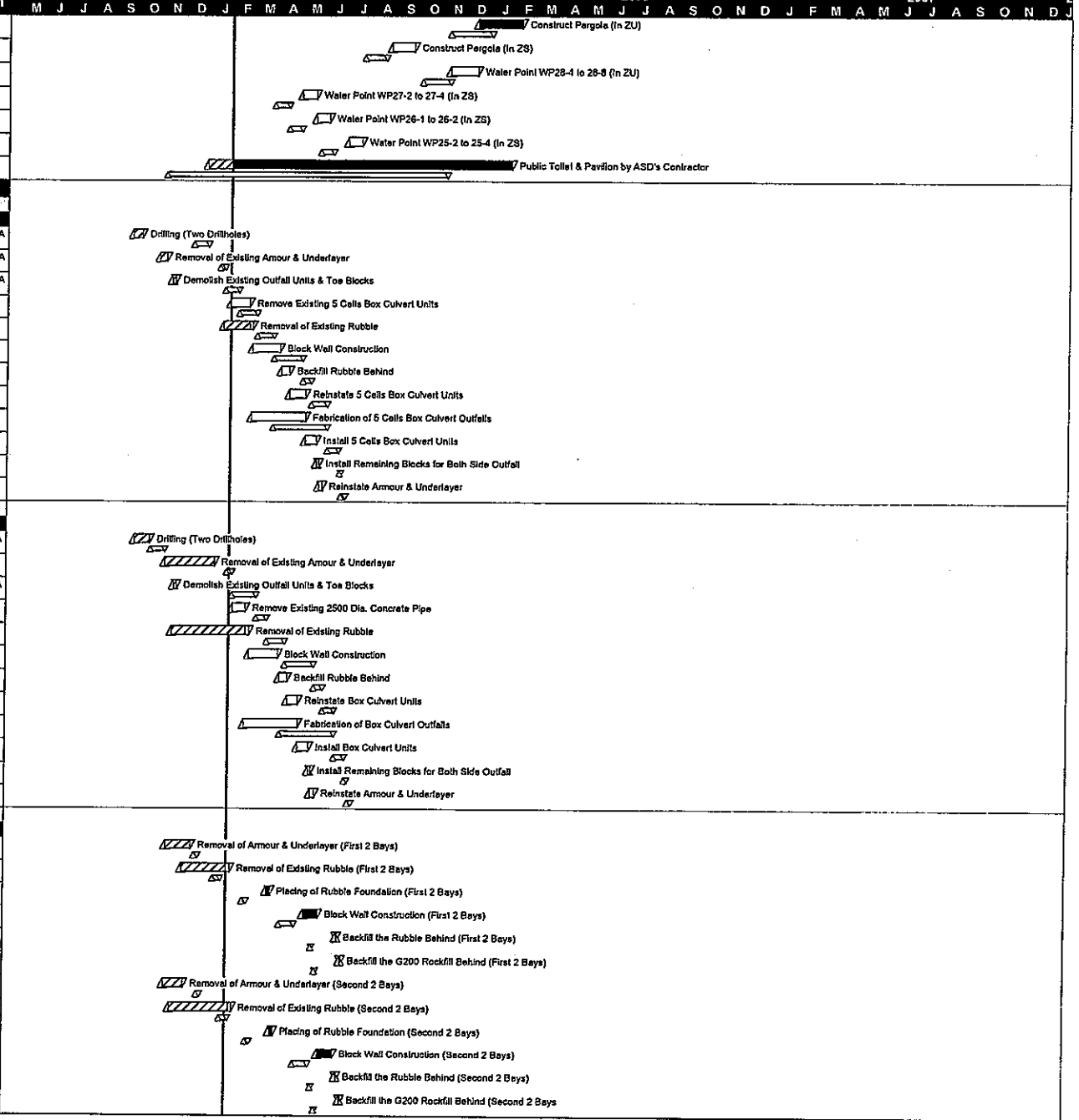
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
)7WPHL0900	Construct Pergola (In ZU)	47	-8d	0	13DEC05	07FEB06	03DEC05	26JAN06
)7WPHL1000	Construct Pergola (In ZS)	24	29d	0	24AUG05	21SEP05	28SEP05	27OCT05
)7WPHL1100	Water Point WP28-4 to 28-8 (In ZU)	30	27d	0	08NOV05	12DEC05	09DEC05	12JAN06
)7WPHL1200	Water Point WP27-2 to 27-4 (In ZS)	15	79d	0	30APR05	17MAY05	03AUG05	19AUG05
)7WPHL1300	Water Point WP26-1 to 26-2 (In ZS)	15	79d	0	18MAY05	03JUN05	20AUG05	06SEP05
)7WPHL1400	Water Point WP25-2 to 25-4 (In ZS)	15	59d	0	29JUN05	16JUL05	07SEP05	24SEP05
)7WPHL1600	Public Toilet & Pavilion by ASD's Contractor	303	-70d	0	28DEC04 A	28JAN06	28DEC04 A	05NOV05
tion 8								
ndscape Node No. 1								
ndscape Node Structure								
8LANS0100	Drilling (Two Drillholes)	16		100	23SEP04 A	04OCT04 A	23SEP04 A	04OCT04 A
8LANS0200	Removal of Existing Armour & Underlayer	6		100	28OCT04 A	05NOV04 A	28OCT04 A	05NOV04 A
8LANS0300	Demolish Existing Outfall Units & Toe Blocks	15		100	13NOV04 A	16NOV04 A	13NOV04 A	16NOV04 A
8LANS0400	Remove Existing 5 Cells Box Culvert Units	18	90d	0	28JAN05	21FEB05	18MAY05	07JUN05
8LANS0500	Removal of Existing Rubble	19	90d	60	19JAN05 A	25FEB05	19JAN05 A	13JUN05
8LANS0600	Block Wall Construction	31	90d	0	26FEB05	02APR05	14JUN05	20JUL05
8LANS0700	Backfill Rubble Behind	10	90d	0	05APR05	15APR05	21JUL05	01AUG05
8LANS0800	Reinstate 5 Cells Box Culvert Units	18	90d	0	16APR05	06MAY05	02AUG05	22AUG05
8LANS0900	Fabrication of 5 Cells Box Culvert Outfalls	60	90d	0	25FEB05	06MAY05	13JUN05	22AUG05
8LANS1000	Install 5 Cells Box Culvert Units	12	90d	0	07MAY05	20MAY05	23AUG05	05SEP05
8LANS1100	Install Remaining Blocks for Both Side Outfall	2	181d	0	21MAY05	23MAY05	24DEC05	26DEC05
8LANS1200	Reinstate Armour & Underlayer	5	181d	0	24MAY05	28MAY05	27DEC05	31DEC05
ıdscape Node No. 2								
ndscape Node Structure								
8LBNS0100	Drilling (Two Drillholes)	16		100	27SEP04 A	16OCT04 A	27SEP04 A	16OCT04 A
8LBNS0200	Removal of Existing Armour & Underlayer	6		100	06NOV04 A	08JAN05 A	06NOV04 A	08JAN05 A
8LBNS0300	Demolish Existing Outfall Units & Toe Blocks	25		100	17NOV04 A	20NOV04 A	17NOV04 A	20NOV04 A
8LBNS0400	Remove Existing 2500 Dia. Concrete Pipe	12	49d	0	02FEB05	18FEB05	05APR05	18APR05
8LBNS0500	Removal of Existing Rubble	19	49d	60	15NOV04 A	23FEB05	15NOV04 A	22APR05
8LBNS0600	Block Wall Construction	33	49d	0	24FEB05	02APR05	23APR05	31MAY05
8LBNS0700	Backfill Rubble Behind	10	49d	0	05APR05	15APR05	01JUN05	13JUN05
8LBNS0800	Reinstate Box Culvert Units	12	49d	0	16APR05	29APR05	14JUN05	27JUN05
8LBNS0900	Fabrication of Box Culvert Outfalls	60	49d	0	18FEB05	29APR05	18APR05	27JUN05
8LBNS1000	Install Box Culvert Units	12	49d	0	30APR05	13MAY05	28JUN05	12JUL05
8LBNS1100	Install Remaining Blocks for Both Side Outfall	2	92d	0	14MAY05	16MAY05	01SEP05	02SEP05
8LBNS1200	Reinstate Armour & Underlayer	5	92d	0	17MAY05	21MAY05	03SEP05	08SEP05
nwall Adjacent to Landing Step								
ine Works								
8ALMA0100	Removal of Armour & Underlayer (First 2 Bays)	4		100	10NOV04 A	12DEC04 A	10NOV04 A	12DEC04 A
8ALMA0200	Removal of Existing Rubble (First 2 Bays)	9	9d	60	01DEC04 A	01FEB05	01DEC04 A	15FEB05
8ALMA0300	Placing of Rubble Foundation (First 2 Bays)	5	-13d	0	22MAR05	28MAR05	07MAR05	11MAR05
8ALMA0400	Block Wall Construction (First 2 Bays)	17	-13d	0	10MAY05	28MAY05	25APR05	13MAY05
8ALMA0500	Backfill the Rubble Behind (First 2 Bays)	1	-13d	0	22JUN05	22JUN05	06JUN05	06JUN05
8ALMA0600	Backfill the G200 Rockfill Behind (First 2 Bays)	1	-13d	0	27JUN05	27JUN05	10JUN05	10JUN05
8ALMA0700	Removal of Armour & Underlayer (Second 2 Bays)	4		100	09NOV04 A	04DEC04 A	09NOV04 A	04DEC04 A
8ALMA0800	Removal of Existing Rubble (Second 2 Bays)	9	9d	60	17NOV04 A	05FEB05	17NOV04 A	15FEB05
8ALMA0900	Placing of Rubble Foundation (Second 2 Bays)	5	-13d	0	28MAR05	01APR05	12MAR05	17MAR05
8ALMA1000	Block Wall Construction (Second 2 Bays)	17	-13d	0	30MAY05	18JUN05	14MAY05	02JUN05
8ALMA1100	Backfill the Rubble Behind (Second 2 Bays)	1	-13d	0	23JUN05	23JUN05	07JUN05	07JUN05
8ALMA1200	Backfill the G200 Rockfill Behind (Second 2 Bays	1	-13d	0	28JUN05	28JUN05	13JUN05	13JUN05



ate	10JUN04
date	20NOV07
ate	28JAN05
te	28JAN05
name	IP06
umber	19A
mavera Systems, Inc.	

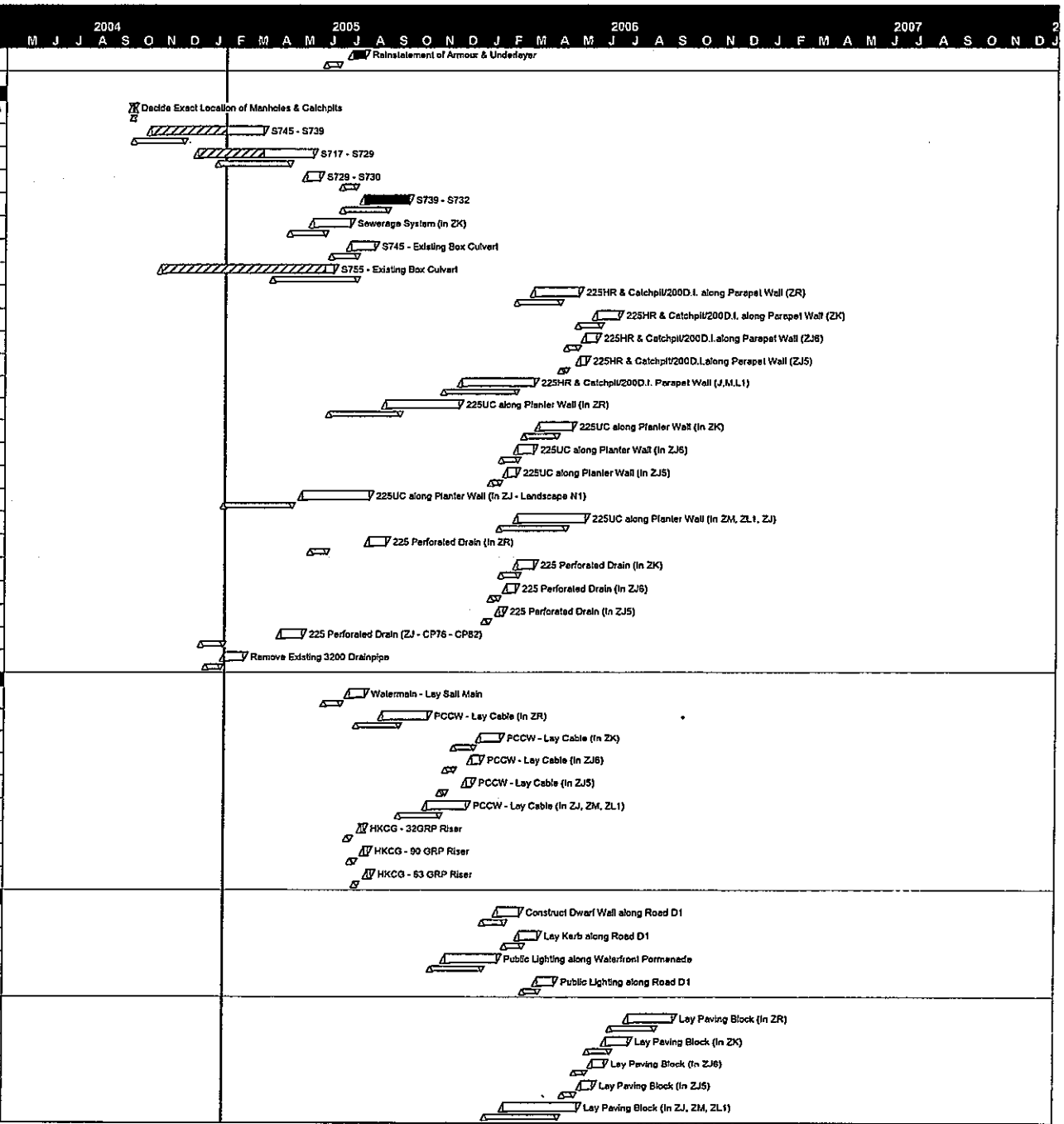
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
08ALMA1300	Reinstatement of Armour & Underlayer	14	-13d	0	12JUL05	27JUL05	25JUN05	12JUL05
Waterfront Promenade								
Drainage Works								
08WPDW0100	Decide Exact Location of Manholes & Catchpits	1		100	27SEP04 A	27SEP04 A	27SEP04 A	27SEP04 A
08WPDW0200	S745 - S739	55	46d	30	21OCT04 A	17MAR05	21OCT04 A	11MAY05
08WPDW0300	S717 - S729	76	46d	30	22DEC04 A	21MAY05	22DEC04 A	16JUL05
08WPDW0400	S729 - S730	14	180d	0	14MAY05	30MAY05	16DEC05	31DEC05
08WPDW0500	S739 - S732	50	-13d	0	28JUL05	24SEP05	13JUL05	08SEP05
08WPDW0550	Sewerage System (in ZK)	40	46d	0	23MAY05	09JUL05	16JUL05	01SEP05
08WPDW0600	S745 - Existing Box Culvert	27	46d	0	11JUL05	10AUG05	02SEP05	05OCT05
08WPDW0700	S755 - Existing Box Culvert	91	90d	90	05NOV04 A	16JUN05	05NOV04 A	05OCT05
08WPDW0800	225HR & Catchpit/200D.I. along Parapet Wall (ZR)	48	47d	0	10MAR06	06MAY06	06MAY06	03JUL06
08WPDW0900	225HR & Catchpit/200D.I. along Parapet Wall (ZK)	24	46d	0	30MAY06	27JUN06	25JUL06	21AUG06
08WPDW1000	225HR & Catchpit/200D.I.along Parapet Wall (ZJ6)	12	46d	0	16MAY06	29MAY06	11JUL06	24JUL06
08WPDW1100	225HR & Catchpit/200D.I.along Parapet Wall (ZJ5)	6	46d	0	09MAY06	15MAY06	04JUL06	10JUL06
08WPDW1200	225HR & Catchpit/200D.I. Parapet Wall (J,M,L1)	80	47d	0	05DEC05	09MAR06	28JAN06	05MAY06
08WPDW1300	225UC along Planter Wall (in ZR)	79	50d	0	27AUG05	30NOV05	26OCT05	27JAN06
08WPDW1400	225UC along Planter Wall (in ZK)	36	45d	0	17MAR06	28APR06	11MAY06	22JUN06
08WPDW1500	225UC along Planter Wall (in ZJ6)	17	52d	0	17FEB06	08MAR06	20APR06	10MAY06
08WPDW1600	225UC along Planter Wall (in ZJ5)	10	54d	0	03FEB06	14FEB06	06APR06	19APR06
08WPDW1700	225UC along Planter Wall (in ZJ - Landscape N1)	73	50d	0	10MAY05	04AUG05	09JUL05	04OCT05
08WPDW1800	225UC along Planter Wall (in ZM, ZL1, ZJ)	73	53d	0	17FEB06	15MAY06	21APR06	18JUL06
08WPDW1900	225 Perforated Drain (in ZR)	19	50d	0	05AUG05	26AUG05	05OCT05	27OCT05
08WPDW2000	225 Perforated Drain (in ZK)	18	51d	0	17FEB06	09MAR06	19APR06	10MAY06
08WPDW2100	225 Perforated Drain (in ZJ6)	9	55d	0	03FEB06	13FEB06	10APR06	19APR06
08WPDW2200	225 Perforated Drain (in ZJ5)	5	56d	0	24JAN06	28JAN06	01APR06	07APR06
08WPDW2300	225 Perforated Drain (ZJ - CP76 - CP82)	24	50d	0	12APR05	09MAY05	09JUN05	08JUL05
08WPDW2400	Remove Existing 3200 Drainpipe	18	73d	0	28JAN05 *	21FEB05	28APR05	18MAY05
Utility Works								
08WPUT0100	Watermain - Lay Salt Main	18	126d	0	11JUL05	30JUL05	08DEC05	28DEC05
08WPUT0700	PCCW - Lay Cable (in ZR)	48	70d	0	24AUG05	21OCT05	17NOV05	11JAN06
08WPUT0800	PCCW - Lay Cable (in ZK)	22	70d	0	31DEC05	25JAN06	25MAR06	20APR06
08WPUT0900	PCCW - Lay Cable (in ZJ6)	10	70d	0	20DEC05	30DEC05	14MAR06	24MAR06
08WPUT1000	PCCW - Lay Cable (in ZJ5)	6	70d	0	13DEC05	19DEC05	07MAR06	13MAR06
08WPUT1100	PCCW - Lay Cable (in ZJ, ZM, ZL1)	44	70d	0	22OCT05	12DEC05	12JAN06	06MAR06
08WPUT1200	HKCG - 32GRP Riser	3	130d	0	28JUL05	30JUL05	30DEC05	02JAN06
08WPUT1300	HKCG - 90 GRP Riser	5	130d	0	01AUG05	05AUG05	03JAN06	07JAN06
08WPUT1400	HKCG - 63 GRP Riser	3	130d	0	06AUG05	09AUG05	09JAN06	11JAN06
Public Lighting, Duct and Kerb								
08WPPK0100	Construct Dwarf Wall along Road D1	23	95d	0	24JAN06	21FEB06	19MAY06	15JUN06
08WPPK0200	Lay Kerb along Road D1	21	95d	0	22FEB06	17MAR06	16JUN06	11JUL06
08WPPK0300	Public Lighting along Waterfront Promenade	58	95d	0	17NOV05	23JAN06	10MAR06	18MAY06
08WPPK0400	Public Lighting along Road D1	15	95d	0	18MAR06	06APR06	12JUL06	01AUG06
Roads and Paving								
08WPRP0100	Lay Paving Block (in ZR)	49	46d	0	15JUL05	09SEP06	07SEP06	04NOV06
08WPRP0200	Lay Paving Block (in ZK)	24	46d	0	16JUN06	14JUL06	10AUG06	06SEP06
08WPRP0300	Lay Paving Block (in ZJ6)	12	46d	0	30MAY06	13JUN06	27JUL06	09AUG06
08WPRP0400	Lay Paving Block (in ZJ5)	12	46d	0	16MAY06	29MAY06	13JUL06	26JUL06
08WPRP0500	Lay Paving Block (in ZJ, ZM, ZL1)	80	53d	0	03FEB06	09MAY06	07APR06	12JUL06



rt date	10JUN04
ish date	20NOV07
ta date	28JAN05
n date	28JAN05
ject name	TP06
ge number	20A

© Primavera Systems, Inc.

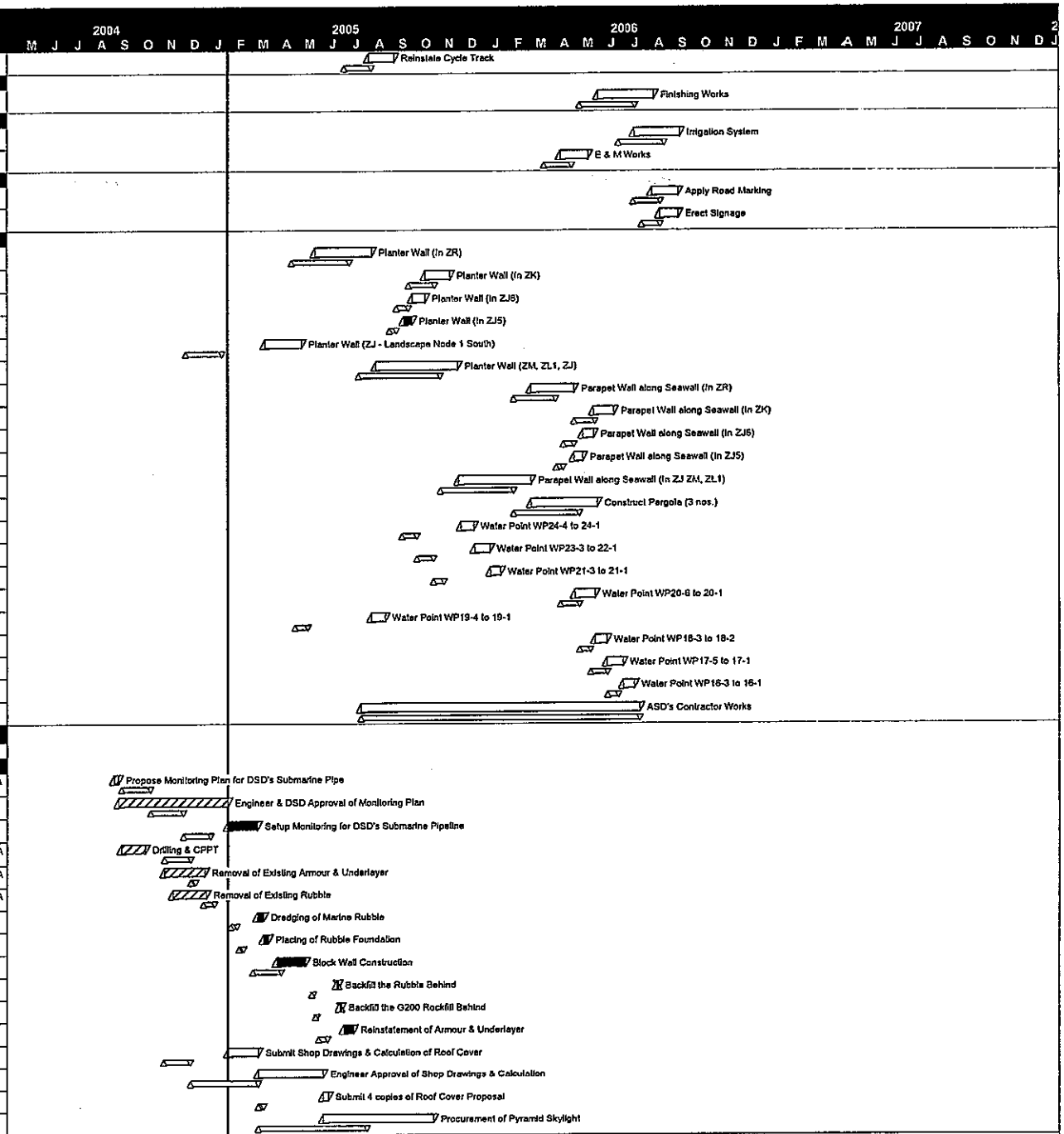
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
08WPRP0500	Reinstate Cycle Track	30	126d	0	01AUG05	03SEP05	29DEC05	03FEB06
Finishing Works								
08WPFW0100	Finishing Works	60	74d	0	29MAY06	08AUG06	25AUG06	04NOV06
E & M Works								
08WPEM0900	Irrigation System	50	45d	0	15JUL06	11SEP06	05SEP06	04NOV06
08WPEM1000	E & M Works	30	95d	0	10APR06	15MAY06	02AUG06	05SEP06
Road Marking , Traffic Sign and Fencing								
08WPRM0100	Apply Road Marking	30	46d	0	07AUG06	09SEP06	28SEP06	04NOV06
08WPRM0200	Erect Signage	21	46d	0	17AUG06	09SEP06	11OCT06	04NOV06
Landscape Hardworks								
08WPHL0100	Planter Wall (In ZR)	63	50d	0	23MAY05	05AUG05	22JUL05	05OCT05
08WPHL0200	Planter Wall (In ZK)	26	94d	0	15OCT05	16NOV05	04FEB06	08MAR06
08WPHL0300	Planter Wall (In ZJ6)	13	80d	0	28SEP05	14OCT05	02JAN06	16JAN06
08WPHL0400	Planter Wall (In ZJ5)	6	-13d	0	17SEP05	27SEP05	02SEP05	10SEP05
08WPHL0500	Planter Wall (ZJ - Landscape Node 1 South)	40	50d	0	18MAR05	04MAY05	17MAY05	04JUL05
08WPHL0600	Planter Wall (ZM, ZL1, ZJ)	90	46d	0	11AUG05	26NOV05	06OCT05	19JAN06
08WPHL0700	Parapet Wall along Seawall (In ZR)	47	46d	0	03MAR06	27APR06	27APR06	22JUN06
08WPHL0800	Parapet Wall along Seawall (In ZK)	22	46d	0	23MAY06	17JUN06	18JUL06	11AUG06
08WPHL0900	Parapet Wall along Seawall (In ZJ6)	12	46d	0	09MAY06	22MAY06	04JUL06	17JUL06
08WPHL1000	Parapet Wall along Seawall (In ZJ5)	8	46d	0	28APR06	08MAY06	23JUN06	03JUL06
08WPHL1100	Parapet Wall along Seawall (In ZJ ZM, ZL1)	80	46d	0	28NOV05	02MAR06	20JAN06	26APR06
08WPHL1200	Construct Pergola (3 nos.)	72	74d	0	03MAR06	27MAY06	01JUN06	24AUG06
08WPHL1300	Water Point WP24-4 to 24-1	15	125d	0	01DEC05	17DEC05	29APR06	17MAY06
08WPHL1400	Water Point WP23-3 to 22-1	18	125d	0	19DEC05	07JAN06	16MAY06	08JUN06
08WPHL1500	Water Point WP21-3 to 21-1	12	125d	0	03JAN06	21JAN06	09JUN06	22JUN06
08WPHL1600	Water Point WP20-6 to 20-1	21	45d	0	29APR06	24MAY06	23JUN06	18JUL06
08WPHL1700	Water Point WP19-4 to 19-1	15	208d	0	05AUG05	22AUG05	12APR06	28APR06
08WPHL1800	Water Point WP18-3 to 18-2	12	45d	0	25MAY06	08JUN06	19JUL06	01AUG06
08WPHL1900	Water Point WP17-5 to 17-1	18	45d	0	09JUN06	29JUN06	02AUG06	22AUG06
08WPHL2000	Water Point WP16-3 to 16-1	12	45d	0	30JUN06	14JUL06	23AUG06	05SEP06
08WPHL2200	ASD's Contractor Works	304	1d	0	22JUL05	21JUL06	23JUL05	22JUL06
Section 9								
Public Landing Step								
Marine Works								
09LSMA0100	Propose Monitoring Plan for DSD's Submarine Pipe	30		100	01SEP04 A	06SEP04 A	01SEP04 A	06SEP04 A
09LSMA0200	Engineer & DSD Approval of Monitoring Plan	35	-13d	99	07SEP04 A	27JAN05	07SEP04 A	12JAN05
09LSMA0300	Setup Monitoring for DSD's Submarine Pipeline	30	-13d	0	28JAN05	07MAR05	13JAN05	19FEB05
09LSMA0400	Drilling & CPPT	30		100	11SEP04 A	11OCT04 A	11SEP04 A	11OCT04 A
09LSMA0500	Removal of Existing Armour & Underlayer	5		100	06NOV04 A	28DEC04 A	06NOV04 A	28DEC04 A
09LSMA0600	Removal of Existing Rubble	12		100	17NOV04 A	30DEC04 A	17NOV04 A	30DEC04 A
09LSMA0700	Dredging of Marine Rubble	7	-13d	0	08MAR05	15MAR05	21FEB05	28FEB05
09LSMA0800	Placing of Rubble Foundation	5	-13d	0	16MAR05	21MAR05	01MAR05	05MAR05
09LSMA0900	Block Wall Construction	31	-13d	0	02APR05	09MAY05	16MAR05	23APR05
09LSMA1000	Backfill the Rubble Behind	2	-13d	0	20JUN05	21JUN05	03JUN05	04JUN05
09LSMA1100	Backfill the G200 Rockfill Behind	2	-13d	0	24JUN05	25JUN05	08JUN05	09JUN05
09LSMA1200	Reinstatement of Armour & Underlayer	10	-13d	0	29JUN05	11JUL05	14JUN05	24JUN05
09LSMA1300	Submit Shop Drawings & Calculation of Roof Cover	30	115d	0	29JAN05	08MAR05	18JUN05	23JUL05
09LSMA1400	Engineer Approval of Shop Drawings & Calculation	72	115d	0	09MAR05	01JUN05	25JUL05	19OCT05
09LSMA1410	Submit 4 copies of Roof Cover Proposal	6	151d	0	02JUN05	08JUN05	01DEC05	07DEC05
09LSMA1500	Procurement of Pyramid Skylight	120	151d	0	02JUN05	25OCT05	01DEC05	22APR06



data 10JUN04
h date 20NOV07
date 28JAN05
data 28JAN05
ct name IP06
number 21A

Primavera Systems, Inc.

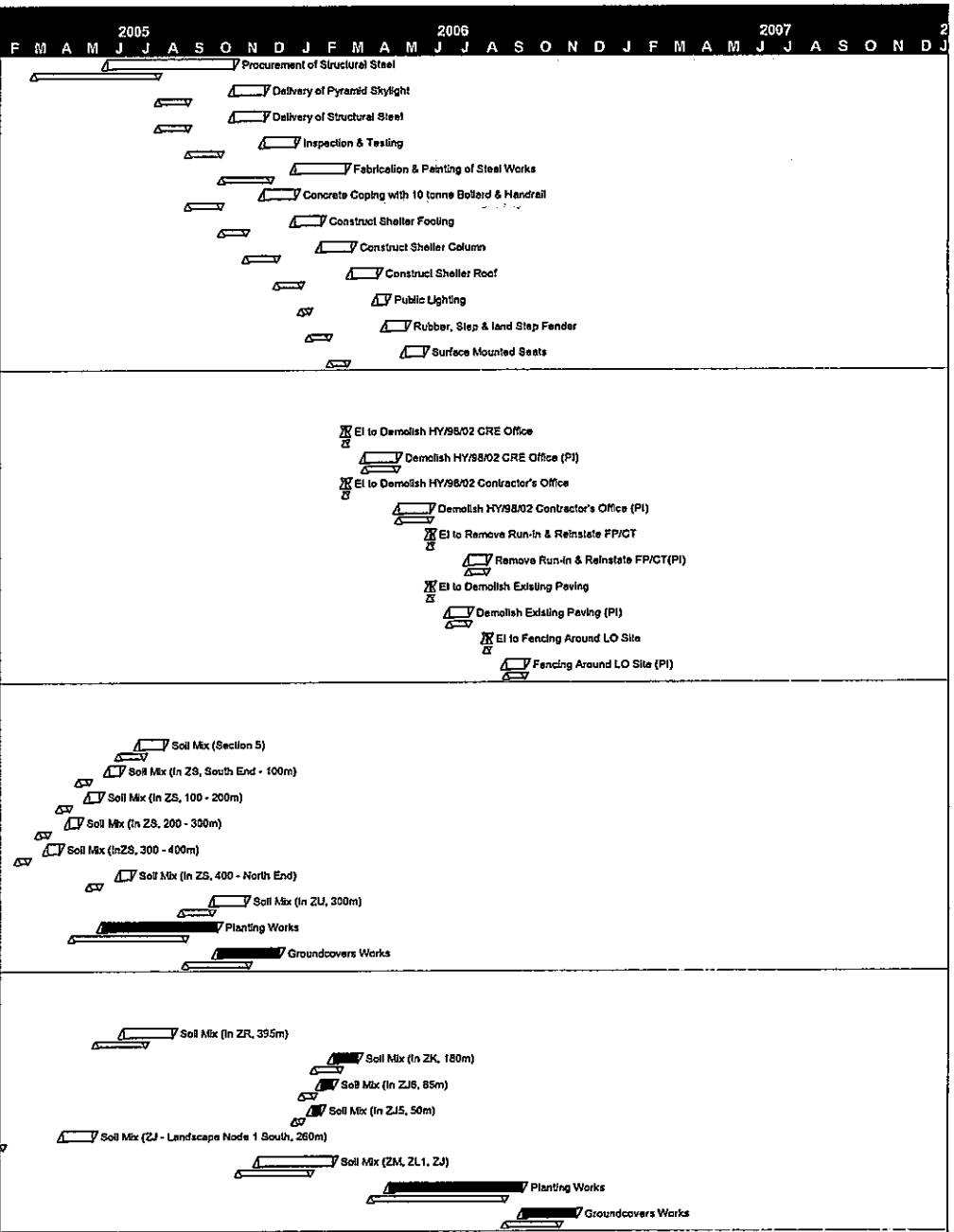
Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
09LSMA1600	Procurement of Structural Steel	120	115d	0	02JUN05	25OCT05	20OCT05	10MAR06
09LSMA1700	Delivery of Pyramid Skylight	30	151d	0	25OCT05	29NOV05	24APR06	29MAY06
09LSMA1800	Delivery of Structural Steel	30	115d	0	25OCT05	29NOV05	11MAR06	15APR06
09LSMA1900	Inspection & Testing	30	115d	0	30NOV05	03JAN06	17APR06	22MAY06
09LSMA2000	Fabrication & Painting of Steel Works	48	121d	0	04JAN06	02MAR06	30MAY06	26JUL06
09LSMA2100	Concrete Coping with 10 tonne Bollard & Handrail	30	115d	0	30NOV05	03JAN06	17APR06	22MAY06
09LSMA2200	Construct Shelter Footing	24	115d	0	04JAN06	02FEB06	23MAY06	20JUN06
09LSMA2300	Construct Shelter Column	30	115d	0	03FEB06	09MAR06	21JUN06	26JUL06
09LSMA2400	Construct Shelter Roof	24	115d	0	10MAR06	07APR06	27JUL06	23AUG06
09LSMA2500	Public Lighting	8	115d	0	08APR06	17APR06	24AUG06	01SEP06
09LSMA2600	Rubber, Step & land Step Fender	18	115d	0	18APR06	09MAY06	02SEP06	22SEP06
09LSMA2700	Surface Mounted Seats	18	115d	0	10MAY06	30MAY06	23SEP06	14OCT06
ction 10								
mainder Works								
Miscellaneous works								
10RWMW0100	El to Demolish HY/98/02 CRE Office	1	76d	0	03MAR06	03MAR06	03JUN06	03JUN06
10RWMW0200	Demolish HY/98/02 CRE Office (PI)	30	76d	0	25MAR06	29APR06	26JUN06	31JUL06
10RWMW0300	El to Demolish HY/98/02 Contractor's Office	1	124d	0	03MAR06	03MAR06	31JUL06	31JUL06
10RWMW0400	Demolish HY/98/02 Contractor's Office (PI)	30	76d	0	02MAY06	05JUN06	01AUG06	04SEP06
10RWMW0500	El to Remove Run-in & Reinstate FP/CT	1	96d	0	07JUN06	07JUN06	28SEP06	28SEP06
10RWMW0600	Remove Run-in & Reinstate FP/CT(PI)	18	78d	0	21JUL06	10AUG06	21OCT06	11NOV06
10RWMW0700	El to Demolish Existing Paving	1	76d	0	07JUN06	07JUN06	05SEP06	05SEP06
10RWMW0800	Demolish Existing Paving (PI)	18	76d	0	29JUN06	20JUL06	27SEP06	18OCT06
10RWMW0900	El to Fencing Around LO Site	1	78d	0	11AUG06	11AUG06	13NOV06	13NOV06
10RWMW1000	Fencing Around LO Site (PI)	18	78d	0	02SEP06	22SEP06	05DEC06	25DEC06
ction 11								
rea SA6, SA11B & SA14								
Landscape Softworks								
11AASL0100	Soil Mix (Section 5)	24	23d	0	09JUL05	05AUG05	05AUG05	01SEP05
11AASL0200	Soil Mix (In ZS, South End - 100m)	10	59d	0	04JUN05	16JUN05	15AUG05	25AUG05
11AASL0300	Soil Mix (In ZS, 100 - 200m)	10	11d	0	12MAY05	23MAY05	25MAY05	04JUN05
11AASL0400	Soil Mix (In ZS, 200 - 300m)	10	79d	0	19APR05	29APR05	22JUL05	02AUG05
11AASL0500	Soil Mix (InZS, 300 - 400m)	10	114d	0	25MAR05	06APR05	09AUG05	19AUG05
11AASL0600	Soil Mix (In ZS, 400 - North End)	10	59d	0	17JUN05	28JUN05	26AUG05	06SEP05
11AASL0700	Soil Mix (In ZU, 300m)	30	24d	0	03OCT05	07NOV05	01NOV05	05DEC05
11AASL0800	Planting Works	110	-4d	0	27MAY05	06OCT05	23MAY05	30SEP05
11AASL0900	Groundcovers Works	60	-4d	0	07OCT05	18DEC05	03OCT05	12DEC05
ction 12								
rea SA7, SA10, SA11A, SA12 & SA13								
Landscape Softworks								
12ABSL0100	Soil Mix (In ZR, 395m)	47	88d	0	21JUN05	15AUG05	05OCT05	29NOV05
12ABSL0200	Soil Mix (In ZK, 180m)	24	-13d	0	17FEB06	16MAR06	02FEB06	01MAR06
12ABSL0300	Soil Mix (In ZJ6, 85m)	12	-13d	0	03FEB06	16FEB06	17JAN06	01FEB06
12ABSL0400	Soil Mix (In ZJ5, 50m)	7	-13d	0	24JAN06	02FEB06	09JAN06	16JAN06
12ABSL0500	Soil Mix (ZJ - Landscape Node 1 South, 260m)	30	50d	0	12APR05	16MAY05	09JUN05	15JUL05
12ABSL0600	Soil Mix (ZM, ZL1, ZJ)	71	53d	0	24NOV05	16FEB06	25JAN06	20APR06
12ABSL0700	Planting Works	127	-13d	0	22APR06	20SEP06	07APR06	05SEP06
12ABSL0800	Groundcovers Works	50	-13d	0	21SEP06	20NOV06	06SEP06	04NOV06
ction 13								
rea SA1, SA2, SA3, SA4 & SA5								
Landscape Softworks								



t date	10JUN03
sh date	20NOV07
d date	28JAN05
date	28JAN05
ect name	IP05
e number	22A
Primavera Systems, Inc.	

Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

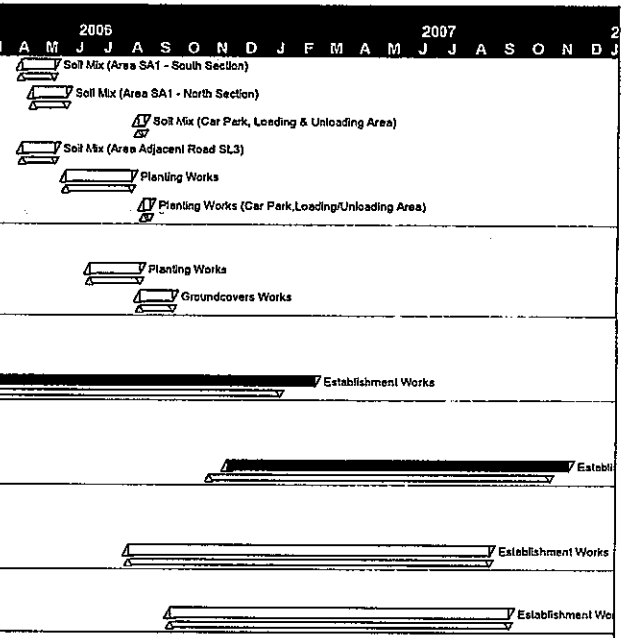
Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE

ZENS

Act ID	Description	Orig Dur	Total Float	Percent Complete	Early Start	Early Finish	Late Start	Late Finish
13ACSL0100	Soil Mix (Area SA1 - South Section)	30	108d	0	14APR06	19MAY06	22AUG06	25SEP06
13ACSL0200	Soil Mix (Area SA1 - North Section)	30	98d	0	26APR06	01JUN06	22AUG06	25SEP06
13ACSL0300	Soil Mix (Car Park, Loading & Unloading Area)	6	63d	0	18AUG06	24AUG06	02NOV06	08NOV06
13ACSL0400	Soil Mix (Area Adjacent Road SL3)	30	107d	0	15APR06	26MAY06	22AUG06	25SEP06
13ACSL0500	Planting Works	60	98d	0	02JUN06	11AUG06	26SEP06	06DEC06
13ACSL0600	Planting Works (Car Park,Loading/Unloading Area)	6	97d	0	25AUG06	31AUG06	19DEC06	25DEC06
ea SA8, SA9, SA15, SA16, SA17 & SA18								
andscape Softworks								
13ADSL0100	Planting Works	45	76d	0	29JUN06	21AUG06	27SEP06	20NOV06
13ADSL0200	Groundcovers Works	30	76d	0	22AUG06	25SEP06	21NOV06	25DEC06
tion 14								
ea SA6, SA11B & SA14								
stablishment Works								
14AAEW0100	Establishment Works	300	-4d	0	02MAR06	24FEB07	25FEB06	17FEB07
tion 15								
ea SA7, SA10, SA11A, SA12 & SA13								
stablishment Works								
15ABEW0100	Establishment Works	300	-13d	0	25NOV06	20NOV07	10NOV06	05NOV07
tion 16								
ea SA1, SA2, SA3, SA4 & SA5								
stablishment Works								
16ACEW0200	Establishment Works	320	98d	0	12AUG06	29AUG07	07DEC06	25DEC07
ea SA8, SA9, SA15, SA16, SA17 & SA18								
stablishment Works								
16ADEW0100	Establishment Works	300	80d	0	25SEP06	19SEP07	30DEC06	25DEC07



date	10JUN04
date	20NOV07
date	28JAN05
date	28JAN05
d name	IP06
number	23A
rimavera Systems, Inc.	

Early bar
Early start point
Early finish point
Target start point
Target finish point
Target bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

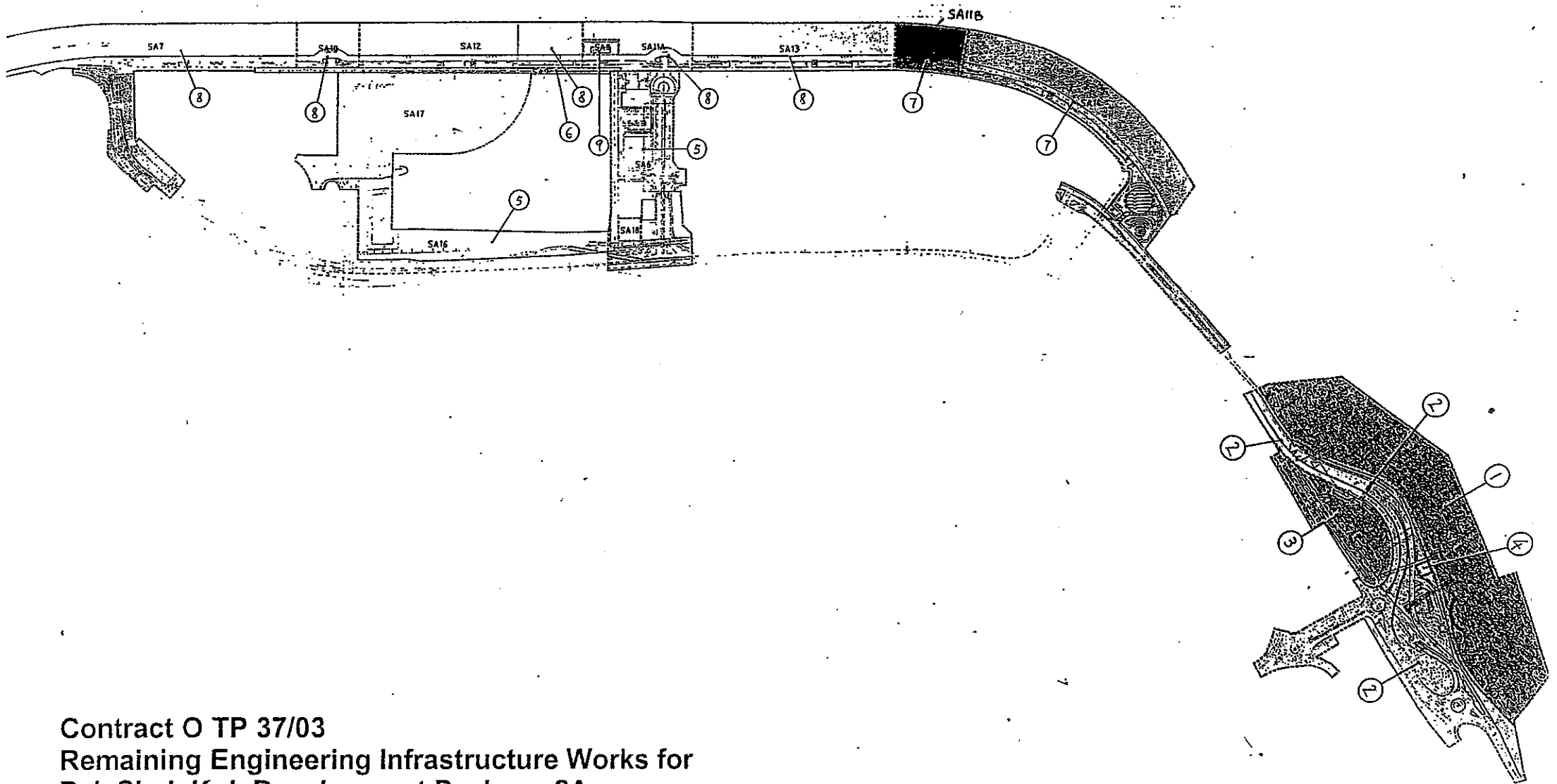
Leader - Wai Kee (C&T) Joint Venture
TP37/03 - Initial Works Programme
Updated to 28 January 2005

LEADER

WAI KEE
ZENS

Appendix G

Construction Site Area



Contract O TP 37/03
Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A

Location and Key Pan

Appendix H

The Implementation Status of Mitigation Measures and Follow-up Actions during Weekly Site Inspections

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Inspection Date : 4 June 2004 Inspected by Name : (RSS) Sunny Yeung (LWKJV) [signature] (ET) H.T. Chow
Time : 10:45 Signature : [signature]

Weather
Condition : Sunny / Fine / (Overcast) / Drizzle / Rain / Storm / Hazy Temperature : 29 °C
Wind : Calm / (Light) / Breeze / Strong Humidity : (High) / Moderate / Low

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Air Quality				
▪ The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading.	✓			
▪ During transportation by truck, material should be loaded to a level lower than the side and tail boards, and should be dampened or covered before transport.			✓	
▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	✓			
▪ The haul road should be either paved or regular watering.	✓			
▪ Unpaved areas should be watered regularly to avoid dust generation.	✓			
▪ The public road around the site entrance should be kept clean and free from dust.	✓			
▪ Vehicle speed should be limited to 20 km/hr.	✓			
▪ Wheel washing facilities should be provided at all main entrance of work site.	✓			
▪ The enclosures should be around the main dust-generating activities.			✓	
▪ Dusty materials should be sprayed prior to loading.	✓			
▪ All plant and equipment should be well maintained e.g. without black smoke emission.	✓			
▪ Vehicle and equipment should be switched off while not in use.	✓			
▪ Open burning should be prohibited.	✓			
Noise				
▪ The constructions works should be scheduled to minimize noise nuisance.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Plant known to emit noise strongly in on direction, should, where possible, should be orientated so that the noise is directed away from nearby NSRs.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			
▪ Noise enclosures, noise barriers, or portable noise barriers used where necessary.	✓			
▪ Air compressors and hand held breakers should have noise labels.			✓	
▪ Compressors and generators should operate with door closed.	✓			
▪ Construction Noise Permits should be available for inspection.			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Water Quality				
General Construction Activities				
▪ Temporary ditches shall be provided to facilitate runoff discharge into appropriate watercourses, via a sediment trap / sedimentation tanks, prior to discharge.	✓			
▪ Permanent drainage channels shall incorporate sediment basins / traps, and baffles.	✓			
▪ All traps shall incorporate oil and grease removal facilities.	✓			
▪ Sediment traps / sedimentation tanks shall be regular cleaned and maintained regularly.	✓			
▪ All drainage facilities should be adequate for controlled release of storm flows.	✓			
▪ Minimizing of exposed soil areas to reduce the potential for increased siltation and contamination of runoff.	✓			
▪ Open stockpiles of more than $50m^3$ should be covered.	✓			
▪ Temporary stockpiles of excavated materials should be covered during rainstorms.	✓			
▪ Manholes should be covered and sealed.	✓			
▪ All chemical stores shall be contained (bunded) such that spills are not allowed to gain access to water bodies.	✓			
▪ Vehicles and plant should be cleaned of earth, mud and debris before leaving the site.	✓			
▪ Vehicle washing facilities should be provided at every site exit.	✓			
▪ Vehicle washing facilities should be adequate to settle out the sand and silt.	✓			
▪ Washing area and road exiting from washing facility should be paved.	✓			
▪ Access road should have sufficient back fall toward washing facility.	✓			
Dredging Activities				
▪ Dredging of designated contaminated marine mud shall only be undertaken by a suitable grab dredger using a close grab.	✓			
▪ Mechanical grabs shall be designed and maintained to avoid spillage and shall be seal tightly while being lifted.	✓			
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipelines at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller on the water within the site.	✓			
▪ The works shall cause no visible foam, oil, grease, scum litter or other objectionable matter to be present on the water within the site.	✓			
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials.	✓			
▪ Excess material shall be cleaned from the decks and exposed fittings of the barges before the vessels are moved.	✓			
▪ Loading of barges shall be controlled to prevent splashing of dredging material to the surrounding water and the barges shall not be filled to a level which will cause overflowing of material or polluted water during loading or transportation.	✓			
▪ Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.	✓			

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Filling Activities				
▪ Use of silt screen around the filling face to reduce the losses to the surrounding.	✓			
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipeline at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash or pipelines damaged.	✓			
▪ The works shall cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.	✓			
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material.	✓			
▪ Loading of barges shall be controlled to prevent splashing of dredged material to the surrounding water and barges shall not be filled to a level which will cause overflowing of material or polluted water during loading transportation.	✓			
Waste Management				
Marine Dredged Sediment				
• Relevant licence / permits for disposal of marine dredged sediment are available for inspection.			✓	
• Bottom opening of barges is fitted with tight fitting seals to prevent leakage of material. Excess material is cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.			✓	
• Monitoring of the barging loading is conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels are equipped with automatic self-monitoring devices as specified by the EPD.			✓	
• Transport of dredged marine sediments to the disposal site is by split barge of not less than 750m^3 capacity, well maintained and capable of rapid opening and discharge at the disposal site.			✓	
• Inspection of the barge loading to ensure that loss of material does not take place during transportation.			✓	
Construction and Demolition (C&D) Waste				
• Most of the C&D materials generated from the construction are sorted immediately in-situ to find out if they can be re-used for this job site or for other job sites.			✓	
• Sufficient spaces are identified and provided during the construction stage for the collection, temporary storage and on-site sorting of C&D materials.	✓			
• Proper protective measures, such as fences and tarpaulin, are provided, in order to protective the temporary stockpiled materials for later reuse / recycle.	✓			
• Avoiding cross contamination to reusable and / or recyclable materials collected (e.g. covering the reusable materials)	✓			
• In order to reduce the impacts to the public, except for those sorted inert C&D materials to be reused on site, all other sorted non-inert materials (e.g. general refuse and waste formworks) shall be removed off site as soon as practicable in order to optimise the use of the on-site storage space. If the non-inert materials need to be stored on site for a short period, the materials shall be centralized and stored at specific areas far away the sensitive receivers.	✓			
• All Public Fill arising from the demolition works shall be limited to a size not more than 250mm and free of reinforcement bars, timber, etc. before re-using it.	✓			
• Recyclable materials sorted from the site should be collected by potential recycling contractors under the Contractor's arrangement.	✓			
• Trip ticket system will be implemented to ensure proper waste disposal at public filing and landfills			✓	
• Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	✓			
• Proper resource planning and calculations before ordering the construction materials to be used will ensure that the wastage of the materials can be minimized	✓			

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• Proper storage will minimize the damage and thus the wastage of the materials	✓			
• Training of site personnel in proper waste management procedures. The workers shall be constantly educated for the awareness of the proper handling of waste and to reduce the amount of waste while Site Agent shall be constantly met to discuss the effectiveness of the implementation of the waste management plan. Information to promote the waste management and the reduction concept shall be posted at the site to raise alertness of the personnel concerned.	✓			
• Chemical Waste				
• It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	✓			
• After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	✓			
• Chemical wastes should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	✓			
• Containers used for the storage of chemical wastes				
• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed	✓			
• Have a capacity of less than 450L unless the specification have been approved by the EPD	✓			
• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste (General) Regulations and Codes of Practice	✓			
• Labelling				
• Every container of chemical waste would bear an appropriate label, which would contain the particulars details.	✓			
• The waste produced would ensure that the information contained on the label is accurate and sufficient so as to enable proper and safe handling, storage and transport of the chemical waste	✓			
• Storage Area				
• Be clearly labeled and used solely for the storage of chemical waste	✓			
• Be enclosed on at least 3 sides	✓			
• Have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest	✓			
• Have adequate ventilation	✓			
• Be covered to prevent rainfall entering	✓			
• Be arranged so that incompatible materials are adequately separated	✓			
• Be clean and maintain regularly	✓			
• **Disposal**				
• Be via a licensed waste collector			✓	
• To a licensed disposal facility, such as Chemical Waste Treatment Centre			✓	
• Be a reuser of the waste, under approval from the EPD			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• **Spillage**				
• Establish source of spill or discharge and determine nature of material, where possible halt discharge			✓	
• Commencing at the source of the spill, establish all current and potential impacted areas			✓	
• Commence containment of spill using bunds made from available materials and ground water cut-off trenches where necessary			✓	
• After spill is contained remove material (including contaminated soil where necessary) using pumps and/or absorbent materials			✓	
• Dispose of materials as chemical wastes			✓	
• General Refuse				
• General refuse generated on-site is in enclosed bins or compaction units separate from construction and chemical waste	✓			
• A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from the construction and chemical waste.	✓			
• General refuse generated is removed on daily or every second day basis to minimise odour, pest and litter impacts	✓			
• Aluminium cans are recovered from the waste stream by individual collectors if they are segregated or easily accessible, so separate, labelled bins for their deposit should be provided if feasible.	✓			
• Office wastes are reduced through recycling of paper if volumes are large enough to warrant collection.	✓			
• Site Practice				
• Good site practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from dropping into the nearby environment. Construction sites should be cleaned on a regular basis.	✓			
• The Contractor assigned worker is responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	✓			
• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	✓			
• The Environmental Permit should be displaced conspicuously on site	✓			
• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
• Any unused chemicals or those with remaining functional capacity should be recycled.	✓			
• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	✓			
• Suitable collection sites around site offices will be required. For environmental hygiene reasons and to minimize odor, refuse should not be stored for a period exceeding 48 hours, however, removal every 24 hours is preferable.	✓			
• Minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed container.	✓			
• All generators, fuel and oil storage are within bundle areas.	✓			
• Oil leakage from machinery, vehicle and plant is prevented.	✓			
• Chemical storage area, drainage systems, silt traps, sumps and oil interceptors are cleaned and maintained regularly.	✓			

Table for follow-up Action:

Item	Details of defective works or observations	Location	Further action to be taken (Included persons / party to take action)	Expected Date for Action taken
#1	Follow up the site inspection on 28 May, 2005, ponding water was pumped out by contractor.	SA 14	Follow up action was completed, no further action to be taken.	N/A
	Other site conditions were satisfactory, no new remark were recorded during this site inspection.	N/A	N/A	N/A

	RSS	LWKJV	ET
Signature:			
Name:	Sunny Yeung		H. T. Chow
Date:	4-6-2005	4/6/05	4 - 6 - 2005

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Inspection Date : 9 June 2004 Inspected by Name : (RSS) LKLee (LWKJV) Ben Yip (ET) H.T. Chow
Time : 09:00 Signature :

Weather Condition : Sunny / Fine / ~~Overcast~~ / ~~Drizzle~~ / Rain / Storm / Hazy
Wind : Calm / Light / Breeze / Strong
Temperature : 28°C
Humidity : High / Moderate / Low

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Air Quality				
▪ The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading.		✓		(2)
▪ During transportation by truck, material should be loaded to a level lower than the side and tail boards, and should be dampened or covered before transport.			✓	
▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	✓			
▪ The haul road should be either paved or regular watering.	✓			
▪ Unpaved areas should be watered regularly to avoid dust generation.	✓			
▪ The public road around the site entrance should be kept clean and free from dust.	✓			
▪ Vehicle speed should be limited to 20 km/hr.	✓			
▪ Wheel washing facilities should be provided at all main entrance of work site.	✓			
▪ The enclosures should be around the main dust-generating activities.	✓			
▪ Dusty materials should be sprayed prior to loading.	✓			
▪ All plant and equipment should be well maintained e.g. without black smoke emission.	✓			
▪ Vehicle and equipment should be switched off while not in use.	✓			
▪ Open burning should be prohibited.	✓			
Noise				
▪ The constructions works should be scheduled to minimize noise nuisance.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Plant known to emit noise strongly in on direction, should, where possible, should be orientated so that the noise is directed away from nearby NSRs.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			
▪ Noise enclosures, noise barriers, or portable noise barriers used where necessary.	✓			
▪ Air compressors and hand held breakers should have noise labels.			✓	
▪ Compressors and generators should operate with door closed.	✓			
▪ Construction Noise Permits should be available for inspection.			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Water Quality				
General Construction Activities				
▪ Temporary ditches shall be provided to facilitate runoff discharge into appropriate watercourses, via a sediment trap / sedimentation tanks, prior to discharge.	✓			
▪ Permanent drainage channels shall incorporate sediment basins / traps, and baffles.	✓			
▪ All traps shall incorporate oil and grease removal facilities.	✓			
▪ Sediment traps / sedimentation tanks shall be regular cleaned and maintained regularly.	✓			
▪ All drainage facilities should be adequate for controlled release of storm flows.	✓			
▪ Minimizing of exposed soil areas to reduce the potential for increased siltation and contamination of runoff.	✓			
▪ Open stockpiles of more than $50m^3$ should be covered.	✓			
▪ Temporary stockpiles of excavated materials should be covered during rainstorms.	✓			
▪ Manholes should be covered and sealed.	✓			
▪ All chemical stores shall be contained (bunded) such that spills are not allowed to gain access to water bodies.	✓			
▪ Vehicles and plant should be cleaned of earth, mud and debris before leaving the site.	✓			
▪ Vehicle washing facilities should be provided at every site exit.	✓			
▪ Vehicle washing facilities should be adequate to settle out the sand and silt.	✓			
▪ Washing area and road exiting from washing facility should be paved.	✓			
▪ Access road should have sufficient back fall toward washing facility.	✓			
Dredging Activities				
▪ Dredging of designated contaminated marine mud shall only be undertaken by a suitable grab dredger using a close grab.			✓	
▪ Mechanical grabs shall be designed and maintained to avoid spillage and shall be seal tightly while being lifted.			✓	
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipelines at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller on the water within the site.			✓	
▪ The works shall cause no visible foam, oil, grease, scum litter or other objectionable matter to be present on the water within the site.			✓	
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials.			✓	
▪ Excess material shall be cleaned from the decks and exposed fittings of the barges before the vessels are moved.			✓	
▪ Loading of barges shall be controlled to prevent splashing of dredging material to the surrounding water and the barges shall not be filled to a level which will cause overflowing of material or polluted water during loading or transportation.			✓	
▪ Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Filling Activities				
▪ Use of silt screen around the filling face to reduce the losses to the surrounding.			✓	
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipeline at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash or pipelines damaged.			✓	
▪ The works shall cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.			✓	
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material.			✓	
▪ Loading of barges shall be controlled to prevent splashing of dredged material to the surrounding water and barges shall not be filled to a level which will cause overflowing of material or polluted water during loading transportation.			✓	
Waste Management				
Marine Dredged Sediment				
• Relevant licence / permits for disposal of marine dredged sediment are available for inspection.			✓	
• Bottom opening of barges is fitted with tight fitting seals to prevent leakage of material. Excess material is cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.			✓	
• Monitoring of the barging loading is conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels are equipped with automatic self-monitoring devices as specified by the EPD.			✓	
• Transport of dredged marine sediments to the disposal site is by split barge of not less than 750m^3 capacity, well maintained and capable of rapid opening and discharge at the disposal site.			✓	
• Inspection of the barge loading to ensure that loss of material does not take place during transportation.			✓	
Construction and Demolition (C&D) Waste				
• Most of the C&D materials generated from the construction are sorted immediately in-situ to find out if they can be re-used for this job site or for other job sites.			✓	
• Sufficient spaces are identified and provided during the construction stage for the collection, temporary storage and on-site sorting of C&D materials.	✓			
• Proper protective measures, such as fences and tarpaulin, are provided, in order to protective the temporary stockpiled materials for later reuse / recycle.	✓			
• Avoiding cross contamination to reusable and / or recyclable materials collected (e.g. covering the reusable materials)	✓			
• In order to reduce the impacts to the public, except for those sorted inert C&D materials to be reused on site, all other sorted non-inert materials (e.g. general refuse and waste formworks) shall be removed off site as soon as practicable in order to optimise the use of the on-site storage space. If the non-inert materials need to be stored on site for a short period, the materials shall be centralized and stored at specific areas far away the sensitive receivers.	✓			
• All Public Fill arising from the demolition works shall be limited to a size not more than 250mm and free of reinforcement bars, timber, etc. before re-using it.	✓			
• Recyclable materials sorted from the site should be collected by potential recycling contractors under the Contractor's arrangement.	✓			
• Trip ticket system will be implemented to ensure proper waste disposal at public filing and landfills			✓	
• Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	✓			
• Proper resource planning and calculations before ordering the construction materials to be used will ensure that the wastage of the materials can be minimized	✓			

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• Proper storage will minimize the damage and thus the wastage of the materials	✓			
• Training of site personnel in proper waste management procedures. The workers shall be constantly educated for the awareness of the proper handling of waste and to reduce the amount of waste while Site Agent shall be constantly met to discuss the effectiveness of the implementation of the waste management plan. Information to promote the waste management and the reduction concept shall be posted at the site to raise alertness of the personnel concerned.	✓			
• Chemical Waste				
• It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	✓			
• After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	✓			
• Chemical wastes should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	✓			
• Containers used for the storage of chemical wastes				
• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed		✓		(3)
• Have a capacity of less than 450L unless the specification have been approved by the EPD	✓			
• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste (General) Regulations and Codes of Practice	✓			
• Labelling				
• Every container of chemical waste would bear an appropriate label, which would contain the particulars details.	✓			
• The waste produced would ensure that the information contained on the label is accurate and sufficient so as to enable proper and safe handling, storage and transport of the chemical waste	✓			
• Storage Area				
• Be clearly labeled and used solely for the storage of chemical waste	✓			
• Be enclosed on at least 3 sides	✓			
• Have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest	✓			
• Have adequate ventilation	✓			
• Be covered to prevent rainfall entering	✓			
• Be arranged so that incompatible materials are adequately separated	✓			
• Be clean and maintain regularly	✓			
• **Disposal**				
• Be via a licensed waste collector	✓			
• To a licensed disposal facility, such as Chemical Waste Treatment Centre	✓			
• Be a reuser of the waste, under approval from the EPD	✓			

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• **Spillage**				
• Establish source of spill or discharge and determine nature of material, where possible halt discharge			✓	
• Commencing at the source of the spill, establish all current and potential impacted areas			✓	
• Commence containment of spill using bunds made from available materials and ground water cut-off trenches where necessary			✓	
• After spill is contained remove material (including contaminated soil where necessary) using pumps and/or absorbent materials			✓	
• Dispose of materials as chemical wastes			✓	
• General Refuse				
• General refuse generated on-site is in enclosed bins or compaction units separate from construction and chemical waste	✓			
• A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from the construction and chemical waste.	✓			
• General refuse generated is removed on daily or every second day basis to minimise odour, pest and litter impacts		✓		(1)
• Aluminium cans are recovered from the waste stream by individual collectors if they are segregated or easily accessible, so separate, labelled bins for their deposit should be provided if feasible.	✓			
• Office wastes are reduced through recycling of paper if volumes are large enough to warrant collection.	✓			
• Site Practice				
• Good site practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from dropping into the nearby environment. Construction sites should be cleaned on a regular basis.	✓			
• The Contractor assigned worker is responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.		✓		(1)
• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	✓			
• The Environmental Permit should be displaced conspicuously on site	✓			
• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.				
• Any unused chemicals or those with remaining functional capacity should be recycled.			✓	
• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	✓			
• Suitable collection sites around site offices will be required. For environmental hygiene reasons and to minimize odor, refuse should not be stored for a period exceeding 48 hours, however, removal every 24 hours is preferable.	✓			
• Minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed container.	✓			
• All generators, fuel and oil storage are within bundle areas.	✓			
• Oil leakage from machinery, vehicle and plant is prevented.	✓			
• Chemical storage area, drainage systems, silt traps, sumps and oil interceptors are cleaned and maintained regularly.	✓			

Table for follow-up Action:

Item	Details of defective works or observations	Location	Further action to be taken (Included persons / party to take action)	Expected Date for Action taken
Remark ①	The rubbish skip was found full load at Road L4.	Road L4	The contractor was reminded to keep the rubbish skip clear and clear up more frequenty.	18-6-2008
Remark ②	Stockpile of excavated material without cover.	Road L4	The contractor was reminded to cover the stockpile.	18-6-2008
Remark ③	Chemical container was found without proper storage.	Landscape Node 1	The contractor was reminded to remove the container.	18-6-2008

	RSS	LWKJV	ET
Signature:			H. T. Chow
Name:	W.L. Lee	Ryan Yip	H. T. Chow
Date:	9/6/2008	9/6/08	9-6-2008

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Inspection Date : 18 June 2004 Inspected by Name : (RSS) Eric Leung (LWKJV) [signature] (ET) H.T. Chow

Time : 10:00 a.m. Signature : [signature]

Weather Condition : Sunny / Fine / Overcast / Drizzle / (Rain) / Storm / Hazy

Wind : Calm / (Light) / Breeze / Strong

Temperature : 26 °C

Humidity : (High) / Moderate / Low

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Air Quality				
▪ The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading.		✓		#2
▪ During transportation by truck, material should be loaded to a level lower than the side and tail boards, and should be dampened or covered before transport.	✓			
▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	✓			
▪ The haul road should be either paved or regular watering.	✓			
▪ Unpaved areas should be watered regularly to avoid dust generation.	✓			
▪ The public road around the site entrance should be kept clean and free from dust.	✓			
▪ Vehicle speed should be limited to 20 km/hr.	✓			
▪ Wheel washing facilities should be provided at all main entrance of work site.	✓			
▪ The enclosures should be around the main dust-generating activities.	✓			
▪ Dusty materials should be sprayed prior to loading.	✓			
▪ All plant and equipment should be well maintained e.g. without black smoke emission.	✓			
▪ Vehicle and equipment should be switched off while not in use.	✓			
▪ Open burning should be prohibited.				
Noise				
▪ The constructions works should be scheduled to minimize noise nuisance.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.			✓	
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Plant known to emit noise strongly in on direction, should, where possible, should be orientated so that the noise is directed away from nearby NSRs.			✓	
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.			✓	
▪ Noise enclosures, noise barriers, or portable noise barriers used where necessary.	✓			
▪ Air compressors and hand held breakers should have noise labels.			✓	
▪ Compressors and generators should operate with door closed.			✓	
▪ Construction Noise Permits should be available for inspection.				

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Water Quality				
General Construction Activities				
▪ Temporary ditches shall be provided to facilitate runoff discharge into appropriate watercourses, via a sediment trap / sedimentation tanks, prior to discharge.		✓		(2)
▪ Permanent drainage channels shall incorporate sediment basins / traps, and baffles.	✓			
▪ All traps shall incorporate oil and grease removal facilities.	✓			
▪ Sediment traps / sedimentation tanks shall be regular cleaned and maintained regularly.	✓			
▪ All drainage facilities should be adequate for controlled release of storm flows.	✓			
▪ Minimizing of exposed soil areas to reduce the potential for increased siltation and contamination of runoff.	✓			
▪ Open stockpiles of more than $50m^3$ should be covered.	✓			
▪ Temporary stockpiles of excavated materials should be covered during rainstorms.	✓			
▪ Manholes should be covered and sealed.	✓			
▪ All chemical stores shall be contained (bunded) such that spills are not allowed to gain access to water bodies.	✓			
▪ Vehicles and plant should be cleaned of earth, mud and debris before leaving the site.	✓			
▪ Vehicle washing facilities should be provided at every site exit.	✓			
▪ Vehicle washing facilities should be adequate to settle out the sand and silt.	✓			
▪ Washing area and road exiting from washing facility should be paved.	✓			
▪ Access road should have sufficient back fall toward washing facility.	✓			
Dredging Activities				
▪ Dredging of designated contaminated marine mud shall only be undertaken by a suitable grab dredger using a close grab.	✓			
▪ Mechanical grabs shall be designed and maintained to avoid spillage and shall be seal tightly while being lifted.	✓			
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipelines at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller on the water within the site.	✓			
▪ The works shall cause no visible foam, oil, grease, scum litter or other objectionable matter to be present on the water within the site.	✓			
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials.	✓			
▪ Excess material shall be cleaned from the decks and exposed fittings of the barges before the vessels are moved.	✓			
▪ Loading of barges shall be controlled to prevent splashing of dredging material to the surrounding water and the barges shall not be filled to a level which will cause overflowing of material or polluted water during loading or transportation.	✓			
▪ Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.	✓			

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Filling Activities				
▪ Use of silt screen around the filling face to reduce the losses to the surrounding.		✓		(1)
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipeline at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash or pipelines damaged.	✓			
▪ The works shall cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.	✓			
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material.	✓			
▪ Loading of barges shall be controlled to prevent splashing of dredged material to the surrounding water and barges shall not be filled to a level which will cause overflowing of material or polluted water during loading transportation.			✓	
Waste Management				
Marine Dredged Sediment				
• Relevant licence / permits for disposal of marine dredged sediment are available for inspection.			✓	
• Bottom opening of barges is fitted with tight fitting seals to prevent leakage of material. Excess material is cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.			✓	
• Monitoring of the barging loading is conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels are equipped with automatic self-monitoring devices as specified by the EPD.			✓	
• Transport of dredged marine sediments to the disposal site is by split barge of not less than 750m^3 capacity, well maintained and capable of rapid opening and discharge at the disposal site.			✓	
• Inspection of the barge loading to ensure that loss of material does not take place during transportation.			✓	
Construction and Demolition (C&D) Waste				
• Most of the C&D materials generated from the construction are sorted immediately in-situ to find out if they can be re-used for this job site or for other job sites.			✓	
• Sufficient spaces are identified and provided during the construction stage for the collection, temporary storage and on-site sorting of C&D materials.			✓	
• Proper protective measures, such as fences and tarpaulin, are provided, in order to protective the temporary stockpiled materials for later reuse / recycle.			✓	
• Avoiding cross contamination to reusable and / or recyclable materials collected (e.g. covering the reusable materials)			✓	
• In order to reduce the impacts to the public, except for those sorted inert C&D materials to be reused on site, all other sorted non-inert materials (e.g. general refuse and waste formworks) shall be removed off site as soon as practicable in order to optimise the use of the on-site storage space. If the non-inert materials need to be stored on site for a short period, the materials shall be centralized and stored at specific areas far away the sensitive receivers.			✓	
• All Public Fill arising from the demolition works shall be limited to a size not more than 250mm and free of reinforcement bars, timber, etc. before re-using it.			✓	
• Recyclable materials sorted from the site should be collected by potential recycling contractors under the Contractor's arrangement.			✓	
• Trip ticket system will be implemented to ensure proper waste disposal at public filing and landfills			✓	
• Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.			✓	
• Proper resource planning and calculations before ordering the construction materials to be used will ensure that the wastage of the materials can be minimized			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• Proper storage will minimize the damage and thus the wastage of the materials			✓	
• Training of site personnel in proper waste management procedures. The workers shall be constantly educated for the awareness of the proper handling of waste and to reduce the amount of waste while Site Agent shall be constantly met to discuss the effectiveness of the implementation of the waste management plan. Information to promote the waste management and the reduction concept shall be posted at the site to raise alertness of the personnel concerned.			✓	
• Chemical Waste				
• It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	✓			
• After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	✓			
• Chemical wastes should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	✓			
• Containers used for the storage of chemical wastes				
• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed	✓			
• Have a capacity of less than 450L unless the specification have been approved by the EPD	✓			
• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste (General) Regulations and Codes of Practice	✓			
• Labelling	✓			
• Every container of chemical waste would bear an appropriate label, which would contain the particulars details.	✓			
• The waste produced would ensure that the information contained on the label is accurate and sufficient so as to enable proper and safe handling, storage and transport of the chemical waste	✓			
• Storage Area				
• Be clearly labeled and used solely for the storage of chemical waste	✓			
• Be enclosed on at least 3 sides	✓			
• Have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest	✓			
• Have adequate ventilation	✓			
• Be covered to prevent rainfall entering	✓			
• Be arranged so that incompatible materials are adequately separated	✓			
• Be clean and maintain regularly	✓			
• **Disposal**				
• Be via a licensed waste collector			✓	
• To a licensed disposal facility, such as Chemical Waste Treatment Centre			✓	
• Be a reuser of the waste, under approval from the EPD			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• **Spillage**				
• Establish source of spill or discharge and determine nature of material, where possible halt discharge			✓	
• Commencing at the source of the spill, establish all current and potential impacted areas			✓	
• Commence containment of spill using bunds made from available materials and ground water cut-off trenches where necessary			✓	
• After spill is contained remove material (including contaminated soil where necessary) using pumps and/or absorbent materials		-	✓	
• Dispose of materials as chemical wastes			✓	
• General Refuse				
• General refuse generated on-site is in enclosed bins or compaction units separate from construction and chemical waste	✓			
• A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from the construction and chemical waste.	✓			
• General refuse generated is removed on daily or every second day basis to minimise odour, pest and litter impacts	✓			
• Aluminium cans are recovered from the waste stream by individual collectors if they are segregated or easily accessible, so separate, labelled bins for their deposit should be provided if feasible.	✓			
• Office wastes are reduced through recycling of paper if volumes are large enough to warrant collection.	✓			
• Site Practice				
• Good site practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from dropping into the nearby environment. Construction sites should be cleaned on a regular basis.	✓			
• The Contractor assigned worker is responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.			✓	
• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	✓			
• The Environmental Permit should be displaced conspicuously on site	✓			
• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
• Any unused chemicals or those with remaining functional capacity should be recycled.	✓			
• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	✓			
• Suitable collection sites around site offices will be required. For environmental hygiene reasons and to minimize odor, refuse should not be stored for a period exceeding 48 hours, however, removal every 24 hours is preferable.	✓			
• Minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed container.	✓			
• All generators, fuel and oil storage are within bundle areas.	✓			
• Oil leakage from machinery, vehicle and plant is prevented.	✓			
• Chemical storage area, drainage systems, silt traps, sumps and oil interceptors are cleaned and maintained regularly.	✓			

Table for follow-up Action:

Item	Details of defective works or observations	Location	Further action to be taken (Included persons / party to take action)	Expected Date for Action taken
#1	Follow up the site inspection on 9 June 2005, the rubbish was clear out from the skip.	Road L4	Follow up action was completed, no further action to be taken.	N/A
#2	Stockpile of excavated material was still found next to the cycle track.	Road L4	The contractor was reminded to remove or cover the stockpile.	23-6-05
#3	Chemical container in "Landscape Node 1" was removed.	Landscape Node 1	Follow up action was completed, no further action to be taken.	N/A
Remark (1)	The curtain was observed not fully enclosed in marine working area.	Landscape Node 1	The contractor was reminded to use of curtain around the working face to reduce the losses.	23-6-05
Remark (2)	Run off direct discharge into the sea.	SA14	The contractor was reminded to treatment the run off before discharge.	23-6-05

	RSS	LWKJV	ET
Signature:			
Name:	Eric Leung	Ben Yeung	H.T. Chow
Date:	18/6/05	18/6/05	18-6-2005

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Inspection Date : 23 June 2008 Inspected by Name : (RSS) Sunny Yeung (LWKJV) Ben Ng (ET) H. T. Chow
Time : 10:00 Signature :

Weather Condition : Sunny / Fine / Overcast / Drizzle / (Rain) / Storm / Hazy Temperature : 26 °C
Wind : Calm / (Light) / Breeze / Strong Humidity : (High) / Moderate / Low

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Air Quality				
▪ The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading.	√			
▪ During transportation by truck, material should be loaded to a level lower than the side and tail boards, and should be dampened or covered before transport.	√			
▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	√			
▪ The haul road should be either paved or regular watering.	√			
▪ Unpaved areas should be watered regularly to avoid dust generation.	√			
▪ The public road around the site entrance should be kept clean and free from dust.	√			
▪ Vehicle speed should be limited to 20 km/hr.	√			
▪ Wheel washing facilities should be provided at all main entrance of work site.	√			
▪ The enclosures should be around the main dust-generating activities.	√			
▪ Dusty materials should be sprayed prior to loading.	√			
▪ All plant and equipment should be well maintained e.g. without black smoke emission.	√			
▪ Vehicle and equipment should be switched off while not in use.	√			
▪ Open burning should be prohibited.	√			
Noise				
▪ The constructions works should be scheduled to minimize noise nuisance.	√			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.			√	
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.				
▪ Plant known to emit noise strongly in on direction, should, where possible, should be orientated so that the noise is directed away from nearby NSRs.			√	
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.			√	
▪ Noise enclosures, noise barriers, or portable noise barriers used where necessary.	√		√	
▪ Air compressors and hand held breakers should have noise labels.				
▪ Compressors and generators should operate with door closed.			√	
▪ Construction Noise Permits should be available for inspection.			√	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Water Quality				
General Construction Activities				
▪ Temporary ditches shall be provided to facilitate runoff discharge into appropriate watercourses, via a sediment trap / sedimentation tanks, prior to discharge.		√		⊗#3 go to.
▪ Permanent drainage channels shall incorporate sediment basins / traps, and baffles.	√			
▪ All traps shall incorporate oil and grease removal facilities.	√			
▪ Sediment traps / sedimentation tanks shall be regular cleaned and maintained regularly.	√			
▪ All drainage facilities should be adequate for controlled release of storm flows.	√			
▪ Minimizing of exposed soil areas to reduce the potential for increased siltation and contamination of runoff.	√			
▪ Open stockpiles of more than $50m^3$ should be covered.	√			
▪ Temporary stockpiles of excavated materials should be covered during rainstorms.	√			
▪ Manholes should be covered and sealed.	√			
▪ All chemical stores shall be contained (bunded) such that spills are not allowed to gain access to water bodies.	√			
▪ Vehicles and plant should be cleaned of earth, mud and debris before leaving the site.	√			
▪ Vehicle washing facilities should be provided at every site exit.	√			
▪ Vehicle washing facilities should be adequate to settle out the sand and silt.	√			
▪ Washing area and road exiting from washing facility should be paved.	√			
▪ Access road should have sufficient back fall toward washing facility.	√			
Dredging Activities				
▪ Dredging of designated contaminated marine mud shall only be undertaken by a suitable grab dredger using a close grab.	√			
▪ Mechanical grabs shall be designed and maintained to avoid spillage and shall be seal tightly while being lifted.	√			
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipelines at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller on the water within the site.	√			
▪ The works shall cause no visible foam, oil, grease, scum litter or other objectionable matter to be present on the water within the site.	√			
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials.	√			
▪ Excess material shall be cleaned from the decks and exposed fittings of the barges before the vessels are moved.	√			
▪ Loading of barges shall be controlled to prevent splashing of dredging material to the surrounding water and the barges shall not be filled to a level which will cause overflowing of material or polluted water during loading or transportation.	√			
▪ Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.	√			

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
Filling Activities				
▪ Use of silt screen around the filling face to reduce the losses to the surrounding.		✓		(1)
▪ All vessels shall be sized such that adequate clearance is maintained between vessel and the sea bed and under water pipeline at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash or pipelines damaged.	✓			
▪ The works shall cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.	✓			
▪ All barges shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material.	✓			
▪ Loading of barges shall be controlled to prevent splashing of dredged material to the surrounding water and barges shall not be filled to a level which will cause overflowing of material or polluted water during loading transportation.			✓	
Waste Management				
Marine Dredged Sediment				
• Relevant licence / permits for disposal of marine dredged sediment are available for inspection.			✓	
• Bottom opening of barges is fitted with tight fitting seals to prevent leakage of material. Excess material is cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.			✓	
• Monitoring of the barging loading is conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels are equipped with automatic self-monitoring devices as specified by the EPD.			✓	
• Transport of dredged marine sediments to the disposal site is by split barge of not less than 750m^3 capacity, well maintained and capable of rapid opening and discharge at the disposal site.			✓	
• Inspection of the barge loading to ensure that loss of material does not take place during transportation.			✓	
Construction and Demolition (C&D) Waste				
• Most of the C&D materials generated from the construction are sorted immediately in-situ to find out if they can be re-used for this job site or for other job sites.			✓	
• Sufficient spaces are identified and provided during the construction stage for the collection, temporary storage and on-site sorting of C&D materials.			✓	
• Proper protective measures, such as fences and tarpaulin, are provided, in order to protective the temporary stockpiled materials for later reuse / recycle.			✓	
• Avoiding cross contamination to reusable and / or recyclable materials collected (e.g. covering the reusable materials)			✓	
• In order to reduce the impacts to the public, except for those sorted inert C&D materials to be reused on site, all other sorted non-inert materials (e.g. general refuse and waste formworks) shall be removed off site as soon as practicable in order to optimise the use of the on-site storage space. If the non-inert materials need to be stored on site for a short period, the materials shall be centralized and stored at specific areas far away the sensitive receivers.			✓	
• All Public Fill arising from the demolition works shall be limited to a size not more than 250mm and free of reinforcement bars, timber, etc. before re-using it.			✓	
• Recyclable materials sorted from the site should be collected by potential recycling contractors under the Contractor's arrangement.			✓	
• Trip ticket system will be implemented to ensure proper waste disposal at public filing and landfills			✓	
• Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.			✓	
• Proper resource planning and calculations before ordering the construction materials to be used will ensure that the wastage of the materials can be minimized			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• Proper storage will minimize the damage and thus the wastage of the materials			✓	
• Training of site personnel in proper waste management procedures. The workers shall be constantly educated for the awareness of the proper handling of waste and to reduce the amount of waste while Site Agent shall be constantly met to discuss the effectiveness of the implementation of the waste management plan. Information to promote the waste management and the reduction concept shall be posted at the site to raise alertness of the personnel concerned.			✓	
• Chemical Waste				
• It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	✓			
• After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	✓			
• Chemical wastes should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	✓			
• Containers used for the storage of chemical wastes				
• Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed	✓			
• Have a capacity of less than 450L unless the specification have been approved by the EPD	✓			
• Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste (General) Regulations and Codes of Practice	✓			
• Labelling	✓			
• Every container of chemical waste would bear an appropriate label, which would contain the particulars details.	✓			
• The waste produced would ensure that the information contained on the label is accurate and sufficient so as to enable proper and safe handling, storage and transport of the chemical waste	✓			
• Storage Area				
• Be clearly labeled and used solely for the storage of chemical waste	✓			
• Be enclosed on at least 3 sides	✓			
• Have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest	✓			
• Have adequate ventilation	✓			
• Be covered to prevent rainfall entering	✓			
• Be arranged so that incompatible materials are adequately separated	✓			
• Be clean and maintain regularly	✓			
• Disposal				
• Be via a licensed waste collector			✓	
• To a licensed disposal facility, such as Chemical Waste Treatment Centre			✓	
• Be a reuser of the waste, under approval from the EPD			✓	

SITE INSPECTION CHECKLIST ON THE IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASRUES

Mitigation Measures on Waste Management	Implementation Stages*			Remark
	Yes	No	N/A	
• **Spillage**				
• Establish source of spill or discharge and determine nature of material, where possible halt discharge			✓	
• Commencing at the source of the spill, establish all current and potential impacted areas			✓	
• Commence containment of spill using bunds made from available materials and ground water cut-off trenches where necessary			✓	
• After spill is contained remove material (including contaminated soil where necessary) using pumps and/or absorbent materials			✓	
• Dispose of materials as chemical wastes			✓	
• General Refuse				
• General refuse generated on-site is in enclosed bins or compaction units separate from construction and chemical waste	✓			
• A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from the construction and chemical waste.	✓			
• General refuse generated is removed on daily or every second day basis to minimise odour, pest and litter impacts	✓			
• Aluminium cans are recovered from the waste stream by individual collectors if they are segregated or easily accessible, so separate, labelled bins for their deposit should be provided if feasible.	✓			
• Office wastes are reduced through recycling of paper if volumes are large enough to warrant collection.	✓			
• Site Practice				
• Good site practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from dropping into the nearby environment. Construction sites should be cleaned on a regular basis.	✓			
• The Contractor assigned worker is responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.			✓	
• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	✓			
• The Environmental Permit should be displaced conspicuously on site	✓			
• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
• Any unused chemicals or those with remaining functional capacity should be recycled.	✓			
• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	✓			
• Suitable collection sites around site offices will be required. For environmental hygiene reasons and to minimize odor, refuse should not be stored for a period exceeding 48 hours, however, removal every 24 hours is preferable.	✓			
• Minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed container.	✓			
• All generators, fuel and oil storage are within bundle areas.	✓			
• Oil leakage from machinery, vehicle and plant is prevented.	✓			
• Chemical storage area, drainage systems, silt traps, sumps and oil interceptors are cleaned and maintained regularly.	✓			

Table for follow-up Action:

Item	Details of defective works or observations	Location	Further action to be taken (Included persons / party to take action)	Expected Date for Action taken
#1	Follow up the site inspection on 18-6-05, the stockpile at "Road L4" was removed.	Road L4	Follow up action was completed no further action to be taken.	N/A
#2	Follow up the site inspection on 18-6-05.	Landscape Node 1	Follow up action was completed. no further action to be taken.	N/A
#3	Follow up the site inspection on 18-6-05. the site runoff still direct discharge into the sea.	SA14	The contract should be adopted any effective treatment process before discharge.	30-6-05
Remark ①	No mitigation measure for controlled release of runoff	Between Node 2 & Node 3	The contract was recommended to provide curtain for working area.	30-6-05

	RSS	LWKJV	ET
Signature:			
Name:	Sunny Yeung		H. T. Chow
Date:	23/6/2005	22/6/05	23-6-2005

Appendix I

Wastewater Monitoring
–
Test Report of Wastewater Sample from Discharge Point

ENVIRO LABS LIMITED

環境化驗有限公司

TEST REPORT

JOB NO.	: A-05173-1A		
DATE OF ISSUE	: 6 Jun 2005	**PAGE**	: 1 of 1

1. Client

Leader – Wai Kee (C&T) Joint Venture
Unit 1001-1005, 10/F., Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Sha Tin, N.T. HK
Attn.: Mr. Ben Yip

2. Sample Identification

Sample Description	:	One set of water sample said to be wastewater
Sampling	:	Conducted by the Enviro Labs Ltd.
Sampling Point	:	Outlet of sedimentation tank at Construction Site of Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A, Pak Shek Kok, N.T. (Contract No. TP 37/03)
Preservation	:	Delivered and stored under refrigerated condition
Sampling Date & Time	:	27 May 2005 10:30
Received Date & Time	:	27 May 2005 12:00

3. Test Method

Parameter	*Reference Method*	*Testing Period*
(I) Total Suspended Solids (TSS) Dried at 103-105°C	APHA[1] 17e 2540 D	27 May 2005

1. APHA Standard Methods for the Examination of Water and Wastewater

4. Test Result*

Sample Label	*Test Parameter*	*Sample No.*	*Test Result*	*Discharge Limit* **	*Unit*
Pak Shek Kok	Total Suspended Solids	505177	9.2	≤30	mg/L

* Test results relate only to the items received.
** Information provided by the client. *(It is not a test result, information for reference only).*

5. Remark

This report supersedes test report job number A-05173-1 dated 30 May 05.

--- END OF REPORT ---

ENVIRO LABS LIMITED 環境化驗有限公司

APPROVED SIGNATORY : Kenneth

Kenneth Lam
(Laboratory Manager)

Rm 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, N.T., Hong Kong
Tel. (852) 2676 2883
Fax (852) 2676 2860
http://www.envirolabs.com.hk
e-mail: ell@envirolabs.com.hk

ENVIRO LABS LIMITED

環境化驗有限公司

TEST REPORT

JOB NO.	: A-05173-2A		
DATE OF ISSUE	: 6 Jun 2005	PAGE	: 1 of 1

1. Client

Leader – Wai Kee (C&T) Joint Venture
Unit 1001-1005, 10/F., Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Sha Tin, N.T., HK
Attn.: Mr. Ben Yip

2. Sample Identification

Sample Description	:	One set of water sample said to be wastewater
Sampling	:	Conducted by the Enviro Labs Ltd.
Sampling Point	:	Outlet of sedimentation tank at Construction Site of Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A, Pak Shek Kok, N.T. (Contract No. TP 37/03)
Preservation	:	Delivered and stored under refrigerated condition COD: conc. H_2SO_4 was added to pH < 2
Sampling Date & Time	:	27 May 2005 10:30
Received Date & Time	:	27 May 2005 12:00

3. Test Method

Parameter	*Reference Method*	*Testing Period*
(i) pH	APHA[1] 20e 4500 H+B	On-site
(ii) Chemical Oxygen Demand (COD)	APHA[1] 20e 5220 C	27 May 2005

1. APHA Standard Methods for the Examination of Water and Wastewater

4. Test Result*

Sample Label	*Test Parameter*	*Sample No.*	*Test Result*	*Discharge Limit* **	*Unit*
Pak Shek Kok	pH at 25 °C	–	7.7	6 – 9	**
	Chemical Oxygen Demand	606178	< 60	≤80	mgO_2/L

* Test results relate only to the items received.
** Information provided by the client. *(It is not a test result, information for reference only).*

5. Remark

This report supersedes test report job number A-05173-2 dated 31 May 05.

ENVIRO LABS LIMITED 環境化驗有限公司

— END OF REPORT —

APPROVED SIGNATORY : _____
Kenneth Lam
(Laboratory Manager)

Rm 611-612, Hong Leong Plaza, 33 Lok Yip Road, Fanling, N.T., Hong Kong
Tel: (852) 2676 2983
Fax: (852) 2676 2860
http://www.envirolabs.com.hk
e-mail: eil@envirolabs.com.hk

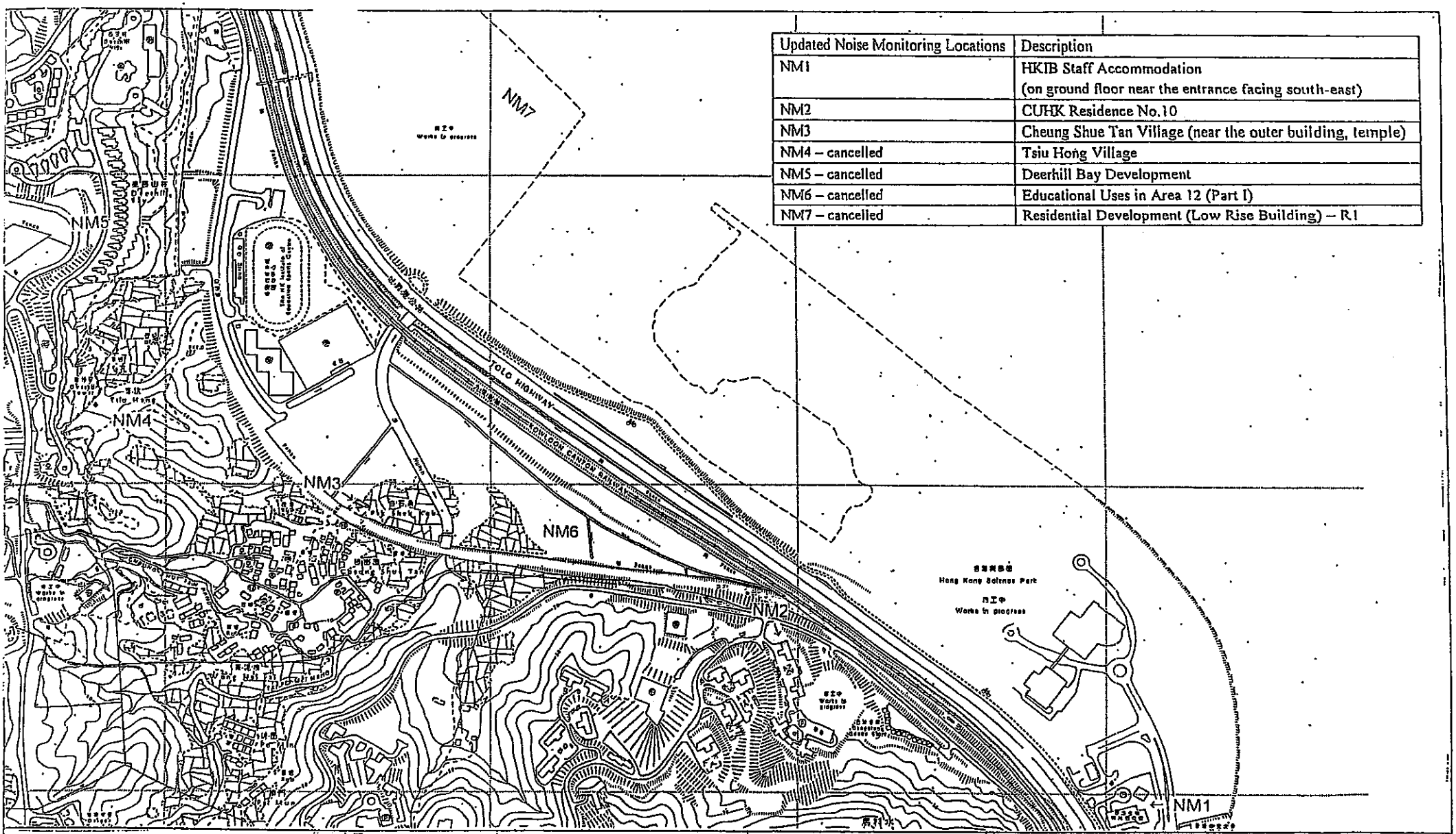
Appendix J

IEC and RE Comments on Monthly EM&A Report
–
May 2005

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

Item No.	Document Reference	Comment	ET Response
1	ES and Section 8	IEC site audit for April was also conducted on 28 April 2005.	Monthly site audit for April was conducted by Engineer's Representative, IEC, LWKJV and ET on 28 April 2005. (ES and Section 8)
2	Section 3	The identified sections and works areas in Table 3.1 should be indicated in the plans. Brief description (e.g. excavation, pipe lying and breaking) of the major construction activities should be provided.	It will be revised and incorporated. (Table 3.1 and Appendix G)
3	Table 4.4 and Appendix B2	Please explain why the power supply was disconnected on 6 May 2005.	The power supply of HVS at AM5 was found disconnected on 06 May 2005 due to short socket.
4	Section 10.1	The EPM referred to in this section is not correct. Please amend.	It will be revised and incorporated. (Section 10.1)
5	Wastewater monitoring	The test report was issued on 6 June 2005 but the result was submitted to EPD on 1 June 2005. Please clarify.	Since some typo errors were found at the test report submitted to EPD on 01 June 2005, the Contractor request the laboratory to revise the test report. The test report had been amended at 06 June 2005 and attached at the EM&A report of the captioned. The amended test report had also been submitted to EPD at 05 July 2005.

Figures



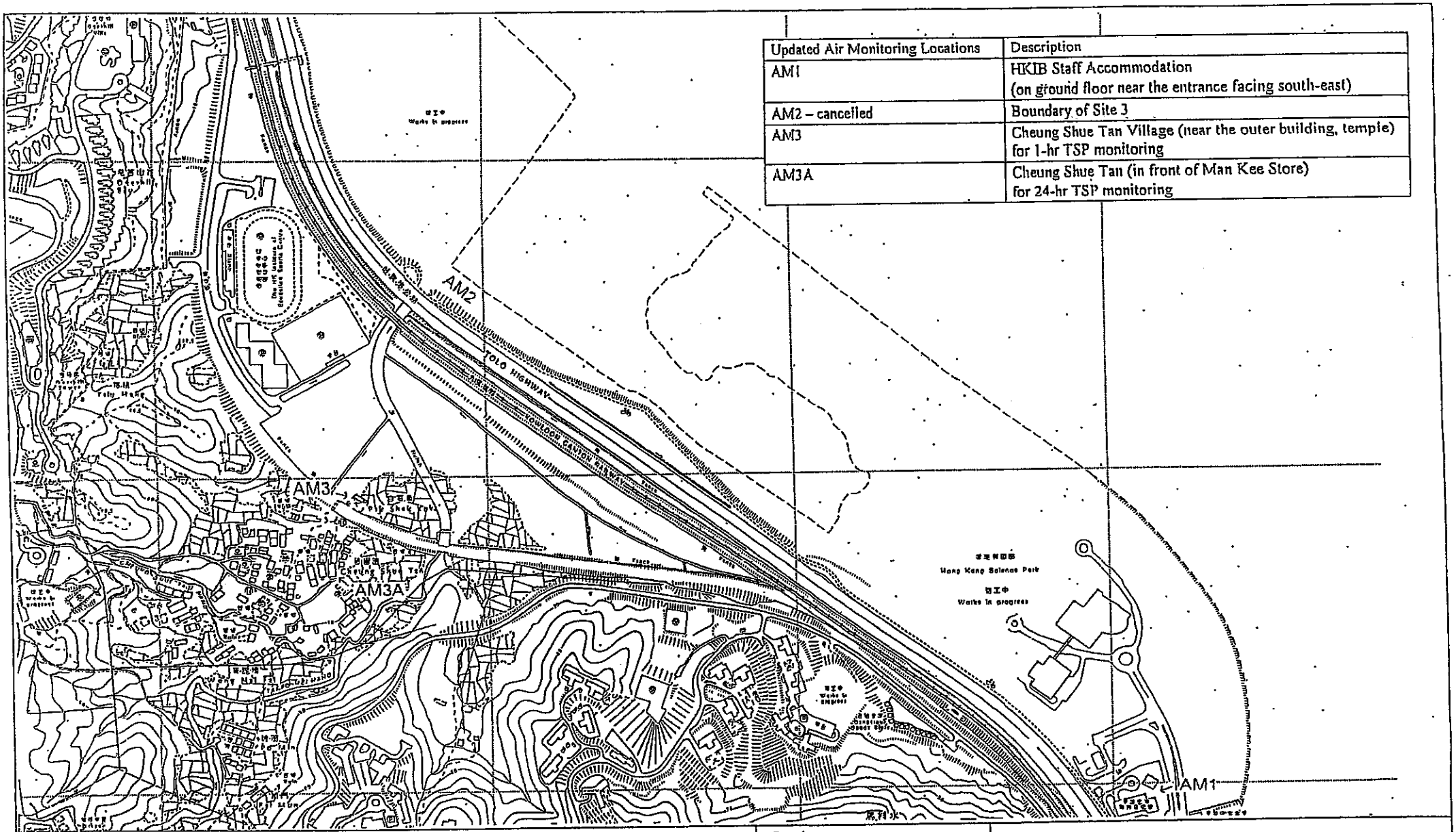
Updated Noise Monitoring Locations	Description
NM1	HKIB Staff Accommodation (on ground floor near the entrance facing south-east)
NM2	CUHK Residence No.10
NM3	Cheung Shue Tan Village (near the outer building, temple)
NM4 – cancelled	Tsiu Hong Village
NM5 – cancelled	Deerhill Bay Development
NM6 – cancelled	Educational Uses in Area 12 (Part I)
NM7 – cancelled	Residential Development (Low Rise Building) – R1

Remaining Engineering Infrastructure Works for
Pak Shek Kok Development Package 2A
Contract No. TP 37/03
Figure 1 Location of Noise Monitoring Stations

Scale : ---

Revised Date:
June 2004

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED



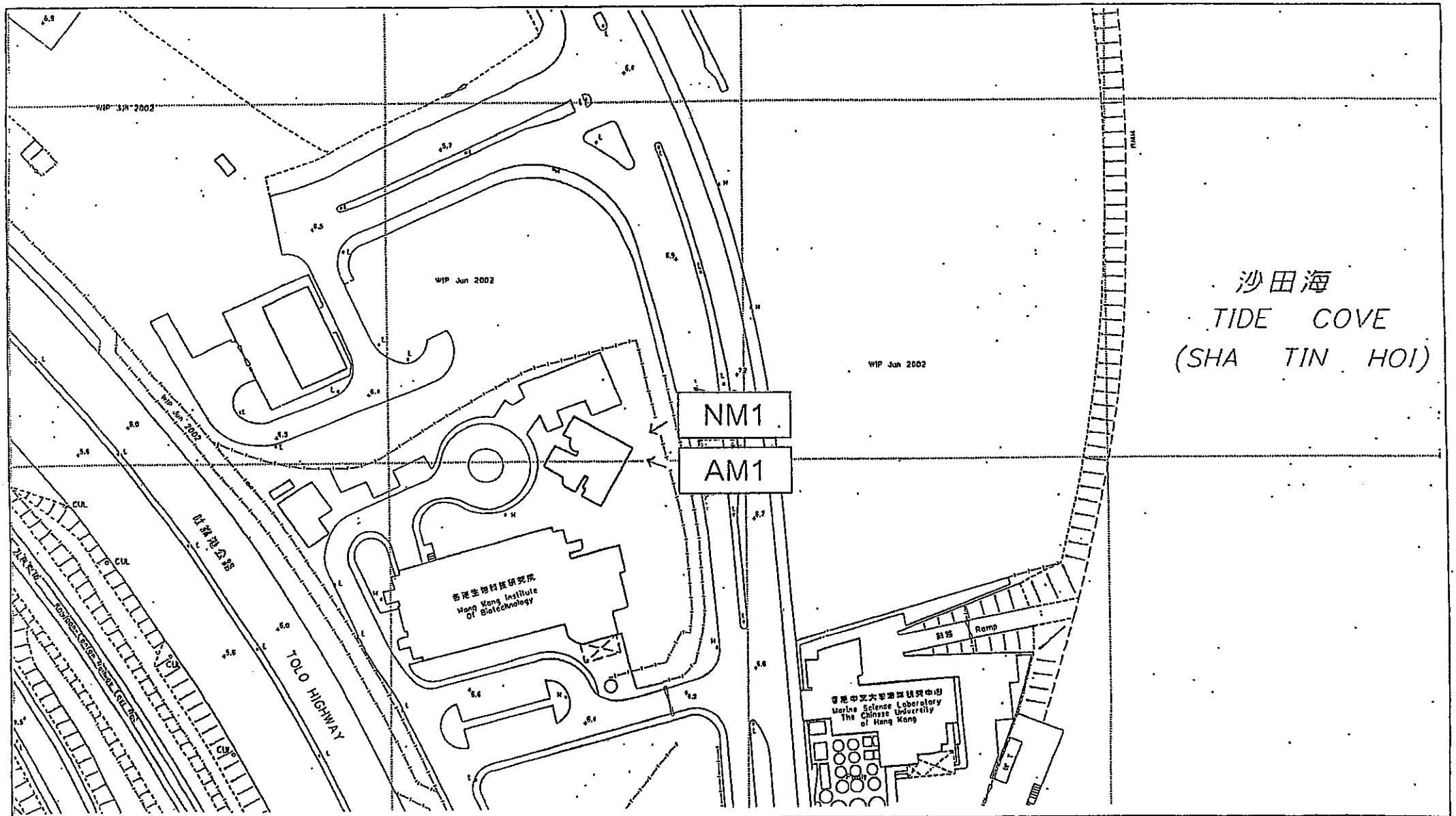
Updated Air Monitoring Locations	Description
AM1	HKIB Staff Accommodation (on ground floor near the entrance facing south-east)
AM2 – cancelled	Boundary of Site 3
AM3	Cheung Shue Tan Village (near the outer building, temple) for 1-hr TSP monitoring
AM3A	Cheung Shue Tan (in front of Man Kee Store) for 24-hr TSP monitoring

Remaining Engineering Infrastructure Works for
Pak Shek Kok Development Package 2 A
Contract No. TP 37/03
Figure 2 Location of Air Monitoring Stations

Scale : ---

Revised Date:
June 2004

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

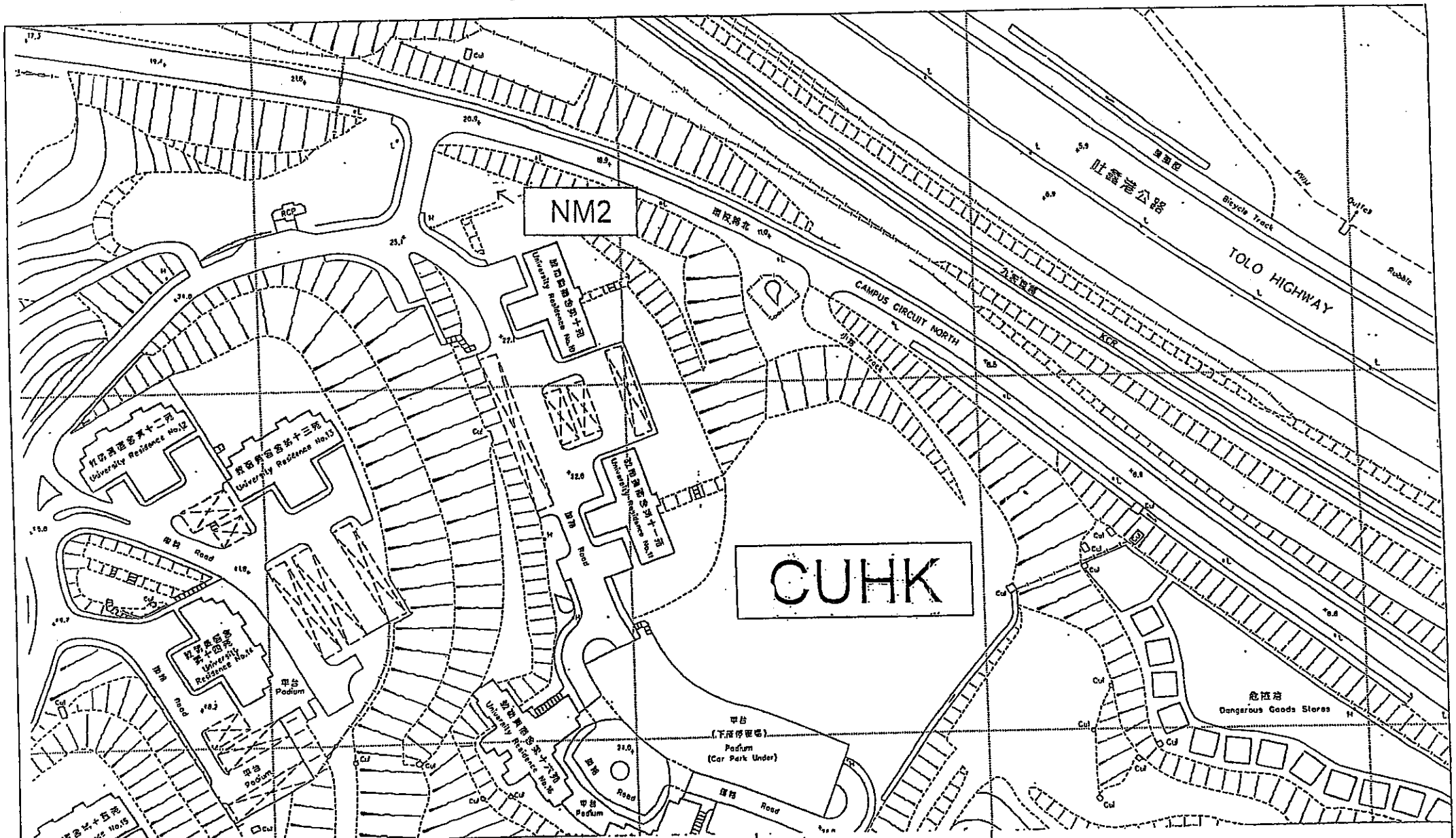


Remaining Engineering Infrastructure Works for
Pak Shek Kok Development Package 2A
Contract No. TP 37/03
Figure 3 Location of Air and Noise Monitoring Stations
at HKIB Staff Accommodation

Scale : ---

Revised Date:
June 2004

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED



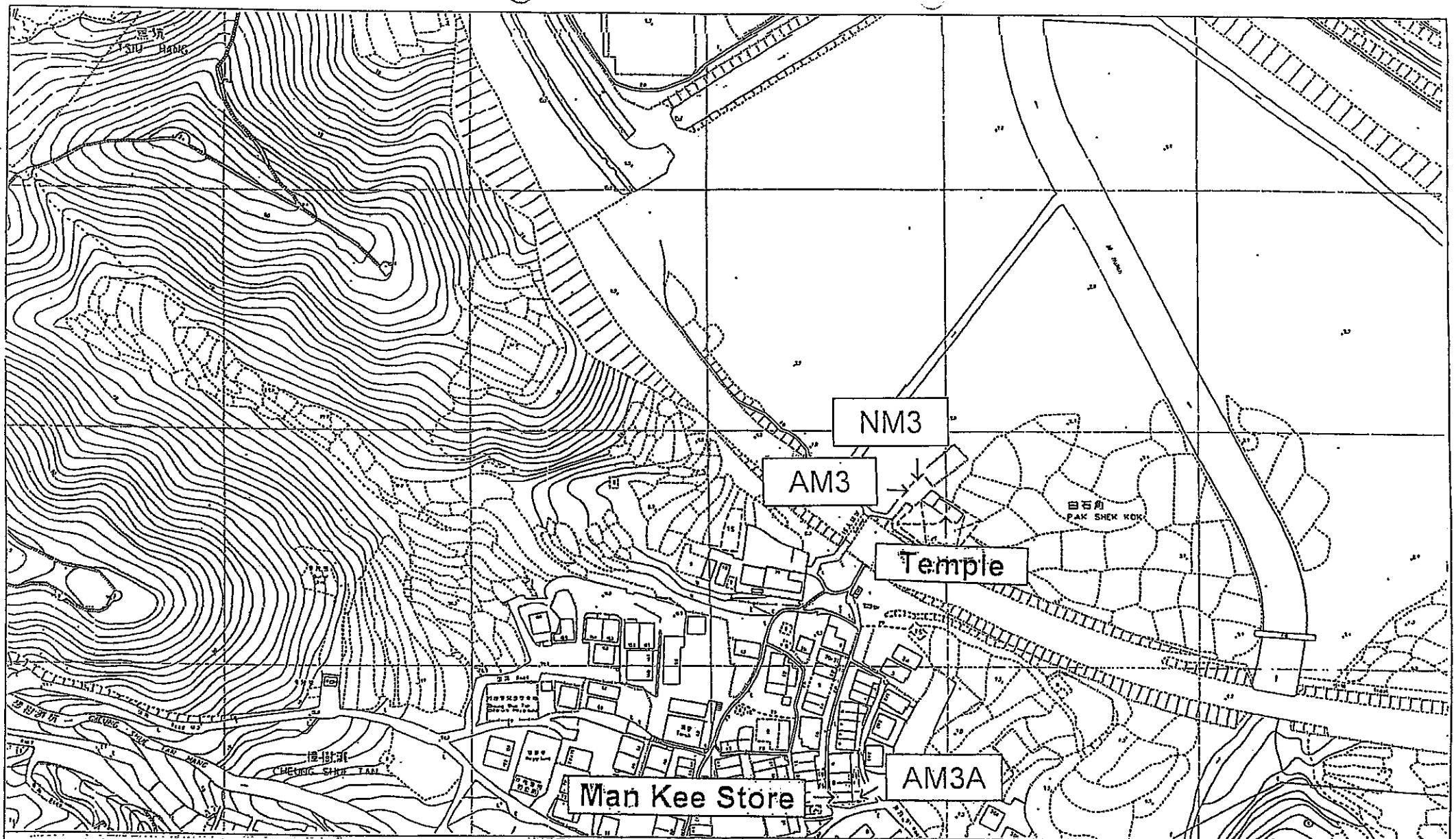
Remaining Engineering Infrastructure Works for
Pak Shek Kok Development Package 2A
Contract No. TP 37/03

Figure 4 Location of Noise Monitoring Station at CUHK Residence No.10

Scale : ---

Revised Date:
June 2004

車業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

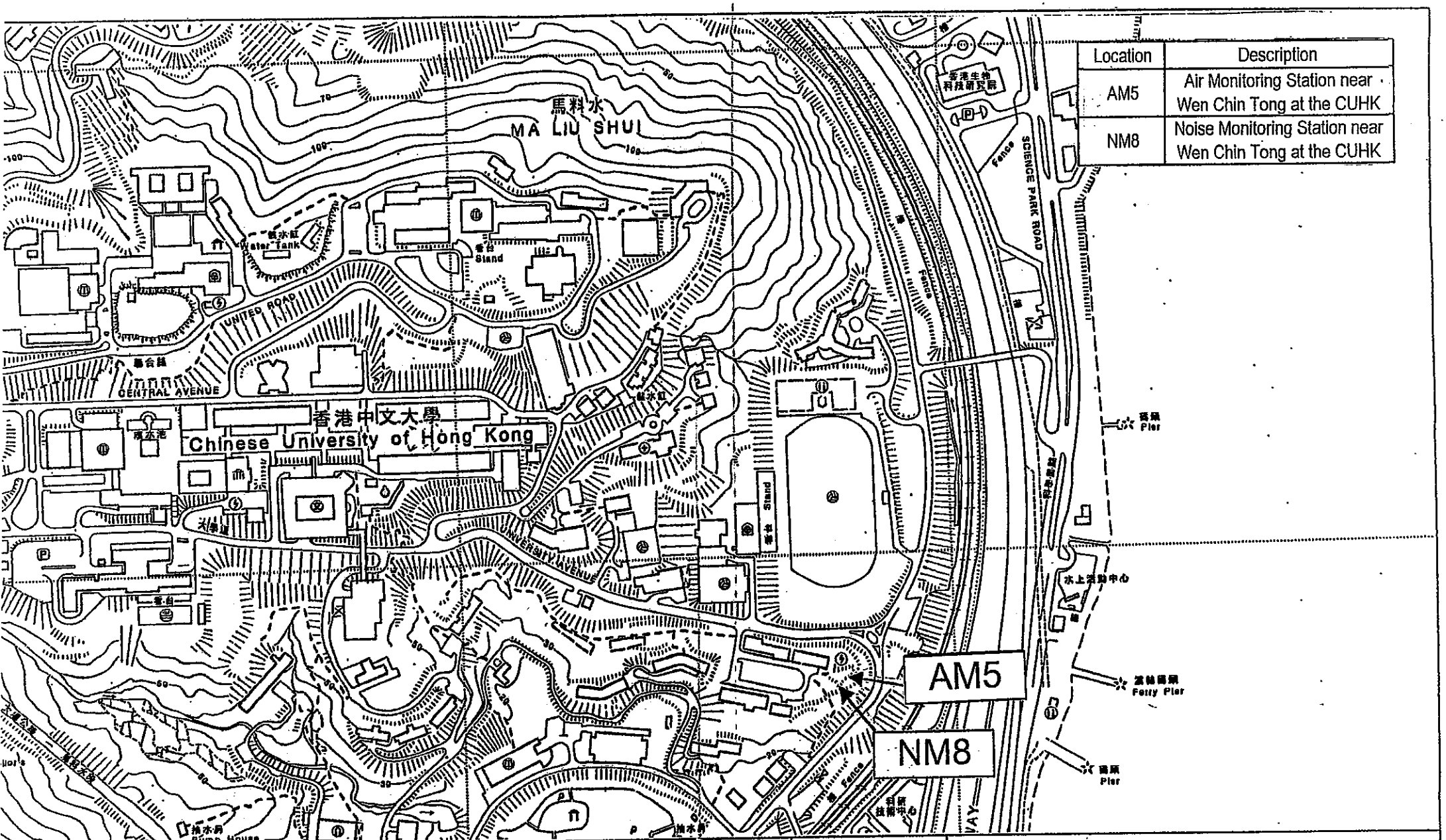


Remaining Engineering Infrastructure Works for
Pak Shek Kok Development Package 2 A
Contract No. TP 37/03
Figure 5 Location of Air and Noise Monitoring Stations
at Cheung Shue Tan Village

Scale : ---

Revised Date:
June 2004

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED



Location	Description
AM5	Air Monitoring Station near Wen Chin Tong at the CUHK
NM8	Noise Monitoring Station near Wen Chin Tong at the CUHK

Remaining Engineering Infrastructure Works for Pak Shek Kok Development
Package 2A Contract No. TP 37/03

Figure 7 Additional Locations of Air and Noise Monitoring Stations at the Chinese University of Hong Kong

Scale : ---

Revised Date : October 2004

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED