Highways Department

Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin

Contract No. HY/2003/10 - Environmental Team for Lai Chi Kok Viaduct and Eagle's Nest Tunnel

Monthly EM&A Report Part II – Eagle's Nest Tunnel & Associated Works (Version 1)

August 2006

Approved By	Changent
	(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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ABBREVIATION AND ACRONYM

AL Levels	Action and Limit Levels		
E / ER	Engineer/Engineer's Representative		
EIA	Environmental Impact Assessment		
EM&A	Environmental Monitoring and Audit		
EMIS	Environmental Mitigation Implementation Schedule		
EP	Environmental Permit		
EPD	Environmental Protection Department		
ET	Environmental Team		
HVS	High Volume Sampler		
IEC	Independent Environmental Checker		
RE	Resident Engineer		
RH	Relative Humidity		
TSP	Total Suspended Particulates		
TDD	Territory Development Department		
QA/QC	Quality Assurance / Quality Control		
SLM	Sound Level Meter		
WMP	Waste Management Plan		

EXECUTIVE SUMMARY

Introduction

- This is the thirty-third monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This report documents the findings of EM&A Works conducted in August 2006 for Contract No. HY/2003/02, Eagle's Nest Tunnel and Associated Works (the Project).
- The major site activities undertaken in the reporting month included soil nailing/ rock dowel, retaining wall, drainage work, road works, cut slope, haul road and noise barrier foundation.

Environmental Monitoring and Audit Works

- Environmental monitoring and audit works for the Project was performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- Summary of events and actions taken in the reporting month is tabulated in Table I.

Table I Summary of Events Recorded in the Reporting Month

Parameter	No. of Events		No. of Events	Action Taken	
1 urumeter	Action Level	Limit Level	Due to the Project	Action Taken	
1-hr TSP	0	0	0	N/A	
24-hr TSP	0	0	0	N/A	
Noise	0	0	0	N/A	

Environmental Licenses and Permits

• Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Registration of Chemical Waste Producer (RCWP), Construction Noise Permits (CNPs) and Water Discharge Licenses (WDLs). One new CNP was issued to the Project by EPD in the reporting month.

Key Information in the Reporting Month

• Summary of key information in this reporting month is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
Event	Number	Nature	ACTION TAKEN	Status	Keinai K
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of submissions under EP	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues:

Major site activities for the coming month include:

- Cut slope and haul road;
- Drainage works;
- Soil nailing/rock dowel;
- Footbridge and toll collector construction;
- Watermains crossing Tai Po Road;
- Concreting of block wall;
- Duct works;
- Louvre & door installation;
- Plumbing & drainage;
- Noise barrier foundation;
- E&M cabling;
- Concreting of staircase and wing wall; and
- Box culvert/open channel & culvert A (railing installation)

The anticipated environmental impacts will be mainly on surface runoff during rainy season, dust from slope work, haul roads and stockpiles, noise impact from soil nailing and rock dowel installation.

1. INTRODUCTION

Background

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who acts as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in August 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 of the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. An Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder and a varied EP No. EP-103/2001/A was subsequently issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder. A varied EP-103/2001/C was recently issued on 22 July 2005.

- 1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 – Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 – Eagle's Nest Tunnel and Associated Works", were commenced on 15th December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-tiled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech Consultants Ltd. was appointed as the ET Leader under Condition 2.2 of the EP. Mr. David YEUNG of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the thirty-third monthly EM&A report summarizing the EM&A works for the Project in August 2006.

Project Organizations

- 1.8 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Major Works Project Management Office (MWPMO) of Highways Department (HyD)
 - Engineer / Engineer's Representative (E/ER) Maunsell-Hyder Joint Venture (MHJV)
 - Environmental Team (ET) Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) CH2M HILL Hong Kong Ltd.
 - Contractor Leighton-Kumagai Joint Venture (LKJV)
- 1.9 The responsibilities of respective parties are detailed in Section 1.8.3 of the EM&A Manual (1999) of the Project.
- 1.10 The key contacts of the Project are shown in **Table 1.1**.

Construction Programme

- 1.11 The site activities undertaken in the reporting month were:
 - Soil nailing, box culvert/open channel (railing installation), retaining wall and watermain works, at Butterfly Valley;
 - Cut Slope, mini-piles and haul road construction at Butterfly Valley;
 - Noise barrier foundation road works and rock dowel at Butterfly Valley;
 - Drainage works at Butterfly Valley, Toll Plaza and SHT-North Portal Building;
 - Utility (Draw pit/Ducting) at Butterfly Valley and Toll Plaza;
 - E&M Cabling and dampers at ENT Tunnel;
 - HV cable trough sand backfilling activities and VE panel at ENT Tunnel;
 - Plastering, painting, rendering and plumbing & drainage a all buildings;
 - Screeding at South Portal Building and North Portal Building;
 - Metal door installation at South Portal Building;
 - Footbridge and Toll Collector construction at Toll Plaza;
 - Louver installation at North Portal Building, Administration Building, Ventilation Building, SHT- South Portal Building and SHT North Portal Building;

- Concreting of wing walls & staircase at Ventilation Building;
- Fire services at Toll Plaza, SHT South Portal Building, SHT North Portal Building and SHT Tunnel & Remaining SHT/T3 Area;
- Concreting of block wall, switch board installation and CLP room at SHT South Portal Building and SHT North Portal Building; and
- Cladding, tunnel ventilation works and duct works at SHT Tunnel & Remaining SHT/T3 Area.

Party	Role	Name	Position	Phone No.	Fax No.
HyD	Permit Holder	Mr. Kroc Leung	SE2/R8K	2762 3662	2714 5198
ПуD	I ermit Holder	Mr. George Law	E4/R8K	2762 3675	2/14 5190
	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649
MHJV		Mr. Peter Poon	CRE	3552 2500	
IVITIJ V	Engineer's Representative	Mr. Eric Wong	RE (S & EP)	3552 2551	2743 9200
	Representative	Ms. Sammie Chan	TO (EN)	3552 2605	
	Environmental Team	Dr. Priscilla Choy	The ET Leader	2151 2089	3107 1388
Cinotech		Ms. Attle Hui	Audit Team Leader	2151 2093	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
CH2M	Independent Environmental Checker	Mr. David Yeung	Independent Environmental Checker	2507 2203	2507 2293
СП2М		Mr. Billy Yu	Assistant Independent Environmental Checker	2872 2949	2307 2293
LKJV	Contractor	Mr. Ray Brewster	Project Director	9092 6128	2743 1600
			Mr. Danny Cheng	QA/E Manager	3552 2113
Enquiries l	Enquiries Hotline			3552 2226	-
Complaint	Complaint Hotline				-

Table 1.1 Key Project Contacts

Summary of EM&A Requirements

- 1.12 The EM&A programme requires construction phase monitoring for air quality and construction noise, and environmental site audit. The EM&A requirements for each parameter are described in the following 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 final report; and
 - Environmental requirements in contract documents.
- 1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 4 of this report.

1.14 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely dust and noise levels and audit works for the Project in the reporting month.

2. AIR QUALITY

Monitoring Requirements

2.1 Monitoring of 1-hour and 24-hour TSP was conducted to monitor the air quality. The established Action/Limit Levels for the environmental monitoring works were shown in **Appendix A**.

Monitoring Locations

2.2 Three designated monitoring stations, AM1, AM3 and AM4 was selected for impact dust monitoring for the Project. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 1a** and **1b**.

Table 2.1 Locations for Air Quality Monitoring

Station	Description	Location
AM1	Yew Chung International School / PLK Choi Kai Yau School	Rooftop
AM3	Slope no. 07SW-D/FR4 near Garden Villa	On Ground
AM4	Government Quarters	Ground Floor ¹

Note: ¹The HVS was installed on the ground floor, which is close to the refuse collection station of the Government Quarters.

Monitoring Equipment

2.3 **Table 2.2** summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix B**.

Table 2.2Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Calibrator	GMW25; S/N: 1536	1
HVS Sampler	Graseby GMW Model GS2310 High Volume TSP Sampler and associated equipment and shelter	3

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period is shown in **Appendix C**.

Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

Instrumentation

2.5 Graseby GMW Model GS2310 TSP High Volume Sampler (HVS) was employed for 1-hour & 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Sections 2.2 – 2.4 of the Updated EM&A Manual (1999).

Operating/Analytical Procedures

- 2.6 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.7 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/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 (G810) were used.
- 2.8 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.9 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.

- 2.10 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 2.11 The shelter lid was closed and secured with the aluminum strip. The timer was then programmed. 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 removed and sent to the laboratory for weighing. The elapsed time was also recorded.
- 2.12 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ± 3 °C; the relative humidity (RH) should be < 50% and not vary by more than $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 2.13 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using GMW-25 Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

- 2.14 All TSP monitoring was conducted as scheduled during the reporting month.
- 2.15 No Action/Limit Level exceedance was recorded for both 1-hour TSP and 24-hour TSP of dust monitoring in the reporting month.
- 2.16 Wind data monitoring equipment has been installed in Shatin Heights for logging wind speed and wind direction. These wind data is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E** and **F**, respectively.

3. NOISE

Monitoring Requirements

- 3.1 Monitoring and audit of construction noise levels is required to be conducted, in accordance with the EM&A Manual, to ensure that any unacceptable noise impacts could be readily detected and timely and appropriate action be undertaken to rectify the situation.
- 3.2 The construction noise levels shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq} (30min) shall be used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. For all other time periods, L_{eq} (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
- 3.3 Three designated noise monitoring stations, namely NM1, NM5 & NM6 were selected for impact monitoring in accordance to the EM&A manual (1999) and the subsequent EPD approval of the relocations.
- 3.4 Noise monitoring is also required to be conducted at station NM7 in accordance with the EM&A Manual (1998). The noise monitoring at the station is required to be conducted under CEDD's construction Contract No. ST 89/02 "Sha Tin Heights Tunnel and Approaches" in accordance with the requirement of Environmental Permit No. EP104/2001/A. The impact noise monitoring results at station NM7 are also presented in this report.
- 3.5 **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.6 Noise monitoring was conducted at four designated monitoring stations as summarized in Table 3.1. Figures 1a & 1b show the locations of these stations.

Monitoring Station	Description	Location
NM1	Yew Chung International School / PKL Choi Kai Yau School	Rooftop
NM5	Villa Carlton	Ground Floor ¹
NM6	Government Quarters	Rooftop of Refuse Collection Station
NM7	Garden Villa	Rooftop

Table 3.1 Noise Monitoring Stations

Note: ¹ The noise measurement was taken at 2.3m above the ground floor of Villa Carlton, where has a line of sight of the construction site in the opposite.

Monitoring Equipment

3.7 Table 3.2 summarizes the noise monitoring equipment model being used. Copies of calibration certificates are attached in **Appendix B**.

Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	B&K Model 2238	5
Calibrator	B&K 4231	2
Wind Speed Anemometer	RS232 Integral Vane Digital Anemometer	1

Monitoring Parameters, Frequency and Duration

3.8 Table 3.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix C**.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Station	Parameter	Period ¹	Frequency	Measurement
NM1		(a) 0700 1000 hrs. on weakdows		Façade
NM5	$L_{10}(30 \text{ min.})dB(A)$ $L_{90}(30 \text{ min.})dB(A)$ $L_{eq}(30 \text{ min.})dB(A)$	 (a) 0700-1900 hrs. on weekdays (b) 1900-2300 hrs. on weekdays (c) 0700-2300 hrs. on holidays (d) 2300-0700 hrs on any days 	Once per week	Façade
NM6				Free Field
NM7	-	(d) 2500-0700 firs on any days		Façade

Note: ¹(b), (c) and (d) will only be conducted if construction works are undertaken during these periods.

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was generally set on a tripod at a height of 1.2 m above the ground, depending to the actual monitoring condition.
- For free field measurement (if any), the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- 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 : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.

- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

3.9 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly. The meters were sent to the supplier to check and calibrate on a yearly interval.

Results and Observations

- 3.10 Noise monitoring was performed at the four designated locations during the daytime period (0700-1900 hours) as scheduled in this reporting month. Restricted-hour monitoring was also conducted at NM5, NM6 and NM7.
- 3.11 All the Construction Noise Levels (CNLs), except the monitoring (0700-1900 on weekdays) at NM1 and NM6, reported in this report were adjusted with the corresponding baseline level, in order to facilitate the interpretation of the noise exceedance.
- 3.12 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.13 No Action/Limit Level exceedance for noise monitoring was recorded in the reporting month.

4. ENVIRONMENTAL AUDIT

Site Audits

- 4.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 4.2 Site audits were conducted on 2nd, 7th, 16th, 23rd and 30th August 2006 by ET. The audit session on 7th August 2006 was conducted with the representatives of HyD, IEC, ER, the Contractor and ET.

Review of Environmental Monitoring Procedures

4.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

4.4 All permits/licenses obtained for the Project are summarized in **Table 4.1**. One new CNP was issued to the Project by EPD in the reporting month.

Implementation Status of Environmental Mitigation Measures

4.5 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the EMIS is provided in **Appendix K**.

Permit No.	Valid	Period	Details	Status
I crimit 100.	From	То		
Environmental Permit	(EP)			
EP-103/2001/C	22/07/05	N/A	<u>Construction and operation of</u> (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; I The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
Registration of Chemica	al Waste Pro	oducer		
WPN 5213-761-L2595- 01	26/01/04	N/A	N/A	Valid
Water Discharge Licen	ce			
EP482/261/0327/I	03/05/04	31/05/09	Discharge of industrial trade effluent and effluent arising from construction activities at the construction site at Ventilation Adit on Tai Po Road (behind Shell Filling Station) opposite Pinehill Development Highways.	Valid
EP482/261/0326/I	01/04/04	30/04/09	Discharge of industrial trade effluent and effluent arising from construction activities at the construction site at Mui Kong Tsuen, Butterfly Valley, Lai Chi Kok, Kowloon.	Valid
No. 3156	23/02/04	22/02/09	Discharge of industrial trade effluent and all other wastewater arising from the works areas at North Portal of Route 9 – Eagle's Nest Tunnel and Associated Works (Contract HY/2003/02).	Valid
Construction Noise Per	mit (CNP)			
GW-RN0143-06	3/4/06	2/10/06	<i>Location:</i> ENT South Portal Site at Butterfly Valley <i>Time period:</i> any day between 2300 and 0700 on next day	Valid
GW-RN0150-06	4/04/06	3/10/06	<i>Location:</i> ENT Tunnel North Portal Site near Garden Villa <i>Time period:</i> Any day not being a general holiday including Sundays between 1900 and 2300	Valid
GW-RN0151-06	3/4/06	2/10/06	<i>Location:</i> ENT North Portal Site near Garden Villa <i>Time period</i> : Any day between 2300 and 0700 on next day	Valid
GW-RW0178-06	8/4/06	7/10/06	<i>Location: Butterfly Valley</i> <i>Time period:</i> General holiday (including Sundays) between 0700 and 2300 and any day not being a general holiday between 1900 and 2300	Valid

Table 4.1 Summary of Environmental Licensing and Permit Status

Permit No.	Valid	Period	Details		
rernit No.	From	То	Details	Status	
GW-RN0222-06	11/5/06	10/11/06	<i>Location:</i> Toll Plaza Administration Building <i>Time period:</i> Normal weekdays between 1900 and 2300 and general holidays included Sunday between 0900 and 2300	Valid	
GW-RN0226-06	11/5/06	10/11/06	<i>Location:</i> South Portal <i>Time period:</i> Normal weekdays between 1900 and 2300 and general holidays included Sunday between 0900 and 2300	Valid	
GW-RN0281-06	8/6/06	7/12/06	Location: Tunnel North Portal near Tai Po Road and Keng Hau Road Time period: Any day between 2300 and 0700 on next day.	Valid	
GW-RN0282-06	8/6/06	7/12/06	<i>Location:</i> Tunnel South Portal near Garden Villa <i>Time period:</i> Any day between 2300 and 0700 on next day.	Valid	
GW-RN0283-06	8/6/06	7/12/06	<i>Location:</i> Tunnel South Portal near Garden Villa <i>Time period:</i> General holiday including Sundays between 0900 and 2300 and any day not being a general holiday including Sundays between 1900 and 2300.	Valid	
GW-RN0284-06	8/6/06	7/12/06	Location: Tunnel North Portal near Tai Po Road and Keng Hau Road Time period: General holiday including Sundays between 0900 and 2300 and any day not being a general holiday including Sundays between 1900 and 2300.	Valid	
GW-RW0392-06	6/8/06	5/2/07	<i>Location:</i> Tai Po Road Shell Petrol Filling Station and opposite to Villa Carlton <i>Time Period:</i> General holidays including Sundays between 0700-2300 and any day not being a general holiday between 1900-2300	Valid	
GW-RW0422-06	4/8/06	3/2/07	<i>Location:</i> Butterfly Valley <i>Time Period:</i> General holidays including Sundays between 0700-2300 and any day not being a general holiday between 1900-2300	Valid (new)	

- 4.6 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 4.2**.
- 4.7 Spot checking of truck overloading was also conducted during the environmental audits since June 2006. No overloading incident was observed during site inspection.

Summary of Exceedances

1-hr and 24-hr TSP Monitoring

4.8 No Action/Limit Level exceedance for both 1-hour TSP and 24-hour TSP was recorded in the reporting month.

Construction noise

4.9 No Action/Limit Level exceedance for noise monitoring was recorded in the reporting month.

Table 4.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations / Recommendations	Remedial Actions
Water Quality	7-Aug-06	Accumulation of silt was observed at the area near by all Aquased System, at Toll Plaza. The Contractor was reminded to remove silt regularly and to maintain the efficiency of the sedimentation system.	Rectification / improvement was observed during the site inspection on 16 August 06.
	7-Aug-06	Stagnant water was observed at the area near to Storage Area of Toll Plaza. The Contractor was reminded to remove/spray larvicide onto the stagnant water preventing mosquitoes from breeding.	Rectification / improvement was observed during the site inspection on 16 August 06.
	16-Aug-06	Stagnant water was observed on the ground floor of S.H.T. South Portal Building. The Contractor was reminded to remove/spray larvicide onto the stagnant water preventing mosquitoes from breeding.	Rectification / improvement was observed during the site inspection on 23 August 06.
Waste/Chemical Management	7-Aug-06	General refuses were scattered on the ground at the area of Storage Area, at Toll Plaza. The Contractor was reminded to clean up the refuses and keep site area tidiness.	Rectification / improvement was observed during the site inspection on 16 August 06.
	23-Aug-06	Some domestic waste was observed on bared ground at south portal building. It should be cleaned up and placed in suitable receptacle.	Rectification / improvement was observed during the site inspection on 30 August 06.

Implementation Status of Event Action Plans

4.10 The Event Action Plans for air quality and noise are presented in Appendix J.

Summary of Complaints and Prosecutions

- 4.11 No environmental related complaint or prosecution was received in the reporting month.
- 4.12 There were 22 environmental complaints and no prosecution received since the commencement of the Project. The updated Complaint Log is shown in **Appendix M**.

5. FUTURE KEY ISSUES

Key Issues for the Coming Month

- 5.1 Key issues to be considered in the coming months include:
 - Surface runoff at works area during rainy season;
 - Potential dust emission from slope works and haul road construction at Butterfly Valley, soil nailing and vehicle movement on haul roads;
 - Noise generation from concreting and installation works at South Portal Building and Ventilation Building; and
 - Accumulation of standing water after heavy rainfall.

Monitoring Schedule for the Next Month

5.2 The tentative environmental monitoring schedule for next month is shown in **Appendix C**.

Construction Program for the Next Month

5.3 The tentative construction program for the Project is provided in **Appendix L**. The major construction activities in the coming months include:

ENT Tunnel

• HV cable trough sand backfilling activities, VE Panel, E&M cabling and dampers.

Butterfly Valley

• Cut slope and haul road, box culvert/ open channel & Culver A (railing installation), soil nailing/rock dowel, drainage works, DN200 & DN200 twin water-main, noise barrier foundation, utility (Draw pit/ Ducting) and road works.

South Portal Building

• Louvre installation, rendering, screeding, plumbing and drainage.

North Portal Building

• Louvre installation, plastering, painting, rendering, plumbing and drainage.

Toll Plaza's Structures and Administration Building

• Footbridge and Tool Collector construction, utility (draw pit/ ducting), drainage works, louvre, curtain wall & door installation, plastering, rendering, Mechanical Ventilation Air Condition, plumbing & drainage and fire services.

Ventilation Adit Tunnel and Building

• Concreting of wing wall, louvre door wall & cladding installation, plastering, painting, rendering and watermains crossing Tai Po Road.

Other Works Areas

• E&M installation works within SHT/T3 works area.

6. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 6.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 6.2 No Action/Limit Level exceedance for 1-hour TSP and 24-hours TSP was recorded in the reporting month.
- 6.3 No Action/Limit Level exceedance for noise monitoring was recorded in the reporting month.
- 6.4 No environmental complaint or prosecution was received in the reporting month.

Recommendations

6.5 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Impact

- To review and implement temporary drainage system especially for the areas at Butterfly Valley and Toll Plaza.
- To closely monitor the capacity of existing de-silting facility on site, especially for the discharge at the site in Butterfly Valley and Toll Plaza.
- To keep the sedimentation facilities well maintained and perform de-silting regularly.
- To avoid accumulation of stagnant water on site.

Dust Impact

- To ensure that adequate water spray or other dust suppression measures are applied for slope cutting and the haul roads and stockpile on site.
- To cover idle soil slope surface and stockpile of dusty materials to prevent wind erosion.
- To ensure that all vehicles carrying dusty materials are properly covered before leaving the site.

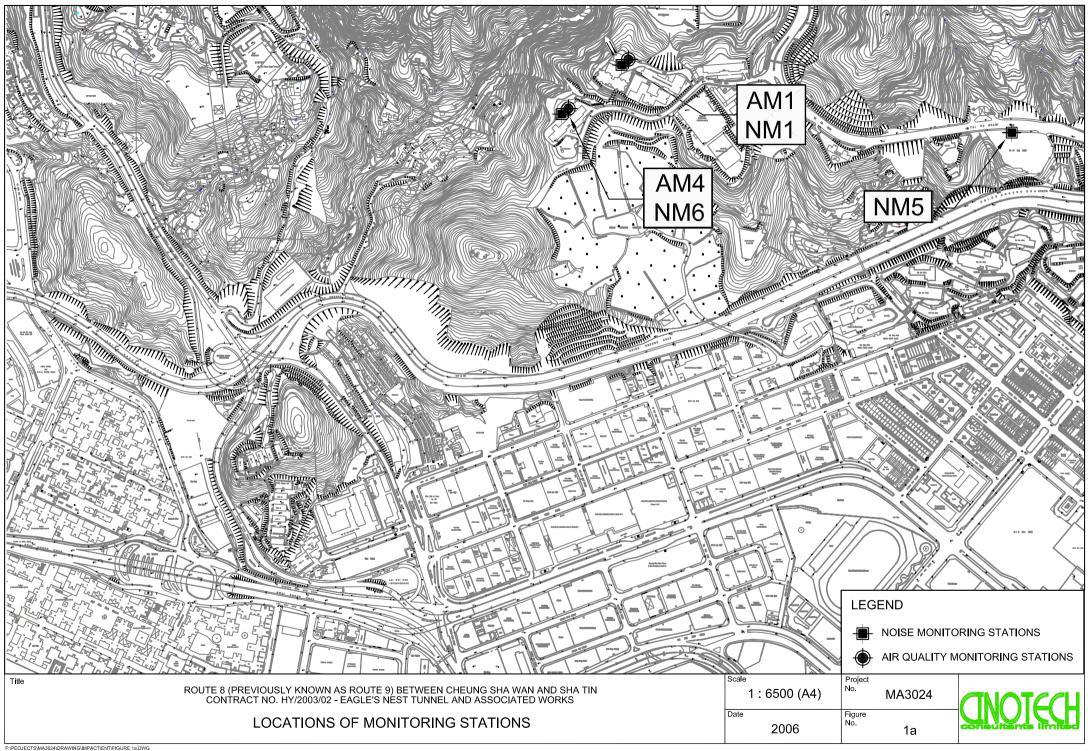
Noise Impact

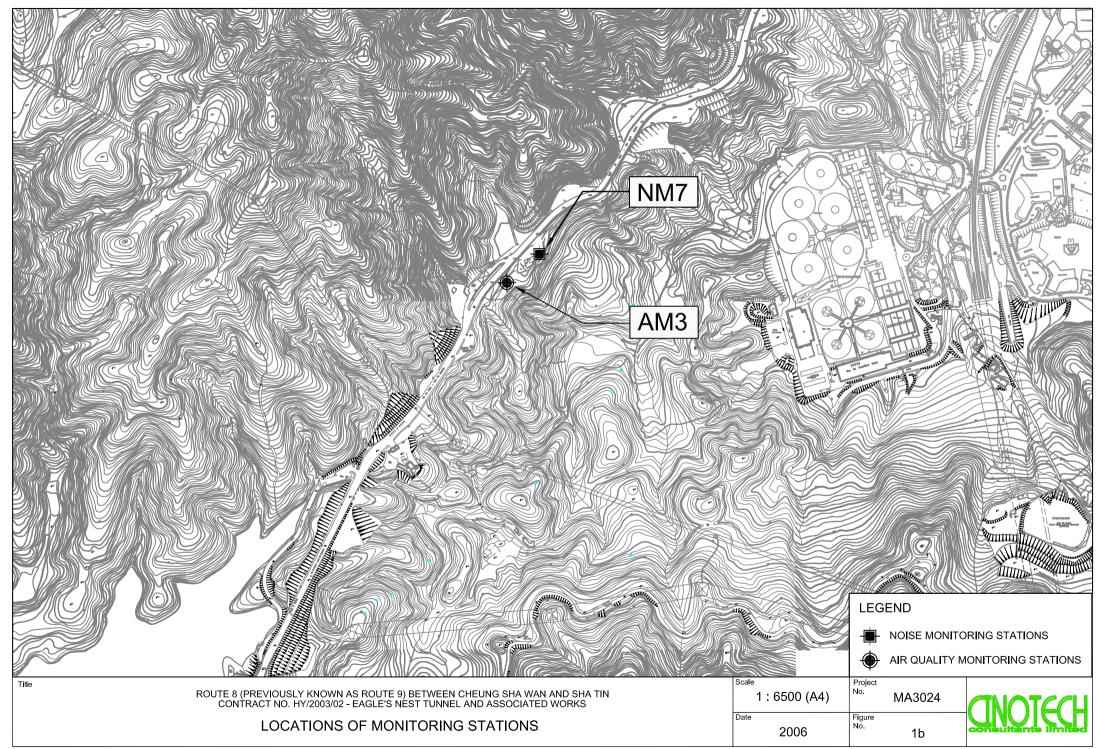
- To provide temporary noise barriers for noisy activities (such as breaking works).
- To reduce the number of noisy equipment in concurrent operation.

Waste/Chemical Management

- To ensure proper storage of chemical and chemical waste on site.
- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly.

FIGURES





APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels (ENT)

1-Hour TSP

Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM1	296	
AM3	350	500
AM4	294	

24-Hour TSP

Location Action Level, μg/m ³		Limit Level, µg/m ³
AM1	168	
AM3	200	260
AM4	170	

Construction Noise

Period	Action Level	Limit Level, dB(A)				
1 er ioù	for all stations	NM1	NM5	NM6	NM7	
0700-1900 hrs on normal weekdays		70/65*	75	75	75	
0700-2300 hrs on holidays & 1900- 2300 hrs on all other days	When one documented complaint is received	-	70	65	60	
2300-0700 hrs of next day		-	55	50	45	

(*) Since NM1 is an educational institution, the noise Limit Level (0700-1900 hrs on normal days) is taken as 70 dB(A). The Limit Level will be reduced to 65 dB(A) during school examination periods.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES



File No. MA3024/18/0018

Station	Po Leung Kuk Choi Kai Yau School	Operator:	WK
Date:	20-Jul-06	Next Due Date:	19-Sep-06
Equipment No .:	A-01-18	Serial No.	0723

Ambient Condition					
Temperature, Ta (K)	302.9	Pressure, Pa (mmHg)	757		

Orifice Transfer Standard Information							
Equipment No.: A-04-04 Slope, mc 0.0575 Intercept, bc 0.0395							
Last Calibration Date:	Last Calibration Date: 13-Mar-06 $mc x Qstd + bc = [\Delta H x (Pa/760) x (298/Ta)]^{1/2}$						
Next Calibration Date: 12-Mar-07 $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$							

.

Orfice HVS							
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$		
1 13.0		3.57	61.39	7.5	2.71		
2	10.7	. 3.24	55.63	6.1	2.44		
3	8.6	2.90	49.80	5.0	2.21		
4	5.4	2.30	39.32	3.0	1.71		
5	3.0	1.71	29.13	2.0	1.40		
	coefficient* =	0.9972	Intercept, bw	.154	5		
Correlation	coefficient* =	0.9972), check and recalibrate.		· <u>0.154</u>	5		
Correlation (*If Correlation (coefficient* = Coefficient < 0.990	0.9972), check and recalibrate. Set Point (Intercept, bw - Calculation	· <u>0.154</u>	5		
Correlation (*If Correlation (From the TSP F	coefficient* = Coefficient < 0.990	0.9972 D, check and recalibrate. Set Point (urve, take Qstd = 43 CFM		· <u>0.154</u>	5		
Correlation (*If Correlation (From the TSP F	coefficient* = Coefficient < 0.990	0.9972), check and recalibrate. Set Point (:0.154	5		
Correlation (*If Correlation (From the TSP F	coefficient* = Coefficient < 0.990	0.9972 D, check and recalibrate. Set Point (urve, take Qstd = 43 CFM	Calculation		5		

Remarks:					
Conducted by: Checked by:	Wk. Tang	Signature: Signature:	- Kwai 	Date: Date:	20 17/06 20 July 06



		5-POIN	NT CALIBRA	TION DATA	A SHEET		
	_			0	11/12		MA3024/17/0020
	Government Quarter				WK		-
Date:	20-Jul-06				19-Sep- 3460		_
Equipment No.: A-01-17				Serial No.	3460		_
			Ambient	Condition			
Temperatur	re, Ta (K)	302.9	Pressure, P	a (mmHg)		757	
		-					
- ·			ifice Transfer St	1			0.0395
Equipme		A-04-04	Slope, mc	0.0575	$Intercept$ $bc = [\Delta H x (Pa/76)]$		
Last Calibra		13-Mar-06			х (Pa/760) х (298		
Next Calibra	ation Date:	12-Mar-07		$Qsta = \{ \Delta H \}$	x (Pa/700) x (298)	[[a]] -DC	
			Calibration o	of TSP Sampler		distance.	
		Or				HVS	
Calibration Point	ΔH (orifice), in. of water		0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	[ΔW x (Pa	/760) x (298/Ta)] ^{1/2} Y- axis
1	12.6	3	5.51	60.42	7.2		2.66
2	10.7	3.24		55.63	6.4		2.50
3	8.1	2.82		48.31	5.1		2.24
4	4.3	2.05		35.01	3.0		1.71
5	3.2	1	.77	30.11	2.1		1.43
By Linear Regr Slope , mw =	ession of Y on X 0.0398			Intercept, bw	· 0.281	7	
Correlation c		- 0.9	974				
*If Correlation C	Coefficient < 0.99	0, check and reca	alibrate.				
			Set Point	Calculation			
From the TSP Fi	ield Calibration C	urve, take Qstd =	= 43 CFM				
From the Regres	sion Equation, the	e "Y" value acco	rding to				
_					200/m->1/2		
		mw x ($Qstd + bw = [\Delta W]$	/ x (Pa/760) x (2	298/Ta)]		
Therefore, Se	et Point; W = (m	w x Qstd + bw $)^2$	x (760 / Pa) x ((Ta / 298) =	4.06		_
Remarks:							
Conducted by:	When Tann	Signature:	(Kw	m ²		Date:	2017/00
Checked by:		Signature:	0		-	Date:	2017/00 20 July 06
	<u> </u>	0			-		
			\smile				



		5-POI	NT CALIBRA	TION DATA	A SHEET		
				_			2027/A14/0018
Station	Garden Vilia				WK		
Date:	7-Jun-06	ľ			6-Aug-		
Equipment No.: A-01-14			Serial No.	1354			
			Ambient	Condition			
Temperatu	rre. Ta (K)	302.2	Pressure, Pa			755.8	
			110000000,10	(1111119)	1	10210	
		O	ifice Transfer St:	andard Inform	nation		
Equipm	ent No.:	A-04-04	Slope, mc	0.0575	Intercept	t, bc	0.0395
Last Calibr		13-Mar-06		and the second se	$bc = [\Delta H \times (Pa/76)]$		
Next Calibr		12-Mar-07			x (Pa/760) x (298		
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	[ΔW x (Pa/760) x ax	
1	12.1	3	3.44	59.22	7.4	2.6	i9
2	- 9.7		3.08	52.95	5.6	2.3	
3	7.3		2.68	45.84	4.2	2.0	
4	5.2	2	2.26	38.59	2.9	1.6	i9
5	3.1	1	1.74		1.9	1.3	7
Correlation c *If Correlation C	-	0.9 90, check and reca	972 llibrate.	-			
From the TSP F	ield Calibration (Curve, take Qstd =	Set Point C = 43 CFM	alculation			
		ie "Y" value accor					
			C				
		mw x Q	$2std + bw = [\Delta W]$	x (Pa/760) x (2	$(98/Ta)]^{1/2}$		
Therefore, S	et Point; W = (m	1 w x Qstd + bw) ²	x (760/Pa)x (7	Fa / 298) =	3.77		
							~
Remarks:							
Conducted by: Checked by:	and the second se	Signature: Signature:	- Chave	5		Date: 7 Date: 7	Jun ob June o (
			\sim				

F:\Equipment\Calibration\HVS\A-01-14\20060607



Date:	arden Vilia 7-Aug-06					FILE INO.	MA2027/A14/0	
Date:				Operator:				310
						5-Oct-06		
	uipment No.: A-01-14					1354		
			-					
			Ambient	Condition				
Temperature,	Ta (K)	301.5	Pressure, Pa	(mmHg)		755.5		
		0	.: Cas Tuanafan Sta	and and Inform				
Equipment	No ·	A-04-04	Slope, mc	0.0575	Intercept	t hc	0.0395	
Last Calibratio		13-Mar-06	510pc, 111c		$bc = [\Delta H x (Pa/76)]$			
Next Calibrati		12-Mar-07			x (Pa/760) x (298			
							-	
			Calibration of	TSP Sampler				
Calibration		Or	fice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	[∆W x (Pa/76	50) x (298/Ta)] ^{1/2} axis	Y-
1	12.3		3.48	59.77	7.8		2.77	
2	10.0		3.13	53.83	6.5		2.53	
3	7.5		2.71	46.52	4.3	2.06		
4	5.1		2.24	38.24	3.1	1.75		
5	3.2		1.77	30.15	2.0		1.40	
*If Correlation Cos From the TSP Field From the Regressio	d Calibration C on Equation, the	urve, take Qstd = e "Y" value acco mw x (Set Point C = 43 CFM rding to Qstd + bw = [ΔW	x (Pa/760) x (2				
I nereiore, Set :	Point; w = (m	w x Qsta + bw)	² x (760 / Pa) x (′		3.90			
Remarks:								
_								
	sk. Tang	Signature: Signature:	tua:			Date: _	7/8/06 7 August	

F:\Equipment\Calibration\HVS\A-01-14\20060807

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

	3 On Yiu Street, Shatin, N.T.	Date Received: Date Tested: Date Completed:	2006-05-01 2006-05-01 2006-05-02
APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/06/60502
	1602-1610 Delta House,	Date of Issue:	2006-05-02

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

	Description	: RS232 Integral Vane Digital Anemometer	
	Manufacturer	: AZ Instrument	
	Model No.	: 451104	
	Serial No.	: 9020746	
	Equipment No.	: A-03-01	
est con	ditions:		
	D Transford	. 01 James Calaina	

Te

Room Temperature **Relative Humidity** Pressure

: 21 degree Celsius : 66% : 1018.4 kPa

Methodology:

The anemometer has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patriele

PATRICK TSE Laboratory Manager

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TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

	ORIFICE 7	TRANSFER STAN	NDARD CERT	IFICATION	WORKSHEET I	E-5025A
		6 Rootsmeter Orifice I.I		833620 [.] 0993	Ta (K) - Pa (mm) -	294 746.76
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00 1.00	1.3890 0.9850 0.8810 0.8410 0.6950	3.2 6.3 7.8 8.6 12.5	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9917 0.9876 0.9854 0.9844 0.9792	0.7139 1.0026 1.1185 1.1706 1.4090	1.4113 1.9959 2.2315 2.3405 2.8227		0.9957 0.9916 0.9894 0.9884 0.9832	0.7168 1.0067 1.1231 1.1753 1.4147	0.8874 1.2549 1.4030 1.4715 1.7747
Qstd slo intercep coeffici	t (b) =	2.03154 -0.03970 0.99999		Qa slop intercep coeffici	ot (b) =	1.27212 -0.02496 0.99999
y axis =	SQRT [H20 (I	Pa/760) (298/	Ťa)]	y axis =	SQRT [H20 (1	[a/Pa)]

CALCULATIONS

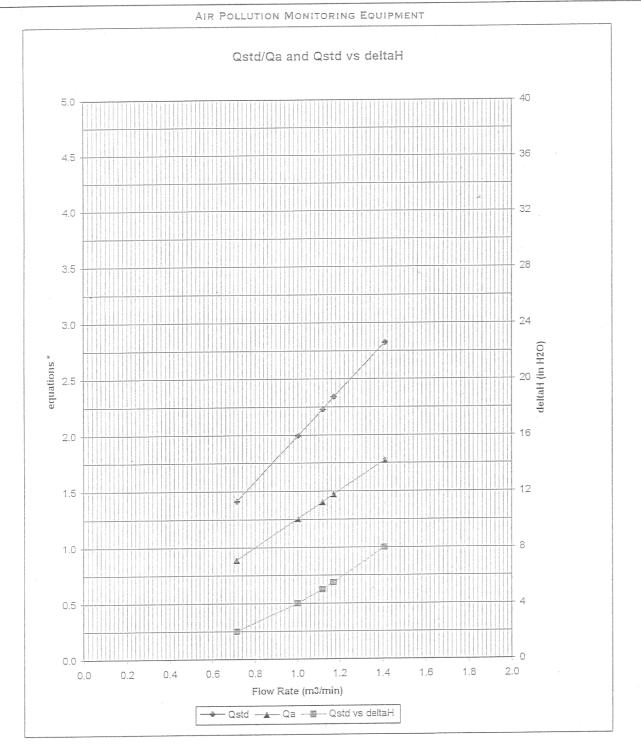
Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$.

TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM



* y-axis equations:
Qstd series:
$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$

Qa series: $\sqrt{(\Delta H (Ta / Pa))}$

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/51216/1
	1602-1610 Delta House,	Date of Issue:	2005-12-16
	3 On Yiu Street,	Date Received:	2005-12-15
	Shatin, N.T.	Date Tested:	2005-12-15
		Date Completed:	2005-12-16
		Next Due Date:	2006-12-15

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2337665 : 2289749 : N-01-01

Page:

1 of 1

Test conditions:

Room Temperatre Relative Humidity : 20 degree Celsius : 63%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/51116/1
	1602-1610 Delta House,	Date of Issue:	2005-11-16
	3 On Yiu Street,	Date Received:	2005-11-15
	Shatin, N.T.	Date Tested:	2005-11-15
		Date Completed:	2005-11-16
		Next Due Date:	2006-11-15

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337666
Microphone No.	: 2289750
Equipment No.	: N-01-02
ons:	

Test conditions:

Room Temperatre Relative Humidity : 20 degree Celsius : 60%

Page:

1 of 1

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited 1602-1610 Delta House, 3 On Yiu Street, Shatin, N.T.

Test Report No .:	C/N/50905-1	
Date of Issue:	2005-09-06	
Date Received:	2005-09-05	
Date Tested:	2005-09-06	
Date Completed:	2005-09-06	
Next Due Date:	2006-09-05	
Page:	1 of 1	

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No.

Room Temperatre Relative Humidity

hone No. : 2346382 hent No. : N-01-03

> : 22 degree Celsius : 65%

: Brüel & Kjær : B&K 2238

: 2359311

: Integrating Sound Level Meter

Test Specifications:

Test conditions:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

Patriels

PATRICK TSE Laborary Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/50905-2
	1602-1610 Delta House,	Date of Issue:	2005-09-06
	3 On Yiu Street,	Date Received:	2005-09-05
	Shatin, N.T.	Date Tested:	2005-09-05
		Date Completed:	2005-09-06
		Next Due Date:	2006-09-05

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

Test conditions:

Room Temperatre Relative Humidity Pressure : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359303 : N-01-04

Page:

1 of 1

: 21 degree Celsius : 62% : 1006.5hPa

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/51015/1
	1602-1610 Delta House,	Date of Issue:	2005-10-15
	3 On Yiu Street,	Date Received:	2005-10-13
	Shatin, N.T.	Date Tested:	2005-10-14
		Date Completed:	2005-10-15
		Next Due Date:	2006-10-14

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2394976
Microphone No.	: 2407349
Equipment No.	: N-01-05

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 65%

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Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/05/1115-1
	1602-1610 Delta House,	Date of Issue:	2005-11-15
	3 On Yiu Street,	Date Received:	2005-11-14
	Shatin, N.T.	Date Tested:	2005-11-15
		Date Completed:	2005-11-15
		Next Due Date:	2006-11-14

ATTN: Mr. Henry Leung

Item for calibration:

Description Manufacturer Model No. Serial No. Project No. Equipment No. : Acoustical Calibrator : Brüel & Kjær : 4231 : 2326353 : C13 : N-02-01

Page:

1 of 1

Test conditions:

Room Temperatre Relative Humidity Pressure : 20 degree Celsius : 65% : 1015.2 hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0\pm~0.1~\mathrm{dB}$

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

Patrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/06/60304
	1602-1610 Delta House,	Date of Issue:	2006-03-04
	3 On Yiu Street,	Date Received:	2006-03-03
	Shatin, N.T.	Date Tested:	2006-03-03
		Date Completed:	2006-03-04
		Next Due Date:	2007-03-04
ATTN:	Mr. Henry Leung	Page:	1 of 1

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2343007
Project No.	: C13
Equipment No.	: N-02-02

Test conditions:

Room Temperatre Relative Humidity Pressure

: 20 degree Celsius : 71% : 1020.1hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0\pm~0.2~\mathrm{dB}$

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

Patrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/50905-1A
	1602-1610 Delta House,	Date of Issue:	2005-09-06
	3 On Yiu Street,	Date Received:	2005-09-05
	Shatin, N.T.	Date Tested:	2005-09-05
		Date Completed:	2005-09-06
		Next Due Date:	2006-09-05

ATTN:

Mr. Henry Leung

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2412367
Equipment No.	: N-02-03

Test conditions:

Room Temperatre **Relative Humidity** Pressure

: 21 degree Celsius : 62% : 1006.5hPa

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Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0\pm~0.1~\mathrm{dB}$
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick.

PATRICK TSE **Operation Manager**

APPENDIX C ENVIRONMENTAL MONITORING AND AUDIT SCHEDULE

Environmental Monitoring for Eagle's Nest Tunnel Tentative Air Quality and Noise Monitoring Schedule for August 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
		1 hr TSP Noise	1 hr TSP 24 hrs TSP	1 hr TSP		
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
		1 hr TSP Noise 24 hrs TSP	1 hr TSP	1 hr TSP		
13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug
		1 hr TSP Noise		1 hr TSP	1 hr TSP	
	24 hrs TSP					24 hrs TSP
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
	1 hr TSP Noise	1 hr TSP		1 hr TSP		
					24 hrs TSP	
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep	2-Sep
	1 hr TSP Noise	1 hr TSP			1 hr TSP	
				24 hrs TSP		

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

AM1 Yew Chung International School /Po Leung Kuk Choi Kai Yau School

AM3 Garden Villa

AM4 Government Quarters

NM1 Yew Chung International School /Po Leung Kuk Choi Kai Yau School

NM5 Villa Carlton

- NM6 Government Quarters
- NM7 Garden Villa

Environmental Monitoring for Eagle's Nest Tunnel Tentative Air Quality and Noise Monitoring Schedule for September 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep	2-Sep
	1 hr TSP Noise	1 hr TSP			1 hr TSP	
				24 hrs TSP		
3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep
		1 hr TSP Noise		1 hr TSP	1 hr TSP	
			24 hrs TSP			
10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep
		1 hr TSP Noise	1 hr TSP	1 hr TSP		
		24 hrs TSP				
17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep
		1 hr TSP Noise	1 hr TSP	1 hr TSP		
	24 hrs TSP					24 hrs TSP
24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep
	1 hr TSP Noise	1 hr TSP		1 hr TSP		
					24 hrs TSP	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

AM1 Yew Chung International School /Po Leung Kuk Choi Kai Yau School

AM3 Garden Villa

AM4 Government Quarters

NM1 Yew Chung International School /Po Leung Kuk Choi Kai Yau School

NM5 Villa Carlton

- NM6 Government Quarters
- NM7 Garden Villa

APPENDIX D WIND DATA

Date	Time	Wind Speed m/s	Direction
1-Aug-2006	00:00	1.3	ENE
1-Aug-2006	01:00	1.3	ENE
1-Aug-2006	02:00	0.4	ENE
1-Aug-2006	03:00	0.4	NE
1-Aug-2006	04:00	0.4	NE
1-Aug-2006	05:00	1.3	ENE
1-Aug-2006	06:00	1.8	ENE
1-Aug-2006	07:00	3.1	ENE
1-Aug-2006	08:00	2.7	ENE
1-Aug-2006	09:00	3.1	NE
1-Aug-2006	10:00	2.7	ENE
1-Aug-2006	11:00	3.1	ENE
	12:00	3.1	NE
1-Aug-2006			
1-Aug-2006	13:00	2.2	ENE
1-Aug-2006	14:00	1.3	NE
1-Aug-2006	15:00	2.2	ENE
1-Aug-2006	16:00	1.8	ENE
1-Aug-2006	17:00	1.8	ENE
1-Aug-2006	18:00	1.8	ENE
1-Aug-2006	19:00	0.4	ENE
1-Aug-2006	20:00	0.4	ENE
1-Aug-2006	21:00	0.4	ENE
1-Aug-2006	22:00	0.4	ENE
1-Aug-2006	23:00	0.4	ENE
2-Aug-2006	00:00	0.4	SW
2-Aug-2006	01:00	0.4	E
2-Aug-2006	02:00	0.4	SSW
2-Aug-2006	03:00	0	WSW
2-Aug-2006	04:00	0	
2-Aug-2006	05:00	0	WNW
2-Aug-2006	06:00	0	WNW
2-Aug-2006	07:00	0	WNW
2-Aug-2006	08:00	0	WNW
2-Aug-2006	09:00	0	NE
2-Aug-2006	10:00	3.1	SW
2-Aug-2006	11:00	3.1	WSW
2-Aug-2006	12:00	3.1	WSW
2-Aug-2006	13:00	1.8	WSW
2-Aug-2006	14:00	1.8	SW
2-Aug-2006	15:00	2.2	E
2-Aug-2006	16:00	4.3	N
2-Aug-2006	17:00	4.5	N
2-Aug-2006	18:00	3.9	ENE
2-Aug-2006	19:00	2.7	W
2-Aug-2006	20:00	2.9	SW
2-Aug-2006	21:00	3.8	S
2-Aug-2006	22:00	3.9	ESE
2-Aug-2006	23:00	2.6	
3-Aug-2006	00:00	2.3	N
3-Aug-2006	01:00	1.3	N
3-Aug-2006	02:00	1.8	E
		2.2	E
3-Aug-2006	03:00		
3-Aug-2006	04:00	2.2	
3-Aug-2006	05:00	1.3	E

Date	Time	Wind Speed m/s	Direction
3-Aug-2006	06:00	1.3	
3-Aug-2006	07:00	0	E
3-Aug-2006	08:00	0	E
3-Aug-2006	09:00	0.4	N
3-Aug-2006	10:00	0.9	N
3-Aug-2006	11:00	0.4	NNE
3-Aug-2006	12:00	0.9	ENE
3-Aug-2006	13:00	2.2	ENE
3-Aug-2006	14:00	2.7	ENE
3-Aug-2006	15:00	3.1	ENE
3-Aug-2006	16:00	3.6	ENE
3-Aug-2006	17:00	3.1	ENE
3-Aug-2006	18:00	3.6	ENE
3-Aug-2006	19:00	2.7	ENE
3-Aug-2006	20:00	2.2	ENE
3-Aug-2006	21:00	1.8	ENE
3-Aug-2006	22:00	1.8	NE
3-Aug-2006	23:00	2.2	ENE
4-Aug-2006	00:00	1.3	ENE
4-Aug-2006	01:00	2.2	ENE
4-Aug-2006	02:00	2.2	ENE
4-Aug-2006	03:00	2.7	ENE
4-Aug-2006	04:00	2.2	NE
4-Aug-2006	05:00	3.1	NE
4-Aug-2006	06:00	2.2	NE
4-Aug-2006	07:00	1.8	NE
4-Aug-2006	08:00	3.1	ENE
4-Aug-2006	09:00	3.6	NE
4-Aug-2006	10:00	4.5	ENE
4-Aug-2006	11:00	4	NE
4-Aug-2006	12:00	3.1	NE
4-Aug-2006	13:00	4	NE
4-Aug-2006	14:00	3.6	NE
4-Aug-2006	15:00	3.1	NE
4-Aug-2006	16:00	3.1	NE
4-Aug-2006	17:00	3.1	ENE
4-Aug-2006	18:00	3.1	NE
4-Aug-2006	19:00	1.8	NE
4-Aug-2006	20:00	0.9	ENE
4-Aug-2006	21:00	0.4	NE
4-Aug-2006	22:00	0.9	NE
4-Aug-2006	23:00	1.3	ENE
5-Aug-2006	00:00	1.8	NE
5-Aug-2006	01:00	2.2	ENE
5-Aug-2006	02:00	1.8	ENE
5-Aug-2006	03:00	2.2	ENE
5-Aug-2006	04:00	1.8	ENE
5-Aug-2006	05:00	1.8	ENE
5-Aug-2006	06:00	0.9	NE
5-Aug-2006	07:00	0.4	N
5-Aug-2006	08:00	0.9	NE
5-Aug-2006	09:00	2.7	NE
5-Aug-2006	10:00	3.1	NE
5-Aug-2006	11:00	2.2	ENE

Date	Time	Wind Speed m/s	Direction
5-Aug-2006	12:00	2.7	ENE
5-Aug-2006	13:00	3.6	ENE
5-Aug-2006	14:00	2.7	NE
5-Aug-2006	15:00	2.2	NE
5-Aug-2006	16:00	2.2	NE
5-Aug-2006	17:00	1.8	ENE
5-Aug-2006	18:00	1.3	NE
5-Aug-2006	19:00	1.3	ENE
5-Aug-2006	20:00	1.8	ENE
5-Aug-2006	21:00	2.2	ENE
5-Aug-2006	22:00	2.2	ENE
5-Aug-2006	23:00	1.3	ENE
6-Aug-2006	00:00	1.3	NE
6-Aug-2006	01:00	1.3	ENE
6-Aug-2006	02:00	0.9	ENE
6-Aug-2006	03:00	0.4	ENE
6-Aug-2006	04:00	0	ENE
6-Aug-2006	05:00	0	ENE
6-Aug-2006	06:00	0	ENE
6-Aug-2006	07:00	0	
6-Aug-2006	08:00	0.4	ENE
6-Aug-2006	09:00	0.4	ENE
6-Aug-2006	10:00	0.4	NNE
6-Aug-2006	11:00	0.4	NNE
6-Aug-2006	12:00	0.4	NNE
6-Aug-2006	13:00	0.9	N
6-Aug-2006	14:00	0.4	N
6-Aug-2006	15:00	0.4	NE
6-Aug-2006	16:00	0	SSW
6-Aug-2006	17:00	0.4	SW
6-Aug-2006	18:00	0.4	SW
6-Aug-2006	19:00	0	SSW
6-Aug-2006	20:00	0	SW
6-Aug-2006	21:00	0	SW
6-Aug-2006	22:00	0	SW
6-Aug-2006	23:00	0	SSW
7-Aug-2006	00:00	0	S
7-Aug-2006	01:00	0	S
7-Aug-2006	02:00	0	
7-Aug-2006	03:00	0	S
7-Aug-2006	04:00	0	
7-Aug-2006	05:00	0	
7-Aug-2006	06:00	0	S
7-Aug-2006	07:00	0	S
7-Aug-2006	08:00	0	SSW
7-Aug-2006	09:00	0.4	SSW
7-Aug-2006	10:00	0.4	SW
7-Aug-2006	11:00	0.4	WSW
7-Aug-2006	12:00	0.9	SW
7-Aug-2006	13:00	0.9	SW
7-Aug-2006	14:00	0.9	SW
7-Aug-2006	15:00	0.9	W
7-Aug-2006	16:00	0.9	W
7-Aug-2006	17:00	0.4	N

Date	Time	Wind Speed m/s	Direction
7-Aug-2006	18:00	0.4	WSW
7-Aug-2006	19:00	0	W
7-Aug-2006	20:00	0	W
7-Aug-2006	21:00	0	W
7-Aug-2006	22:00	0	SE
7-Aug-2006	23:00	0	NNW
8-Aug-2006	00:00	0	SSW
8-Aug-2006	01:00	0	WSW
8-Aug-2006	02:00	0	WSW
8-Aug-2006	03:00	0	WSW
8-Aug-2006	04:00	0	WSW
8-Aug-2006	05:00	0	SW
8-Aug-2006	06:00	0	SSW
8-Aug-2006	07:00	0	SSW
8-Aug-2006	08:00	0	SSW
8-Aug-2006	09:00	0	SSW
8-Aug-2006	10:00	0.9	S
8-Aug-2006	11:00	2.2	SW
8-Aug-2006	12:00	2.2	WSW
8-Aug-2006	13:00	0.4	W
8-Aug-2006	14:00	0.9	SW
8-Aug-2006	15:00	1.8	SW
8-Aug-2006	16:00	1.8	SSW
8-Aug-2006	17:00	1.3	SSW
8-Aug-2006	18:00	0.4	S
8-Aug-2006	19:00	0	SE
8-Aug-2006	20:00	0	
8-Aug-2006	21:00	0	SE
8-Aug-2006	22:00	0	SE
8-Aug-2006	23:00	0	
9-Aug-2006	00:00	0	
9-Aug-2006	01:00	0	
9-Aug-2006	02:00	0	SE
9-Aug-2006	03:00	0	SE
9-Aug-2006	04:00	0	SE
9-Aug-2006	05:00	0	
9-Aug-2006	06:00	0	
9-Aug-2006	07:00	0	
9-Aug-2006	08:00	0	SE
9-Aug-2006	09:00	0	SE
9-Aug-2006	10:00	1.3	SW
9-Aug-2006	11:00	0.9	WSW
9-Aug-2006	12:00	1.3	SW
9-Aug-2006	13:00	1.8	SW
9-Aug-2006	14:00	0.9	SW
9-Aug-2006	15:00	0.9	WSW
9-Aug-2006	16:00	0.9	NNE
9-Aug-2006	17:00	0.9	WNW
9-Aug-2006	18:00	0.9	WNW
9-Aug-2006	19:00	0.4	E
9-Aug-2006	20:00	0.4	E
9-Aug-2006	21:00	0.9	 N
9-Aug-2006	22:00	0.4	WSW
9-Aug-2006	23:00	0	WSW

Date	Time	Wind Speed m/s	Direction
10-Aug-2006	00:00	0	WSW
10-Aug-2006	01:00	0	
10-Aug-2006	02:00	0	
10-Aug-2006	03:00	0	WSW
10-Aug-2006	04:00	0	
10-Aug-2006	05:00	0	
10-Aug-2006	06:00	0	
10-Aug-2006	07:00	0	
10-Aug-2006	08:00	0	WSW
10-Aug-2006	09:00	0.4	SW
10-Aug-2006	10:00	0.4	N
	11:00	0.9	N
10-Aug-2006		1.3	ENE
10-Aug-2006	12:00		
10-Aug-2006	13:00	0.9	ENE
10-Aug-2006	14:00	0.4	ENE
10-Aug-2006	15:00	0	ENE
10-Aug-2006	16:00	0	ENE
10-Aug-2006	17:00	0	ENE
10-Aug-2006	18:00	0	SW
10-Aug-2006	19:00	0	SW
10-Aug-2006	20:00	0	SW
10-Aug-2006	21:00	0	SW
10-Aug-2006	22:00	0	SW
10-Aug-2006	23:00	0.4	ENE
11-Aug-2006	00:00	2.2	ENE
11-Aug-2006	01:00	2.7	ENE
11-Aug-2006	02:00	2.7	ENE
11-Aug-2006	03:00	0.9	ENE
11-Aug-2006	04:00	0.9	ENE
11-Aug-2006	05:00	0	NE
11-Aug-2006	06:00	0.4	E
11-Aug-2006	07:00	0.4	ENE
11-Aug-2006	08:00	0.4	ENE
11-Aug-2006	09:00	0.4	ENE
11-Aug-2006	10:00	0.4	ESE
11-Aug-2006	11:00	1.3	ENE
11-Aug-2006	12:00	1.8	NE
11-Aug-2006	13:00	1.3	NE
11-Aug-2006	14:00	1.8	ENE
11-Aug-2006	15:00	1.8	ENE
11-Aug-2006	16:00	0.9	SW
11-Aug-2006	17:00	0.4	SW
11-Aug-2006	18:00	0:4	SW
11-Aug-2006	19:00	0	SW
11-Aug-2006	20:00	0.4	SSW
11-Aug-2006	21:00	0:4	ESE
11-Aug-2006	22:00	0.4	SSW
11-Aug-2006	23:00	0.4	SW
12-Aug-2006	00:00	0.9	ENE
12-Aug-2006	01:00	0.4	S
12-Aug-2006	02:00	0	S
12-Aug-2006	03:00	1.3	N
12-Aug-2006	04:00	2.2	NE
12-Aug-2006	05:00	1.3	NE

Date	Time	Wind Speed m/s	Direction
12-Aug-2006	06:00	0.9	Ν
12-Aug-2006	07:00	1.8	NE
12-Aug-2006	08:00	2.7	ENE
12-Aug-2006	09:00	2.2	ENE
12-Aug-2006	10:00	2.7	NE
12-Aug-2006	11:00	2.7	NE
12-Aug-2006	12:00	3.1	NE
12-Aug-2006	13:00	3.1	NE
12-Aug-2006	14:00	2.7	ENE
12-Aug-2006	15:00	2.2	ENE
12-Aug-2006	16:00	2.2	ENE
12-Aug-2006	17:00	1.8	NE
12-Aug-2006	18:00	2.2	ENE
12-Aug-2006	19:00	1.8	ENE
12-Aug-2006	20:00	1.8	NE
12-Aug-2006	21:00	1.8	ENE
12-Aug-2006	22:00	2.2	NE
12-Aug-2006	23:00	2.2	NE
13-Aug-2006	00:00	2.2	ENE
13-Aug-2006	01:00	1.8	NE
13-Aug-2006	02:00	1.8	ENE
13-Aug-2006	03:00	2.2	ENE
13-Aug-2006	04:00	2.7	ENE
13-Aug-2006	05:00	1.8	NE
13-Aug-2006	06:00	0.9	NE
13-Aug-2006	07:00	1.8	NE
13-Aug-2006	08:00	2.2	ENE
13-Aug-2006	09:00	3.1	ENE
13-Aug-2006	10:00	3.1	NE
13-Aug-2006	11:00	2.7	NE
13-Aug-2006	12:00	2.7	NE
13-Aug-2006	13:00	2.7	NE
13-Aug-2006	14:00	2.7	NE
13-Aug-2006	15:00	2.7	NE
13-Aug-2006	16:00	2.7	NE
13-Aug-2006	17:00	2.2	NE
13-Aug-2006	18:00	1.3	ENE
13-Aug-2006	19:00	1.3	NE
13-Aug-2006	20:00	1.3	NE
13-Aug-2006	21:00	0.9	ENE
13-Aug-2006	22:00	0.9	NE
13-Aug-2006	23:00	1.8	ENE
14-Aug-2006	00:00	1.3	NE
14-Aug-2006	01:00	0.9	NE
14-Aug-2006	02:00	0.0	ENE
14-Aug-2006	03:00	1.3	ENE
14-Aug-2006	04:00	1.3	NE
14-Aug-2006	05:00	1.3	ENE
14-Aug-2006	06:00	1.3	NE
14-Aug-2006	07:00	2.2	NE
14-Aug-2006	08:00	2.2	NE
14-Aug-2006	09:00	2.7	NE
14-Aug-2006	10:00	1.8	NE
14-Aug-2006	11:00	1.8	NE

Date	Time	Wind Speed m/s	Direction
14-Aug-2006	12:00	2.7	NE
14-Aug-2006	13:00	2.7	ENE
14-Aug-2006	14:00	2.7	NE
14-Aug-2006	15:00	2.7	NE
14-Aug-2006	16:00	2.2	NE
14-Aug-2006	17:00	2.2	NE
14-Aug-2006	18:00	2.2	NE
14-Aug-2006	19:00	0.9	NE
14-Aug-2006	20:00	1.3	NE
14-Aug-2006	21:00	0.4	NNE
14-Aug-2006	22:00	1.3	ENE
14-Aug-2006	23:00	0.9	ENE
15-Aug-2006	00:00	1.3	ENE
15-Aug-2006	01:00	0.9	NE
15-Aug-2006	02:00	1.3	NE
15-Aug-2006	03:00	1.8	ENE
15-Aug-2006	04:00	0.9	ENE
15-Aug-2006	05:00	0.4	NNE
15-Aug-2006	06:00	0	NNE
15-Aug-2006	07:00	0.4	NE
15-Aug-2006	08:00	1.8	NE
15-Aug-2006	09:00	2.7	NE
15-Aug-2006	10:00	2.2	ENE
15-Aug-2006	11:00	1.3	NE
15-Aug-2006	12:00	1.8	NE
15-Aug-2006	13:00	2.7	NE
15-Aug-2006	14:00	2.7	NE
15-Aug-2006	15:00	0.9	ENE
15-Aug-2006	16:00	0.4	ENE
15-Aug-2006	17:00	0.4	ENE
15-Aug-2006	18:00	0.9	NE
15-Aug-2006	19:00	0.4	E
15-Aug-2006	20:00	0.9	NE
15-Aug-2006	21:00	0.4	ENE
15-Aug-2006	22:00	0.9	ENE
15-Aug-2006	23:00	1.3	ENE
16-Aug-2006	00:00	0.9	ENE
16-Aug-2006	01:00	1.3	ENE
16-Aug-2006	02:00	0.4	ENE
16-Aug-2006	03:00	0	NE
16-Aug-2006	04:00	0	NE
16-Aug-2006	05:00	0	NNE
16-Aug-2006	06:00	0	Ν
16-Aug-2006	07:00	0	Ν
16-Aug-2006	08:00	0.4	W
16-Aug-2006	09:00	0	Ν
16-Aug-2006	10:00	0.4	Ν
16-Aug-2006	11:00	0.4	Ν
16-Aug-2006	12:00	0.9	Ν
16-Aug-2006	13:00	0.9	Ν
16-Aug-2006	14:00	1.3	W
16-Aug-2006	15:00	1.8	WSW
16-Aug-2006	16:00	0.9	W
16-Aug-2006	17:00	0.4	WSW

Date	Time	Wind Speed m/s	Direction
16-Aug-2006	18:00	0.4	SW
16-Aug-2006	19:00	0.4	SSW
16-Aug-2006	20:00	0.4	SW
16-Aug-2006	21:00	0	SW
16-Aug-2006	22:00	0	SW
16-Aug-2006	23:00	0	SW
17-Aug-2006	00:00	0	SW
17-Aug-2006	01:00	0	SW
17-Aug-2006	02:00	0	SW
17-Aug-2006	03:00	0	SW
17-Aug-2006	04:00	0	SW
17-Aug-2006	05:00	0	SW
17-Aug-2006	06:00	0	
17-Aug-2006	07:00	0	SW
17-Aug-2006	08:00	0.4	SW
17-Aug-2006	09:00	0	SW
17-Aug-2006	10:00	0.4	SW
17-Aug-2006	11:00	0.9	W
17-Aug-2006	12:00	1.3	WNW
17-Aug-2006	13:00	2.2	W
17-Aug-2006	14:00	1.3	W
17-Aug-2006	15:00	1.3	WSW
17-Aug-2006	16:00	1.3	WSW
17-Aug-2006	17:00	1.3	SW
17-Aug-2006	18:00	1.3	SW
17-Aug-2006	19:00	1.3	SSW
17-Aug-2006	20:00	0.4	SSW
17-Aug-2006	21:00	0	ENE
17-Aug-2006	22:00	0	Ν
17-Aug-2006	23:00	0	
18-Aug-2006	00:00	0	ENE
18-Aug-2006	01:00	0	ENE
18-Aug-2006	02:00	0	SSW
18-Aug-2006	03:00	0	SSW
18-Aug-2006	04:00	0.4	SSW
18-Aug-2006	05:00	0	SSW
18-Aug-2006	06:00	0	SSW
18-Aug-2006	07:00	0.4	SW
18-Aug-2006	08:00	0	S
18-Aug-2006	09:00	0.4	SW
18-Aug-2006	10:00	1.3	WSW
18-Aug-2006	11:00	2.2	SW
18-Aug-2006	12:00	1.3	SW
18-Aug-2006	13:00	0.9	SW
18-Aug-2006	14:00	1.3	SSW
18-Aug-2006	15:00	1.3	WSW
18-Aug-2006	16:00	1.3	SSW
18-Aug-2006	17:00	1.8	SW
18-Aug-2006	18:00	1.3	SW
18-Aug-2006	19:00	2.7	WNW
18-Aug-2006	20:00	0.4	NE
18-Aug-2006	21:00	0.4	ENE
18-Aug-2006	22:00	0	ENE
18-Aug-2006	23:00	0	ENE

Date	Time	Wind Speed m/s	Direction
19-Aug-2006	00:00	0	ENE
19-Aug-2006	01:00	0	
19-Aug-2006	02:00	0	
19-Aug-2006	03:00	0	
19-Aug-2006	04:00	0	ENE
19-Aug-2006	05:00	0	ENE
19-Aug-2006	06:00	0	
19-Aug-2006	07:00	0	ENE
19-Aug-2006	08:00	0	ENE
19-Aug-2006	09:00	0	ENE
19-Aug-2006	10:00	0	ENE
19-Aug-2006	11:00	0.4	SSW
19-Aug-2006	12:00	0.4	SW
19-Aug-2006	13:00	0.9	SW
19-Aug-2006	14:00	0.9	SW
19-Aug-2006	15:00	1.3	SW
19-Aug-2006	16:00	0.4	W
19-Aug-2006	17:00	0.9	SSW
19-Aug-2006	18:00	1.3	WSW
19-Aug-2006	19:00	0.4	SW
19-Aug-2006	20:00	0.4	SW
19-Aug-2006	21:00	0	SW
19-Aug-2006	22:00	0	
19-Aug-2006	23:00	0	SW
20-Aug-2006	00:00	0	SW
20-Aug-2006	01:00	0	SW
20-Aug-2006	02:00	0.4	SSW
20-Aug-2006	03:00	0.4	SSW
20-Aug-2006	04:00	0	SSW
20-Aug-2006	05:00	0	SSW
20-Aug-2006	06:00	0	SSW
20-Aug-2006	07:00	0	SSW
20-Aug-2006	08:00	0	SSW
20-Aug-2006	09:00	0.9	SW
20-Aug-2006	10:00	0.9	SW
20-Aug-2006	11:00	0.4	SW
20-Aug-2006	12:00	1.3	W
20-Aug-2006	13:00	1.8	W
20-Aug-2006	14:00	1.3	W
20-Aug-2006	15:00	0.9	ENE
20-Aug-2006	16:00	1.8	NE
20-Aug-2006	17:00	0.9	ENE
20-Aug-2006	18:00	0	E
20-Aug-2006	19:00	0	ENE
20-Aug-2006	20:00	0	SSW
20-Aug-2006	21:00	1.3	W
20-Aug-2006	22:00	0	W
20-Aug-2006	23:00	0	W
21-Aug-2006	00:00	0	WNW
21-Aug-2006	01:00	0	WNW
21-Aug-2006	02:00	0	WNW
21-Aug-2006	03:00	0	WNW
21-Aug-2006	04:00	0	WNW
21-Aug-2006	05:00	0	WNW

Date	Time	Wind Speed m/s	Direction
21-Aug-2006	06:00	0	WNW
21-Aug-2006	07:00	0	WNW
21-Aug-2006	08:00	0	WNW
21-Aug-2006	09:00	0.4	WNW
21-Aug-2006	10:00	0	WNW
21-Aug-2006	11:00	0.4	SW
21-Aug-2006	12:00	0.4	ENE
21-Aug-2006	13:00	0.9	ENE
21-Aug-2006	14:00	0.4	NNE
21-Aug-2006	15:00	0.4	SW
21-Aug-2006	16:00	0.9	SSW
21-Aug-2006	17:00	0.4	WNW
21-Aug-2006	18:00	0.9	WSW
21-Aug-2006	19:00	0.4	W
21-Aug-2006	20:00	0	WSW
21-Aug-2006	21:00	0	WSW
21-Aug-2006	22:00	0	WSW
21-Aug-2006	23:00	0	WSW
22-Aug-2006	00:00	0	WSW
22-Aug-2006	01:00	0	
22-Aug-2006	02:00	0	
22-Aug-2006	03:00	0	
22-Aug-2006	04:00	0	WSW
22-Aug-2006	05:00	0	WSW
22-Aug-2006	06:00	0	WSW
22-Aug-2006	07:00	0	
22-Aug-2006	08:00	0.4	WSW
22-Aug-2006	09:00	0.4	WSW
22-Aug-2006	10:00	0	WSW
22-Aug-2006	11:00	0	WSW
22-Aug-2006	12:00	0	WSW
22-Aug-2006	13:00	0.4	SW
22-Aug-2006	14:00	0	S
22-Aug-2006	15:00	0	S
22-Aug-2006	16:00	0.4	S
22-Aug-2006	17:00	0.9	S
22-Aug-2006	18:00	0	SSW
22-Aug-2006	19:00	0	S
22-Aug-2006	20:00	0	S
22-Aug-2006	21:00	0	S
22-Aug-2006	22:00	0	
22-Aug-2006	23:00	0	
23-Aug-2006	00:00	0	S
23-Aug-2006	01:00	0	S
23-Aug-2006	02:00	0.4	S
23-Aug-2006	03:00	0	ENE
23-Aug-2006	04:00	0	ENE
23-Aug-2006	05:00	0	
23-Aug-2006	06:00	0	
23-Aug-2006	07:00	0	
23-Aug-2006	08:00	0	
23-Aug-2006	09:00	0	ENE
23-Aug-2006	10:00	0	ENE
23-Aug-2006	11:00	0.4	WSW

Date	Time	Wind Speed m/s	Direction
23-Aug-2006	12:00	0.4	SW
23-Aug-2006	13:00	0.4	SW
23-Aug-2006	14:00	0.4	SW
23-Aug-2006	15:00	0.4	NE
23-Aug-2006	16:00	0.4	W
23-Aug-2006	17:00	0.4	S
23-Aug-2006	18:00	0	SSW
23-Aug-2006	19:00	0	WSW
23-Aug-2006	20:00	0	SW
23-Aug-2006	21:00	0	SW
23-Aug-2006	22:00	0	SW
23-Aug-2006	23:00	0	SW
24-Aug-2006	00:00	0.4	NE
24-Aug-2006	01:00	0.4	WSW
24-Aug-2006	02:00	0.4	SW
24-Aug-2006	03:00	0.9	SSW
24-Aug-2006	04:00	0.4	NE
24-Aug-2006	05:00	0.4	SW
24-Aug-2006	06:00	0.4	SW
24-Aug-2006	07:00	0	SW
24-Aug-2006	08:00	0	SW
24-Aug-2006	09:00	0	SW
24-Aug-2006	10:00	0	SW
24-Aug-2006	11:00	0	SSE
24-Aug-2006	12:00	0	SSE
24-Aug-2006	13:00	0	SSE
24-Aug-2006	14:00	0.4	SW
24-Aug-2006	15:00	0.9	SW
24-Aug-2006	16:00	0.9	SW
24-Aug-2006	17:00	0.9	WSW
24-Aug-2006	18:00	0.4	SW
24-Aug-2006	19:00	0	ENE
24-Aug-2006	20:00	0.4	NE
24-Aug-2006	21:00	0.4	NE
24-Aug-2006	22:00	0	WSW
24-Aug-2006	23:00	0	WSW
25-Aug-2006	00:00	0	WSW
25-Aug-2006	01:00	0	WSW
25-Aug-2006	02:00	0	WSW
25-Aug-2006	03:00	0	W
25-Aug-2006	04:00	0	W
25-Aug-2006	05:00	0	SE
25-Aug-2006	06:00	0	NE
25-Aug-2006	07:00	0	SW
25-Aug-2006	08:00	0	S
25-Aug-2006	09:00	0.4	SW
25-Aug-2006	10:00	1.3	SW
25-Aug-2006	11:00	1.8	SW
25-Aug-2006	12:00	1.8	SW
25-Aug-2006	13:00	2.2	SSW
25-Aug-2006	14:00	2.2	SW
25-Aug-2006	15:00	2.2	SW
25-Aug-2006	16:00	1.8	SSW
25-Aug-2006	17:00	1.3	SW

Date	Time	Wind Speed m/s	Direction
25-Aug-2006	18:00	0.9	SW
25-Aug-2006	19:00	0	SSE
25-Aug-2006	20:00	0	SE
25-Aug-2006	21:00	0	SE
25-Aug-2006	22:00	0	SSE
25-Aug-2006	23:00	0	SSE
26-Aug-2006	00:00	0	
26-Aug-2006	01:00	0	SSE
26-Aug-2006	02:00	0	
26-Aug-2006	03:00	0	SSE
26-Aug-2006	03:00	0	SSE
<u> </u>			
26-Aug-2006	05:00	0	SSE
26-Aug-2006	06:00	0	SSE
26-Aug-2006	07:00	0	SSE
26-Aug-2006	08:00	0	SSE
26-Aug-2006	09:00	0	NNE
26-Aug-2006	10:00	0.4	SW
26-Aug-2006	11:00	1.8	SW
26-Aug-2006	12:00	2.2	SW
26-Aug-2006	13:00	2.2	SW
26-Aug-2006	14:00	2.7	SW
26-Aug-2006	15:00	2.2	SSW
26-Aug-2006	16:00	1.3	SW
26-Aug-2006	17:00	1.3	SSW
26-Aug-2006	18:00	0.4	SW
26-Aug-2006	19:00	0	W
26-Aug-2006	20:00	0.4	SSW
26-Aug-2006	21:00	0	SW
26-Aug-2006	22:00	0	SSW
26-Aug-2006	23:00	0	SSW
27-Aug-2006	00:00	0	SW
27-Aug-2006	01:00	0	SW
27-Aug-2006	02:00	0	SW
27-Aug-2006	03:00	0	SW
27-Aug-2006	04:00	0	S
27-Aug-2006	05:00	0	SE
27-Aug-2006	06:00	0	SSE
27-Aug-2006	07:00	0	SSE
27-Aug-2006	08:00	0.4	S
27-Aug-2006	09:00	0.4	ENE
27-Aug-2006	10:00	0	ENE
27-Aug-2006	11:00	0	ENE
27-Aug-2006	12:00	1.3	WSW
27-Aug-2006	13:00	0.4	E
27-Aug-2006	14:00	0.4	E
	14:00	0	E
27-Aug-2006		0	E E
27-Aug-2006	16:00		
27-Aug-2006	17:00	0	<u> </u>
27-Aug-2006	18:00	0	<u> </u>
27-Aug-2006	19:00	0	<u> </u>
27-Aug-2006	20:00	0	E
27-Aug-2006	21:00	0	SSW
27-Aug-2006	22:00	0.9	SSW
27-Aug-2006	23:00	1.3	NW

Date	Time	Wind Speed m/s	Direction
28-Aug-2006	00:00	0	NE
28-Aug-2006	01:00	0	NE
28-Aug-2006	02:00	0	NE
28-Aug-2006	03:00	0	NE
28-Aug-2006	04:00	0	NE
28-Aug-2006	05:00	0	NE
28-Aug-2006	06:00	0	SW
28-Aug-2006	07:00	0	SSE
28-Aug-2006	08:00	0.4	WNW
28-Aug-2006	09:00	0.9	SSW
28-Aug-2006	10:00	2.2	W
28-Aug-2006	11:00	1.3	SW
28-Aug-2006	12:00	0	SSW
28-Aug-2006	13:00	0.4	S
28-Aug-2006	14:00	0	E
28-Aug-2006	15:00	0	Е
28-Aug-2006	16:00	0	SSW
28-Aug-2006	17:00	0	SW
28-Aug-2006	18:00	0	SW
28-Aug-2006	19:00	0	SW
28-Aug-2006	20:00	0	
28-Aug-2006	21:00	0	
28-Aug-2006	22:00	0	SW
28-Aug-2006	23:00	0	
29-Aug-2006	00:00	0	SW
29-Aug-2006	01:00	0	SW
29-Aug-2006	02:00	0	SW
29-Aug-2006	03:00	0.4	SW
29-Aug-2006	04:00	0.4	NNE
29-Aug-2006	05:00	0	E
29-Aug-2006	06:00	0	E
29-Aug-2006	07:00	0.4	WSW
29-Aug-2006	08:00	0	SSE
29-Aug-2006	09:00	0.4	SSE
29-Aug-2006	10:00	0.4	E
29-Aug-2006	11:00	0	E
29-Aug-2006	12:00	0	E
29-Aug-2006	13:00	0	E
29-Aug-2006	14:00	0	E
29-Aug-2000	15:00	0.4	E
29-Aug-2006	16:00	0.4	L N
29-Aug-2006	17:00	0.9	W
29-Aug-2006	18:00	0.9	W
29-Aug-2006	19:00	0.9	W
29-Aug-2006	20:00	0	W
29-Aug-2006	20:00	0	W
29-Aug-2006	22:00	0	W
29-Aug-2006	22:00	0	W
30-Aug-2006	00:00	0	W
	01:00	0	
30-Aug-2006			
30-Aug-2006	02:00	0	W
30-Aug-2006	03:00	0	W
30-Aug-2006	04:00	0	W
30-Aug-2006	05:00	0.4	W

Date	Time	Wind Speed m/s	Direction
30-Aug-2006	06:00	0.9	Ν
30-Aug-2006	07:00	1.3	Ν
30-Aug-2006	08:00	0.9	NE
30-Aug-2006	09:00	0	E
30-Aug-2006	10:00	0	E
30-Aug-2006	11:00	0.4	NE
30-Aug-2006	12:00	0	E
30-Aug-2006	13:00	0	ESE
30-Aug-2006	14:00	0	SSW
30-Aug-2006	15:00	0.4	SSW
30-Aug-2006	16:00	0	SSW
30-Aug-2006	17:00	0	SW
30-Aug-2006	18:00	0.4	W
30-Aug-2006	19:00	0	WSW
30-Aug-2006	20:00	0.4	WSW
30-Aug-2006	21:00	0.4	Ν
30-Aug-2006	22:00	0	SSW
30-Aug-2006	23:00	0.4	SSW
30-Aug-2006	00:00	0.4	SSW
31-Aug-2006	01:00	0.4	NNW
31-Aug-2006	02:00	0.4	WNW
31-Aug-2006	03:00	0.4	Ν
31-Aug-2006	04:00	0.4	W
31-Aug-2006	05:00	0	W
31-Aug-2006	06:00	0	
31-Aug-2006	07:00	0	
31-Aug-2006	08:00	0	W
31-Aug-2006	09:00	0.4	W
31-Aug-2006	10:00	0.4	SSW
31-Aug-2006	11:00	0.4	SW
31-Aug-2006	12:00	0	SW
31-Aug-2006	13:00	0.4	SW
31-Aug-2006	14:00	0.4	SW
31-Aug-2006	15:00	0.4	SW
31-Aug-2006	16:00	0.4	W
31-Aug-2006	17:00	0.4	Ν
31-Aug-2006	18:00	0.4	NE
31-Aug-2006	19:00	0.4	W
31-Aug-2006	20:00	0	S
31-Aug-2006	21:00	0	NE
31-Aug-2006	22:00	0.4	WNW
31-Aug-2006	23:00	0.4	NE

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Po Leung Kuk Choi Kai Yau School

Date	Weather	Filter W	eight (g)	Flow Rate	e (m ³ /min.)	Elaps	se Time	Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
1-Aug-06	Sunny	2.8587	2.8645	1.22	1.22	4597.6	4598.6	301.5	756.8	0.0058	1.22	73.2	1.0	79.3
2-Aug-06	Rainy	2.8704	2.8747	1.22	1.22	4598.6	4599.6	301.8	753.5	0.0043	1.22	72.9	1.0	59.0
3-Aug-06	Rainy	2.8661	2.8744	1.22	1.22	4623.6	4624.6	299.9	749.1	0.0083	1.22	73.0	1.0	113.8
8-Aug-06	Sunny	2.8522	2.8577	1.22	1.22	4624.6	4625.6	302.0	754.8	0.0055	1.22	73.0	1.0	75.4
9-Aug-06	Sunny	2.8724	2.8777	1.22	1.22	4649.6	4650.6	301.7	753.3	0.0053	1.22	73.0	1.0	72.7
10-Aug-06	Cloudy	2.8456	2.8495	1.22	1.22	4650.6	4651.6	299.1	752.9	0.0039	1.22	73.3	1.0	53.2
15-Aug-06	Sunny	2.8483	2.8551	1.21	1.21	4675.6	4676.6	303.6	754.6	0.0068	1.21	72.8	1.0	93.4
17-Aug-06	Sunny	2.8673	2.8708	1.21	1.21	4676.6	4677.6	303.2	755.7	0.0035	1.21	72.8	1.0	48.1
18-Aug-06	Sunny	2.8571	2.8603	1.21	1.21	4677.6	4678.6	303.2	755.1	0.0032	1.21	72.9	1.0	43.9
21-Aug-06	Sunny	2.8967	2.9075	1.21	1.21	4702.6	4703.6	303.3	755.0	0.0108	1.21	72.8	1.0	148.3
22-Aug-06	Sunny	2.8830	2.8905	1.22	1.22	4703.6	4704.6	302.1	757.3	0.0075	1.22	73.1	1.0	102.6
24-Aug-06	Cloudy	2.8707	2.8760	1.22	1.22	4704.6	4705.6	301.3	756.0	0.0053	1.22	73.1	1.0	72.5
28-Aug-06	Sunny	2.8642	2.8712	1.22	1.22	4729.6	4730.6	302.7	758.1	0.0070	1.22	73.1	1.0	95.8
29-Aug-06	Cloudy	2.8731	2.8757	1.22	1.22	4730.6	4731.6	303.3	759.1	0.0026	1.22	73.0	1.0	35.6
													Min	35.6
													Max	148.3

Average 78.1

Max

Average

186.7

123.2

Location AM 3 - Garden Villa

Date	Weather	Filter Weight (g) F		Flow Rate (m ³ /min.)		Elapse Time		Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
1-Aug-06	Sunny	2.8798	2.8935	1.22	1.22	4939.1	4940.1	301.8	753.5	0.0137	1.22	73.4	1.0	186.7
2-Aug-06	Rainy	2.8680	2.8759	1.22	1.22	4940.1	4941.1	301.8	753.5	0.0079	1.22	73.2	1.0	108.0
3-Aug-06	Rainy	2.8702	2.8805	1.22	1.22	4965.1	4966.1	300.8	749.8	0.0103	1.22	73.1	1.0	140.9
8-Aug-06	Sunny	2.8547	2.8645	1.22	1.22	4966.1	4967.1	302.0	754.8	0.0098	1.22	73.2	1.0	133.9
9-Aug-06	Cloudy	2.8592	2.8688	1.22	1.22	4991.1	4992.1	301.0	753.9	0.0096	1.22	73.3	1.0	131.0
10-Aug-06	Cloudy	2.8617	2.8721	1.22	1.22	4992.1	4993.1	299.1	752.9	0.0104	1.22	73.5	1.0	141.6
15-Aug-06	Sunny	2.8647	2.8725	1.22	1.22	5017.1	5018.1	303.6	754.6	0.0078	1.22	73.0	1.0	106.8
17-Aug-06	Sunny	2.8291	2.8340	1.22	1.22	5018.1	5019.1	303.2	755.7	0.0049	1.22	73.1	1.0	67.0
18-Aug-06	Sunny	2.8321	2.8385	1.22	1.22	5019.1	5020.1	303.2	755.1	0.0064	1.22	73.1	1.0	87.6
21-Aug-06	Sunny	2.8533	2.8658	1.22	1.22	5044.1	5045.1	303.3	755.0	0.0125	1.22	73.1	1.0	171.1
22-Aug-06	Sunny	2.8503	2.8626	1.22	1.22	5045.1	5046.1	302.1	757.3	0.0123	1.22	73.3	1.0	167.8
24-Aug-06	Cloudy	2.8817	2.8902	1.22	1.22	5046.1	5047.1	301.3	756.0	0.0085	1.22	73.4	1.0	115.9
28-Aug-06	Cloudy	2.8468	2.8546	1.22	1.22	5071.1	5072.1	302.7	758.1	0.0078	1.22	73.3	1.0	106.4
29-Aug-06	Sunny	2.8725	2.8769	1.22	1.22	5072.1	5073.1	303.3	759.1	0.0044	1.22	73.3	1.0	60.1
													Min	60.1

Appendix E - 1-hour TSP Monitoring Results

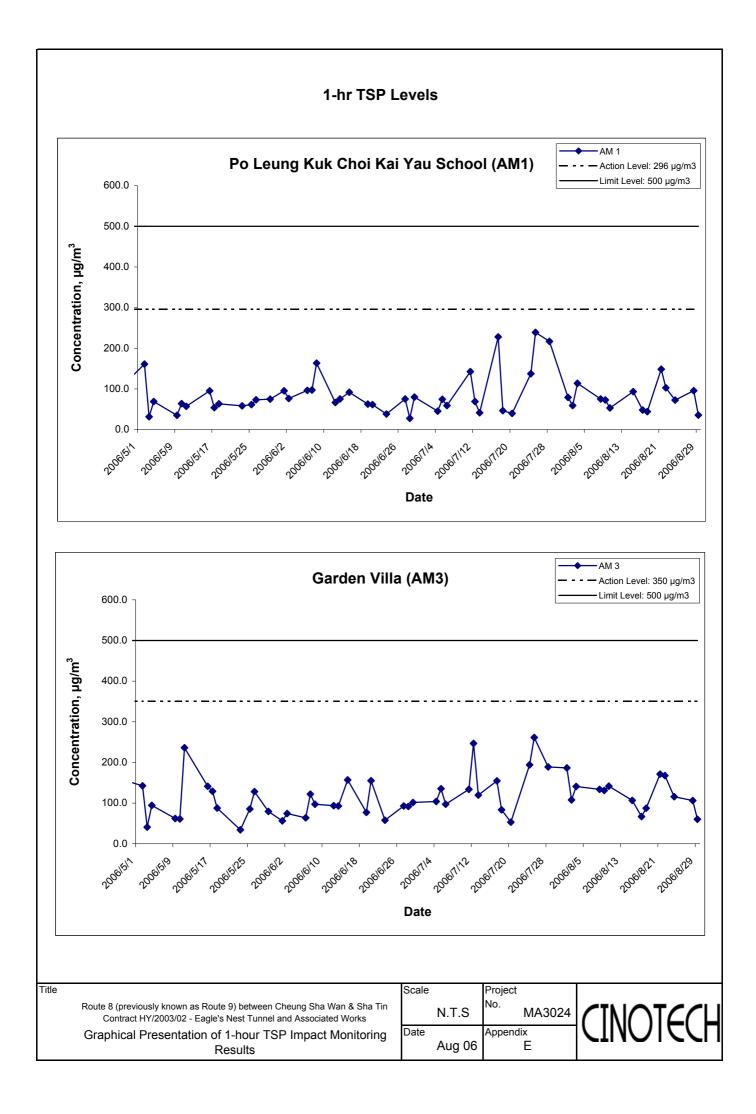
Location AM 4 - Government Quarters

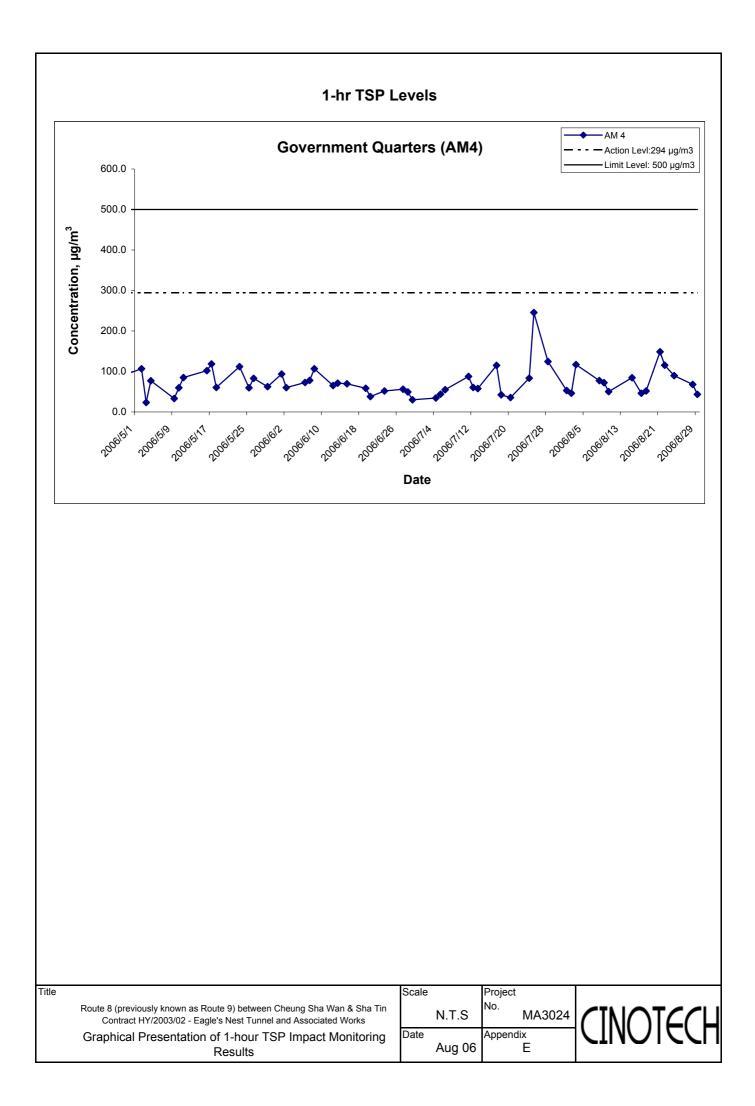
Date	Weather	Filter W	eight (g)	Flow Rate	e (m ³ /min.)	Elaps	se Time	Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
1-Aug-06	Sunny	2.8465	2.8504	1.22	1.22	4551.5	4552.5	301.5	756.8	0.0039	1.22	73.7	1.0	52.9
2-Aug-06	Rainy	2.8668	2.8702	1.22	1.22	4552.5	4553.5	301.8	753.5	0.0034	1.22	73.5	1.0	46.3
3-Aug-06	Rainy	2.8715	2.8801	1.22	1.22	4577.5	4578.5	299.9	759.1	0.0086	1.22	73.5	1.0	117.0
8-Aug-06	Sunny	2.8561	2.8618	1.23	1.23	4578.4	4579.5	302.0	754.8	0.0057	1.23	73.5	1.1	77.6
9-Aug-06	Sunny	2.8622	2.8675	1.22	1.22	4603.5	4604.5	301.7	753.3	0.0053	1.22	73.5	1.0	72.2
10-Aug-06	Cloudy	2.8328	2.8365	1.23	1.23	4604.5	4605.5	299.1	752.9	0.0037	1.23	73.8	1.0	50.1
15-Aug-06	Sunny	2.8574	2.8636	1.22	1.22	4629.5	4630.5	303.4	754.6	0.0062	1.22	73.3	1.0	84.6
17-Aug-06	Sunny	2.8512	2.8546	1.22	1.22	4630.5	4631.5	303.2	755.7	0.0034	1.22	73.3	1.0	46.4
18-Aug-06	Sunny	2.8671	2.8709	1.22	1.22	4631.5	4632.5	303.2	755.1	0.0038	1.22	73.4	1.0	51.8
21-Aug-06	Sunny	2.8946	2.9055	1.22	1.22	4656.5	4657.5	303.3	755.0	0.0109	1.22	73.3	1.0	148.7
22-Aug-06	Sunny	2.8857	2.8942	1.23	1.23	4657.5	4658.5	302.1	757.3	0.0085	1.23	73.6	1.0	115.4
24-Aug-06	Cloudy	2.8633	2.8699	1.23	1.23	4658.5	4659.5	301.3	756.0	0.0066	1.23	73.7	1.0	89.6
28-Aug-06	Sunny	2.8217	2.8267	1.23	1.23	4683.5	4684.5	302.7	758.1	0.0050	1.23	73.6	1.0	67.9
29-Aug-06	Cloudy	2.8755	2.8787	1.23	1.23	4684.5	4685.5	303.3	759.1	0.0032	1.23	73.6	1.0	43.5
	-	•		-		-		-				-	Min	43 5

 Min
 43.5

 Max
 148.7

 Average
 76.0





APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Po Leung Kuk Choi Kai Yau School

Date	Weather	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
2-Aug-06	Rainy	2.8578	2.9002	1.21	1.21	4599.6	4623.6	302.4	753.3	0.0424	1.21	1748.6	24.0	24.2
8-Aug-06	Sunny	2.8748	2.9304	1.21	1.21	4625.6	4649.6	302.5	754.4	0.0556	1.21	1749.6	24.0	31.8
14-Aug-06	Sunny	2.8631	2.9878	1.22	1.22	4651.6	4675.6	302.3	755.4	0.1247	1.22	1751.5	24.0	71.2
19-Aug-06	Sunny	2.8664	2.9355	1.22	1.22	4678.6	4702.6	300.8	756.2	0.0691	1.22	1757.2	24.0	39.3
25-Aug-06	Cloudy	2.8401	2.8828	1.22	1.22	4705.6	4729.6	301.3	756.6	0.0427	1.22	1756.2	24.0	24.3
31-Aug-06	Sunny	2.8476	2.8792	1.22	1.22	4731.6	4755.6	302.4	758.4	0.0316	1.22	1755.0	24.0	18.0
													Min	18.0
													Max	71.2
													Average	34.8

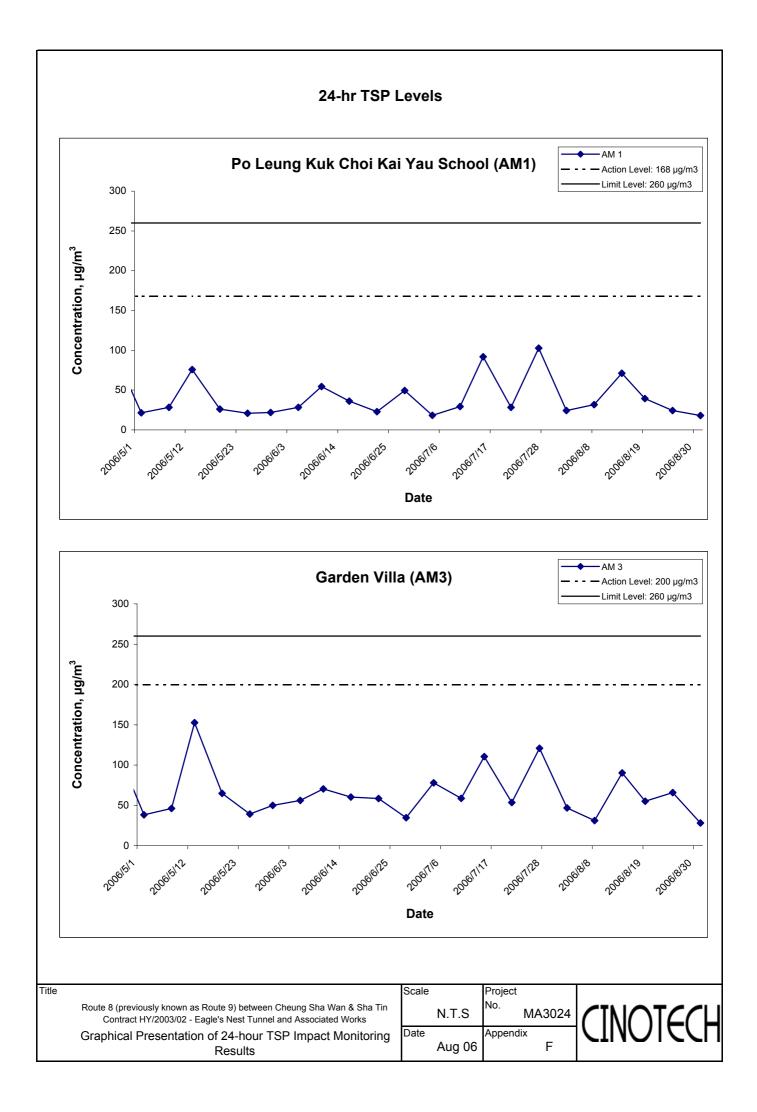
Location AM 3 - Garden Villa

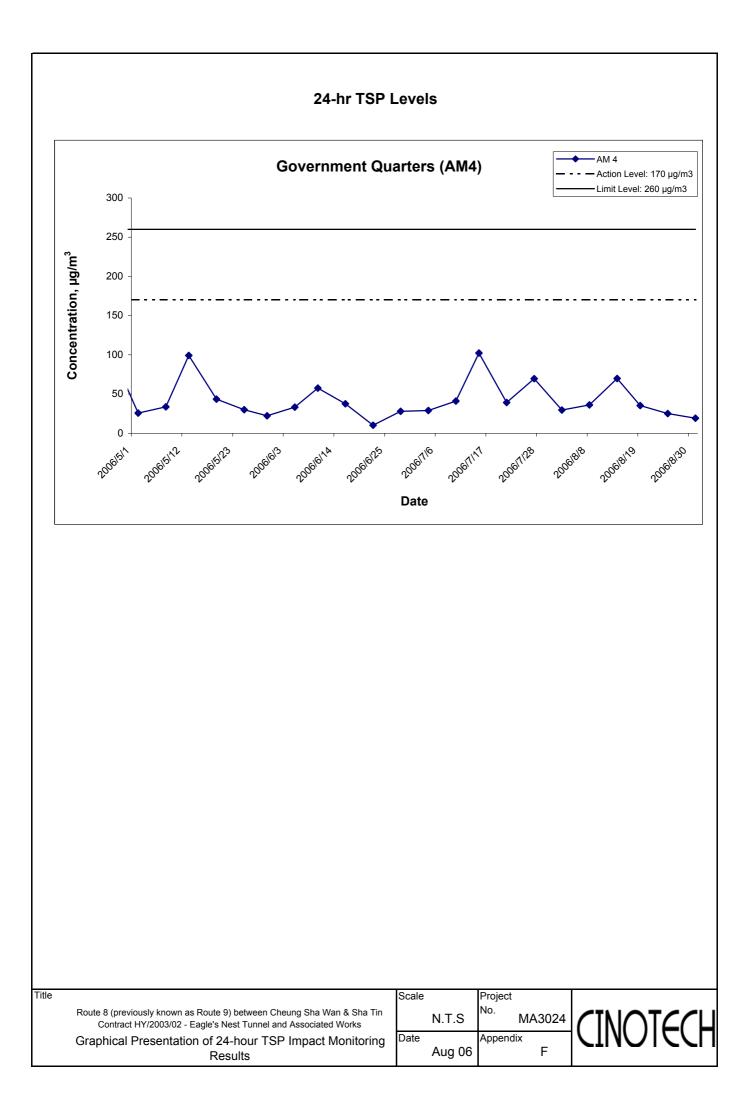
Date	Weather	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
2-Aug-06	Rainy	2.8776	2.9586	1.20	1.20	4941.1	4965.1	302.4	753.3	0.0810	1.20	1731.1	24.0	46.8
8-Aug-06	Sunny	2.8479	2.9025	1.22	1.22	4967.1	4991.1	302.5	754.4	0.0546	1.22	1755.0	24.0	31.1
14-Aug-06	Sunny	2.8347	2.9935	1.22	1.22	4993.1	5017.1	302.3	755.4	0.1588	1.22	1756.7	24.0	90.4
19-Aug-06	Sunny	2.8568	2.9541	1.22	1.22	5020.1	5044.1	300.8	756.2	0.0973	1.22	1761.9	24.0	55.2
25-Aug-06	Cloudy	2.8698	2.9858	1.22	1.22	5047.1	5071.1	301.3	756.6	0.1160	1.22	1761.0	24.0	65.9
31-Aug-06	Sunny	2.8766	2.9261	1.22	1.22	5073.1	5097.1	302.4	758.4	0.0495	1.22	1759.9	24.0	28.1
													Min	28.1
													Max	90.4
													Average	52.9

Location AM 4 - Government Quarters

Date	Weather	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
2-Aug-06	Rainy	2.8623	2.9144	1.22	1.22	4553.5	4577.5	302.4	753.3	0.0521	1.22	1760.6	24.0	29.6
8-Aug-06	Sunny	2.8691	2.9327	1.22	1.22	4579.5	4603.5	302.5	754.4	0.0636	1.22	1761.7	24.0	36.1
14-Aug-06	Sunny	2.8605	2.9835	1.23	1.23	4605.5	4629.5	302.3	755.4	0.1230	1.23	1763.7	24.0	69.7
19-Aug-06	Sunny	2.8828	2.9452	1.23	1.23	4632.5	4656.5	300.8	756.2	0.0624	1.23	1769.9	24.0	35.3
25-Aug-06	Cloudy	2.8455	2.8898	1.23	1.23	4659.5	4683.5	301.3	756.6	0.0443	1.23	1768.8	24.0	25.0
31-Aug-06	Sunny	2.8578	2.8917	1.23	1.23	4685.5	4709.5	302.4	758.4	0.0339	1.23	1767.5	24.0	19.2
													Min	19.2
													Max	69 7

Average 35.8





APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location NM1 - Po Leung Kuk Choi Kai Yau School												
				(A) (30-	min)							
Date	Time	Weather	Weather	Measu	red Nois	e Level	Remarks					
			L _{eq}	L ₁₀	L ₉₀							
1-Aug-06	10:00	Sunny	68.8	71.0	64.5							
8-Aug-06	10:00	Sunny	63.8	66.5	60.0							
15-Aug-06	10:30	Sunny	63.2	67.5	60.0	-						
21-Aug-06	09:00	Sunny	63.7	66.0	59.5							
28-Aug-06	10:00	Fine	63.4	67.0	58.5							

Location NM	5 - Villa (Carlton						
						Unit: dB (A) (30-	-min)	
Date	Time	Weather	Measu	red Nois	e Level	Baseline Level	Construction Noise Level	Remarks
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
1-Aug-06	11:25	Sunny	75.4	77.5	70.0		75.4, Measured \leq Baseline	
5-Aug-06	10:45	Sunny	75.8	78.5	70.0		75.8, Measured \leq Baseline	The major noise source
15-Aug-06	11:15	Sunny	76.1	79.5	73.0	77.1	76.1, Measured \leq Baseline	was identified as traffic
21-Aug-06	09:50	Sunny	77.6	79.5	74.0		68.0	noise from Tai Po Road.
28-Aug-06	09:10	Fine	77.4	80.5	73.0		65.6	

Location NM	6 - Gove	rnment Qua	rters			
				(A) (30-	/	
Date	Time	Weather	Measu	red Nois	e Level	Remarks
			L _{eq}	L ₁₀	L 90	
1-Aug-06	10:40	Sunny	67.3	69.5	63.5	
8-Aug-06	11:30	Sunny	66.7	68.5	61.5	
15-Aug-06	13:30	Sunny	66.4	69.0	62.5	-
21-Aug-06	11:00	Cloudy	61.7	63.0	57.5	
28-Aug-06	10:50	Fine	66.7	69.5	61.0	

Location NM	Location NM7 - Garden Vilia											
						Unit: dB (A) (30-	-min)					
Date	Time	Weather	Measu	red Nois	e Level	Baseline Level	Construction Noise Level	Remarks				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}					
1-Aug-06	09:00	Sunny	67.4	71.5	62.5		66.7					
8-Aug-06	09:00	Sunny	67.5	70.0	62.5		66.8					
15-Aug-06	16:45	Sunny	67.7	70.5	63.5	59.0	67.1	-				
21-Aug-06	09:30	Sunny	72.5	76.5	69.0							
28-Aug-06	08:45	Cloudy	72.6	75.5	69.0		72.4					

Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)

Restricted Hours - 19:00 to 23:00 on normal weekdays

Location NM	5 - Villa	Carlton							
Dete	Time	Weather		dB	(A) (5-m	nin)	Baseline Level	Construction Noise Level	
Date	Time	Weather	L _{eq}			Average L _{eq}	L _{eq}	L _{eq}	Remarks
	19:00		73.6	77.5	70.5				
1-Aug-06	19:05	Cloudy	73.7	77.5	70.5	73.8		73.8, Measured \leq Baseline	
	19:10		74.0	78.0	71.0				
	19:00		73.6	77.0	70.5				
8-Aug-06	19:05	Cloudy	73.8	77.5	70.5	73.8		73.8, Measured \leq Baseline	
	19:10		74.0	78.0	71.0				
	19:00		73.4	77.5	70.5				The major noise source
15-Aug-06	19:05	Cloudy	73.2	77.5	71.0	73.4	75.8	73.4, Measured \leq Baseline	was identified as traffic
	19:10		73.7	77.5	70.5				noise from Tai Po Road.
	19:00		73.4	77.5	70.5				
21-Aug-06	19:05	Cloudy	73.2	77.5	70.5	73.4		73.4, Measured \leq Baseline	
	19:10		73.6	77.5	70.0				
	19:00		73.8	77.5	70.5				
28-Aug-06	19:05	Cloudy	73.4	77.0	70.5	73.7		73.7, Measured \leq Baseline	
	19:10		73.8	77.0	71.0				

Location NM	6 - Gove	rnment Quai	ters						
Dete	Time	Weather		dB	(A) (5-m	iin)	Baseline Level	Construction Noise Level	
Date	Time	Weather	L _{eq} L ₁₀ L ₉₀		Average L _{eq}	L _{eq}	L _{eq}	Remarks	
	19:35		54.3	57.5	50.5				
1-Aug-06	19:40	Cloudy	54.5	57.5	50.5	54.4		54.4, Measured \leq Baseline	
	19:45		54.4	57.5	51.0				
	19:40		54.3	59.0	51.0				
8-Aug-06	19:45	Cloudy	54.6	59.5	51.5	54.5		54.5, Measured \leq Baseline	
	19:50		54.6	59.5	52.0				
	19:45		54.7	58.0	50.5				
15-Aug-06	19:50	Cloudy	54.3	57.5	50.5	54.5	56.1	54.5, Measured \leq Baseline	-
	19:55		54.4	57.5	50.5				
	19:45		54.1	57.5	50.5				
21-Aug-06	19:50	Cloudy	54.2	57.5	51.0	54.1		54.1, Measured \leq Baseline	
	19:55		54.1	57.0	51.0				
	19:40		54.4	58.0	51.0				
28-Aug-06	19:45	Cloudy	54.6	57.5	51.0	54.5		54.5, Measured \leq Baseline	
	19:50		54.4	57.5	50.5				

Location NM	7 - Gard	en Villa							
Data	Time			dB	5 (A) (5-m	nin)	Baseline Level	Construction Noise Level	
Date	Time	Weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}	Remarks
	19:00		57.6	61.0	54.0				
1-Aug-06	19:05	Cloudy	57.9	61.5	55.5	57.6		57.6, Measured \leq Baseline	
	19:10		57.4	60.0	55.0				
	19:00		58.7	60.0	53.5				
8-Aug-06	19:05	Cloudy	58.6	59.5	53.5	58.7		48.1	
	19:10		58.8	59.5	53.5				
	19:00		57.9	59.5	54.5				The major noise source
15-Aug-06	19:05	Cloudy	58.1	60.5	54.5	58	58.3	58.0, Measured \leq Baseline	was identified as traffic
	19:10		57.9	59.5	54.0				noise from Tai Po Road.
	19:05		57.6	60.5	54.0				
21-Aug-06	19:10	Cloudy	57.8	61.0	54.5	57.6		57.6, Measured \leq Baseline	
	19:15		57.5	60.5	54.0				
	19:05		57.6	60.5	52.5				
28-Aug-06	19:10	Cloudy	57.8	60.0	52.5	57.7		57.7, Measured \leq Baseline	
	19:15		57.6	60.0	53.0				

Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)

*Bolded value indicated limit level exceedance

Restricted Hours - 23:00 to 07:00 on normal weekdays

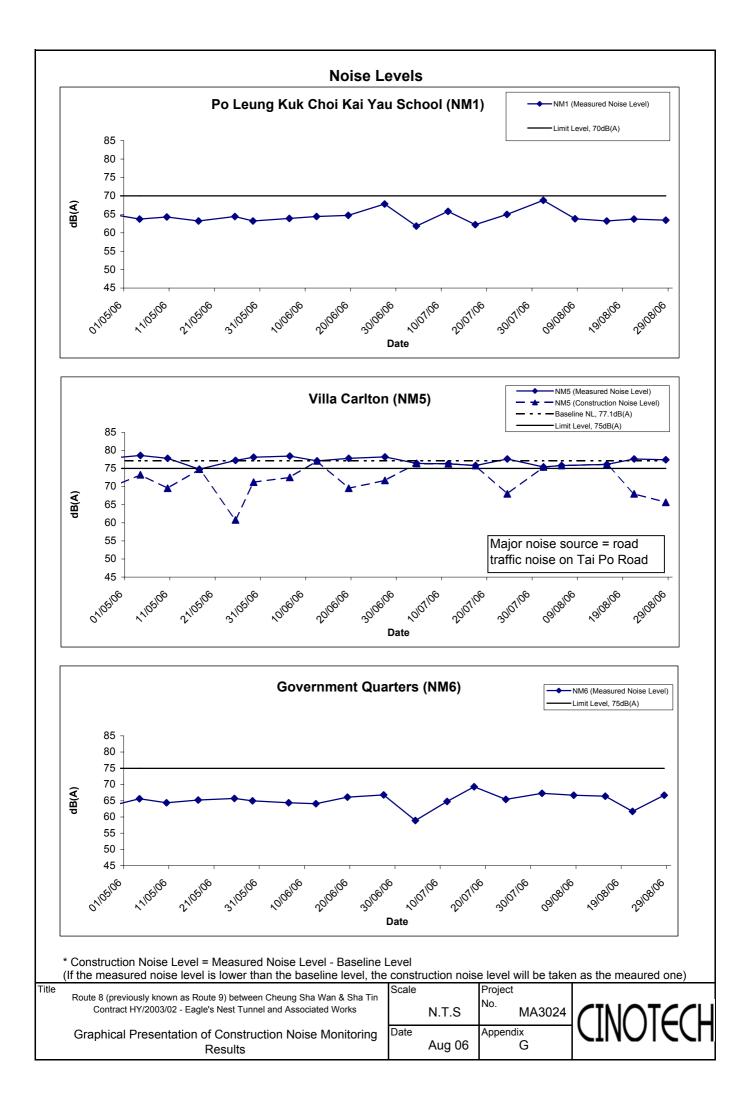
Location NM	5 - Villa	Carlton							
Dete	Time	Weather		dB	8 (A) (5-m	nin)	Baseline Level	Construction Noise Level	
Date	Time	Weather	L _{eq} L ₁₀ L ₉₀		Average L _{eq}	L _{eq}	L _{eq}	Remarks	
	23:50		72.6	77.5	705.0				
1-Aug-06	23:55	Cloudy	72.7	77.5	705.0	72.6		72.6, Measured \leq Baseline	
	00:00		72.4	77.0	69.5				
	23:00		72.6	77.5	68.5				
8-Aug-06	23:05	Cloudy	72.7	77.5	68.5	72.7		72.7, Measured \leq Baseline	
	23:10		72.7	77.5	69.0				
	23:00		72.5	77.5	70.5				The major noise source
15-Aug-06	23:05	Cloudy	72.7	77.5	70.5	72.5	74.3	72.5, Measured \leq Baseline	was identified as traffic
	23:10		72.4	77.5	71.0				noise from Tai Po Road.
	23:00		73.4	77.5	70.5				
21-Aug-06	23:05	Cloudy	73.6	77.5	71.0	73.4		73.4, Measured \leq Baseline	
	23:10		73.3	77.5	71.0				
	23:00		72.6	77.5	70.5				
28-Aug-06	23:05	Cloudy	72.5	77.0	70.5	72.6		72.6, Measured \leq Baseline	
	23:10		72.6	77.0	71.0				

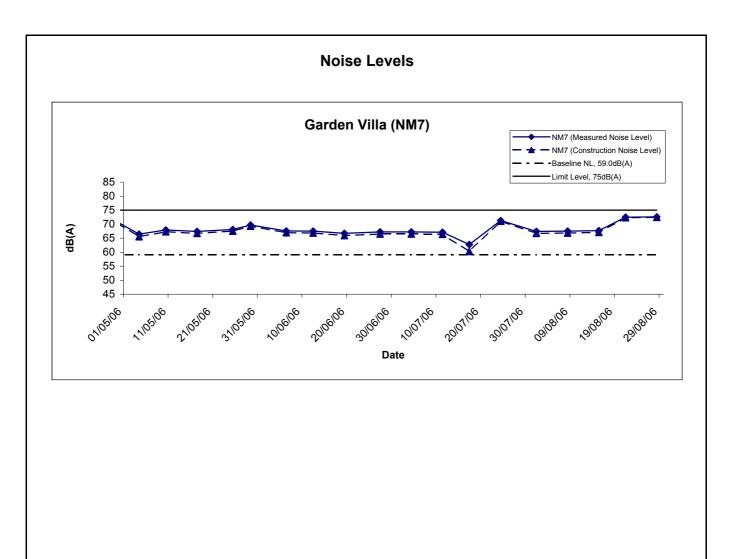
Location NM	6 - Gove	rnment Quai	rters						
Dete	Time	Weather		dB	5 (A) (5-m	nin)	Baseline Level	Construction Noise Level	
Date	Time	Weather	L _{eq} L ₁₀ L		L 90	Average L _{eq}	L _{eq}	L _{eq}	Remarks
	23:25		50.4	53.5	48.5				
1-Aug-06	23:30	Cloudy	50.6	54.0	48.5	50.5		50.5, Measured \leq Baseline	
	23:40		50.6	54.0	48.5				
	23:25		50.4	54.5	47.5				
8-Aug-06	23:30	Cloudy	50.3	54.5	47.5	50.4		50.4, Measured \leq Baseline	
	23:35		50.4	54.0	48.0				
	23:25		50.6	53.5	48.0				
15-Aug-06	23:30	Cloudy	50.6	53.5	48.5	50.5	52.8	50.5, Measured \leq Baseline	-
	23:35		50.3	53.0	48.5				
	23:25		50.1	53.5	47.5				
21-Aug-06	23:30	Cloudy	50.1	53.5	47.5	50.2		50.2, Measured \leq Baseline	
	23:35		50.3	54.0	48.0				
	23:25		50.7	53.5	48.5				
28-Aug-06	23:30	Cloudy	50.5	53.0	48.0	50.8		50.8, Measured \leq Baseline	
	23:35		50.7	53.5	3.5 48.0				

Location NM	7 - Gard	en Villa							
Data	Time			dB	s (A) (5-m	nin)	Baseline Level	Construction Noise Level	
Date	Time	Weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}	Remarks
	23:00		54.6	59.0	50.5				
1-Aug-06	23:05	Cloudy	55.1	59.5	50.0	54.8		54.8, Measured \leq Baseline	
	23:10		54.8	59.0	50.5				
	23:50		55.4	60.5	50.5				
8-Aug-06	23:55	Cloudy	55.1	60.0	50.0	55.2		55.2, Measured \leq Baseline	
	00:00		55.2	60.0	50.5				
	23:50		54.6	59.5	50.5				The major noise source
15-Aug-06	23:55	Cloudy	54.7	59.5	50.5	54.7	56.5	54.7, Measured \leq Baseline	was identified as traffic
	00:00		54.9	59.0	51.0				noise from Tai Po Road.
	23:50		54.3	59.0	50.5				
21-Aug-06	23:55	Cloudy	54.6	59.5	50.5	54.5		54.5, Measured \leq Baseline	
	00:00		54.6	59.5	50.5				
	23:50		54.7	59.5	51.0				
28-Aug-06	23:55	Cloudy	54.5	59.5	51.5	54.6		54.6, Measured \leq Baseline	
	00:00		54.6	59.5	51.5				

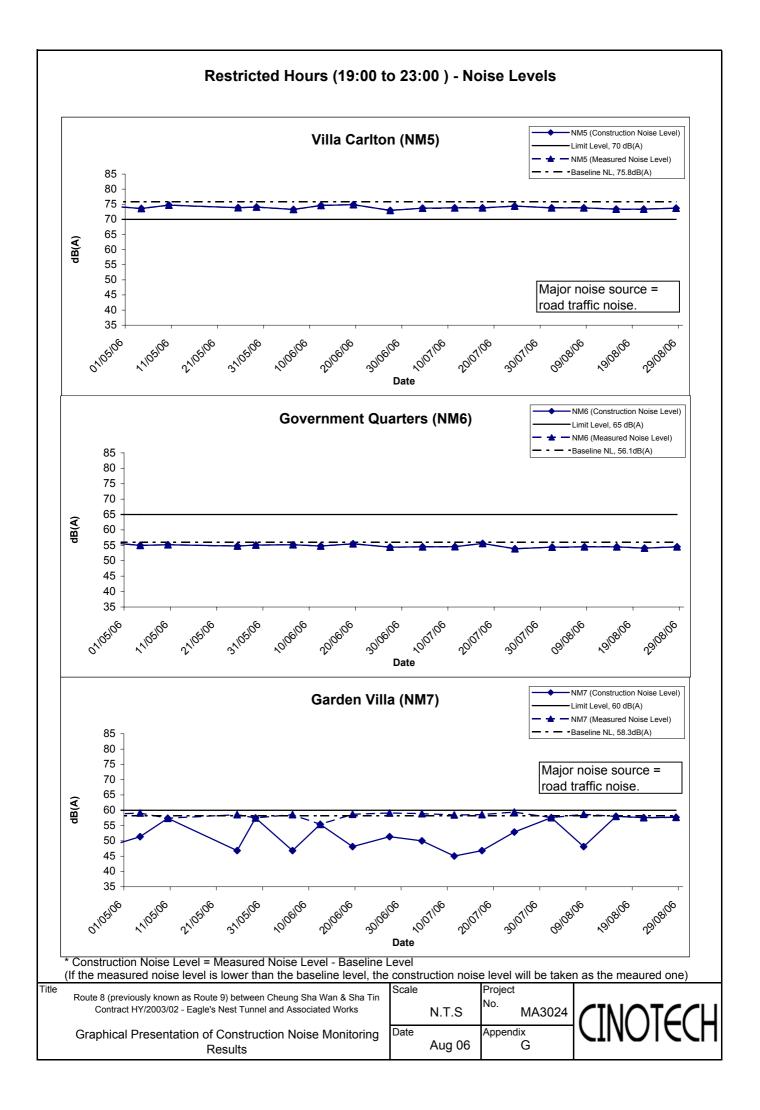
Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)

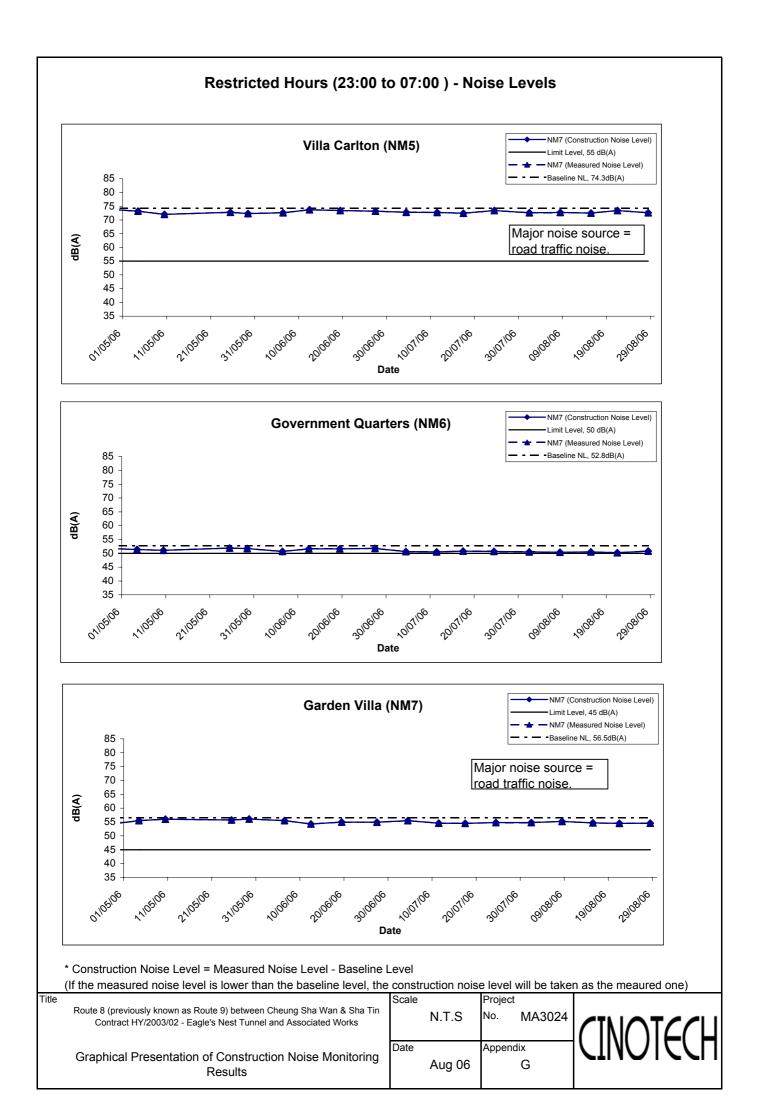
*Bolded value indicated limit level exceedance





	* Construction Noise Level = Measured Noise Level - Baseline L (If the measured noise level is lower than the baseline level, the		uction nois	e level v	will be take	n as the meaured one)
Title	Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin Contract HY/2003/02 - Eagle's Nest Tunnel and Associated Works	Scale		Project No.	MA3024	
	Graphical Presentation of Construction Noise Monitoring Results	Date	Aug 06	Append	lix G	





APPENDIX H SUMMARY OF EXCEEDANCE

Summary of Exceedance Recorded in the Reporting Month

a) Exceedance Reports for 1-hr TSP (NIL)

b) Exceedance Reports for 24-hr TSP (NIL)

c) Exceedance Reports for Construction Noise

• No Action Level exceedance was recorded in the reporting month.

• No Limit Level exceedance was recorded in the reporting month.

APPENDIX I SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	60802-ENT	
Date	2 Aug 2006 (Wed)	
Time	0930 - 1130	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	the second s

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	unel abouto se culo
	• No environmental deficiency was identified during the site inspection.	to at new Maple Lat
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
•	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• The environmental deficiency identified during last audit (ref. 60719-ENT)	
	19 July 2006, was rectified / improved by the Contractor. However, for the	
	item 60719-E01, the sand in step channel should be cleaned up if available. And it will be audited at next inspection day.	1968
	• The result of spot check for loaded truck leaving in all site area with cover at 0930-1130 are 6.	

	Name	Signature	Date
Recorded by	Tommy Ho	The	2 August 2006
Checked by	Attle Hui	And	2 August 2006

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	60807-ENT
Date	7 Aug 2006 (Mon)
Time	1400 - 1630

Ref. No.	Non-Compliance	Related Item No.
-	None identified	_

Ref. No.	Remarks/Observations	Related Item No
	A. Water Quality	
60807-001	• Accumulation of silt was observed at the area near by all Aquased System, at	B7iv&B9
	Toll Plaza. The Contractor was reminded to remove silt regularly and to	
	maintain the efficiency of the sedimentation system.	
60807-E02	• Stagnant water was observed at the area near to Storage Area of Toll Plaza.	B14
	The Contractor was reminded to remove/spray larvicide onto the stagnant	
	water preventing mosquitoes from breeding.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
60807-E03	• General refuses were scattered on the ground at the area of Storage Area, at	E1
	Toll Plaza. The Contractor was reminded to clean up the refuses and keep	
	site area tidiness.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• No environmental deficiency was identified in last audit (ref. 60802-ENT) 2	
	August 2006.	
	• During site inspection, the spot check for truck leaving from Site Area was	
	conducted at 1400-1630. A total number of truck leaving from all Site Area	
	was zero.	

	Name	Signature	Date
Recorded by	Attle Hui	After	7 August 2006
Checked by	Kenneth Lam	Kom Ailles	7 August 2006

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	60816-ENT
Date	16 Aug 2006 (Wed)
Time	0915 - 1130

Ref. No.	Non-Compliance	Related Item No.
-	None identified	

Ref. No.	Remarks/Observations	Related Item No
60816-E01	 A. Water Quality Stagnant water was observed on the ground floor of S.H.T. South Portal Building. The Contractor was reminded to remove/spray larvicide onto the stagnant water preventing mosquitoes from breeding. 	B14
	B. Air Quality	
*	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• The environmental deficiency identified during last audit (ref. 60807E) 07 August 2006, was rectified / improved by the Contractor	
	 During site inspection, the spot check for truck leaving from Site Area was conducted at 0915-1130. A total number of truck leaving from Site Area was zero. 	

	Name	Signature	Date
Recorded by	Edmond Wu	TAS	16 August 2006
Checked by	Attle Hui	1 Mars	16 August 2006

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	60823-ENT
Date	23 Aug 2006 (Wed)
Time	0930 – 1130

Ref. No.	Non-Compliance	Related Item No.
-	None identified	indu chores destroying spinster og obter ved om hands

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
60823E-01R	• Some domestic waste was observed on bared ground at south portal building.	E1i
	It should be cleaned up and placed in suitable receptacle.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• The environmental deficiency identified during last audit (ref. 60816-ENT)	
	16 August 2006, was rectified / improved by the Contractor.	J
	• Spot checking for loaded truck leaving the site was conducted between 0930 and 1130. The number of the truck observed was Q .	

	Name	Signature	Date
Recorded by	Tommy Ho	-6	23 August 2006
Checked by	Edmond Wu	AL I	23 August 2006

Weekly Site Inspection Record Summary

Inspection Information

Dof No

Checklist Reference Number	60830-ENT
Date	30 Aug 2006 (Wed)
Time	0915 - 1145

Ref. No.	Non-Compliance	Related Item No
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No
	A. Water Quality	well they add.
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• The environmental deficiency identified during last audit (ref. 60823-ENT)	
	23 August 2006, was rectified / improved by the Contractor.	
	• No environmental deficiency was identified during the site inspection.	
	• Spot checking for loaded truck leaving the site was conducted between 0930 and 1130. The number of the truck observed was 0.	

	Name	Signature	Date
Recorded by	Edmond Wu	VAI	30 August 2006
Checked by	Attle Hui	CA C	2 30 August 2006

APPENDIX J EVENT ACTION PLANS

Appendix J - Event Action Plans

Event/Action Plan for Air Quality

EVENT	ACTION				
EVENT	ET	IEC	ER	Contractor	
ACTION LEVEL					
1. Exceedance for one	1. Identify source	1. Check monitoring data submitted by ET	1. Notify Contractor	1. Rectify any unacceptable practice	
sample	2. Inform ER & IEC	2. Check Contractor's working methods	2. Check monitoring data and Contractor's	2. Amend working methods if	
	3. Repeat measurement to confirm finding		working methods	appropriate	
	4. Increase monitoring frequency to daily				
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Submit proposals for remedial	
more consecutive samples	2. Inform ER & IEC	ET	in writing	actions to ER within 3 working days	
	3. Repeat measurement to confirm findings	2. Check Contractor's working methods	2. Notify Contractor	of notification	
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	2. Implement the agreed proposals	
	5. Discuss with ER & for remedial actions	possible remedial measure	4. Discuss with ET, IEC and Contractor on	3. Amend proposal if appropriate	
	required	4. Advise the ER & ET on the effectiveness	proposed remedial actions		
	6. If exceedance continues, arrange	of the proposed remedial measures	5. Ensure remedial actions properly		
	meeting with ER & IEC	5. Supervise the implementation of the	implemented		
	7. If exceedance stops, cease additional	remedial measures			
	monitoring				
LIMIT LEVEL					
1. Exceedance for one	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid	
sample	2. Inform ER & IEC and EPD	ET	in writing	further exceedance	
	3. Repeat measurement to confirm finding	2. Check Contractor's working methods	2. Notify Contractor	2. Submit proposals for remedial	
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	actions to ER within 3 working days	
	5. Assess effectiveness of Contractor's	possible remedial measure	4. Discuss with ET, IEC and Contractor on	of notification	

EVENT	ACTION				
EVENI	ET	IEC	ER	Contractor	
	remedial actions and keep EPD and ER &	4. Advise the ER & ET on the effectiveness	proposed remedial actions	3. Implement the agreed proposals	
	IEC informed of the results	of the proposed remedial measures	5. Ensure remedial actions properly	4. Amend proposal if appropriate	
		5. Supervise the implementation of the	implemented		
		remedial measures			
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid	
more consecutive samples	2. Inform ER, IEC, Contractor and EPD	ET	in writing	further exceedance	
	the cause & actions taken for the	2. Discuss amongst ER, ET and Contractor	2. Notify Contractor	2. Submit proposals for remedial	
	exceedances	on possible remedial measures	3. Carry out analysis of Contractor's	actions to IEC, ER within 3 working	
	3. Repeat measurement to confirm findings	3. Review Contractor's remedial measures	working procedures to determine possible	days of notification	
	4. Increase monitoring frequency to daily	whenever necessary to ensure their	mitigation to be implemented	3. Implement the agreed proposals	
	5. Investigate the causes of exceedance	effectiveness and advise the ER	4. Discuss amongst ET, IEC and the	4. Resubmit proposals if problem	
	6. Carry out analysis of contractor's	accordingly	Contractor on proposed remedial actions	still not under control	
	working procedures to determine possible	4. Supervise the implementation of the	5. In consultation with IEC, agree with the	5. Stop the relevant portion of works	
	mitigation to be implemented.	remedial measures	contractor remedial measures to be	as determined by the ER until the	
	7. Arrange meeting with EPD, IEC and ER		implemented	exceedance is abated	
	to discuss the remedial actions to be taken		6. Ensure remedial measure are properly		
	8. Assess effectiveness of Contractor's		implemented		
	remedial actions and keep EPD and ER &		7. If exceedance continues, consider what		
	IEC informed of the results		portion of the work is responsible and		
	9. If exceedance stops, cease additional		instruct the Contractor to stop that portion		
	monitoring		of work until the exceedance is abated		

Event/Action Plan for Construction Noise

Exceedance		ACTIO	N	
Exceedance	ET	.IEC	ER	Contractor
Action Level	1. Discuss with the IEC and ER and seek to	1. Review the analyzed results submitted	1. Confirm receipt of notification of	1. Submit proposals for remedial
	identify potential noise source	by the ET	complaint and notify Contractor	actions to ER within three working
			immediately	days of notification
	2. Undertake noise measurement to	2. Review the proposed remedial measures	2. Check monitoring data trends and	2. Amend proposals if required by
	confirm the validity of complaint	by the Contractor and advise the ER & ET	Contractor's working methods	the Engineer
		accordingly		
	3. Inform ER&IEC in writing	3. Supervise the implementation of	3. Remind the Contractor of his contractual	3. Implement the remedial actions
	Discuss remedial actions required with	remedial measures	obligations and discuss with ET, IEC and	immediately upon instruction
	ER&IEC if an exceedance is recorded		Contractor on proposed remedial actions	
	4. Increase monitoring frequency to		4. Assess the efficacy of remedial actions	4. Liaise with the ER to optimize the
	demonstrate efficacy of remedial measures		and keep the Contractor informed	effectiveness of the agreed
				mitigation
	5. If exceedance continues, meet with		5. Inform complainant of actions taken	5. Amend proposal if appropriate
	ER&IEC to review implementation of			
	appropriate mitigation measures.			
	6. If exceedance stops, cease additional			
	monitoring			

E		ACTION					
Exceedance	ET	IEC	ER	Contractor			
Limit Level	1. Repeat measurement to confirm findings	1. Check monitoring data submitted by ET	1. Confirm receipt of notification of	1. Take immediate action to avoid			
			exceedance and notify Contractor	further exceedance			
	2. Investigate the cause of the exceedance	2. Review Contractor's remedial actions to	2. Check monitoring data trends and	2. Submit proposals for remedial			
	and identify the main source(s) of impact	assure their effectiveness and advise the	Contractor's working methods	actions to ER immediately not more			
		ER &ET accordingly		than 3 working days of notification			
	3. Inform ER&IEC and EPD in writing	3. Supervise the implementation of the	3. Discuss with ET, IEC and Contractor on	3. Amend proposals if required by			
		remedial measures	proposed remedial actions to be	the ER			
			implemented				
	4. Discuss remedial actions required with		4. Assess the efficacy of remedial actions	4. Implement remedial actions			
	ER&IEC		and keep the Contractor informed	immediately upon instruction			
	5. Increase monitoring frequency to		5. If exceedance continuous, consider what	5. Liaise with the ER to optimize the			
	demonstrate efficacy of remedial measures		portion of the work is responsible and	effectiveness of the agreed			
			instruct the Contractor to stop that portion	mitigation			
			of work until the exceedance is aborted				
	6. Assess efficacy of remedial actions and			6. Resubmit proposals if problem			
	keep ER & IEC informed of the results			still not under control			
	7. If exceedance continues, meet with			7. Stop the relevant portion of works			
	ER&IEC to identify appropriate mitigation			as determined by the ER until the			
	measures			exceedance is aborted			
	8. If exceedance stops, cease additional						
	monitoring						

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Types of Impacts	Mitigation Measures
Construction Dust	 Any stockpile of dusty materials or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet. A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones. Vehicle washing facilities should be provided at every exit point. The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet. The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials. Any stockpile of dusty materials should be either covered entirely be impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet. All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. Every vehicle should be sprayed with water or a dust suppression chemical immediately before leaving a construction site. The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before leaving a construction site. The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before leaving a constru
Construction Noise	 Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works. Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS. Mobile plant should be sited as far away from NSRs as possible. Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site
	 Waternal stockplies and other structures should be effectively utilised, where practicable, to screen holse from on-site construction activities. Use quite plant and Working Method

Status

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Appendix K - Summary of Environmental Mitigation Implementation Schedule

• Reduce the number of plant operating in critical areas close NSRs.

Types of Impacts	Mitigation Measures	Status
	Construct temporary and movable noise barriers	^
Water Quality	Construction Runoff and Drainage	
	• Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow.	^
	• Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates.	^
	• All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the temporary diversion is no longer required	۸
	• Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads, should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains.	۸
	• Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	^
	• Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks.	^
	• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	^
	• Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.	٨
	 All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor. 	^
	Tunnelling Work	
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials form the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.	^
	• Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt.	^

Types of Impacts	Mitigation Measures	Status
	• Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill.	N/A
	General Construction Activities	
	• Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.	^
	• All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest).	^
	Sewage Effluent	
	• Construction work force sewage discharges form fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities.	^
Waste	• It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away form streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans.	N/A
Waste	General	
	• Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site waste management plan.	٨
	Storage, Collection and Transportation of Waste	
	• Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage.	^
	 Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits. 	^
	• Waste shall be removed on a daily basis.	^
	• Waste storage area shall be maintained and cleaned on a daily basis.	^
	• Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers.	^
	 Obtain necessary waste disposal permits from the appropriate authorities if they are required. 	^
	• Wastes shall be disposed of at licensed waste disposal facilities.	^
	• Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	^
	 Maintain records of the quantities of wastes generated, recycled and disposed. 	~

Types of Impacts	Mitigation Measures	Status
	Surplus Excavated Materials	
	• Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall.	^
	Construction and Demolition (C&D) Waste	
	• Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.	^
	 The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage. 	N/A
	• Construction and demolition (C&D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill.	^
	Chemical Waste	
	• Chemical waste that is produce during construction shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.	^
	 Containers used for the storage of chemical wastes should: a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; 	~
	 c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; 	
	 c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; 	^
	e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary);f. Be arranged so that incompatible materials are adequately separated.	
	 Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a reuser of the waste (under approval from EPD). 	^

Types of Impacts	Mitigation Measures	Status
	General Refuse	
	• General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.	^
	• Reusable rather than disposable dishware shall be used if feasible.	^
	• A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.	N/A
	• Conduct a tree survey before commencement of the construction work.	^
Ecology	• All measures recommended in the approved landscape proposals under Condition 2.4 in EP above shall be fully implemented in accordance with the details and time schedule set out in the submission.	N/A
	• Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately.	N/A
	• Wild and uncontrolled fire shall be strictly prohibited	^
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A
	 Landscape mitigation measure 1 (LMM1) – Construction programming and management. The periphery of the works areas at street level shall be managed so that they do not appear cluttered, untidy and unattractive and inconvenient to pedestrians. For example, all hoarding shall be colorfully designed with interesting motifs demonstrating the work of Highways Department. Hoardings with bland colours shall be avoided. 	^
Landscape and Visual Impact	 Landscape mitigation measure 2 (LMM2) – Advanced planting and erosion control works. Where possible, the transplantation of existing valuable trees, the stockpiling of topsoil, new planting and erosion control works shall be carried out as early as possible in the construction period instead of at the end. This will assist in maximizing the time for carrying out transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting of topsoil will provide an abundant use of on-site material for growing media. During detailed design, the issue of stockpiling of topsoil in a manner that would avoid washing into the drainage scheme should be examined comprehensively. 	٨
	 Measurement of vibration would also be carried out on a need basis during the piling work 	^

Remarks:	^	Compliance of mitigation measure;	Х	Non-compliance of mitigation measure;
	N/A	Not Applicable;	•	Non-compliance but rectified by the contractor

APPENDIX L CONSTRUCTION PROGRAMME

Data Date Run Date	20AUG06 25AUG06 16:04			3 MON	ITH RO	OLLING	PRC	GRA	MME		Monthly Upc Detailed Wo Progress Ba Critical Activ	rks Proo r	gr.(DW	P) rı			
Act.	Activity	Orig Dur		Early Finish	% Compl.	Target 1 % Comp		Total Float		JUN 33	JUL 34	AU 35		SEP 36	OCT 37	NOV 38	DEC 39
GENER	Description	Dur	Start	Finish	Compi.	% Comp	Dur	Float	Early Finish	12 19 26	,3 ,10 ,17 ,24 ,3	1 ₁ 7 ₁ 14	21 28	4 ₁ 11 18 25	2 9 16 23 3	0 ₆ ₁ 13 20 2	27 <mark>4</mark> 11
	t defined dates, stages and sections																
	of the Works																
KD05A2	KD-05A Proposed - TCSS Access BV West (15May06)	0		05SEP06	0	0	0	-113	-36					♦			
KD05C1	KD-5C TCSS Access Toll Plaza East(30Jun06)	0		17OCT06	0	0	0	-109	-89		Ŷ				•		
KD05C2	KD-5C TCSS Access Toll Plaza West(15Aug06)	0		17OCT06	0	0	0	-63	-42		>			Û	•		
KD06V	KD-6V TCSS Acc to Adit - incl VB & CP7 (12Jun06)	0		24AUG06	0	0	0	-73	-70	Ŷ			•				
KD07A	KD-7 TCSS Access Toll Plaza east (30.Jun.06)	0		17OCT06	0	0	0	-109	-89		Ŷ				•		
KD08A	KD-8 TCSS Access Toll Plaza West (15.Aug.06)	0		17OCT06	0	0	0	-63	-42		>			Ŷ	•		
Submit	tals & Approvals																
	g Submittal & Approval				-		1	1 1						-			
8034	Prep.& Sub. Independ't Serv. Dwgs for SHT&T3&LCK	48	04AUG04A	02SEP06	98	98	12	336	-90]			
8024	Engineer Comment / Approve ENT ISD Submissions	18	06AUG04A	29AUG06	85	85	8	14	-90								
8030	Res-sub. & Approv of ENT ISD	24	06SEP04A	02SEP06	70	70	12	14	-90					ן			
8035	Engineer Comment / Approve SHT&T3LCK ISD Sub.	24	13SEP04A	30SEP06	85	85	36	336	-90								
8032	Engineer Comment / Approve SHT&T3&LCK CSD Sub.	18	250CT04A	06SEP06	90	90	15	336	-90								
8036	Re-sub. & Approv of SHT & T3 & LCK ISD	36	31MAR05A	30SEP06	70	70	36	336	-90					[
8033	Re-sub. & Approv. of SHT & T3 & LCK CSD	24	28JUN05A	16SEP06	60	60	24	336	-90								
8022	Engineer Comment / Approve ENT CSD Submissions	12	21AUG06	02SEP06	0	0	12	336	-90]			

	LEIGHTON - KUMUGAI JV	Proj. Name: W22E		LKJV/ENT/DWP	/B	
THE ACT		Layout: 3 MONTHS ROLLING PROGRAMME	Date	Revision	Checked	Approvec
		Filter: 3 MONTH ROLLING PROGRAMME Current Proi: W22E	20AUG0	Prog update Aug 06	GW	RB
Leighton – Kumagai Joint Venture	R8 - EAGLES'S NEST TUNNEL	Target 1 Proj: BE02				
Joint Venture		·				
	CONTRACTORS TARGET PROGRAMME REV.1	Sheet 1 of 47				
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ID Description Dur Start Finish Commol, % Comp Dur Four Park Tay parts	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN 33	JUL 34	AU(SEP 36	OCT 37	NOV 38	DEC
0029 Re-sub. & Approv. of ENT CSD 24 04SEP06 0 0 24 336 -90 LAI CHI KOK VIADUCT Construction Works LCN Viadue: Noise Enclosure 1 EXX Viadue: Noise Enclosure 1 Sign Colspan="4">Construction Works Is Fix Construction Works Is Fix Construction Works Is Fix Construction Works Is Fix Construction Works Is Fix Sign Colspan="4">Construction Works Is Fix Construction Works Is Fix Sign Colspan="4">Construction Works Is Fix Sign Colspan= 4 C	ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish		34 3 10 17 24	<u> </u>	21 2	30 3 4 11 18 25 2 9	16 23 3	38 0 6 13 20 2	7 4 11
LAI CHI KOK VIADUCT Construction Works LAY Madex Noise Enclosure 1 B322 (LAVG NET-Elect Works 19 Fix 36 21 AUG06* 30 50 0 30 30 -90 B322 (LAVG NET-Elect Works 19 Fix 30 300 CT06 69N0/V06 0 0 30 -73 B322 (LAVG NET-Elect Works 2nd Fix 30 030CT06 69N0/V06 0 0 18 30 -73 B352 (LAVG NET-Elect Works Fin Fix 18 69N0/V06 29N0/V06 0 0 30 -73 B352 (LAVG NET-Elect Works Fin Fix 18 69N0/V06 300 CT06 0 0 30 -90 7400 (LAVG NE2-Elect Works 19 Fix 36 21 AUG06* 30SEP06 0 0 30 -90 7400 (LAVG NE2-Elect Works 2nd Fix 30 03OCT06 69N0/V06 0 0 18 30 -73 7400 (LAVG NE2-Elect Works 19 Fix 18 08N0/V06 30 SP06 0 0 18 30 -73 7400 (LAVG NE2-Elect Works 19 Fix 18 08N0/V06 0 0 18 30																		
Object State Stat	8029	Re-sub. & Approv. of ENT CSD	24	04SEP06	30SEP06	0	0	24	336	-90								
LOK Visiduation Noise Enclosure 1 36 21 AUG06* 308EP06 0 <t< td=""><td>LAI CHI</td><td>KOK VIADUCT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	LAI CHI	KOK VIADUCT																
8322 LdkVd NE1-Elect Works 1st Fix 36 21AUG06* 305EP06 0 0 36 -30 -90 8332 LdkVd NE1-Elect Works 2nd Fix 30 300CT06 08N0V06 0 0 30 -30 -90 8342 LdkVd NE1-Elect Cabling ENT SPB to N.E. 18 09N0V06 29N0V06 0 0 18 -30 -73 8352 LdkVd NE1-Elect Works Fin Fix 18 09N0V06 29N0V06 0 0 18 -30 -90 LCK Viaduct Noise Enclosure 2	Constru	ction Works																
332 LikVd NE1-Elied Works 2nd Fix 30 030CT06 08N0V06 0	LCK Via	duct Noise Enclosure 1																
3342 LekVd NE1- Elect Cabling ENT SPB to N.E. 18 0eNOV06 29NOV06 0 18 -30 -73 3352 LekVd NE1 Elect Works Fin Fix 18 0eNOV06 29NOV06 0 0 18 -30 -73 18 0ENOV06 29NOV06 0 0 18 -30 -73 18 0ENOV06 29NOV06 0 0 0 18 -30 -90 10 LekV IntE1 Elect Works Fin Fix 36 21AUG06* 30SEP06 0 0 30 -90 7400 LekV INE2-Elect Works 2nd Fix 30 03OCT06 08NOV06 0 0 30 -90 7430 LekV INE2-Elect Works 18 Fix 18 09NOV06 0 0 18 -30 -73 7430 LekV INE2 Elect Works 18 Fix 18 09NOV06 0 0 18 -30 -90 6737 LekV INE3 Elect Works 2nd Fix 60 03OCT06 13DEC06 0 -60 -60 -90 -60 -90 -60 -90 -60 -90 <td< td=""><td>8322</td><td>LckVd NE1-Elect Works 1st Fix</td><td>36</td><td>21AUG06*</td><td>30SEP06</td><td>0</td><td>0</td><td>36</td><td>-30</td><td>-90</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	8322	LckVd NE1-Elect Works 1st Fix	36	21AUG06*	30SEP06	0	0	36	-30	-90								
8382 LckV vide I Elied Works Fin Fix 18 09NOV06 29NOV06 0 18 -30 -30 LCK Viaduct Noise Enclosure 2	8332	LckVd NE1-Elect Works 2nd Fix	30	03OCT06	08NOV06	0	0	30	-30	-90								
LCK Viduct Noise Enclosure 2	8342	LckVd NE1- Elect Cabling ENT SPB to N.E.	18	09NOV06	29NOV06	0	0	18	-30	-73			_		-			•
7400 LckVd NE2-Elect Works 1st Fix 36 21 AUG06* 30SEP06 0 0 36 -90 7410 LckVd NE2-Elect Works 2nd Fix 30 03OCT06 08NOV06 0 0 30 -90 7420 LckVd NE2-Elect Cabiling ENT SPB to N.E. 18 09NOV06 29NOV06 0 0 18 -30 -73 7430 LckVd NE2-Elect Works 1in Fix 18 09NOV06 29NOV06 0 0 18 -30 -90 6737 LckVd NE2 Elect Works 1in Fix 18 09NOV06 29NOV06 0 0 18 -90 6737 LckVd NE3 & Elect Works 1in Fix 72 21 AUG06* 15NOV06 0 0 72 -60 -90 6757 LckVd NE3 Elect Works 2nd Fix 60 03OCT06 13DEC06 0 0 24 -60 -90 67677 LckVd NE3 Elect Works 1in Fix 24 21NOV06 02JAN07 0 0 24 -60 -90 6807 E&M at Lai Won Ovarpasa Pump House 6 075EP06 0 0 6	8352	LckVd NE1 Elect Works Fin Fix	18	09NOV06	29NOV06	0	0	18	-30	-90								•
7410 LckVd NE2-Elect Works 2nd Fix 30 030CT06 08NOV06 0 0 30 -30 -90 7420 LckVd NE2-Elect Cabling ENT SPB to N.E. 18 09NOV06 29NOV06 0 0 18 -30 -73 7430 LckVd NE2-Elect Works Fin Fix 18 09NOV06 29NOV06 0 0 18 -30 -90 LCK Viaduet Noise Enclosure 3 6737 LckVd NE3 Elect Works 1st Fix 72 21AUG06* 15NOV06 0 0 72 -60 -90 6747 LckVd NE3 Elect Works 2nd Fix 60 03OCT06 13DEC06 0 0 72 -60 -90 6757 LckVd NE3 Elect Works 1st Fix 72 21AUG06* 15NOV06 0 0 60 -90 6767 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 024 -60 -90 6767 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 024 -60 -90 6807 EAM at Lai Wan Overpass Pump House 6 <td>LCK Via</td> <td>duct Noise Enclosure 2</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>	LCK Via	duct Noise Enclosure 2		· · · · · · · · · · · · · · · · · · ·														
7420 LckVd NE2- Elect Cabling ENT SPB to N.E. 18 09NOV06 29NOV06 0 0 18 -30 -73 7430 LckVd NE2- Elect Works Fin Fix 18 09NOV06 29NOV06 0 0 18 -30 -90 LCK Viaduct Noise Enclosure 3 6737 LckVd NE3 & Elect Works 1st Fix 72 21AUG06* 15NOV06 0 0 72 -60 -90 6747 LckVd NE3 & Elect Works 2nd Fix 60 03OCT06 13DEC06 0 0 60 -90 6757 LckVd NE3 Cabling ENT SPB to N.E. 3 24 21NOV06 02JAN07 0 0 24 -60 -90 67677 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 0 24 -60 -90 67677 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 0 24 -60 -90 67677 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 0 6 47 -91 6807 EAM at Lai	7400	LckVd NE2-Elect Works 1st Fix	36	21AUG06*	30SEP06	0	0	36	-30	-90								
7430 LckVd NE2 Elect Works Fin Fix 18 09NOV06 29NOV06 0 18 -30 -90 LCK Viaduct Noise Enclosure 3	7410	LckVd NE2-Elect Works 2nd Fix	30	03OCT06	08NOV06	0	0	30	-30	-90								
LCK Viaduct Noise Enclosure 3 Image: Control of the second se	7420	LckVd NE2- Elect Cabling ENT SPB to N.E.	18	09NOV06	29NOV06	0	0	18	-30	-73					-			•
6737 LckVd NE3 & Elect Works 1st Fix 72 21AUG06* 15NOV06 0 0 72 -60 -90 6747 LckVd NE3 Elect Works 2nd Fix 60 030CT06 13DEC06 0 0 60 -90 6757 LckVd NE3 Cabling ENT SPB to N.E. 3 24 21NOV06 02JAN07 0 0 24 -60 -90 6767 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 0 24 -60 -90 6767 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 0 24 -60 -90 6807 E&M at Lai Wan Overpass Pump Houses 6 07SEP06 13SEP06 0 0 6 47 -91 6817 E&M at Lai Po Rd Pump House 6 14SEP06 20SEP06 0 0 6 47 -91 6827 E&M at Wai Man Tsuen Pump House 6 21SEP06 0 0 6 47 -91	7430	LckVd NE2 Elect Works Fin Fix	18	09NOV06	29NOV06	0	0	18	-30	-90		_						•
6747 LckVd NE3 Elect Works 2nd Fix 60 03OCT06 13DEC06 0 0 60 -90 -	LCK Via	duct Noise Enclosure 3	1	ļ <u> </u>														
6757 LckVd NE3 Cabling ENT SPB to N.E. 3 24 21NOV06 02JAN07 0 00 24 60 -90 1 <td>6737</td> <td>LckVd NE3 & Elect Works 1st Fix</td> <td>72</td> <td>21AUG06*</td> <td>15NOV06</td> <td>0</td> <td>0</td> <td>72</td> <td>-60</td> <td>-90</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	6737	LckVd NE3 & Elect Works 1st Fix	72	21AUG06*	15NOV06	0	0	72	-60	-90								
6767 LckVd NE3 Elect Works Fin Fix 24 21NOV06 02JAN07 0 0 24 -60 -90 -	6747	LckVd NE3 Elect Works 2nd Fix	60	03OCT06	13DEC06	0	0	60	-60	-90								
CMCS Leased Lines at Pump Houses 6 07SEP06 13SEP06 0 0 6 47 -91 0 <	6757	LckVd NE3 Cabling ENT SPB to N.E. 3	24	21NOV06	02JAN07	0	0	24	-60	-90								
6807 E&M at Lai Wan Overpass Pump House 6 07SEP06 13SEP06 0 0 6 47 -91 6817 E&M at Lai Po Rd Pump House 6 14SEP06 20SEP06 0 0 6 47 -91 6827 E&M at Wai Man Tsuen Pump House 6 21SEP06 27SEP06 0 0 6 47 -91 BUTTERFLY VALLEY Contract Key Dates & Milestones Area Access & Vacation Dates	6767	LckVd NE3 Elect Works Fin Fix	24	21NOV06	02JAN07	0	0	24	-60	-90								
6807 E&M at Lai Wan Overpass Pump House 6 07SEP06 13SEP06 0 0 6 47 -91 6817 E&M at Lai Po Rd Pump House 6 14SEP06 20SEP06 0 0 6 47 -91 6827 E&M at Wai Man Tsuen Pump House 6 21SEP06 27SEP06 0 0 6 47 -91 BUTTERFLY VALLEY Contract Key Dates & Milestones Area Access & Vacation Dates	CMCS L	eased Lines at Pump Houses																
6827 E&M at Wai Man Tsuen Pump House 6 21SEP06 27SEP06 0 0 6 47 -91 BUTTERFLY VALLEY Contract Key Dates & Milestones Area Access & Vacation Dates Image: Contract Key Dates & Milestones Image: Contract Key Dates & Milesto			6	07SEP06	13SEP06	0	0	6	47	-91								
BUTTERFLY VALLEY Contract Key Dates & Milestones Area Access & Vacation Dates	6817	E&M at Lai Po Rd Pump House	6	14SEP06	20SEP06	0	0	6	47	-91								
Contract Key Dates & Milestones Area Access & Vacation Dates	6827	E&M at Wai Man Tsuen Pump House	6	21SEP06	27SEP06	0	0	6	47	-91								
Area Access & Vacation Dates																		
	Contrac	t Key Dates & Milestones																
								-										
	ACS_A	Access to Portions - A	0	200CT03A		100	100	0		-108								

Act.	Activity	Orig Early	Early	%	Target 1		Total		JUN 33	JUL 34	AUG 35	i	SEP 36	OCT 37	NOV 38	DEC 39
ID	Description	Dur Start	Finish	Compl.	% Comp	Dur	Float	Early Finish		26 3 10 17 24		21 28 4				7 4 11
Constru	uction Works															
BUTTE	RFLY VALLEY 3RD PARTY WORKS															
TCSS a	t Butterfly valley Approach															
S2462	TCSS Access to Gantry MLS-CAP13 (NB) (15MAY06)	0	28AUG06	0	C	0 0	-88	-82				•				
S2602	TCSS Access to Gantry MLS-CAP11 (NB) (15MAY06)	0	28AUG06	0	C	0 0	-88	-82				•				
S2622	TCSS Access to Gantry MLS-CAP12 (SB) (11JUN06)	0	28AUG06	0	C	0 0	-66	-82				•				
S2632	TCSS Access to VMS MLS-CAP14,15 (11JUN06)	0	29AUG06	0	C	0 0	-67	-82				•				
S2592	TCSS Access to Duct & D.Pit West BV (15MAY06)	0	05SEP06	0	C	0 0	-95	-31		1	Ļ		•			
S2392	TCSS Access to Duct & D.Pit East BV (11JUN06)	0	30SEP06	0	C	0	-95	-19					Ŷ			
Noise Ba	arrier Works by ACCIONA				l 	1		I								
	Access for 7m N.B. Works by Acciona at BV South	77 21AUG	06 21NOV06	0	C) 77	-34	-56								
S2612	Access for S-Enclosure Works (Primary Elements)	90 21AUG	06 06DEC06	0	C	90	-153	-48								
S2662	Access for 5m N.B. Works by Acciona at BV South	90 18SEP0	6 06JAN07	0	C	90	258	-48								
BUTTE				I	ļ	1	1	1								
Noise E	nclosure 6 at South Portal Area															
	LckVd NE6 - Elect Works 1st Fix	30 25NOV0	6* 02JAN07	0	C) 30	-68	-48					-		–	
Butterfly	y Valley Miscellaneous E&M Works															
	Butterfly Valley - Elect Works 1st Fix	42 21SEP0	6 11NOV06	0	C) 42	17	-17								
8430	Butterfly Valley - Elect Works 2nd Fix	36 06OCT	6 18NOV06	0	C	36	17	-17								
8410	Butterfly valley - Elect Works Fin Fix	24 28OCT	6 25NOV06	0	C	24	17	-17								
8420	Butterfly Valley - Cabling	24 28OCT	6 25NOV06	0	C	24	17	-17								
MAJOR	DRAINAGE DIVERSIONS		1	1	1	1	1	1								
Filling																
S2680	Fill on top of Box Culvert 45 & culvert A	9 11SEP0	6 09OCT06	0	C) 9	331	-89	_							
Box Cul	lvert															
S2710	Box Cul. Final Structure (Strip, Clean & Fill)	12 21AUG	090CT06	0	C) 12	331	-119			C					
S2800	Culvert A Structure & connection to Bay 45	18 21AUG	06 09SEP06	0	C) 18	345	-75			C					
		1 1	l		1	_		1							-	

Act.	Activity	Orig	Early	Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35		SEP 36	<u>ОСТ</u> 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish				21 28		2 9 16 23 3		7 4 11
EARTH	NORKS & SLOPEWORKS																
	Remaining Works																
S3240	BV-R1 - Construction of Lagging Wall	91	20MAR06A	23SEP06	60	5	30	-10	-45								
S2120	Retaining Wall BV-R1 Structure (Wall)	87	13FEB06A	25AUG06	92	70	5	-158	-71								
S2360	BV-R1 - Backfill	48	10MAY06A	08SEP06	70	0	7	355	-35								
SLOPE S	SP-S2 & SP-S3				1 1												
S2370	Remaining Works to Slopes SP-S3 & SP-S2	24	19JUL06A	02SEP06	5	0	8	69	-60								
S2480	WSD Access Rd No Longer Available for Use	0		31OCT06*	0	0	0	0	0			>				l.	
SLOPE I	3V-S2	1	· · · · · · · · · · · · · · · · · · ·				1										
SLOPE ST	ABILISATION (SOIL NAILS, ROCK BOLTS ETC)																
102691	BV-S2/8 Inst.Rock bolts & Test (60nr.w/3.rig)	22	15FEB06A	23AUG06	90	75	3	54	-87								
102694	BV-S2/9 Inst.Rock bolts & Test (4nr.w/1.rig)	5	28MAR06A	21AUG06	60	15	1	55	-89								
20.500.130	0.180.035	1	1 1		1 1		1										
103811	BV-S2 Berm 9 hydro-seeding & tensar mat	12	01SEP06	14SEP06	0	0	12	47	-88				P				
103812	BV-S2 Berm 10 hydro-seeding & tensar mat	12	18SEP06	30SEP06	0	0	12	45	-90						כ		
SURFACE	DRAINAGE				1 1		1										
103696	BV-S2 Berm 9 Surface drainage	14	01MAR06A	31AUG06	30	30	10	45	-90								
103697	BV-S2 Berm 10 Surface drainage	14	01SEP06	16SEP06	0	0	14	45	-90				P				
SLOPE I	3V-S4																
	Additional Soil Nails - Base of Pier 19	24	11SEP06	10OCT06	0	0	24	21	-90								
S3050	Complete Outstanding Soil Nails for BVS4 (5No.)	10	18SEP06	28SEP06	0	0	10	12	-6								
S3520	Remaining Raking Drains (11No.) & Hydroseeding	12	29SEP06	14OCT06	0	0	12	23	-6								
SLOPE FII	NISHES	1	ı		1 1		1	1									
102380	BV-S4/3a-4a & 5 hydro-seeding & tensarmat	12	12SEP05A	23SEP06	80	70	30	-133	-90								
101139	11nw/434 BV-S4/1-2-3bcd-4b Hydro-seed/Tensarmat	18	28AUG06	16SEP06	0	0	18	-127	-90								
SURFACE	DRAINAGE		· · · · · · · · · · · · · · · · · · ·		· · · ·		<u>.</u>	· · ·									
103705	BV-S4/3 Surface Drainage	8	17MAR05A	26AUG06	75	70	6	-133	-90								
103706	BV-S4/4 Surface Drainage	12	07SEP05A	09SEP06	75	5	18	-133	-90								
	·	1															

Act.	Activity	Orig	Early	Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AU(SEP 36	OCT 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish					2 9 16 23 3		7 4 11
SLOPE																
		-	00 11 11 0 4 4	00411000	40	40	-									
103711	Sp-S1/4 Surface Drainage	7	06JUL04A	28AUG06	40	40	7	74	-90							
RC STR	UCTURES	I		ļ				1 1								
RETAIN	ING WALL BV-R2															
BACKFILL																
101126	BV-R2(C) Granular Drain & Compacted Backfill	6	21AUG06	26AUG06	0	0	6	62	-86							
ROADW	/ORKS - North End of BV															
Stormwa	ater Drainage															
S2440	Storm Drainage to Nrth Bnd (Nr. Typ C&E N.B.)	37	31DEC05A	06SEP06	95	40	10	-158	-36		\rightarrow					
S3200	Storm Drainage to Sth Bnd (Nr. Typ D N.B.)	37	31DEC05A	28JUL06A	100	45	0		-54	7						
60400	West Lean Del Drainage	20		22SEP06	30	30	14	9	-62	/						
52430	West Loop Rd. Drainage	20	19JAN06A	225EP00	30	30	14	9	-02							
S3020	Storm Drainage to enable TCSS Works at Median	12	24FEB06A	22AUG06	50	50	2	-143	-90							
S3040	Storm Drainage to enable CLP Works	12	24FEB06A	22AUG06	50	50	2	-143	-90							
									-							
S2450	Storm Drainage to Sth Bnd (Nr. Typ B N.B.)	45	30JUN06A	09AUG06A	100	0	0		6							
\$2420	Outstanding East Loop Rd. Drainage	28	21AUG06	05SEP06	0	0	14	-12	-86							
02420	Outstanding Last Loop Nd. Drainage	20	2170000	0002100	Ŭ	0	17	-12	-00							
S2630	250mm pipe connect E./W. stream + 3No. Chamber	24	21AUG06	16SEP06	0	0	24	-167	-27							
Noise P	arrier Footings & Sign Gantries															
	Base for HML 1	9	29JUL06A	30AUG06	50	0	9	-152	-82	-						
33530		9	29JUL00A	30A0G00	50	0	9	-152	-02							
Ducting	& Drawpits															
	Bv North - CLP Ducts near DSD Access Ramp	4	12JUL06A	02AUG06A	100	0	0		-39							
										_						
S3640	BV North - CLP Ducts at SP Bldg	4	02AUG06A	02AUG06A	100	0	0		-28							
00000			000110000	054110004	400											
\$3630	BV North - CLP Ducts at Median	6	03AUG06A	05AUG06A	100	0	0		-24							
S2560	BV North - TCSS Ducting & Drawpits (West)	18	01APR06A	05SEP06	90	5	14	-95	-84							
02000			0174110071	0002100	00	0			01							
S2580	BV North - TCSS Ducting & Drawpits (East)	18	27JUL06A	30SEP06	90	0	8	-95	-19							
S2770	BV North - LV Ducting & Drawpits	13	20APR06A	20SEP06	30	0	13	-102	-17							
	vement & Associated Work				,											
S2232	BV North - Subbase to Sth Bound Carriageway	40	18SEP06	06NOV06	0	0	40	-167	-27							

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN 33	JUL 34	AUG 35		SEP 36	OCT 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish								7 4 11
Road Pa	vement & Associated Work																
S2222	BV North - Subbase to Nrth Bound Carriageway	43	25SEP06	16NOV06	0	0	43	-10	-20								
S2920	Road Works to East Loop Rd Typ III (EVA)	13	27SEP06	13OCT06	0	0	13	36	-86		-						
S2540	BV North - Kerbs & CPB to Nrth Bound Carriageway	36	11OCT06	27NOV06	0	0	36	-167	-27								J
S2890	BV North - Kerbs & CPB to Sth Bound Carriageway	36	11OCT06	27NOV06	0	0	36	-19	-27								J
S2242	BV North - Bitu. Pavement to Nrth Bnd Carrig'way	24	25OCT06	04DEC06	0	0	24	-19	-27							+	
S2252	BV North - Bitu Pavement to Sth Bnd Carrig'way	24	25OCT06	04DEC06	0	0	24	-19	-27							-	
S2262	BV North - Typ IV Pavement	40	25OCT06	15DEC06	0	0	40	-167	-27								
S2930	Road Works to West Loop Road Typ III (EVA)	13	01NOV06	15NOV06	0	0	13	9	-62			_					
S2900	Road Marking & White Lining (Staged for Access)	24	09NOV06	18DEC06	0	0	24	-19	-27								
S3010	Installation of Road Signage (Sign Plates Only)	24	09NOV06	18DEC06	0	0	24	-19	-27								
Miscella	enous Works																
S3100	Erect HML 2	4	21AUG06	24AUG06	0	0	4	77	-90			6					
S3450	Erect HML 3	4	21AUG06	24AUG06	0	0	4	77	-39		-	6					
S2870	Erect HML 1	4	14SEP06	18SEP06	0	0	4	56	-82								
S2660	Construct Foul Holding Tank & Connections	24	23MAY06A	12AUG06A	100	0	0		-60								
S2910	Foul Drain Pipe Across SB Tube (3m Below FRL)	6	21AUG06	26AUG06	0	0	6	-149	-79								
S2670	Install Twin DN200 Pipes to SPB via E. Loop Rd	18	06SEP06	26SEP06	0	0	18	-12	-86								
S2590	Installation of DN200 Fire Hydrant Pipe and FH's	24	07SEP06	05OCT06	0	0	24	-158	-18			_					
S3400	Base for Kiosk K3	6	21SEP06	27SEP06	0	0	6	-102	-17				_	-			
S3000	Construct Recreated Stream	30	23SEP06	31OCT06	0	0	30	9	-62								
ROADW	ORKS - South End of BV																
Stormwa	iter Drainage																
S2490	Storm Drainage to Nrth Bnd (Foot of BVS2)	41	11JUL06A	24AUG06	90	0	4	-172	-31								
Noise Ba	arrier Footings & Sign Gantries																
	5.5m Barrier Footings Bay 1-2	14	11MAY06A	27JUL06A	100	0	0		-38								

Act.	Activity	Orig	Early	Early	%	Target 1		Total		JUN 33		JUL 34	AUG 35		SEP 36	OCT 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish		6 3 í			21 28 4		5 2 9 16 23		0 27 4 11
Noise Ba	arrier Footings & Sign Gantries				,													
S3330	Load Test for mini-piles	12	24JUL06A	04AUG06A	100	0	0		-35									
S2481	5.5m Barrier Footings Bay 15-17	24	21AUG06	16SEP06	0	0	24	-186	-48				1					
S2620	BV South - Sign / Lane Signal Gantry Bases (5no)	12	05JUL06A	24AUG06	80	0	4	-88	-82	-			=					
S2461	Sign gantry Installation MLS-CAP12	3	25AUG06	28AUG06	0	0	3	-66	-82									
S3370	Signal Gantry Installation MLS-CAP14 & 15	4	25AUG06	29AUG06	0	0	4	-67	-82									
S3380	Sign Gantry Installation MLS-CAP11,13	3	25AUG06	28AUG06	0	0	3	-88	-82									
S2250	Footing for CCTV mast	6	18SEP06	23SEP06	0	0	6	-186	-48			_						
Ducting	& Drawpits																	
	BV South - TCSS Ducts & Drawpits (East)	10	19APR06A	15AUG06A	100	10	0		-49									
S3350	BV South - TCSS Ducts & Drawpits (West)	10	01JUN06A	19AUG06	90	0	0	-81	-17				- •					
S2740	BV South - LV Ducts & Drawpits	20	01JUN06A	26AUG06	10	0	6	-162	-13				- 1					
Road Pa	vement & Associated Work			1	1 1													
	BV Sth - Trim Formation & S'base - Sth Bnd	26	01AUG06A	18OCT06	25	0	19	-27	-30			< ■						
S2960	BV Sth - Kerbs & CPB to Sth Bound Carriageway	30	12AUG06A	09NOV06	25	0	22	-27	-26	-			•					
S2510	BV Sth - Trim Formation & S'base - Nth Bnd	35	14AUG06A	280CT06	20	0	28	-186	-30	-								
S2950	BV Sth - Kerbs & CPB to Nrth Bound Carriageway	30	11OCT06	20NOV06	0	0	30	-186	-30	-								
S2980	BV Sth - Bitu. Pavement to Nrth Bnd Carrig'way	23	25OCT06	16DEC06	0	0	23	-186	-30	-								
S2970	BV Sth - Bitu. Pavement to Sth Bnd Carrig'way	20	22NOV06	14DEC06	0	0	20	-34	-33								-	
Miscellar	heous Works																	
S2850	Erect HML9	4	21AUG06	24AUG06	0	0	4	77	-52				ŕ					
S2790	Installation of DN 200 Fire Hydrant Pipe & FH's	12	25AUG06	07SEP06	0	0	12	-172	-31									
S3320	Base for kiosk K4	6	25AUG06	31AUG06	0	0	6	-97	-31			_						
S3340	Construction of Weighbridge Pit	10	25AUG06	05SEP06	0	0	10	61	-31]			
I KJV W	orks at Abutment M			I				1										
	Storm Drainage (MH07 & MH04)	10	24JUN06A	20JUL06A	100	0	0		-38									
	1			1	1													

Act		Orig		Early	%	Target 1		Total		JUN 33	JUL 34	AUG 35		SEP 36	OCT 37	NOV 38	DEC 39
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	3 10 17 24	31 ₁ 7 ₁ 14	21 28 4	11 18 <u>2</u> 5	2 9 16 23 3	0 6 13 20 2	7 4 11
	Works at Abutment M	10		00411000	50			45									
\$34	30 Storm Drainage (MH02 & MH09 + 5 Gullies)	12	29JUN06A	26AUG06	50	C	6	15	-68								
S34	40 200mm Watermain, valve pit & FH-6	12	28AUG06	09SEP06	0	0) 12	15	-64	-							
001			20,10,000	00021 00	Ŭ	, in the second s			01								
S34 ⁻	70 Ducting & drawpits in Portion B	12	11SEP06	23SEP06	0	C) 12	15	-64								
										_							
S34	20 Complete remaining roadworks within Portion B	36	25SEP06	08NOV06	0	C) 36	15	-64								
	DNA Works at Abutment		001/01/00					000									
\$34	80 ACCIONA - Dismantle Launching Girder	24	09NOV06	06DEC06	0	C	24	282	-64								
							1	1									
	Maintenance Rd DSD1-1 (Acciona Interface)																
		18	11OCT06	01NOV06	0	0) 18	21	-90								
535	70 WSD Slope Reinstatement	18	1100106	01110/06	0	t	0 18	21	-90								
S23	40 ACCIONA - Remove Crane Platform	18	21AUG06	09SEP06	0	0) 18	21	-90	-							
020			21110000	00021 00	Ŭ	, i i i i i i i i i i i i i i i i i i i											
S25	50 ACCIONA - Cure, Strip & Reinstate Area - Pier 21	62	26JUN06A	09SEP06	71	C) 18	9	-6								
S23	30 Com DN200 Div along DSD1-1 - inc. Leak Collect	18	26JUN06A	19AUG06A	100	C	0		-72								
0.01					-				-	_							
S24	10 LKJV Regain Access at Pier 21 for Remaining Work	0		09SEP06	0	C	0 0	9	-6				Û	•			
S24	60 LKJV Regain Access at Pier 20	0		09SEP06	0	C	0 0	33	-90					\diamond			
02-1		Ŭ		00021 00	Ŭ									~			
S23	90 Remaining DN200 Watermain at Pier 20 Access	6	11SEP06	16SEP06	0	C) 6	33	-90	-							
S34	60 MH R400-05 & Drain from R400-04	12	11SEP06	23SEP06	0	C) 12	9	-6								
										_							
S23	80 Complete DSD1-1 Surface Drainage & CP's	18	25SEP06*	17OCT06	0	C) 18	9	-6								
621	40 Complete Sub-base & kerbs at DSD1-1	12	18OCT06	01NOV06	0	C) 12	9	-6	_							
3314		12	1800108	01110/06	0	t		9	-0								
S31	50 Complete Surfacing at DSD1-1 (Type IV)	8	02NOV06	10NOV06	0	C	8	13	-6								
									-								
DSD	Maintenanace Rd DSD1 (Parallel to Channel)	Ċ															
S32	10 2 No. Cross Rd Pipes & Roadside Gullies	12	01MAR06A	24AUG06	80	80) 4	-53	-90								
	· · · · · · · · · · · · · · · · · · ·									_							
S28	30 Twin DN200 Water Pipe	45	02MAY06A	11OCT06	10	1	40	-53	-90								
		40	4000700	0500700		-		4.4		-							
\$27	00 Access rd DSD1 -barrier footings	12	12OCT06	25OCT06	0	C	12	14	-90								
533	90 Complete Formation at DSD1	6	12OCT06	18OCT06	0	ſ	0 6	-53	-90	-							
000			1200100	1000100	0	Ľ		-00	-30	_	-						
S31:	20 DN 200 Watermain Diversion EB18 - EB70	40	19OCT06	05DEC06	0	C	40	-53	-90								

Act.	Activity	Orig Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG			СТ	NOV	DEC
ID	Description	Dur Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	33 12 19 26 3	34 3 10 17 24 ;	35 31 7 14	36 21 28 4 11 18	8 25 2 9	37 16 23 30	38 6 13 20 27	39 4 11
DSD Maintenanace Rd DSD1 (Parallel to Channel)																
S3220	Subbase & Kerbs	18 18OCT06	08NOV06	0	0	18	9	-6					_			
S2720	Access rd DSD1 - Barriers	12 26OCT06	09NOV06	0	0	12	14	-90								
	REINSTATE BV ACCESS	0	10NOV06	0	0	0	13	-6						ſ	, ♦	
S3230	Surfacing (Type IV)	12 02NOV06	15NOV06	0	0	12	9	-6								
Works E	By CLP															
S3650	Lay CLP Cables Ch30 - Ch110	9 21AUG06	30AUG06	0	0	9	-95	-66			f					
S2840	Lay CLP Cables Ch110 - Ch230	15 31AUG06	16SEP06	0	0	15	-95	-44				•				
S2860	Lay CLP Cables Ch230 - Ch395 (SB Carriageway)	19 18SEP06	11OCT06	0	0	19	-95	-44		-						
S2880	Lay Cable from Ch395 to S.Portal CLP Rm	12 12OCT06	25OCT06	0	0	12	-82	-44			ļ					
Terrain	Mitigation															
NTMM -	BV-S2															
102350	NTMM - Afforestation of Area	60 22MAR06A	07SEP06	30	5	16	65	-80								
Landsca	aping & Establishment															
	BV - Hard Landscaping	90 25SEP06	13JAN07	0	0	90	-133	-90					•			
ENT SC	OUTH PORTAL VENTILATION BUILDING															
	TALS & APPROVALS															
	PT.& MATERIAL APPROVALS															
1919	SP.Bldg Approve doors details	24 07MAY05A	25AUG06	80	80	5	-88	-86								
PROCU	REMENT - MATERIAL															
6011	EntSpBldg-Proc & Manuf. PD irrig. sys	120 05MAR05A	31AUG06	92	80	10	362	-91								
6008	EntSpBldg-Proc & Manuf. LV power dist. equip't	180 21MAR05A	31AUG06	95	80	10	362	-75								
6079	EntSpBldg-Proc & Manuf. FS AFA & FM200 sys	120 29MAR05A	15SEP06	80	90	23	349	-91								
6009	EntSpBldg-Proc & Manuf. MVAC mech.vent. sys	120 06JAN06A	31AUG06	92	60	10	362	-65								
6035	EntSpBldg-Proc & Manuf. MVAC Package AC Units	120 06JAN06A	31AUG06	92	60	10	362	-65								
ABWF WORKS																
1951	SP.Bldg Procure aluminium composite cladding	180 19APR05A	14SEP06	80	80	22	-78	-90								

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG		SEP	OCT	NOV	DEC
ID	Description	Dur		Finish	Compl.	-		Float		33 12 19 26	34 ₁ 3 10 17 24	35 31 7 14 2	1 28 4 1	36 1 18 25	37 2 9 16 23 8	38 0 6 13 20	39 27 4 11
ABWF	WORKS																
1979	SP.Bldg Procure expanded metal mesh cladding	180	06JUN05A	30AUG06	80	80	9	-19	-90								
2018	SP.Bldg Initial deliver fall arrest roof syst	0	21AUG06*		0	0	0	38	-43	Ŷ			>				
2019	SP.Bldg Initial deliver of slate cladding	0	21AUG06*		0	0	0	14	-18			, Ŷ	,				
2030	SP.Bldg Initial deliver balust & metal works	0	21AUG06*		0	0	0	38	-43				,				
2025	SP.Bldg- Initial deliver exp metal mesh cladding	0	28SEP06*		0	0	0	-19	-38			Û		•			
2029	SP.Bldg Initial deliv alum composite cladding	0	11NOV06*		0	0	0	-78	-60				Û			•	
MAJOR	EQUIPMENT DELIVERY						1										
6033	EntSpBldg-Del. PD pump & tank to G/F	48	06MAR06A	07SEP06	70	55	16	356	-96								
6038	EntSpBldg-Del. FS pumps & tank to G/F	48	06MAR06A	07SEP06	70	55	16	356	-96								
6050	EntSpBldg-Del. building vent. fans	64	06MAR06A	31AUG06	92	40	10	362	-65								
6133	EntSpBldg-Del. Package AC Units	64	06MAR06A	31AUG06	92	40	10	362	-65								
6037	EntSpBldg-Del. LV power dist. equip't to 3/F	48	21MAR06A	31AUG06	85	35	10	362	-75								
6034	EntSpBldg-Del. PD irrig. pump & tank to G/F	48	02MAY06A	31AUG06	80	0	10	362	-52								
6778	EntSpBldg-Del. ENT Tunnel (Hyd/HR) pumps to G/F	48	02MAY06A	31AUG06	80	0	10	362	-52								
6163	EntSpBldg-Del. AFA & FM200 sys	48	15MAY06A	15SEP06	52	0	23	349	-43								
6744	EntSpBldg-Del. MVAC MCC, & control sys to 3/F	48	15MAY06A	31AUG06	80	0	10	362	-42								
6194	EntSpBldg-Del. CMCS & ELV equip't	48	01JUN06A	15SEP06	90	0	23	349	-26		\geq						
CONST	RUCTION																
South P	ortal Bldg CIVIL & ABWF WORKS																
STRUCT																	
T2920	Backfilling at South Portal Building	18	18APR06A	22AUG06	95	60	2	-172	-82								
ABWF V																	
	ADM/E Initial finishes & Desce to CL B Dm & CE	10		00411000	05	-	2	E 4	74				-				
	ABWF Initial finishes & Doors to CLP Rm & GF			23AUG06	95	5		51	-71								
	Complete Works to HV & LV Cable Risers	10		31JUL06A	100		0		-20								
T2760	GF - Paint touch up & Doors	12	03OCT06	17OCT06	0	0	12	33	-50								

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG		SEP	OCT	NOV	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp		Float		33	34	35 31 7 14		36	37 2 9 16 23 3	38 0 6 13 20 2	39 7 4 11
SP Bldg - I	Internal Works 1F & LP								-	1 1.4 4						- 12 122	
T2770	1F & LP - Paint touch up & Doors	12	11SEP06	23SEP06	0	C) 12	51	-68								
SP Bldg - I	Internal Works 2F			1													
T2780	2F - Paint touch up & Doors	12	07NOV06	20NOV06	0	C) 12	5	-37		1						
SP Bldg - I	Internal Works 3/F																
T2680	ABWF Initial finishes 3F	18	15JUN06A	31JUL06A	100	C	0 0		-36								
T2800	3F - Paint touch up & Doors	12	29SEP06	14OCT06	0	C) 12	35	-45				•				
SP Bldg - I	Internal Works 4F & Above			1													
	ABWF Initial finishes 4F	18	20JUL06A	05SEP06	80	0) 14	55	-33								
T3170	Installation of Crane beam to underside of 4FL	12	24JUL06A	22AUG06	85	C) 2	-88	-71								
T3150	Intallation of Crane beam to underside of 5FL	12	21AUG06	02SEP06	0	C) 12	-92	-47								
Roof & Ext	ternal Facade																
T2825	Ent SPB - Ext. Wall Waterproof Membrane	21	05JUL06A	29JUL06A	100	C	0 0		-8								
T2820	Ent SPB - Ext. Wall Waterproof Render	18	20JUL06A	05SEP06	20	C) 14	-16	-43		<┍						
T2710	Ent SPB - Install Aluminum louvres & doors	90	26JUL06A	01DEC06	5	C	86	-88	-25		ੋ						
T2530	Ent SPB - Roof Waterproofing & Test	12	21AUG06	02SEP06	0	C) 12	-4	-26			-					
T2540	Ent SPB - Slate Cladding above NB/SB Carriageway	36	21AUG06	30SEP06	0	C	36	14	-18			[]		
T2410	Ent SPB - External Wall Painting	34	13SEP06	24OCT06	0	C) 34	-16	-43	<	- \						
T2730	Ent SPB - 25thk Roof Screed & Roofing Tiles	18	18SEP06	10OCT06	0	C) 18	-4	-26		7	-					
T2390	Ent SPB - Expanded metal cladding to Ext Walls	36	28SEP06	11NOV06	0	C	36	-19	-38		ſ	_					
T2360	Ent SPB - GMS,S/S Channel, Balustrade & Railing	24	25OCT06	22NOV06	0	C	24	-16	-38				_		_		
T2400	Ent SPB - Alum. Comp Panel Cladding to Ext Walls	60	11NOV06	23JAN07	0	C	60	-78	-60								
ENT So	uth Portal Bldg BUILDING SERVICES																
E&M V	_																
	n Portal Bldg (G/F) - E & M Works																
	Installation of FS Pumps and Pipework at GF	18	21AUG06	09SEP06	0	C) 18	51	-68								
T2310	CLP work in CLP room	36	21AUG06	30SEP06	0	C	36	-63	-50								
T2320	Installation of Earth Mat at SP Bldg	30	23AUG06	26SEP06	0	C	30	-58	-82								

Act.	Activity	Orig	Early	Early	%	Target 1	Rom	Total	Variance	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
ID		Dur	-	Finish	Compl.	% Comp		Float		33	34	35	36 28 4 11 18 25	37	38	39
	Portal Bldg (1F/Lwr Plen) - E & M Work					/• • • • • • •		1		12 19 20	5 10 17 24	1 1 1 1 1				
T2610	NB carriageway OHVD slab + 74 / BB 1st fix	12	01JUN06A	31JUL06A	100	0	0		-58							
T2630	SB Carriageway OHVD slab +74 / BB 1st Fix	12	01JUN06A	31JUL06A	100	0	0		-37							
EM1310	Installation of Compressor	18	21AUG06	09SEP06	0	0	18	51	-68							
ENT South	Portal Bldg (2F/Silencer) - E & M Work				11											
EM1110	BS Works for Genset	18	24JUN06A	07SEP06	10	0	16	-50	-52							
EM1140	E&M Works in Corridors 2/F	24	24JUN06A	31AUG06	60	0	10	-67	-28				-			
EM1030	BS Works for HV Sw + Tx	12	12JUL06A	24AUG06	70	0	4	-96	-46							
EM1160	E&M Works in Risers	48	31JUL06A	14SEP06	80	0	10	-67	-9							
EM1120	Genset Installation	36	21AUG06	30SEP06	0	0	36	-50	-36							
EM1175	BS Works for TVS Plenums	30	21AUG06	23SEP06	0	0	30	-98	-53			•				
EM1040	HV Sw + Tx Installation	30	29SEP06	06NOV06	0	0	30	-126	-37		7	L				
	Portal Bldg (3F/ Fan Rm) - E & M Works															
EM1060	BS Works for LV Sw, MCC, UPS, LCC	12	31JUL06A	24AUG06	70	0	4	-91	-45							
EM1150	E&M Works in Corridors 3/F	24	31JUL06A	28AUG06	70	0	7	-82	-24							
EM1090	BS Works for 110V Charger Rm	12	01AUG06A	04SEP06	70	0	4	-82	-18							
EM1170	Termination of overall Elect HV & LV Sys	30	21AUG06	06DEC06	0	0	30	-117	-33							
EM1070	LV Sw, MCC, UPS, LCC Installation	30	25AUG06	28SEP06	0	0	30	-91	-45			_				
	Portal Bldg (4F/Upr Plen) - E & M Work															
EM1180	TVS Installation	100	04SEP06	04JAN07	0	0	100	-98	-45							
	d Commissioning									-						
EM1100	110V Charger Rm Installation + T&C	12	05SEP06	18SEP06	0	0	12	-82	-18		/	-	-			
EM1080	LV Sw, MCC, UPS, LCC Termination + T&C	30	29SEP06	06NOV06	0	0	30	-91	-27							
EM1130	Genset Termination + T&C	12	03OCT06	17OCT06	0	0	12	-50	-36		(_				
EM1050	HV Sw + Tx Termination + T&C	30	07NOV06	11DEC06	0	0	30	-120	-37							
Statutory I	nspection & Issued Certificates		· · ·													
EM1330	CLP Connect to its Transformer at SP Bldg	0		25OCT06	0	0	0	-82	-44				Û	•		

Act.	Activity	Orig		Early Finish	% Compl.	Target 1 % Comp		Total Float	Variance	JUN 33	JUL 34	AUG 35	SEP 36	37	NOV 38	DEC 39
	Description	Dur	Start	Finish	Compi.	% Comp	Dur	Float	Early Finish	12 19 26	_3 10 17 24 3	1 7 14 2	1 28 4 11 1	8 25 2 9 16	23 30 6 13 20	27 4 11
	spection & Issued Certificates Submit Form WWO46 for Water Supply to WSD	30	12OCT06	16NOV06	0	0	30	-23	-90							
EM1340	Water Supply Certificate issued	0		16NOV06	0	0	0	-23	-90		1	ļ			•	
EAGLE	S NEST TUNNEL															
Contrac	t defined dates, stages & sections															
Area aco	cess & vacation dates															
ACS_F1	Access to Portions - F1 (U/Gnd Sth Portal)	0	200CT03A		100	100	0		-108							
ACS_F2	Access to Portions - F2 (U/Gnd Sth Tunnel)	0	200CT03A		100	100	0		-108							
Design	& Engineering - Temporary Works		I					1 1								
Perman	ent Works															
Tunnel																
1657	Design/ICE Check Tunnel Clading	24	03JAN06A	31AUG06	70	60	10	-83	-94							
1662	Design/ICE Check Niche Cabinets	48	21AUG06	17OCT06	0	0	48	-66	-90			•				
1668	Eng Approve Dsg X-passage/Adit Fire Doors	12	21AUG06	02SEP06	0	0	12	310	-90							
1669	Issue Constr Dwgs X-passage/Adit Fire Doors	0		02SEP06	0	0	0	310	-90				\diamond			
1663	Eng Approve Dsg Niche Cabinets	12	18OCT06	01NOV06	0	0	12	-66	-90						-	
1664	Issue Constr Dwgs Niche Cabinets	0		09NOV06	0	0	0	-66	-90		Ŷ				•	
Procure	ment - Material															
Tunnelli	ng Project Wide															
1660	Order/Manufact/Del Tunnel Cladding	200	29DEC05A	20JUL06A	100	80	0		-39							
1685	Order/Manufact/Del Fire Doors	50	04SEP06	03NOV06	0	0	50	310	-90							
NB Tunn	el		1													
6883	EntRtNb-Proc & Manuf. FS AFA & Linear sys	180	29MAR05A	15SEP06	87	90	23	349	-80			_				
6887	EntRtNb-Proc & Manuf. TVS control sys	180	01NOV05A	06NOV06	90	90	64	308	-148							
SB Tunn																
	EntRtSb&VA-Proc & Manuf. FS AFA & Linear sys	180	29MAR05A	15SEP06	87	90	23	349	-80	-						
6796	EntRtSb&VA-Proc & Manuf. TVS control sys	180	01NOV05A	06NOV06	90	90	64	308	-148							
		[<u> </u>		1			<u> </u>		1						

Act.	Activity	Orig		Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35	SEP 36	OCT 37	NOV 38	DEC 39
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	3 10 17 24 3	31 7 14 21	28 4 11 18	25 2 9 16 23	30 6 13 20 2	7 4 11
Major E	quipemnt Delivery															
Tunnelli	ing Project Wide															
NB Tunn	el															
6891	EntRtNb-Del. TVS control sys	48	14JAN06A	06NOV06	90	90	50	308	-148							
6888	EntRtNb-Del. AFA & Linear sys	48	15MAY06A	15SEP06	52	0	23	349	-80							
6886	EntRtNb-Del. CMCS & ELV sys	35	01JUN06A	15SEP06	90	0	23	349	-16							
SB Tunn	el				1 1											
-	EntRtSb&VA-Del. TVS control sys	48	14JAN06A	06NOV06	90	90	50	308	-148							
6787	EntRtSb&VA-Del. AFA & Linear sys	48	15MAY06A	15SEP06	52	0	23	349	-32							
6801	EntRtSb&VA-Del. CMCS & ELV sys	72	01JUN06A	30SEP06	90	0	36	336	-29					—		
Constru	uction Works															
Tunnel	Drive North Bound															
	inishing Works															
	NB Base Course - RHS 650m Ch 3030->2380	4	21AUG06	24AUG06	0	0	4	33	-74				ו ר			
0000		1	21/10/000	24/10000	Ū	0	-		14				-			
3600	NB Base Course - RHS 650m Ch 2380->1730	4	25AUG06	29AUG06	0	0	4	33	-74							
3601	NB Base Course - RHS 650m Ch 1730->1080	4	30AUG06	02SEP06	0	0	4	33	-74							
3603	NB Base Course - LHS 650m Ch 3030->2380	4	04SEP06	07SEP06	0	0	4	33	-74							
3604	NB Base Course - LHS 650m Ch 2380->1730	4	08SEP06	12SEP06	0	0	4	33	-74	_						
3605	NB Base Course - LHS 650m Ch 1730->1080	4	13SEP06	16SEP06	0	0	4	33	-74							
VE Panel I	Installation															
	NB - VE Panel Sub-Frame Installation	60	20OCT06	02JAN07	0	0	60	-83	0							
3636	NB - VE Panel Installation	55	14NOV06	25JAN07	0	0	55	-83	0							
	 TUNNEL - (E&M) BUILDING SERVICES	I														
	Innel Ventilation Syst Above OHVD						1									
	Ent NB - Install Motorised Smoke & Fire Dampers	72	04JAN06A	02SEP06	84	45	12	-116	-73							
277964	Ent NB - Comp Air Pipes/Condts to E/P16 to E/P21	36	10FEB06A	24AUG06	90	40	4	-116	-59	-						
277965	Ent NB - Comp Air Pipes/Condts to E/P15 to E/P8	36	27MAR06A	24AUG06	90	30	4	-116	-53							
	1				_11		ı									-

Act	t. Activity	Oric	Early	Early	%	Target 1	Rem	Total	Variance	JUN		JUL	AUG		EP	OCT	NOV	DEC
ID	,	Dur		Finish	Compl.	% Comp		Float	Early Finish	33 12 19	26 3 1	34 0 17 24 31	35 7 14 21		36 1 18 25	37 2 9 16 23 3	38 0 ₁ 6 ₁ 13 ₁ 20	39 27 4 11
	C / Tunnel Ventilation Syst Above OHVD		1				1											
2779	Defection Provides the Provided All Provided	36	13JUN06A	02SEP06	90	0	4	-116	-25			2						
2779	967 Ent NB - Cabling, Wiring and Termination	72	21AUG06	15NOV06	0	0	72	-116	-49						•			
2779	P68 Ent NB - MVAC Testing and T&C	42	16NOV06	06JAN07	0	0	42	-116	-49									
Fire Pr	rotection System						1											
	993 Ent NB - 150d FS Main pipeworks / brackets @ G/L	72	23JAN06A	01AUG06A	100	36	0		-28]					
2779	990 Ent NB - Install FS Conduit for Niches	54	07FEB06A	24AUG06	93	40	4	-103	-62	\mathbf{k}			═╴╏╸					
2779	991 Ent NB - Install brckts for detection sys @ C/L	60	29JUL06A	22AUG06	98	0	1	-103	-32		\geq		 •					
2779	994 Ent NB - Install Hose Reel Cabinets & Eqpt @ G/L	48	21AUG06	17OCT06	0	0	48	-98	-80				•					
2779	292 Ent NB - Install detection system @ Ceiling Lvl	42	26AUG06	16OCT06	0	0	42	-103	-35									
2779	995 Ent NB - 100d FH / HR Pipeworks & Fittings @ G/L	60	04SEP06	15NOV06	0	0	60	-98	-56	<								
2779	996 Ent NB - FS Wiring and Terminations	30	17OCT06	21NOV06	0	0	30	-103	-31									
2779	997 Ent NB - FS Testing and T&C	24	22NOV06	19DEC06	0	0	24	-103	-31									
Electric	ical Works Above OHVD		1	1														
2780	000 Ent NB - HV & LV Mn/Submain Cables to CP21-CP11	72	22JUN06A	10OCT06	41	0	42	-117	-45									
2780	001 Ent NB - HV & LV Mn/Submain Cables to CP01-CP10	72	26JUN06A	05OCT06	46	0	39	-114	-20									
2780	002 Ent NB - E&M Inspn & Access for Sandfill	0		16SEP06	0	0	0	-68	-17					Û	♦			
2780	003 Ent NB - Placing Sandfill and PC Covers	36	18SEP06	01NOV06	0	0	36	-68	-17									
	ical Works Below OHVD																	
2780	008 Ent NB - Brackets for Lightings @ Ceiling Level	96	07JAN06A	22AUG06	98	82	2	-53	-74									
2780	009 Ent NB - Conduit Works (Above & Below OHVD)	60	01MAR06A	29AUG06	86	30	8	-53	-56									
2780	010 Ent NB - Earthing & Lighting Fixture @ C/Lvl	72	02MAY06A	05SEP06	89	2	8	-53	-33									
2780	012 Ent NB - Cabling, Wirings&Term @ Ceiling/ Grd Lvl	48	13JUN06A	19SEP06	69	0	15	-53	-8		-			_				
2780	011 Ent NB-Install CCTV,Camera,Eqpt @C/Lvl (By TCSS)	72	23AUG06	17NOV06	0	0	72	-29	-74									
2780	013 Ent NB - Lighting / Equipt Testing and T&C	24	20SEP06	19OCT06	0	0	24	-52	-8				7					
2780	083 Place Covers on C, Trough	18	20SEP06	12OCT06	0	0	18	13	-8									

Act.	Activity	Orig		Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35	SEP 36	OCT 37	NOV 38	DEC 39
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	,3 ₁ 10 17 24	31 7 14 2	1 28 4 11 18	25 2 9 16 23	30 6 13 20 2	7 4 11
1	Drive South Bound															
	nishing Works											N				
VE Panel Ir				1000700					-	-						
3623	SB - VE Panel Sub-Frame Installation	60	21JUL06A	19OCT06	17	0	50	-83	0							
2042	SB - VE Panel Installation	55	16AUG06A	13NOV06	3	0	50	-78	0	-						
3043	SD - VE Parlei Installation	55	IBAUGUBA	13110700	3	0	52	-70	0							
3663	SB - Niche Cabinets	50	10NOV06	10JAN07	0	0	50	-66	0	-						
0000			10110 100	100/1107	Ŭ	Ū			Ū							
ENT SB	TUNNEL - (E&M) BUILDING SERVICES		1				1	1								
	nnel Ventillation System Above OHVD															
278014	Ent SB - Install Motorised Smoke & Fire Dampers	72	31DEC05A	01SEP06	85	40	11	-105	-70				 			
278015	Ent SB - Comp Air Pipes/Condts to E/P16 to E/P21	36	27MAR06A	23AUG06	92	58	3	-98	-74							
													_ _			
278017	Ent SB - Comp Air Pipes/ Condts to E/P1 to E/P7	36	13JUN06A	01SEP06	90	0	4	-105	-34							
070040	Fat OD - O-bling Mining and Tampingting		0005000	4.4100.400	0	0	00	405	0.4	-						
278018	Ent SB - Cabling, Wiring and Termination	60	02SEP06	14NOV06	0	0	60	-105	-34							
278010	Ent SB - MVAC Testing and T&C	36	10NOV06	21DEC06	0	0	36	-105	-34	-						
270013		00	10110 000	2102000	Ŭ	0	00	-105	-34							
Fire Protect	ion System	1	1		1 1		1	1								
278033	Ent SB -Install FS Conduit for Niches	54	07FEB06A	01AUG06A	100	30	0		-36							
278034	Ent SB - Install brckts for detection sys @ C/L	60	29JUL06A	21AUG06	98	0	1	-98	-29							
	-									-		L				
278035	Ent SB - Install detection system @ Ceiling Lvl	42	21AUG06	10OCT06	0	0	42	-98	-46							
070007		40	04.4110.000	4700700	0		40	00	70	-						
278037	Ent SB - Install Hose Reel Cabinets & Eqpt @ G/L	48	21AUG06	17OCT06	0	0	48	-98	-70							
278038	Ent SB - 100d FH / HR Pipeworks & Fittings @ G/L	60	04SEP06	15NOV06	0	0	60	-98	-70	-						
2700000		00	04021 00	10140 000	Ŭ	0		-50	-70			+				
278039	Ent SB - FS Wiring and Terminations	30	110CT06	15NOV06	0	0	30	-98	-40							
						-								-		
278040	Ent SB - FS Testing and T&C	24	16NOV06	13DEC06	0	0	24	-98	-40							
	-															
	/orks Above OHVD		1		1 1		1									
278044	Ent SB - HV & LV Mn/submain Cables to CP01-CP10	72	09JUN06A	05OCT06	46	0	39	-114	-20							
0700.40																
278043	Ent SB - HV & LV Mn/Submain Cables to CP21-CP11	72	15JUN06A	05OCT06	46	0	39	-114	-45							
279046	Ent SR Disaing Sandfill and PC Cavera	26		18SEP06	20	0	25	22	20	-						
278046	Ent SB - Placing Sandfill and PC Covers	36	07JUL06A	1032700	30	0	25	-33	30							
Electrical W	/orks Below OHVD	1	I		1		1	1								
	Ent SB - Brackets for Lightings @ Ceiling Level	96	19DEC05A	22AUG06	98	62	2	-71	-56			<u></u>				
	5 <u>5 5</u>				-	-										
278052	Ent SB - Conduit Works (Above & Below OHVD)	60	01MAR06A	29AUG06	86	30	8	-65	-44							

D Description Durl Static Finish Compl. W. Compl.	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
278032 Ent SB - Earthing & Liphting Fixture @ CiLul 72 02MAYO6A 128EP00 76 2 20 71 -32 278056 Ent SB - Cabling, Minng&Term @ Cellud 48 07AUG66A 120CT08 38 0 30 -71 -2 278056 Ent SB - Lighting / Equipt Testing and T&C 24 130CT08 10MV06 0 0 24 -70 -2 278056 Ent SB - Lighting / Equipt Testing and T&C 24 130CT08 10MV06 0 0 18 -2 -14 Ven Adit Tumoit / Cross Passage 7 ENT Comp Air Pices Vices	ID	Description				Compl.		Dur	Float	Early Finish	33 12 19 26	34 3 10 17 24	35 31 7 14	36 11 18 25 2	37 2 9 16 23 30	38 6 13 20 27	39 7 4 11
P72056 En S8 - Cabling, Winings Term & Calling Girl Lili 44 07AUG06 12OCT06 38 0 0 72 -2 P72056 En S8 - Cabling, Winings Term & Calling Girl Lili 44 07AUG06 0 0 72 -3 -42 P78056 En S8 - Lighting / Equipt Testing and T&C 24 13OCT06 10N0/06 0 0 18 -23 -14 Vinings Term Biology Minings Testing and T&C 13 13OCT06 17N0/06 0 0 18 -23 -14 Vining Minings Testing Minings Testing and T&C 18 250C06 18 -24 -42 -42 Vining Minings Testing Minings Testing Minings Testing Testing Minings Testing Minings Testing Mining Testing Minings Testing Mining Testing Minings Testing Mining Testing Mining Testing Minings Testing Mining Testige Mining Mining Testing Mining Testing Mining Mining T																	
177005 Ent SB-Install CCTV_Camera, Eqpt & CLM (by TCSS) 72 30AUGo6 24NOV6 0 0 72 36 492 278056 Ent SB-Install CCTV_Camera, Eqpt & CLM (by TCSS) 72 30AUGo6 24NOV6 0 0 72 36 492 278056 Ent SB-Lighting / Equipt Testing and T&C 24 13OCT6 1NNV06 0 0 18 23 14 Vent Actit Tunnel / Cross Passage 7 ENT Cross Passage 7 Comp Ar Pipes / Conduits to ENT NB & SB 10 15,01,066 14AUG06A 100 0 -33 278056 CP7 - Cabling, Wing, Termination & Test 19 25AUG06 14AUG06A 100 0 -33 278056 CP7 - Cabling, Wing, FS detecth & Alarm Bell 42 1AUG06B 100 0 -33 278056 CP7 - Sa Termination & Test 24 180CT06 15N0V06 0 0 -26 278056 CP7 - F. Hirtmination & Test 24 180CT06 15N0V06 0 0 -26 278056 CP7 - Install Condait, Bipting & switches & Coll.	278053	Ent SB - Earthing & Lighting Fixture @ C/Lvl	72	02MAY06A	12SEP06	76	2	20	-71	-32							
272066 Ent BB - Lighting / Equipt Testing and TAC 24 130CT06 10 NOV06 0 0 24 70 2 272066 Ent BB - Lighting / Equipt Testing and TAC 18 130CT06 17NOV06 0 0 18 23 14 Vent Adit Tunnel / Cross Passage 7 Ent CROSS PASSAGE CP7 - (EAM) BULIONS SERVICES Vent Adit Tunnel / Cross Passage 7 Ent CROSS PASSAGE CP7 - (EAM) BULIONS SERVICES Vent Adit Tunnel / Cross Passage 7 Ent Cross Passag	278055	Ent SB - Cabling, Wirings&Term @ Ceiling/ Grd Lvl	48	07AUG06A	12OCT06	38	0	30	-71	-2							
2270080 Place Govers on C. Trough 18 130CT06 17NOV06 0 18 -23 -14 Vert Adit Tunnel / Cross Passage 7 ENT CROSS PASSAGE CP07 - (EAM BULDING SERVICES WWC/1 Tunt Weines System alcox on 00 0 0 0 0 0 33 278058 CP7 - Comp Air Pipes / Conduits to ENT NB & SB 30 15JUL06A 14AUG06A 100 0 0 33 278058 CP7 - Comp Air Pipes / Conduits to ENT NB & SB 30 15JUL06A 14AUG06A 100 0 0 33 278058 CP7 - FS Conduit @ Colling LVI 30 15JUL06A 14AUG06A 100 0 0 33 278068 CP7 - FS Conduit @ Colling LVI 30 15JUL06A 100 0 0 24 -74 38 278068 CP7 - FS Tormination & Test 24 180CT06 30 24 -62 -117 278068 CP7 - IrS I Containment 30 03JUL06A 05AUG06A 100 0 24 -62 -14 278068 CP7 - IrV / LV Cable Brackets & Containment <td>278054</td> <td>Ent SB-Install CCTV,Camera,Eqpt @C/LvI (by TCSS)</td> <td>72</td> <td>30AUG06</td> <td>24NOV06</td> <td>0</td> <td>0</td> <td>72</td> <td>-35</td> <td>-62</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	278054	Ent SB-Install CCTV,Camera,Eqpt @C/LvI (by TCSS)	72	30AUG06	24NOV06	0	0	72	-35	-62							
Vent Adit Tunnel / Cross Passage 7 ENT CROSS PAssAge CP07 - (EAM) BUILDING SERVICES VMXC17-ment/beneface VMXC27-Borney Air Pies / Conduits to ENT NB & SB 30 15JULG6A 14AUG06A 100 0 -33 Z79050 CP7 - Cabling, Wiling, Termination & Test 18 25AUG06 14SEP0e 0 -33 Z78061 CP7 - FS Conduit @ Ceiling Lvl 30 15JULG6A 14AUG06A 100 0 -33 Z78062 CP7 - Cabling, Wiling, FS detectn & Alarm Bel 48 21AUG06 170 CT06 0 48 74 -38 Z78065 CP7 - FS Tornihation & Test 24 180 CT06 15NOV06 0 24 74 -38 Z78065 CP7 - HV / LV Cable Brackets & Containment 30 03JULG6A 05AUG06A 03 0 34 60 -26 Z78066 CP7 - HV / LV Cable Brackets & Containment 30 03JULG6A 05AUG06A 00 0 -26 Z78066 CP7 - HV / LV Cable Brackets & Containment 30 03JULG6A 05AUG06A	278056	Ent SB - Lighting / Equipt Testing and T&C	24	13OCT06	10NOV06	0	0	24	-70	-2			$\overline{}$				
IPM CROSS PASSAGE CP07 - (EAM BULDING SERVICES VALUE OF COMPAINED Symmethyse (NO 278058 CP7 - Comp Air Pipes / Conduits to ENT NB & SB 30 15JUL06A 14AUG06A 100 0 -33 278058 CP7 - Cabling, Wiring, Termination & Test 18 25AUG06 14SEP06 0 0 18 24 -42 Time Protection System - 30 15JUL06A 14AUG06A 100 0 -33 278062 CP7 - Cabling, Wiring, FS detectrit & Alarm Bell 48 21AUG06 170CT06 0 48 -74 -38 278063 CP7 - FS Termination & Test 24 16SUC06 15NUV06 0 0 24 -74 -38 278065 CP7 - HV / LV Cable Brackets & Containment 30 0JJUL06A 05AUG06A 100 0 -26 278066 CP7 - Install Conduit, lighting & switches @ C/L 48 0JJUL06A 05AUG06A 0 -24 -24 278066 CP7 - Install Conduit, lighting & switches @ C/L 48 0JUL06A 0 -24 -26 -27 278066 CP7	278096	Place Covers on C. Trough	18	13OCT06	17NOV06	0	0	18	-23	-14	-						
UVLC/ 278058 CP7 - Comp Air Pipes / Conduits to ENT NB & SB 30 15 JUL06A 14 AUG06A 100 0 0	Vent Ad	lit Tunnel / Cross Passage 7	1 1		I	1 1		I	1 1				,				
278068 CP7 - Comp Air Pipes / Conduits to ENT NB & SB 30 15JUL06A 14AUG06A 100 0 1-33 278059 CP7 - Cabling, Wiring, Termination & Test 18 25AUG06 14SEP06 0 0 1-33 278051 CP7 - Cabling, Wiring, Termination & Test 18 25AUG06 14AUG06A 100 0 -33 278062 CP7 - Cabling, Wiring, FS detectn & Alarm Bell 48 21AUG06 170CT06 0 0 -33 278063 CP7 - FS Termination & Test 24 180CT06 170CT06 0 0 -4 -38 278064 HGC - Cabling S 21AUG06 170CT06 0 0 2 -74 -38 278065 CP7 - FS Termination & Test 24 180CT06 100 0 -26 -17 278066 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 -26 278066 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 0 0 -26 278067 CP7 - HV / LV Cableng, Wiring & Term to CP7 LV Rm </td <td>ENT CR</td> <td>OSS PASSAGE CP07 - (E&M) BUILDING SERVICES</td> <td></td>	ENT CR	OSS PASSAGE CP07 - (E&M) BUILDING SERVICES															
278059 CP7 - Cabling, Wiring, Termination & Test 18 25AUG06 145EP06 0 0 18 -24 -42 Pris Presentor System 278061 CP7 - Cabling, Wiring, FS detectin & Alarm Bell 30 15JUL06A 14AUG06A 100 0 -33 278062 CP7 - Cabling, Wiring, FS detectin & Alarm Bell 48 21AUG06 17OCT06 0 0 48 -74 -38 278063 CP7 - FS Termination & Test 24 18OCT06 15NUV06 0 0 48 -74 -38 Eventors Wiss 2 278066 CP7 - HV / LV Cable Brackets & Containment 30 0JJUL06A 05AUG06A 100 0 -26 278066 CP7 - HV / LV Cable Brackets & Containment 30 0JJUL06A 05AUG06A 100 0 -26 278066 CP7 - HV / LV Cable Brackets & Containment 30 0JJUL06A 05AUG06A 100 0 -26 278066 CP7 - HV / LV Cable Brackets & COTL W 48 170CT06 0 48 74 -38 278067 CP7 - HV / LV Cable Bresting and T&C 24<	1																
Price Potentianing No N	278058	CP7 - Comp Air Pipes / Conduits to ENT NB & SB	30	15JUL06A	14AUG06A	100	0	0		-33							
278061 CP7 - FS Conduit @ Ceiling Lvl 30 15JUL06A 14AUG06A 100 0 -33 278062 CP7 - Cabling, Wiring, FS detecth & Alarm Bell 48 21AUG06 17OCT06 0 0 48 -74 -38 278063 CP7 - FS Termination & Test 24 18OCT06 15NOV06 0 0 48 -74 -38 278063 CP7 - FS Termination & Test 24 18OCT06 0 0 24 -74 -38 278065 CP7 - FS Termination & Test 24 18OCT06 0 0 36 -62 -117 278065 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 -26 278066 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 25EP06 30 0 34 -60 -24 278066 CP7 - HV / LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 170CT06 0 0 48 -74 -38 278067 CP7 - Cabling, Wiring & Termination and Test 24 03OCT06 0 0	278059	CP7 - Cabling, Wiring, Termination & Test	18	25AUG06	14SEP06	0	0	18	-24	-42							
278062 CP7 - Cabling, Wiring, FS detectn & Alarm Bell 48 21AUG06 17OCT06 0 0 48 -74 -38 278062 CP7 - FS Termination & Test 24 18OCT06 15NOV06 0 0 24 -74 -38 Electrical Works 278065 CP7 - FS Termination & Test 36 21AUG06 30SEP06 0 0 36 -62 -17 278065 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 -26 278066 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 -26 278068 HGC - Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 170CT06 0 0 -26 278069 CP7 - HV / LV Cables Testing and T&C 24 03OCT06 01NOV06 0 0 -26 278067 CP7 - Cabling, Wiring & Termination and Test 24 03OCT06 01NOV06 0 0 24 -62 -26 278067 CP7 - HV / LV Cables Testing and T&C 24 03OCT06 01NOV06	Fire Protect	tion System			1			1									
278063 CP7 - FS Termination & Test 24 180CT06 15N0V06 0 0 24 -74 -38 Electrical Works	278061	CP7 - FS Conduit @ Ceiling Lvl	30	15JUL06A	14AUG06A	100	0	0		-33							
Electrical Works 278066 HC - Cabling 36 21AUG06 30SEP06 0 0 36 -62 -17 278065 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 0 -26 278066 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 05AUG06A 100 0 0 -26 278069 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 05AUG06A 100 0 0 -26 278069 CP7 - HV / LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 170CT06 0 0 48 -74 -38 278067 CP7 - Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 170CT06 0 0 24 62 -26 278067 CP7 - HV / LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 170CT06 0 0 24 62 -26 278067 CP7 - HV / LV Cables Testing and T&C 24 180CT06 15NOV06 0 0 24 -26 278074 <t< td=""><td>278062</td><td>CP7 - Cabling, Wiring, FS detectn & Alarm Bell</td><td>48</td><td>21AUG06</td><td>17OCT06</td><td>0</td><td>0</td><td>48</td><td>-74</td><td>-38</td><td></td><td>(</td><td></td><td></td><td></td><td></td><td></td></t<>	278062	CP7 - Cabling, Wiring, FS detectn & Alarm Bell	48	21AUG06	17OCT06	0	0	48	-74	-38		(
278086 HGC - Cabling 36 21AUG06 30SEP06 0 0 36 -62 -17 278086 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 -26 278086 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 28SEP06 30 0 34 60 -24 278086 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 05AUG06A 100 0 -26 278086 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 05AUG06A 100 0 -26 278087 CP7 - HV/LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 17OCT06 0 0 48 -74 -38 278067 CP7 - Cabling, Wiring & Termination and Test 24 03OCT06 01NOV06 0 0 24 -26 278070 CP7 - HV / LV Cables Testing and T&C 24 18OCT06 15NOV06 0 0 24 -74 -38 Entross Passages 278074 (CP1-CP21) - Cable Containment &	278063	CP7 - FS Termination & Test	24	18OCT06	15NOV06	0	0	24	-74	-38				 			
278065 CP7 - HV / LV Cable Brackets & Containment 30 03JUL06A 05AUG06A 100 0 0 -26 278066 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 28SEP06 30 0 34 -60 -24 278066 CP7 - Install Conduit, lighting & switches @ C/L 48 03JUL06A 05AUG06A 100 0 0 -26 278068 HGC - Cable Containment 30 03JUL06A 05AUG06A 100 0 -26 278069 CP7 - HV / LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 170CT06 0 0 24 -26 278067 CP7 - Cabling, Wiring & Termination and Test 24 03OCT06 01NOV06 0 0 24 -62 -26 278070 CP7 - HV / LV Cables Testing and T&C 24 18OCT06 15NOV06 0 0 24 -74 -38 ENT coss Passages CROS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 270/1 CP1 - CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06	Electrical V	Vorks			I			1									
CROSS Passages CROSS Passages COUNT CO	278086	HGC - Cabling	36	21AUG06	30SEP06	0	0	36	-62	-17	-			1			
278088 HGC - Cable Containment 30 03JUL06A 05AUG06A 100 0 0 -26 278069 CP7 - HV/LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 17OCT06 0 0 48 -74 -38 278067 CP7 - Cabling, Wiring & Termination and Test 24 03OCT06 01NOV06 0 0 24 -62 -26 278070 CP7 - HV / LV Cables Testing and T&C 24 18OCT06 1NOV06 0 0 24 -74 -38 ENT cross Passages CROSS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84	278065	CP7 - HV / LV Cable Brackets & Containment	30	03JUL06A	05AUG06A	100	0	0		-26							
278069 CP7 - HV/LV Cabling, Wiring & Term to CP7 LV Rm 48 21AUG06 17OCT06 0 0 48 -74 -38 278067 CP7 - Cabling, Wiring & Termination and Test 24 03OCT06 01NOV06 0 0 24 -26 278070 CP7 - HV/LV Cables Testing and T&C 24 18OCT06 15NOV06 0 0 24 -74 -38 ENT Cross Passages CROSS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84	278066	CP7 - Install Conduit, lighting & switches @ C/L	48	03JUL06A	28SEP06	30	0	34	-60	-24							
278067 CP7 - Cabling, Wiring & Termination and Test 24 030CT06 01N0V06 0 0 24 -62 -26 278070 CP7 - HV / LV Cables Testing and T&C 24 180CT06 15N0V06 0 0 24 -74 -38 ENT Cross Passages CROSS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84	278088	HGC - Cable Containment	30	03JUL06A	05AUG06A	100	0	0		-26	-						
278070 CP7 - HV / LV Cables Testing and T&C 24 180CT06 15NOV06 0 0 24 -74 -38 ENT Cross Passages CROSS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84	278069	CP7 - HV/ LV Cabling, Wiring & Term to CP7 LV Rm	48	21AUG06	17OCT06	0	0	48	-74	-38	-						
ENT Cross Passages ENT Cross Passages Image: Cross Passages (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works Image: Cross Passage (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84 Image: Cross Passage (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84 Image: Cross Passage (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84 Image: Cross Passage (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84 Image: Cross Passage (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84 Image: Cross Passage (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84 Image: Cross Passage (CP1-CP21) - Cable Containment & Cr	278067	CP7 - Cabling, Wiring & Termination and Test	24	03OCT06	01NOV06	0	0	24	-62	-26				 			
CROSS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84	278070	CP7 - HV / LV Cables Testing and T&C	24	18OCT06	15NOV06	0	0	24	-74	-38							
CROSS PASSAGES (CP1-CP6 & CP8-CP21) - (E&M) WORK Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84	ENT Cro	bss Passages	1		I			I	1 1								
Electrical Works 278074 (CP1-CP21) - Cable Containment & Equipt Support 60 07FEB06A 26AUG06 90 80 6 -92 -84		-															
	1																
278077 (CP21-CP11) - MCCB/ MCB Brd,CMCS,Busbar,Switches 72 03MAY06A 11SEP06 73 0 19 -84 -37	278074	(CP1-CP21) - Cable Containment & Equipt Support	60	07FEB06A	26AUG06	90	80	6	-92	-84							
	278077	(CP21-CP11) - MCCB/ MCB Brd,CMCS,Busbar,Switches	72	03MAY06A	11SEP06	73	0	19	-84	-37							

D Description Dur Start Prink Compl % Compl Dir Found Watch 270707 CP1-CP10) - MCCBM MCB End; CMCS, Buscher, Switches 60 173/ULGA 170/CT68 20 0 45 42 778 270707 CP1-CP21) - Conduitight, Signage fox, Switches 60 173/ULGA 170/CT68 20 0 45 422 778 278070 CP1-CP21) - HV & LV Cables Terminations & Test 30 06AUGOGA 40DEC06 5 0 5 42 778 VENTLATION ADIT & BUILDINO 20 07MAYGEA 30AUGOS 70 70 9 101 90 1972 VA Bidg - Approve aluminium composite diadding 24 07MAYGEA 30AUGOS 70 70 9 101 90 1988 VA Bidg - Approve aluminium composite diadding 24 07MAYGEA 30AUGOS 50 50 78 98 43 90 2020 VA Bidg - Initial delivery balar expanded method and methodidating 0 0AUKOS6	Act.	Activity	Orig Early	Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35	SEP 36		ОСТ 37	NOV 38	DEC 39
278078 (CP1-CP10) - MCC8/ MCB Bric/MCS Busker.Switches 72 03MAY08A 138EP08 65 0 25 84 -45 278076 (CP1-CP21) - Conduluting Signage field, Switches 60 17JUL08A 170CT06 20 0 48 -122 778 278076 (CP1-CP21) - HV & LV Cables Terminations & Test 90 0AUG08A 06DEC06 5 0 57 -117 -33 278076 (CP1-CP21) - Cabling, Wing, Termination & Test 36 190CT06 29 0 48 -122 -78 VENTLATION ADDIT & BUILDING Submittals & Approvals Submittals & Approve door dealis 24 07MAY06A 30AUG08 70 9 -101 -00 1989 VA Bdg Approve door dealis 24 07MAY06A 30AUG08 50 0 -78 2202 VA Bdg Indial delivery state dadding 0 0LU0A6A 30AUG06 50 60 0 22 -88 2203 VA Bdg Indial delivery state dadding 0 21AUG06*			Dur Start	Finish	Compl.	% Comp	Dur	Float	Early Finish								7 4 11
278075 CPI-CP21) - Conduit, light, Signage fot, Switches 60 17JUL06A 17OCT06 20 0 48 +122 -78 278075 (CPI-CP21) - HV & LV Cables Terminations & Test 60 08AUG0A 0BDEC06 5 0 57 +17 -33 278076 (CPI-CP21) - HV & LV Cables Terminations & Test 36 18OCT6 29NOV6 0 0 36 +22 -78 VENTLEATION ADIT & BUILDING Submittais & Approvals ABMy & A Builders Works 1972 VA Bidg - Approve aluminium composite cladding 24 07MAYDSA 30AUG08 70 70 9 +01 -90 1972 VA Bidg - Approve aluminium composite cladding 24 13APC065 50 50 0 -79 PROCURE WENT Architectrust. 1395 VA Bidg - Procure aluminium composite cladding 0 13APUG06 50 50 50 50 50 43 -50 43 -50 <t< td=""><td></td><td></td><td></td><td>100000</td><td>65</td><td>(</td><td>25</td><td>01</td><td>45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				100000	65	(25	01	45								
278079 CP1-CP21) -HV & LV Cables Terminations & Test 60 08AUG06A 06DEC06 5 0 57 -117 -33 278076 CP1-CP21) - Cabling, Wing, Termination & Test 36 180CT06 28NOV06 0 0 6 -122 -78 VENTILATION ADIT & BUILDING Submittals & Approvals ABW & 8.001467 YA Bidg Approve door details 24 07MAY03A 30AUG08 70 70 9 -101 -90 1988 VA Bidg Approve aluminum composite dadding 24 120EC06A 015EP06A 100 50 0 -79 PROCUREMENT Acchitect Uraka 2238 VA Bidg Procure aluminium composite dadding 90 60 50 50 6 43 90 2023 VA Bidg Initial delivery state cladding 0 10 0 0 23 36 2024 VA Bidg Initial delivery state cladding 0 13NOV06" 0 0 32 36 2035 VA Bidg Initial delivery num comp cladding 0 1NOV06"	210010	(CF 1-CF 10) - MCCB/ MCB Blu, CMC3, Busbal, Switches	72 03WAT00A	IOSEFUU	05	, c	25	-04	-45					•			
278076 (CP1-CP21) - Cabling, Wiring, Termination & Test 36 130CT06 29NOV06 0 36 -122 -78 VENTILATION ADIT & BUILDING Submittals & Approvals ABUF * Builders Works 1972 (V & Bidg, - Approve aluminium compasite cladding 24 07MAY065 30AUG06 70 70 9 -101 -90 1982 (V & Bidg, - Approve aluminium compasite cladding 24 19EPCOLORE	278075	(CP1-CP21) - Conduit,light,Signage fixt,Switches	60 17JUL06A	17OCT06	20	C	0 48	-122	-78	_							
VENTILATION ADIT & BUILDING VENTILATION ADIT & BUILDING Submittals & Approvals ABWF & Builders Works 1972 (V Bilg, - Approve door details 24 07MAY05A 30AUG06 70 70 9 101 490 1982 (V Bilg, - Approve aluminium composite cladding 24 13DEC05A 01SEP06A 100 50 0 -779 PROCUREMENT Addition and the standing 60 06UINDSA 23SEP06 50 60 30 -78 -88 2026 VA Bilg, - Procure aluminium composite cladding 90 19APR05A 23SEP06 50 50 9 43 -90 2026 VA Bilg, - Initial delivery site cladding 0 0 0 6 55 2034 VA Bilg, - Initial delivery site cladding 0 21AUG06* 0 0 32 38 2038 VA Bilg, - Initial delivery alum comp cladding 0 270C106* 0 0 -43 64 3 3 4 3 4 4 3 4 4 3 3 4	278079	(CP1-CP21) - HV & LV Cables Terminations & Test	60 08AUG06A	06DEC06	5	() 57	-117	-33		>						
Submittals & Approvals ABWF & Buildors Works 1972 VA Bldg Approve door details 24 07MAY05A 30AUG66 70 70 9 -101 -90 1988 VA Bldg Approve aluminum composite cladding 24 13DEC06A 01SEP06A 100 50 0 - - - PROCUERENT	278076	(CP1-CP21) - Cabling, Wiring, Termination & Test	36 18OCT06	29NOV06	0	(0 36	-122	-78								•
Submittalis & Approvals ABWF & Builders Works 1972 VA Bidg Approve door details 24 07MAY05A 30AUG06 70 70 9 -101 -90 1988 VA Bidg Approve aluminium composite cladding 24 13DEC05A 01SEP06A 100 50 0 -79 PROCURENT	VENTII	ATION ADIT & BUILDING															
ABWF & Builders Works 1972 VA.Big Approve door details 24 07MAY05A 30AUG06 70 70 9 -101 -90 BWOCUREMENT ABidg Approve aluminium composite cladding 24 13DEC05A 01SEP06A 100 50 0 -79 PROCUREMENT ARCHITECTURAL 1985 VA.Bidg Procure aluminium composite cladding 90 19APR05A 23SEP06 50 60 30 -78 -98 2020 VA.Bidg Initial delivery slate cladding 0 04/04066 50 50 60 30 -78 -98 2021 VA.Bidg Initial delivery slate cladding 0 21AUG066 0 0 43 -90 2031 VA.Bidg Initial delivery slate cladding 0 21AUG066 0 0 0 32 -36 2032 VA.Bidg Initial delivery alum comp cladding 0 21AUG066 0 0 0 0 34 -64 -6 -6 -6 -6 -6 -6 -6 -6																	
1972 VA Bidg Approve door details 24 07MAYQ6A 30AUG06 70 70 9 -101 -90 1988 VA Bidg Approve aluminium composite cladding 24 13DEC06A 01SEP06A 100 50 0 -79 PROCUREMENT 1995 VA Bidg Procure aluminium composite cladding 90 13APR05A 23SEP06 50 60 30 -78 -98 2026 VA Bidg Procure expanded metal mesh cladding 60 06UN05A 30AUG06 50 50 64 -90 2031 VA Bidg Initial delivery slate cladding 0 21AUG06* 0 0 6 -5 2034 VA Bidg Initial delivery balust & metal works 0 21AUG06* 0 0 32 -36 2035 VA Bidg Initial delivery balust & metal works 0 21AUG06* 0 0 -78 -64 2038 VA Bidg Initial delivery doors 0 13NVO6* 0 0 -101 -87 2032 VA Bidg Initial delivery doors 0 13NVO6* 0 0		• •															
1988 VA Bidg Approve aluminium composite cladding 24 13DEC05A 01SEP06A 100 50 0 -79 PROCUREMENT ARCHITECTURAL 1995 VA Bidg Procure aluminium composite cladding 90 19APR05A 23SEP06 50 60 30 -78 -98 2026 VA Bidg Procure aluminium composite cladding 60 60JUN05A 30AUG06 50 9 -43 -90 2031 VA Bidg Initial delivery slate cladding 0 21AUG06* 0 0 32 -36 2034 VA Bidg Initial delivery alum comp cladding 0 21AUG06* 0 0 32 -36 2035 VA Bidg Initial delivery alum comp cladding 0 270CT06* 0 0 32 -36 2038 VA Bidg Initial delivery alum comp cladding 0 270CT06* 0 0 -101 -87 2032 VA Bidg Initial delivery dors 0 13NOV06* 0 0 -101 -87 -84 2032 VA Bidg Initial delivery dors 0 13NOV06* 0					1			1									
PROCUREMENT ARCHITECTURAL 1995 VA Bidg Procure aluminium composite cladding 00 19APR05A 23SEP06 50 60 30 -78 -98 2026 VA Bidg Procure expanded metal mesh cladding 00 04 50 50 9 43 -90 2031 VA Bidg Initial delivery slate cladding 0 21AUG06* 0 0 66 -55 2033 VA Bidg Initial delivery tali arrest roof sys 0 21AUG06* 0 0 0 32 -36 2038 VA Bidg Initial delivery balust & metal works 0 21AUG06* 0 0 0 43 -64 2032 VA Bidg Initial delivery alum comp cladding 0 01NOV06* 0 0 -43 -64 2032 VA Bidg Initial delivery doors 0 13NOV06* 0 0 -101 -87 2032 VA Bidg Initial delivery doors 0 13NOV06* 0 0 -101 -87 6636 VaBidgProc & Manuf. FS AFA & FM200 sys 120 29MAR05A 15SEP06 8	1972	VA Bldg Approve door details	24 07MAY05A	30AUG06	70	70	9	-101	-90								
ARCHITECTURAL 1995 VA Bidg Procure aluminium composite cladding 90 19APR05A 23SEP06 50 60 30 -78 -98 2026 VA Bidg Procure expanded metal mesh cladding 60 0.0UN05A 30AUG06 50 50 9 -43 -90 2031 VA Bidg Initial delivery slate cladding 0 21AUG06* 0 0 -6 -5 2034 VA Bidg Initial delivery balust & metal works 0 21AUG06* 0 0 0 32 -36 2035 VA Bidg Initial delivery balust & metal works 0 21AUG06* 0 0 0 32 -36 2038 VA Bidg Initial delivery balust & metal works 0 21AUG06* 0 0 0 32 -36 2038 VA Bidg Initial delivery doors 0 10NV06* 0 0 -78 -64 4 4 -	1988	VA Bldg Approve aluminium composite cladding	24 13DEC05A	01SEP06A	100	50	0 0		-79								
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2038 VA Bldg Initial delivery alum comp cladding 0 270CT06* 0 0 -78 -64 2043 VA Bldg Initial delivery metal mesh cladding 0 01NOV06* 0 0 -43 -64 2032 VA Bldg Initial delivery doors 0 13NOV06* 0 0 -101 -87 6636 VaBldg Initial delivery doors 120 29MAR05A 15SEP06 80 90 23 349 -104 6636 VaBldgProc & Manuf. FS wet sys 120 06JUN05A 31AUG06 90 95 10 362 -96 6585 VaBldg.Proc & Manuf. PD fresh & flush water sys 120 06JUN05A 31AUG06 90 85 10 362 -96 6585 VaBldg.Proc & Manuf. MVAC Package AC Units 120 16DEC05A 15SEP06 80 80 23 349 -104	2034	VA Bldg Initial delivery fall arrest roof sys	0 21AUG06*		0	(0 0	32	-36	-	l,	\diamond					
2043 VA Bldg Initial delivery doors 0 01NOV06* 0 0 0 -43 -64 - <	2035	VA Bldg Initial delivery balust & metal works	0 21AUG06*		0	(0 0	32	-36	-	Ţ						
2032 VA Bldg Initial delivery doors 0 13NOV06* 0 0 0 -101 -87 1 1 -87 1 1 -87 1 -98 -98 -98 1 3 3 -98 -96 -98 -98 -98 -98 -98 -98 -98 -98 -98 -98 -98 -98 -98 -98 -98 -	2038	VA Bldg Initial delivery alum comp cladding	0 27OCT06*		0	(0 0	-78	-64			Û			•		
2032 VA Bldg Initial delivery doors 0 13NOV06* 0 0 0 -101 -87 1	2043	VA Bldg Initial deliv exp metal mesh cladding	0 01NOV06*		0	(0 0	-43	-64			л			•		
6636VaBidg-Proc & Manuf. FS AFA & FM200 sys12029MAR05A15SEP06809023349-1046586VaBidg-Proc & Manuf. FS wet sys12006JUN05A31AUG06909510362-966585VaBidg-Proc & Manuf. PD fresh & flush water sys12030SEP05A31AUG06908510362-958516VaBidg-Proc & Manuf. MVAC Package AC Units12016DEC05A15SEP06808023349-104	2032	VA Bldg Initial delivery doors	0 13NOV06*		0	(0 0	-101	-87	-		'n				•	
6636VaBidg-Proc & Manuf. FS AFA & FM200 sys12029MAR05A15SEP06809023349-1046586VaBidg-Proc & Manuf. FS wet sys12006JUN05A31AUG06909510362-966585VaBidg-Proc & Manuf. PD fresh & flush water sys12030SEP05A31AUG06908510362-958516VaBidg-Proc & Manuf. MVAC Package AC Units12016DEC05A15SEP06808023349-104	F&M MA	TERIALS										1					
6585 VaBldg-Proc & Manuf. PD fresh & flush water sys 120 30SEP05A 31AUG06 90 85 10 362 -95 8516 VaBldg-Proc & Manuf. MVAC Package AC Units 120 16DEC05A 15SEP06 80 80 23 349 -104			120 29MAR05A	15SEP06	80	90) 23	349	-104								
8516 VaBidg-Proc & Manuf. MVAC Package AC Units 120 16DEC05A 15SEP06 80 80 23 349 -104	6586	VaBldg-Proc & Manuf. FS wet sys	120 06JUN05A	31AUG06	90	95	5 10	362	-96								
	6585	VaBldg-Proc & Manuf. PD fresh & flush water sys	120 30SEP05A	31AUG06	90	85	5 10	362	-95								
	8516	VaBldg-Proc & Manuf. MVAC Package AC Units	120 16DEC05A	15SEP06	80	80) 23	349	-104								
			180 06JAN06A		87	80) 23	349	-104								
	0000			10021 00	51			0.10									

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	33 12 19 26	34 3 10 17 24 31	35 7 14 21	36 28 4 11 18 25	37 2 9 16 23 3	38 30 6 13 20 27	39 7_411
MAJOR	EQUIPMENT DELIVERY															
7592	VaBldg-Del. PD irrig. pump & tank to G/F	48	07MAR06A	07SEP06	67	55	16	356	-97							
6859	VaBldg-Del. MVAC /TVF pneumatic sys to 1/F	48	30MAR06A	15SEP06	52	0	23	349	-56							
8517	VaBldg-Del. Package AC Units	48	30MAR06A	15SEP06	52	0	23	349	-56							
6608	VaBldg-Del. PD pump & tank to G/F	48	02MAY06A	31AUG06	80	0	10	362	-47				T			
6609	VaBldg-Del. FS pumps & tank to G/F	48	02MAY06A	31AUG06	80	0	10	362	-48				T			
6619	VaBldg-Del. building vent. fans	48	15MAY06A	15SEP06	52	0	23	349	-56							
6698	VaBldg-Del. AFA & FM200 sys	48	15MAY06A	15SEP06	52	0	23	349	-56							
6666	VaBldg-Del. CMCS & ELV equip't	48	01JUN06A	15SEP06	90	0	23	349	-28							
CONSTR	RUCTION WORKS															
Vent Bld	lg & Adit TCSS Access															
0295	Vent Bldg & Adt - TCSS Access	0		24AUG06	0	0	0	-62	-59	Û		•				
ADIT TU	NNEL															
Vent Adit																
Туре М		1						T								
	Vent Adit - Cable Bracket Installation	12		15AUG06A	100	0			-74							
0379	Vent Adit - HGC Cable Containment	18	08MAY06A	15AUG06A	100	0	0		-68							
EXTERN	IAL WORKS															
Drainage) 															
S1900	Petrol interceptor & Storm Drain at East Side	48	21AUG06	17OCT06	0	0	48	-82	-59			-				
S1940	Foul Drain Pipe & Holding Tank	24	21AUG06	16SEP06	0	0	24	-58	-59							
S1960	Storm Drain at West Side	24	21AUG06	16SEP06	0	0	24	-100	-73							
S1970	Storm Drain & Gullies at Access Apron	24	18SEP06	17OCT06	0	0	24	-100	-73							
Ducting 8	& Drawpits															
S1910	Ducting & Drawpits	18	09NOV06	29NOV06	0	0	18	-100	-67							
Waterma	ain Works															
S1950	Watermain & Valve Chambers at Building Apron	24	18OCT06	15NOV06	0	0	24	-100	-73							
S1990	Irrigation Pipework	18	16NOV06	06DEC06	0	0	18	-88	-73							

Ind Description Date Start Final Comp. % Comp.	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUC	SEP	ОСТ	NOV	DEC
The Number 12 19JULDER 10JULDER 10J			-		-						33	34 5 3 10 17 24		36	37 2 9 16 23 3	38 0 6 13 20 27	39
BB3030 Apply for Road Works Advice from RMO of HKPF 7 13JUG00. 28AUG60 0 0 7 116 -36 SB3030 TTMS Cheme Implemented 0 0 SSEP00 2SSEP00 0 0 116 -46 SB3070 Stage 1- Watermain Crossing Tai Po Rd 18 0 SSEP00 2SSEP00 0 0 18 -97 -38 SB3080 Stage 2 - Watermain Crossing Tai Po Rd 18 2SSEP00 108 -97 -38 SB3080 Stage 3 - Watermain Crossing Tai Po Rd 19 2SSEP00 0 0 18 -97 -38 SB3080 Stage 3 - Watermain Crossing Tai Po Rd 49 1NOV00 10JAN07 0 0 4 97 -38 VENTLATION BULLDINC Waterman Crossing Tai Po Rd 49 1NOV06 0 0 -76 -73 T1330 Installation of Earth mat 60 21JUG6A 100 0 -76 -73 T2330 Installation of Earth mat 16 02JUL06					1					-				<u></u>			
B33050 TM Scheme Implemented 0 0.05SEP06 0 0 1.16 -45 2xetInternative Advisational Crossing Tai Po Rd 18 05SEP06 0 0 1.88 97 -38 B33000 Stage 2 - Watermain Crossing Tai Po Rd 18 05SEP06 0 0 18 -97 -38 B33000 Stage 2 - Watermain Crossing Tai Po Rd 18 100CT06 0 0 19 -97 -38 Stage 3 - Watermain Crossing Tai Po Rd 48 11NOV06 10UNV06 0 0 49 -97 -38 VENTLATION BUILDING - <	SB3010	Apply for Excavation Permit	12	19JUL06A	10AUG06A	100	0	0		-27		-7					
Conclusion Conclusion <thconclusion< th=""> Conclusion Conclusi</thconclusion<>	SB3030	Apply for Road Works Advice from RMO of HKPF	7	13AUG06A	26AUG06	0	0	7	-116	-36	-						
B3070 Stage 1 - Watermain Crossing Tai Po Rd 18 05SEP06 0 0 18 -97 -38 B35800 Stage 2 - Watermain Crossing Tai Po Rd 18 26SEP06 180-CT06 0 0 18 -97 -38 B35800 Stage 3 - Watermain Crossing Tai Po Rd 19 19CCT06 10NOV06 0 0 18 -97 -38 B358100 Stage 4 - Watermain Crossing Tai Po Rd 49 1NOV06 0 0 49 -97 -38 VENTLATION BUILDING	SB3050	TTM Scheme Implemented	0	05SEP06		0	0	0	-116	-45	-	Ŷ		♦			
B3070 Stage 1 - Watermain Crossing Tai Po Rd 18 05SEP06 0 0 18 -97 -38 B35800 Stage 2 - Watermain Crossing Tai Po Rd 18 26SEP06 180-CT06 0 0 18 -97 -38 B35800 Stage 3 - Watermain Crossing Tai Po Rd 19 19CCT06 10NOV06 0 0 18 -97 -38 B358100 Stage 4 - Watermain Crossing Tai Po Rd 49 1NOV06 0 0 49 -97 -38 VENTLATION BUILDING	Construct	ion of Watermains Across Tai Po Rd															
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Statuto Stage 4 - Watermain Crossing Tai Po Rd 49 1 NOV/de 1 UJAN07 0 0 49 47 -38 VEXTILATION BUILDING Valueting - Structure Valueting - Structure <t< td=""><td>SB3080</td><td>Stage 2 - Watermain Crossing Tai Po Rd</td><td>18</td><td>26SEP06</td><td>18OCT06</td><td>0</td><td>0</td><td>18</td><td>-97</td><td>-38</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	SB3080	Stage 2 - Watermain Crossing Tai Po Rd	18	26SEP06	18OCT06	0	0	18	-97	-38	-						
VENTLATION BUILDING VA Building - Structure T3330 Completion of Cable Riser at Grid D3 6 2UJUL06A 100 0 0 -46 T3130 Installation of Exhaust Shaft Steelwork 18 21AUG06 095EP06 0 0 18 480 -76 T3130 Installation of Exth mat 60 21AUG06 100 0 0 -52 VA Buildorg - Extruction T 18 03JUL06A 100 0 0 -52 T2260 ABWF Initial Finishes Fan Rooms & Plemums 18 2JUL06A 24AUG06 80 0 4 42 -59 VA Buildorg - Extruction T 25JUL06A 22EP06 30 0 12 -8 -65 T2050 VA Buildog - Ext. Wall Waterproof Render 12 04SEP06 0 0 12 -34 -64 T3060 VA Buildg - Ext. Wall Waterproof Membrane 12 04SEP06 0 0 12 24 -64	SB3090	Stage 3 - Watermain Crossing Tai Po Rd	19	19OCT06	10NOV06	0	0	19	-97	-38	-						
VA Building - Structure VA T3330 Completion of Cable Riser at Grid D3 6 20JUL06A 26JUL06A 100 0 0 -46 T2130 Installation of Exhaust Shaft Steelwork 18 21AUG06 09SEP66 0 0 18 -80 -76 T3130 Installation of Earth mat 60 21AUG06 01N0V06 0 0 -58 -73 VA Building - ABWF T T 18 03JUL06A 28JUL06A 100 0 -52 -52 T2290 ABWF Initial Finishes Fan Rooms & Plemums 18 0.0JUL06A 22SEP06 30 0 12 -8 -65 T2400 VA Bidg Ext. Wall Waterproof Membrane 21 2JUL06A 02SEP06 0 0 12 -34 -64 T3060 VA Bidg Ext. Wall Waterproof Membrane 21 2JUL06A 02SEP06 0 0 12 -34 -64 T2400 VA Bidg Ext. Wall Waterproof Membrane 21 2SUL06A 0	SB3100	Stage 4 - Watermain Crossing Tai Po Rd	49	11NOV06	10JAN07	0	0	49	-97	-38							
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VA Building - ABWF VA	T2130	Installation of Exhaust Shaft Steelwork	18	21AUG06	09SEP06	0	0	18	-80	-76	-						
T3190 Installation of Hoist Beam at 1/F 18 03JUL06A 2AJUL06A 100 0 -52 T2290 ABWF Initial Finishes Fan Rooms & Plemums 18 20JUL06A 24AUG06 80 0 4 -92 -59 VA Building - External Finishes -	T3130	Installation of Earth mat	60	21AUG06	01NOV06	0	0	60	-58	-73			<u> </u>				
T3190 Installation of Hoist Beam at 1/F 18 03JUL06A 28JUL06A 100 0 -52 T2290 ABWF Initial Finishes Fan Rooms & Plemums 18 20JUL06A 24AUG06 80 0 4 -92 -59 VA Building - External Finishes T2050 VA Bidg Ext. Wall Waterproof Render 20 10JUL06A 02SEP06 30 0 12 -8 -65 T3060 VA Bidg Ext. Wall Waterproof Membrane 21 25JUL06A 02SEP06 0 0 12 -34 -64 T2050 VA Bidg Slate Cladding 44 04SEP06 26OCT06 0 0 14 -18 -17 T3080 VA Bidg Roof Waterproofing & Test 12 04SEP06 16SEP06 0 0 12 -22 -64 T3070 VA Bidg Install Aluminum Iouvres & doors 60 11SEP06 16DEC06 0 0 18 -22 -64 T3100 VA Bidg Z5thk Roof Screed & Roofing Tiles 18 03OCT06 24OCT06	VA Build	ding - ABWF		1	1					1							
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T3070VA Bldg External Wall Painting2211 SEP06060CT060022-8-65	T2140	VA Bldg Slate Cladding	44	04SEP06	26OCT06	0	0	44	-18	-17							
T3110VA Bldg Install Aluminum louvres & doors6011SEP0616DEC060060101-87Image: Constant of the second se	T3080	VA Bldg Roof Waterproofing & Test	12	04SEP06	16SEP06	0	0	12	-22	-64		-					
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T3100 VA Bldg GMS,S/S Channel, Balustrade & Railing 18 250CT06 15N0V06 0 0 18 -22 -64	T3110	VA Bldg Install Aluminum louvres & doors	60	11SEP06	16DEC06	0	0	60	-101	-87							
	Т3090	VA Bldg 25thk Roof Screed & Roofing Tiles	18	03OCT06	240CT06	0	0	18	-22	-64							
T3120 VA Bldg Alum Comp Panel Cladding to Ext Walls 60 270CT06 09JAN07 0 0 60 -64	T3100	VA Bldg GMS,S/S Channel, Balustrade & Railing	18	25OCT06	15NOV06	0	0	18	-22	-64							
	T3120	VA Bldg Alum Comp Panel Cladding to Ext Walls	60	27OCT06	09JAN07	0	0	60	-78	-64							

ID Description Dur Bur Print Compl. % Compl.	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
V h Ruker, Seward E relation 22 01NOV06 28 UNOV06 0 0 22 4-3 -0 E AL MORKS		,			-						33		35 31 7 14 21	28 4 11 18 25	37 2 9 16 23 3	38 0 6 13 20 2	39 7 4 11
E AL MVORKS Ymmiterna Altility, Giffuen Res: 2 as Work. EVALUATION: 2 as Works for Clemest 12 17JULOBA 26AUG0B 50 0 6 -94 -88 EVACUID BS Works for Clemest 18 014UG0BA 05SEP0B 20 0 14 -98 -58 EVACUID BS Works in Createst 10 14UG0BA 02SEP0B 00 0 34 -66 -24 EVACUID BS Works in TVS Plenums 30 14AUG0BA 02SEP0B 0 0 34 -66 -24 EVACUID BS Works in TVS Plenums 30 14AUG0BA 02SEP0B 0 0 34 -66 -24 EVACUID BS Works in TVS Plenums 30 14AUG0BA 02SEP0B 0 0 34 -65 EVACOD IN SW + TX Installation 30 07NVV06 11DEC00 0 0 34 12 EVACOD INS Works for LVS W, MCC, UPS, LCC 12 15UL0BA 26AUG0B 00 17 -66 -55 EVACOD IS BW Works for CLV SW, MCC, UPS, LCC 12 12MUG0BA 0 0 10 10 1				1 1	1					-					<u></u>		
Newson Control Control <thcontrol< th=""> <thcontrol< th=""> <thco< td=""><td>T2110</td><td>VA Bldg Expanded metal cladding to Ext Walls</td><td>22</td><td>01NOV06</td><td>25NOV06</td><td>0</td><td>0</td><td>22</td><td>-43</td><td>-64</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thco<></thcontrol<></thcontrol<>	T2110	VA Bldg Expanded metal cladding to Ext Walls	22	01NOV06	25NOV06	0	0	22	-43	-64							
Newson Control Control <thcontrol< th=""> <thcontrol< th=""> <thco< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thco<></thcontrol<></thcontrol<>																	
EM02040 BS Works for HV Sw + Tx 12 f7JULIGA 26AU 006 50 0 6 -94 -98 EM2200 BS Works for Geneel 10 01AUG6A 055EP06 20 0 14 -94 -58 EM2200 EAM Works in Condors G/F 24 01AUG6A 095EP06 40 0 14 -96 -54 EM2200 EAM Works in TVS Plenums 30 14AUG6A 095EP06 30 0 34 -66 -24 EM2200 EAM Works in TVS Plenums 30 14AUG6A 155EP06 20 0 24 -92 -49 EM2200 EAM Works in TVS Plenums 30 14AUG6A 155EP06 20 0 24 -92 -49 EM2200 Genere Installation 30 07NOV6 11DEC06 0 0 30 -126 -95 EM2050 HGC - Cable Containment 18 15AUG66 50 0 6 -86 -66 EM2210 EAM Works in Crimors 1/F 24 04AUG66 0 0 105 -70 <td></td>																	
EM2200 BX Works for Genset 18 01AUG06A 05SEP06 20 0 14 -44 -58 EM2200 EAM Works in Corridors G/F 2 01AUG06A 09SEP06 40 0 14 -66 -54 EM2200 EAM Works in Risers 40 04AUG06A 28SEP06 30 34 -66 -24 EM2210 BS Works in TVS Plenums 30 14AUG06A 155EP06 20 0 24 42 49 EM2200 Censer Installation 36 05SEP06 190CT06 0 36 -44 58 EM2200 DKGrks in TVS Plenums 30 17AU066 0 0 30 126 -95 EM2200 HQ ** Tx Installation 30 07NV06 110E006 0 0 12 46 -66 EM2205 BW orks for LV Sw, MCC, UPS, LCC 12 18.UG66A 26AU066 0 0 12 -66 -66 -66 -66 -66 -66 -66 -66 -66 -66 -66 -66 -66 -66			10	47.000	00411000	50	0	0	0.1	<u> </u>	-						
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EMX 2000 EAM Works in Risers 48 04AUG06A 28SEP06 30 0 34 66 -24 EMX 210 BS Works in TVS Plenums 30 14AUG06A 18SEP06 20 0 24 92 -49 EMX 220 Genest Installation 36 05SEP06 19OCT06 0 0 86 94 -58 EMX200 HV Sw + Tx Installation 30 07NOV06 110EC06 0 0 10 119 Volumento Act Big(15): - EA MV05 10 10 50 0 6 46 -66 EM2200 EAM Works in Curvidors 1/F 24 04AUG06A 08SEP06 30 17 66 -55 EM2100 BS Works in Curvidors 1/F 24 04AUG06A 08SEP06 30 10 70 EM2200 EAM Works in Curvidors 1/F 24 04AUG06A 08SEP06 30 105 -70 EM2200 UV Sw, MCC, UPS, LCC 12 28AUG06 05EP06 0 0 30 105 -70 EM2200 UV Sw, MCC, UPS, LCC	FM2260	F&M Works in Corridors G/F	24	01AUG06A	09SEP06	40	0	14	-66	-54							
M2310 B S Works in TVS Plenums 00 14AUG06A 165EP06 20 0 24 92 -49 M2200 Genset Installation 36 06SEP06 190CT06 0 0 36 94 -58 M2020 Genset Installation 30 07NOV06 11DEC06 0 0 30 126 -95 M2020 HV Sw + TX Installation 16 15AUG064 50 0 9 41 19 Verifiem Addig: (IT) : E & Wwk T 15AUG064 26AUG06 50 0 6 88 -66 M2200 BS Works for LV Sw, MCC, UPS, LCC 12 1AUG064 08EP06 30 0 17 66 -55 M2100 BS Works for 110V Charger Rm 12 28AUG06 0 0 30 -105 -70 EM2300 DK Installation 30 195EP06 20 0 30 -105 -63 Vertition Add Bis IgP/Hy Pleup: E & M Wek Termination of overall Elect HV & LV Sys 30 17NOV66 20 0 0 2.35 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>							-										
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Versitiation: Addi Bidg (15): E & M Work: Market Marke	EM2060	HV Sw + Tx Installation	30	07NOV06	11DEC06	0	0	30	-126	-95							
Versitiation: Addi Bidg (15): E & M Work: Market Marke	EM2050	HCC Cable Containment	10	154110064	20411006	50	0	0	11	10	-						
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INPLOS DS Works for Hov Charger Kill 12 22AG000 0SET 00 0 12 00 100	EM2280	E&M Works in Corridors 1/F	24	04AUG06A	08SEP06	30	0	17	-66	-55							
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EM2320 TVS Installation 90 21AUG06 06DEC06 0 0 90 -35 Testing and Commissioning Image: Commissioning Im		Termination of overall Electric & EV Sys	50	17100000	ZIDLCOO	0	0	30	-105	-03							
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EM2180 110V Charger Rm Installation + T&C 12 11SEP06 23SEP06 0 0 12 -80 -66 EM2240 Genset Termination + T&C 12 200CT06 03N0V06 0 0 12 -94 -58 EM2140 LV Sw, MCC, UPS, LCC Termination + T&C 30 260CT06 30N0V06 0 0 105 -70 - <																	
EM2240 Genset Termination + T&C 12 200CT06 03N0V06 0 0 12 -94 58				1		1			1	1							
EM2140 LV Sw, MCC, UPS, LCC Termination + T&C 30 260CT06 30NOV06 0 0 30 -70 Image: Constrained by the constrained	EM2180	110V Charger Rm Installation + T&C	12	11SEP06	23SEP06	0	0	12	-80	-66							
EM2140 LV Sw, MCC, UPS, LCC Termination + T&C 30 260CT06 30NOV06 0 0 30 -70 Image: Constrained by the constrained			10	0000 T 00	001101/00			10	0.1	50							
ENT NORTH PORTAL VENTILATION BUILDING SUBMITTALS & APPROVALS ABWF & Builders Works	EM2240	Genset Termination + T&C	12	2000106	03NOV06	0	0	12	-94	-58							
ENT NORTH PORTAL VENTILATION BUILDING SUBMITTALS & APPROVALS ABWF & Builders Works	EM2140	LV Sw MCC LIPS LCC Termination + T&C	20	2600706	2010/06	0	0	20	105	70	-				—		
SUBMITTALS & APPROVALS ABWF & Builders Works			30	2000100	30110 000	0	0	30	-105	-70							
SUBMITTALS & APPROVALS ABWF & Builders Works										l							
ABWF & Builders Works																	
	SUBMIT	TALS & APPROVALS															
1954 NP.Bldg Approve door details 24 06APR05A 30AUG06 80 80 9 -71 -90 <td>ABWF &</td> <td>Builders Works</td> <td></td>	ABWF &	Builders Works															
	1954	NP.Bldg Approve door details	24	06APR05A	30AUG06	80	80	9	-71	-90							

Act.	Activity	Orig	Early	Early	%	Target 1	Rom	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ID	Description	Dur		Finish	Compl.	% Comp		Float		33	34	35	36	37 5 2 9 16 23 3	38	39
PROCU	REMENT - MATERIAL					·				1.2 1.0 20						
ABWF V																
1967	NP.Bldg Procure aluminium composite cladding	180	19APR05A	23SEP06	84	50	30	-80	-98							
1981	NP.Bldg Procure expanded metal cladding	180	06JUN05A	30AUG06	50	50	9	-25	-90				-			
2051	NP.Bldg Initial delivery slate cladding	0	21AUG06*		0	0	0	14	-31		Û	\diamond				
2052	NP.Bldg Initial delivery balust & metal works	0	21AUG06*		0	0	0	26	-43			\diamond				
2053	NP.Bldg Initial delivery fall arrest roof sys	0	21AUG06*		0	0	0	26	-43	Ĵ Į		\diamond				
2039	NP.Bldg Initial delivery of doors	0	06OCT06*		0	0	0	-71	-82	Û				•		
2066	NP.Bldg Initial deliv expanded metal cladding	0	06OCT06*		0	0	0	-25	-44	\geq		Û		•		
2050	NP.Bldg Initial deliv alum composite cladding	0	14NOV06*		0	0	0	-80	-62				Û		•	
MAJOR	EQUIPMENT DELIVERY							1	P							
ENT NO	RTH PORTAL BUILDING															
6231	EntNpBldg-Del. FS pumps & tank to G/F	48	06MAR06A	07SEP06	67	50	16	356	-96							
6832	EntNpBldg-Del. MVAC /TVF pneumatic sys to 1/F	48	06APR06A	31AUG06	80	10	10	362	-65	2						
6845	EntNpBldg-Del. ENT Tunnel (Hyd/HR) pumps to G/F	48	02MAY06A	31AUG06	80	0	10	362	-52							
6242	EntNpBldg-Del. building vent. fans	48	10MAY06A	31AUG06	80	0	10	362	-47							
6327	EntNpBldg-Del. Package AC Units	48	10MAY06A	31AUG06	80	0	10	362	-47							
6229	EntNpBldg-Del. PD pump & tank to G/F	48	15MAY06A	31AUG06	80	0	10	362	-43							
6359	EntNpBldg-Del. AFA & FM200 sys	48	15MAY06A	15SEP06	52	0	23	349	-43							
6288	EntNpBldg-Del. CMCS & ELV equip't	48	01JUN06A	15SEP06	90	0	23	349	-26							
CONSTR	RUCTION															
North Po	ortal Bldg TCSS Access															
T1400	NP Bldg - TCSS Access within entire structure	0		20JUL06A	100	0	0		-49		♦					
North P	ortal Bldg CIVIL & ABWF WORKS															
STRUCT									1							
T1390	NP Bldg - Exhaust Shaft (+110.38mPD)	18	24MAY06A	29AUG06	80	0	8	-74	-72							
S1370	Construct earth mat	36	21AUG06	30SEP06	0	0	36	-44	-82					•		

ID Description Diat Start Final Comp. S. Comp Diat	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL		UG	SEP	OCT	NOV	DEC
AMME Control Control <thcontrol< th=""> <thcontrol< th=""> <thcont< td=""><td>ID</td><td></td><td></td><td></td><td></td><td>Compl.</td><td></td><td></td><td></td><td></td><td>33 12 19 26 3</td><td>34 10 17 24</td><td>4 31 7</td><td>35 14 21 2</td><td>36 8 4 11 18 25</td><td>37 2 9 16 23 3</td><td>38 0 6 13 20 27</td><td>39 7 4 11</td></thcont<></thcontrol<></thcontrol<>	ID					Compl.					33 12 19 26 3	34 10 17 24	4 31 7	35 14 21 2	36 8 4 11 18 25	37 2 9 16 23 3	38 0 6 13 20 27	39 7 4 11
Here UN U	ABWF W	IORKS																
T1500 GF ABWF Initial finishes 18 0MAR0BA 22AUG06 90 28 2 0 -79 T1520 GF ABACeas gmd Floor 0 22AUG06 0 0 0 -79 MB backers T1520 GF ABACeas gmd Floor 0 22AUG06 95 228 5 126 -83 MB backers T1520 GF ABACeas gmd Floor 10 06APP06A 25AUG06 95 28 5 126 -83 NP backers T1520 FA BAVF Initial finishes 12 23CCT0 06NOV6 0 0 12 16 -70 NP backers T1520 FA BAVF Initial finishes 12 24UL064 12SEP06 95 0 1 352 -72 T1230 En NPB - Edt. Wall Waterproof Render 18 17UL09A 05SEP06 0 0 14 -31 T1720 En NPB - Edt. Wall Waterproof Render 18 17UL09A 05SEP06 0 0 35 14 -31 T1730 En NPB - Edt. Wall Waterproof Render 18 17USEP06 100 18 24 -72 T1730 En NPB - Edtennal Wall Paning	T1360	BB Access 4th Floor/Roof - critical rooms	0		31JUL06A	100	0	0		-42	1	>						
T1500 GF ABWF Initial finishes 18 0MAR0BA 22AUG06 90 28 2 0 -79 T1520 GF ABACeas gmd Floor 0 22AUG06 0 0 0 -79 MB backers T1520 GF ABACeas gmd Floor 0 22AUG06 95 228 5 126 -83 MB backers T1520 GF ABACeas gmd Floor 10 06APP06A 25AUG06 95 28 5 126 -83 NP backers T1520 FA BAVF Initial finishes 12 23CCT0 06NOV6 0 0 12 16 -70 NP backers T1520 FA BAVF Initial finishes 12 24UL064 12SEP06 95 0 1 352 -72 T1230 En NPB - Edt. Wall Waterproof Render 18 17UL09A 05SEP06 0 0 14 -31 T1720 En NPB - Edt. Wall Waterproof Render 18 17UL09A 05SEP06 0 0 35 14 -31 T1730 En NPB - Edt. Wall Waterproof Render 18 17USEP06 100 18 24 -72 T1730 En NPB - Edtennal Wall Paning	Internal Wo	 arks GE	1 1			1 1								-				
Intable Integer letteret View Junction Image: View letteret View View <td></td> <td></td> <td>18</td> <td>04MAR06A</td> <td>22AUG06</td> <td>90</td> <td>28</td> <td>2</td> <td>0</td> <td>-79</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			18	04MAR06A	22AUG06	90	28	2	0	-79								
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Tribol 2F ABWF Initial Finishes 18 06APROGA 25AUGOS 95 28 5 126	T1320	GF BB Access grnd Floor	0		22AUG06*	0	0	0	0	-79				•				
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IT 1880 3F - paint touch up & doors 12 230CT06 06NOV06 0 0 12 16 -76 NP Bustery-termed Weaks T1520 F ABW Finitial finishes 12 24ULIGA6 12SEP06 95 0 1 352 -772 T1520 F ABW Finitial finishes 12 24ULIGA6 12SEP06 0 0 18 344 -772 T17200 Finitial finishes 12 24ULIGA6 0SSEP06 0 0 18 344 -772 T1740 Ent NPB - Ext. Wall Waterproof Render 18 17ULOGA 0SSEP06 0 0 36 14 -78 T1740 Ent NPB - Install Aluminum Jouvres & doors 9 14AUG06 0SSEP06 0 0 36 14 -31 T1760 Ent NPB - State cladding above NB/SB carriageway 36 21AUG06 12SEP06 0 0 36 14 -31 T1760 Ent NPB - Kool Waterproofing & Test 12 30AUG06 12SEP06 0 0 36 25 -44 T1770 Ent NPB - Stak Kool	T1600	2F ABWF Initial Finishes	18	06APR06A	25AUG06	95	28	5	-126	-83								
Trick Deside	NP Bldg In	ternal Works 3/F																
T1620 4F ABWF Initial finishes 12 24JUL06A 12SEP06 95 0 1 352 -72 T2430 Installation of Crane beam to underside of 5FL 18 21AUG06 03SEP06 0 0 18 -34 -72 NP Bitg: Roofing & External Fances. 12 14JUL06A 0SSEP06 20 0 14 -28 -78 T1740 Ent NPB - Est. Wall Waterprool Render 18 17JUL06A 0SSEP06 0 0 36 14 -31 T1740 Ent NPB - Isstall Aluminum louvres & doors 90 14AUG06A 15NOV06 20 0 12 -74 -46 T1780 Ent NPB - Roof Waterproofing & Test 12 30AUG06 12SEP06 0 0 12 -24 -72 T1700 Ent NPB - State Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 36 -25 -44 T1700 Ent NPB - GMS,S/S Channel, Balustrade & Railing 24 25OCT06 2NOV06 0 60 -80 -62 ENT North Portal Bidg, (Eff) - E M Woka 11MOV06 <td< td=""><td>T1880</td><td>3F - paint touch up & doors</td><td>12</td><td>23OCT06</td><td>06NOV06</td><td>0</td><td>0</td><td>12</td><td>16</td><td>-76</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	T1880	3F - paint touch up & doors	12	23OCT06	06NOV06	0	0	12	16	-76		-						
T2430 Installation of Crane beam to underside of 5FL 18 21AUGo6 09SEP06 0 18 -34 -72 PP Big: Rodring A Enternal Facate	NP Building	g - Internal Works	1						1	1								
NP Hig. No.	T1620	4F ABWF initial finishes	12	24JUL06A	12SEP06	95	0	1	352	-72				T				
T2238 Ent NPB - Ext. Wall Waterproof Render 18 17.JUL06A 05SEP06 20 0 14 -28 -78 T1740 Ent NPB - Install Aluminum louvres & doors 90 14AUG06A 15N0V06 20 0 72 74 -46 T1780 Ent NPB - Slate cladding above NB/SB carriageway 36 21AUG06 30SEP06 0 0 36 14 -31 T1800 Ent NPB - Slate cladding above NB/SB carriageway 36 21AUG06 30SEP06 0 0 36 14 -31 T1800 Ent NPB - Slate cladding above NB/SB carriageway 34 13SEP06 24OCT06 0 0 34 -28 -78 T1700 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 18 -24 -72 T1770 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 25OCT06 22NOV06 0 0 36 -25 -44 T1790 Ent NPB - Alum. Comp Panel Cladding to Ext Walls 60 14NOV6 25JNO7 0 0 60 -52 <td< td=""><td>T2430</td><td>Installation of Crane beam to underside of 5FL</td><td>18</td><td>21AUG06</td><td>09SEP06</td><td>0</td><td>0</td><td>18</td><td>-34</td><td>-72</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	T2430	Installation of Crane beam to underside of 5FL	18	21AUG06	09SEP06	0	0	18	-34	-72								
T2238 Ent NPB - Ext. Wall Waterproof Render 18 17.JUL06A 05SEP06 20 0 14 -28 -78 T1740 Ent NPB - Install Aluminum louvres & doors 90 14AUG06A 15N0V06 20 0 72 74 -46 T1780 Ent NPB - Slate cladding above NB/SB carriageway 36 21AUG06 30SEP06 0 0 36 14 -31 T1800 Ent NPB - Slate cladding above NB/SB carriageway 36 21AUG06 30SEP06 0 0 36 14 -31 T1800 Ent NPB - Slate cladding above NB/SB carriageway 34 13SEP06 24OCT06 0 0 34 -28 -78 T1700 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 18 -24 -72 T1770 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 25OCT06 22NOV06 0 0 36 -25 -44 T1790 Ent NPB - Alum. Comp Panel Cladding to Ext Walls 60 14NOV6 25JNO7 0 0 60 -52 <td< td=""><td>NP Bldg - I</td><td>I Roofing & External Facade</td><td>1 1</td><td></td><td></td><td>1 1</td><td></td><td></td><td>I</td><td>I</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	NP Bldg - I	I Roofing & External Facade	1 1			1 1			I	I								
T1780 Ent NPB - Slate cladding above NB/SB carriageway 36 21AUG06 30SEP06 0 0 36 14 -31 T1800 Ent NPB - Roof Waterproofing & Test 12 30AUG06 12SEP06 0 0 12 24 -72 T1700 Ent NPB - External Wall Painting 34 13SEP06 24OCT06 0 0 34 -28 -78 T1700 Ent NPB - State Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 36 24 -72 T1700 Ent NPB - State Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 36 25 -44 T1700 Ent NPB - GMS,S/S Channel, Balustrade & Railing 24 25OCT06 22NOV06 0 0 24 -82 -76 T1750 Ent NPB - Alum. Comp Panel Cladding to Ext Walls 60 14NOV06 25JAN07 0 06 -62 -62 ENT North Portal Bldg (GF) - E & M Woks T T1720 It North Portal Bldg (GF) - E & M Woks -79 -79 -79 ENT North Portal Bldg (HF/Lw Plen) - E & M Woks			18	17JUL06A	05SEP06	20	0	14	-28	-78				+				
T1800 Ent NPB - Roof Waterproofing & Test 12 30AUG06 12SEP06 0 0 12 -24 -72 T1730 Ent NPB - External Wall Painting 34 13SEP06 24OCT06 0 0 34 -28 -78 T1700 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 18 -24 -72 T1700 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 18 -24 -72 T1700 Ent NPB - Sthk Roof Screed & Roofing Tiles 18 27SEP06 19OCT06 0 0 36 -25 -44 T1700 Ent NPB - GMS,S/S Channel, Balustrade & Railling 24 25OCT06 22NOV06 0 0 60 -80 -62 ENT North Portal Bidg BUILDING SERVICES ENT North Portal Bidg. (G/F): E & M Work 18 23LUG06 12SEP06 0 0 18 0 -79 ENT North Portal Bidg (G/F): E & M Work 18 23LUG06 12SEP06 0 0 18 0 -79 ENT	T1740	Ent NPB - Install Aluminum louvres & doors	90	14AUG06A	15NOV06	20	0	72	-74	-46				ŧ				
Trian Trian <th< td=""><td>T1780</td><td>Ent NPB - Slate cladding above NB/SB carriageway</td><td>36</td><td>21AUG06</td><td>30SEP06</td><td>0</td><td>0</td><td>36</td><td>14</td><td>-31</td><td></td><td>>_</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	T1780	Ent NPB - Slate cladding above NB/SB carriageway	36	21AUG06	30SEP06	0	0	36	14	-31		>_						
Image: Constraint of the second se	T1800	Ent NPB - Roof Waterproofing & Test	12	30AUG06	12SEP06	0	0	12	-24	-72								
Image: Control of the stand of the stan	T1730	Ent NPB - External Wall Painting	34	13SEP06	24OCT06	0	0	34	-28	-78								
Image: Construction of the construc	T1700	Ent NPB - 25thk Roof Screed & Roofing Tiles	18	27SEP06	19OCT06	0	0	18	-24	-72								
T1750 Ent NPB - Alum. Comp Panel Cladding to Ext Walls 60 14NOV06 25JAN07 0 00 60 -62 60 -79 <td>T1770</td> <td>Ent NPB - Expanded metal cladding to Ext Walls</td> <td>36</td> <td>06OCT06</td> <td>18NOV06</td> <td>0</td> <td>0</td> <td>36</td> <td>-25</td> <td>-44</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	T1770	Ent NPB - Expanded metal cladding to Ext Walls	36	06OCT06	18NOV06	0	0	36	-25	-44								
ENT North Portal Bldg BUILDING SERVICES Image: Construct of the second s	T1790	Ent NPB - GMS,S/S Channel, Balustrade & Railing	24	25OCT06	22NOV06	0	0	24	-28	-76		t		4				
E & M WORKS ENT North Portal Bldg (G/F) - E & M Works T1720 Installation of FS Pumps & Pipework at GF 18 23AUG06 12SEP06 0 0 18 0 -79 ENT North Portal Bldg (1F/Lwr Plen) - E & M Work 12 01JUN06A 31JUL06A 100 0 0 - <td< td=""><td>T1750</td><td>Ent NPB - Alum. Comp Panel Cladding to Ext Walls</td><td>60</td><td>14NOV06</td><td>25JAN07</td><td>0</td><td>0</td><td>60</td><td>-80</td><td>-62</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	T1750	Ent NPB - Alum. Comp Panel Cladding to Ext Walls	60	14NOV06	25JAN07	0	0	60	-80	-62								
ENT North Portal Bldg (G/F) - E & M Works Image: Constraint of the set of t	ENT No	rth Portal Bldg BUILDING SERVICES							1	·								
T1720 Installation of FS Pumps & Pipework at GF 18 23AUG06 12SEP06 0 0 18 0 -79 ENT North Portal Bldg (1F/Lwr Plen) - E & M Work T1540 NP Bldg - OHVD Slab NB - BB 1st fix 12 01JUN06A 31JUL06A 100 0 0 -61																		
ENT North Portal Bldg (1F/Lwr Plen) - E & M Work T1540 NP Bldg - OHVD Slab NB - BB 1st fix 12 01JUN06A 31JUL06A 100 0 0 -61						1 1								_				
T1540 NP Bldg - OHVD Slab NB - BB 1st fix 12 01JUN06A 31JUL06A 100 0 -61	T1720	Installation of FS Pumps & Pipework at GF	18	23AUG06	12SEP06	0	0	18	0	-79								
						· · ·												
T1570 NP Bldg - OHVD Slab SB - BB 1st Fix 12 01JUN06A 31JUL06A 100 0 0 -61	T1540	NP Bldg - OHVD Slab NB - BB 1st fix	12	01JUN06A	31JUL06A	100	0	0		-61								
	T1570	NP Bldg - OHVD Slab SB - BB 1st Fix	12	01JUN06A	31JUL06A	100	0	0		-61								

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
ID	Description	Dur	Start	Finish	Compl.			Float		33	34	35	36 28 4 11 18 24	37 5 2 9 16 23 3	38	39
ENT North	Portal Bldg (1F/Lwr Plen) - E & M Work				1 1			1	,, , ,	12 13 20						- F - 11
T1810	Installation of FM200 at 1F	12	21AUG06	02SEP06	0	0	12	-14	-78							
	Portal Bldg (2F/Silencer) - E & M Work	00		4005000	00		01	440	07							
EM2930	BS Works for TVS Plenums	30	17JUN06A	13SEP06	30	0	21	-113	-67							
EM2580	BS Works for HV Sw + Tx	12	20JUN06A	24AUG06	70	0	4	-126	-70							
		12	203011007	240000	10	0	-	-120	-70							
EM2700	BS Works for LV Sw	12	20JUN06A	24AUG06	70	0	4	-105	-70							
									-							
EM2860	E&M Works in Corridors 2/F	24	17JUL06A	22AUG06	90	0	2	-59	-56							
EM2800	BS Works for Genset	18	01AUG06A	07SEP06	10	0	16	-96	-76							
EM2900	E&M Works in Risers	48	10AUG06A	05SEP06	90	0	5	-59	-18							
FMOCOO	HV Sw + Tx Installation	30	25 4 1 0 0 0	28SEP06	0	0	20	100	-7	-						
EIVI2600	HV SW + 1X Installation	30	25AUG06	285EP06	0	0	30	-126	-7							
EM2720	LV Sw Installation	30	25AUG06	28SEP06	0	0	30	-105	-70							
		50	2070000	2001100	Ū	0	50	-105	-70							
ENT North	Portal Bldg (3F/ Fan Rm) - E & M Works	1	1				1	1								
EM2640	BS Works for MCC, UPS, LCC	12	20JUN06A	24AUG06	70	0	4	-80	-68			╡				
EM2880	E&M Works in Corridors 3/F	24	17JUL06A	22AUG06	90	0	2	-59	-54	2						
										-						
EM2760	BS Works for 110V Charger Rm	12	01AUG06A	01SEP06	10	0	11	-85	-75							
E 10000		00	04411000	0005000	0			00	70	-						
EM2660	MCC, UPS, LCC Installation	30	21AUG06	23SEP06	0	0	30	-80	-70							
EM2800	Compressor Room Installation	18	21AUG06	09SEP06	0	0	18	-20	-76	-						
		10	2170000	0301100	U	0	10	-20	-70	•						
EM2820	Genset Installation	36	08SEP06	21OCT06	0	0	36	-96	-76							
					-	-										
EM2920	Termination of overall Elect HV & LV Sys	30	07NOV06	11DEC06	0	0	30	-96	-76	1						
	Portal Bidg (4F/Upr Plen) - E & M Work								-	-						
EM2940	TVS Installation	100	01AUG06A	30DEC06	9	0	91	-113	-67							
Tosting on	d Commissioning															
	110V Charger Rm Installation + T&C	12	02SEP06	15SEP06	0	0	12	-85	-75	-						
		2	32021 00	10021 00		0	12	00								
EM2680	MCC, LCC Termination + T&C	30	25SEP06	01NOV06	0	0	30	-80	-70							
						Ū			-							
EM2620	HV Sw + Tx Termination + T&C	30	29SEP06	06NOV06	0	0	30	-96	-7	1						
EM2740	LV Sw Termination + T&C	30	29SEP06	06NOV06	0	0	30	-84	-70							
 										-					_	
EM2840	Genset Termination + T&C	12	23OCT06	06NOV06	0	0	12	-96	-76							

Act.	Activity	Orig		Early	%	Target 1		Total		JUN 33	JUL 34	AU 35	;	SEP 36	OCT 37	NOV 38	DEC 39
		Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	,3 ₁ 10 17 24	31 7 14	21 28	4 11 18 25	2 9 16 23 3	0 6 13 20 2	7 4 11
	LAZA & ANCILLIARY STRUCTURES																
	TALS & APPROVALS																
	BW SUBMITTALS TP/FB - Approve footbridge details	24	28JUL05A	02SEP06	50	50	12	360	-90								
			20002007	0202.00													
Design	& Engineering - Temporary Works																
50.030.0	-																
1244	Design/ICE Check Tool Booth Canopy	24	21AUG06	16SEP06	0	0	24	-93	-90								
1341	Eng Approve Dsg Tool Booth Canopy	12	18SEP06	30SEP06	0	0	12	-93	-90						•		
1358	Issue Constr Dwgs Tool Booth Canopy	0	12OCT06	11OCT06	0	0	0	-93	-90	-					-		
Procure	ment - Major Material				· · ·			·									
	Order/Fabricate/Deliver Tool Booth Canopy	90	01DEC05A	13OCT06	50	11	45	-95	-55								
	za TP-Proc & Manuf. MVAC Package AC Units	120		24 4110 00	00	50	10	2	40			<u> </u>		I			
7 548	TP-Proc & Manul. MVAC Package AC Units	120	11JAN06A	31AUG06	90	50	10	-2	-40					I			
MAJOR	EQUIPMENT DELIVERY							1	•								
TOLL PI	AZA																
7549	TP-Del. Package AC Units	48	01SEP06	28OCT06	0	0	48	-2	-40								
Constru	ction Works																
Toll Plaz	a - TCSS Access																
K1162	Toll Plaza - TCSS Access (East Side)	0		17OCT06	0	0	0	-90	-74		Ţ				•		
K1272	Toll Plaza - TCSS Access (West Side)	0		17OCT06	0	0	0	-52	-34					Û	•		
	AZA EAST SIDE																
	Provision of micro-satelite-office at East Loop	186	13MAR06A	01NOV06	35	17	60	-16	-20								
	· .													_			
K1232	Carriageway Drainage Prior to TCSS	36	27APR06A	07SEP06	55	10	16	-90	-74	-							
K1222	Main carriageway Ducting & Drawpits	54	02MAY06A	20OCT06	10	0	51	-29	-56								
S1170	FW Watermains Centre to Admin Bldg & FH12, FH13	36	02MAY06A	15SEP06	80	0	23	-29	-53								
K1212	Main Carid'way Drain (D3 & D4) - after stockpile	57	20MAY06A	15SEP06	60	0		-29	-56								
K1262	HML Bases (2no. Loop rd, Admin bldg)	12	24MAY06A	14AUG06A	100	0	0		-73								
K1182	East Loop Road - Drainage	28	21AUG06	21SEP06	0	0	28	16	-90								

Intel Description Dur Start Finith Compl. N. Compl. Part Head Part Head	Act.	Activity	Oriq	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
K1282 EAM / Lighting works 24 21 ALGOB 168EP08 0 0 24 32 -76 S1180 Installation of Ducing and Drawpils for TCSS 32 08EP06 170CT06 0 0 32 -90 -74 K1242 Main carriageway - East Subbase and kerbs 53 168EP06 20N0V6 0 0 53 -29 -40 K1242 Main carriageway - East Subbase and kerbs 53 05EP06 07DEC06 0 0 54 -29 -40 K1420 Road Pavement Surfacing (Fiex & Rigic) 58 305EP06 07DEC06 0 0 51 -9 -84 S1190 HGC Ducting & Drawpils 24 0MM/YOBA 200CT06 20 0 51 -9 -84 K1121 CSJV Complete Drainage & Vacate part 24 31DEC06A 2AU066 90 60 -90 -97 K1191 CSJV Complete Drainage & Vacate part 24 2DMAR06A 30EP06 75 20 -90 -87 K1191 Drawpits & Ducling (Inci TCSS) 42 2MM/YOB	ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish			<u>35</u> 31 ₁ 7 ₁ 14 21				39 7 4 11
N1100 Lincola Look of 0 Lincola	TOLL PI	LAZA EAST SIDE															
K1224 Main carriageway - East Subbase and korbs 53 158EP6 20N0V06 0 53 -29 40 S1420 Road Pavement Suffacing (Flick & Right) 56 30SEP06 07DE C6 0 0 56 -29 40 K1122 East Loop Road - Formation & Roadworks 36 02N0V06 10E C6 0 0 56 -29 -66 TOLL PLAZA WEST SIDE			24	21AUG06	16SEP06	0	C	24	32	-78							
S1420 Road Pavement Surfacing (Flox & Rigid) 56 305EP06 07DEC05 0 0 56 -29 -40 K1122 East Loop Road - Formation & Roadworks 36 02NOV06 13DEC06 0 0 56 -29 -40 S1130 HGC Ducting & Drawpits 24 06MAY06A 20OCT06 20 0 51 -29 -56 TOLL PLAZA WEST SIDE	S1160	Installation of Ducting and Drawpits for TCSS	32	08SEP06	17OCT06	0	C	32	-90	-74							
K1192 East Loop Road - Formation & Roadworks 36 0 NOV06 13DEC06 0 36 -16 -20 S1190 HGC Ducling & Drawpits 24 0 MAYGA 20CT06 20 0 51 29 -56 FOLL PLAX WEST SIDE Emoty K1161 CS/V, Remove TAR1, drainage, formation (RE Wall) 56 245EP05A 065EP06 60 60 15 81 -85 K11231 CS/V Complete Drainage & Vacate part 24 31DEC05A 28AUG06 90 60 6 90 -87 K1181 Main Carriageway- West side drainage - NP-FB 42 20MAR06A 305EP06 75 25 15 90 -34 K1191 Drawpits & Ducling (ind TCSS) 42 20MAR06A 305EP06 75 25 15 50 -34 K1201 West Loop Drainage Works 38 15JUN06A 305EP06 75 25 15 50 -37 S1510 PW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 170CT06 75 51 51 50 -34 <			53	16SEP06	20NOV06	0	C	53	-29	-40							
S1190 HGC Ducting & Drawpits 24 0BMAY06A 200CT06 20 0 51 29 -56 TOLL PLAZA WEST SIDE K1181 CSJV, Remove TARH, drainage, formation (RE Wall) 56 24SEP05A 0SEP06 60 61 51 81 -56 K1231 CSJV Complete Drainage & Vacate part 24 31DEC05A 26AUG06 90 66 6 90 -87 K1181 Kain Carriageway - West side drainage - NP-FB 42 20MAR06A 30SEP06 75 15 90 -34 K1120 West Loop Drainage Works 38 15JUN06A 30SEP06 75 25 15 67 -87 K1121 Main Carriageway - West side drainage - FB-SHT 45 13JUN06A 20SEP06 75 0 15 81 -52 S1510 FW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 170CT06 8 0 21 90 -67 K1121 E&M / Lighting works 24 21AUG06 20DEC06 0 0 36 67 -87	S1420	Road Pavement Surfacing (Flex & Rigid)	56	30SEP06	07DEC06	0	C	56	-29	-40							
OLL PLAZA WEST SIDE K1161 CSJV, Remove TAR1, drainage, formation (RE Wall) 56 24SEP05A 06SEP06 60 60 15 81 -85 K1231 CSJV Complete Drainage & Vacate part 24 31DEC05A 26AUG06 90 60 6 -90 -87 K1181 Main Carriageway - West side drainage - NP-FB 42 20MAR06A 30SEP06 75 5 15 -90 -87 K1191 Drawpits & Ducting (Incl TCSS) 42 02MAY06A 170CT06 75 5 15 -67 487 K1201 West Loop Drainage Works 38 15JUN06A 20SEP06 75 0 15 -81 -52 S1510 FW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 170CT06 8 0 21 +90 -67 K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 36 47 -87 K1211 E&M / Lighting works 24 180CT06 20DEC06 0 64 -90 -34 S1310 Road Pavement Su	K1192	East Loop Road - Formation & Roadworks	36	02NOV06	13DEC06	0	C	36	-16	-20							
K1161 CSJV, Remove TAR1, drainage, formation (RE Wall) 56 24SEP05A 06SEP06 60 60 15 -81 -86 K1231 CSJV Complete Drainage & Vacate part 24 31DEC05A 26AUG06 90 60 6 -90 -87 K1181 Main Carriageway - West side drainage - NP-FB 42 20MAR06A 30SEP06 95 15 20 -90 -87 K1191 Drawpits & Ducting (ind TCSS) 42 02MAY06A 170CT06 75 5 15 -90 -34 K1201 West Loop Drainage Works 38 15JUN06A 30SEP06 75 25 15 -67 -87 K12141 Main Carriageway - West side drainage - FB-SHT 45 13JUN06A 20SEP06 75 0 15 -81 -52 S1510 FW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 170CT06 8 0 21 -90 -67 K1211 E&M / Lighting works 36 030CT06 15N0V06 0 0 36 -67 -87 K1121 E&	S1190	HGC Ducting & Drawpits	24	08MAY06A	20OCT06	20	C	51	-29	-56							
K1231 CSJV Complete Drainage & Vacate part 24 31DEC05A 26AUG06 90 60 6 -90 -87 K1131 Main Carriageway - West side drainage - NP-FB 42 20MAR06A 30SEP06 95 15 20 -90 -87 K1191 Drawpits & Ducting (incl TCSS) 42 02MAY06A 17OCT06 75 5 15 -90 -34 K1201 West Loop Drainage Works 38 15JUN06A 30SEP06 75 25 15 -67 -87 K1241 Main Carriageway - West side drainage - FB-SHT 45 13JUN06A 20SEP06 75 0 15 -81 -52 S1510 FW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 17OCT06 8 0 21 -90 -67 K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 24 -67 -87 K1211 E&M / Lighting works 36 03OCT06 15NOV06 0 0 54 -90 -34 K1221 Main Carriageway - West Subbase &	TOLL PI	LAZA WEST SIDE															
K1181 Main Carriageway - West side drainage - NP-FB 42 20MAR06A 30SEP06 95 15 20 -90 -87 K1191 Drawpits & Ducting (Incl TCSS) 42 02MAY06A 170CT06 75 5 15 -90 -34 K1201 West Loop Drainage Works 38 15JUN06A 30SEP06 75 25 15 -67 -87 K1241 Main Carriageway - West side drainage - FB-SHT 45 19JUN06A 20SEP06 75 0 15 -81 -52 S1510 FW Waterminam Centre to Admin Bldg & FH12, FH13 24 10JUL06A 17OCT06 8 0 21 -90 -67 K1211 E&M / Lighting works 24 21AUG66 20DEC06 0 0 24 -67 -87 K1211 E&M / Lighting works 36 03OCT06 15NOV06 0 0 36 -67 -87 K1211 Main Carriageway - West Subbase & kerbs 54 180CT06 20DEC06 0 0 54 -90 -34 S1310 Road Pavement Surfacing	K1161	CSJV, Remove TAR1, drainage, formation (RE Wall)	56	24SEP05A	06SEP06	60	60	15	-81	-85							
K1191 Drawpits & Ducting (incl TCSS) 42 02MAY06A 170CT06 75 55 15 -90 34 K1201 West Loop Drainage Works 38 15JUN06A 30SEP06 75 25 15 -87 K1241 Main Carriageway - West side drainage - FB-SHT 45 19JUN06A 20SEP06 75 0 15 -81 -52 S1510 FW Waterminam Centre to Admin Bldg & FH12, FH13 24 10JUL06A 170CT06 8 0 21 -90 -67 K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 24 46 -34 K1171 West Loop road - Roadworks 36 03OCT06 15NOV06 0 0 36 -67 -87 K1221 Main Carriageway - West Subbase & kerbs 54 180CT06 20DEC06 0 0 54 -90 -34 S1310 Road Pavement Surfacing 57 16NOV06 24JAN07 0 0 57 -67 -45 S1310 Road Pavement Surfacing 57 16NOV06	K1231	CSJV Complete Drainage & Vacate part	24	31DEC05A	26AUG06	90	60	6	-90	-87							
K1201 West Loop Drainage Works 38 15JUN06A 30SEP06 75 25 15 67 -87 K1201 Main Carriageway - West side drainage - FB-SHT 45 19JUN06A 20SEP06 75 0 15 81 -52 S1510 FW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 17OCT06 8 0 21 90 -67 K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 36 -67 -87 K1171 West Loop road - Roadworks 36 03OCT06 15NOV06 0 0 36 -67 -87 K1121 Main Carriageway - West Subbase & kerbs 54 180CT06 20DEC06 0 0 54 -90 -34 S1310 Road Pavement Surfacing 57 16NOV06 24JAN07 0 0 57 -67 -45 S1310 Road Pavement Surfacing 18 28FE806A 29AUG06 90 -90 -87 -90 S1415 SHT SPB - Drainage & Ducting 18 28FE806A	K1181	Main Carriageway - West side drainage - NP-FB	42	20MAR06A	30SEP06	95	15	20	-90	-87							
K1241 Main Carriageway - West side drainage - FB-SHT 45 19JUN06A 20SEP06 75 0 15 -81 -52 S1510 FW Waterminam Centre to Admin Bidg & FH12, FH13 24 10JUL06A 170CT06 8 0 21 -90 -67 K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 24 -46 -34 K1171 West Loop road - Roadworks 36 03OCT06 15NOV06 0 0 36 -67 -87 K1221 Main Carriageway - West Subbase & kerbs 54 18OCT06 20DEC06 0 0 54 -90 -34 S1310 Road Pavement Surfacing 57 16NOV06 24JAN07 0 05 76 -45 TOLL PLAZA - works adjacent to building 18 28FEB06A 29AUG06 90 90 8 72 -90 S1415 SHT SPB - Drainage & Ducting 18 01APR06A 14SEP06 40 25 22 28 -95 S1380 ENT NPB - Drainage & Ducting 18 01APR06A	K1191	Drawpits & Ducting (incl TCSS)	42	02MAY06A	17OCT06	75	5	15	-90	-34							
Image: Normal Centre to Admin Bidg & FH12, FH13 24 10JUL06A 17OCT06 8 0 21 90 -67 K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 24 46 -34 K1171 West Loop road - Roadworks 36 03OCT06 15NOV06 0 0 36 -67 -87 K1221 Main Carriageway - West Subbase & kerbs 54 18OCT06 20DEC06 0 0 54 -90 -34 S1310 Road Pavement Surfacing 57 16NOV06 24JAN07 0 0 57 -67 -45 S1415 SHT SPB - Drainage & Ducting 18 28FEB06A 29AUG06 90 90 8 72 -90 S1415 SHT SPB - Drainage & ducting 36 07MAR06A 14SEP06 40 25 22 28 -95 S1380 ENT NPB - Drainage & Ducting 18 01APR06A 24AUG06 80 25 4 76 -86	K1201	West Loop Drainage Works	38	15JUN06A	30SEP06	75	25	15	-67	-87							
K1211 E&M / Lighting works 24 21AUG06 20DEC06 0 0 24 -46 -34 K1171 West Loop road - Roadworks 36 03OCT06 15NOV06 0 0 36 -67 -87 K1221 Main Carriageway - West Subbase & kerbs 54 18OCT06 15NOV06 0 0 54 -90 -34 S1310 Road Pavement Surfacing 57 16NOV06 24,JAN07 0 0 57 -67 -45 S1415 SHT SPB - Drainage & Ducting 18 28FEB06A 29AUG06 90 90 8 72 -90 S1427 Admin Blg & Wshop - Drainage & Ducting 18 01APR06A 14SEP06 40 25 22 28 -95 S1380 ENT NPB - Drainage & Ducting 18 01APR06A 24AUG06 80 25 4 76 -86	K1241	Main Carriageway - West side drainage - FB-SHT	45	19JUN06A	20SEP06	75	C	15	-81	-52							
K1171 West Loop road - Roadworks 36 03OCT06 15NOV06 0 0 36 -67 -87 K1221 Main Carriageway - West Subbase & kerbs 54 18OCT06 20DEC06 0 0 54 -90 -34 S1310 Road Pavement Surfacing 57 16NOV06 24JAN07 0 0 57 -67 -45 TOLL PLAZA - works adjacent to building 57 16NOV06 29AUG06 90 90 8 72 -90 S1415 SHT SPB - Drainage & Ducting 18 28FEB06A 29AUG06 90 90 8 72 -90 S1427 Admin Blg & Wshop - Drainage & ducting 18 01APR06A 14SEP06 40 225 22 28 -95 S1380 ENT NPB - Drainage & Ducting 18 01APR06A 24AUG06 80 225 4 76 -86	S1510	FW Waterminam Centre to Admin Bldg & FH12, FH13	24	10JUL06A	17OCT06	8	C	21	-90	-67							
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S1415SHT SPB - Drainage & Ducting1828FEB06A29AUG069090872-90S1427Admin Blg & Wshop - Drainage & ducting3607MAR06A14SEP0640252228-95S1380ENT NPB - Drainage & Ducting1801APR06A24AUG068025476-86	S1310	Road Pavement Surfacing	57	16NOV06	24JAN07	0	C	57	-67	-45							
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			36	07MAR06A	14SEP06	40	25	22	28	-95							
S1390 ENT NPB - HML Base 8 08MAY06A 31JUL06A 100 0 0 -59	S1380	ENT NPB - Drainage & Ducting	18	01APR06A	24AUG06	80	25	4	76	-86							
	S1390	ENT NPB - HML Base	8	08MAY06A	31JUL06A	100	C	0		-59							
S1416 SHT SPB - HML Base 8 20JUL06A 01AUG06A 100 0 -58	S1416	SHT SPB - HML Base	8	20JUL06A	01AUG06A	100	C	0		-58							

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TOLL PLAZA - works adjacent to building	ID	Description	Dur		Finish	Compl.	% Comp	Dur	Float	Early Finish	33 12 19 26	34 3 10 17 24	35 31 7 14 2			37 2 9 16 23 3	38 0 6 13 20 2	39 7 4 11
SH147 SH15 SPB - Keths & Rwks & misc timahes 12 21.04G66 QSEP06 0 0 12 68 -00 SH440 Install Earth Mat for Admin Bidg & SHT NP Bidg 56 21.04G66 30SEP06 0 0 36 44 -90 SH437 Admin Big & Wahop - Kerbs, Rwks & misc finishes 0 21.04G66 30SEP06 0 0 30 1 -85 TOLL PLAZA COLLECTOR'S SUBWAY MW	TOLL P	LAZA - works adjacent to building																
91400 Install Earth Mat for Admin Bidg & SHT NP Bidg 36 21 AUG06 30SEP06 0 0 8 40 -00 91437 Admin Big & Wahep- Verts, Rwks & mice finathes 30 210CT06 25N0V06 0 0 8 40 -00 101471 TP/CS - Internal Finishes Pin A, B & C 24 21 AUG06 158EP05 0 0 24 10 -76 101472 TP/CS - Internal Finishes Pin A, B & C 24 21 AUG06 158EP05 0 0 24 10 -76 101472 TP/CS - Internal Finishes Pin D 12 185EP05 0 0 64 42 10 -76 101472 TP/CS - Internal Finishes 54 11N0V06 640C0T06 0 64 42 42 42 1016 Pizza - Erection of Lit Steel Work 24 20NAY06 0 0 70 42	S1400	ENT NPB - Kerbs & Rwks & misc Finishes	12	21AUG06	02SEP06	0	0	12	68	-82			F					
Str32 Admin Big & Wehop - kertse, Rwiss & mines finishes 30 210CTUB 28NOV06 0 0 0 1 -86 TOLL PLAZA COLLECTOR'S SUBWAY ABWE 1011471 TPCCS - Internal Finishes Pin A, B & C 24 21AUG06 165EP06 0 0 24 10 -76 Str280 1014/2 TPCCS - Internal Finishes Pin D 12 185EP06 305EP06 0 0 12 10 -76 TOLL PLAZA COLLECTOR'S SUBWAY Str280 101 Subway - E&M 54 030CT06 0 0 12 10 -76 TOLL PLAZA FOOTBRIDE Str280 101 Rubay - Exection of Lift Stoal Work 24 204CT06 0 0 54 20 -70 -58 Str280 101 Rubay - Erection of Lift Stoal Work 24 204U006 0 0 54 20 -70 Str280 101 Rubay - Erection of Lift Stoal Work 24 20NU006 0 0 24 20 -70 512 25120	S1417	SHT SPB - Kerbs & Rwks & misc finishes	12	21AUG06	02SEP06	0	0	12	68	-80	-							
TOLL PLAZA COLLECTOR'S SUBWAY ABWF 101471 TPCS - Internal Finishes Pin A, B & C 24 21AUG06 16SEP06 0 0 12 10 -76 101472 TPCS - Internal Finishes Pin D 12 18SEP06 30SEP06 0 0 12 10 -76 101472 TPCS - Internal Finishes Pin D 12 18SEP06 30SCP06 0 0 54 10 -76 TOLL PLAZA FOOTBRIDGE	S1440	Install Earth Mat for Admin Bldg & SHT NP Bldg	36	21AUG06	30SEP06	0	0	36	-44	-90			•		-			
ABMF 101471 TPCS - Internal Finishes Ptn A, B & C 24 21AUG66 16SEP06 0 0 12 10 -76 101471 TPCS - Internal Finishes Ptn D 12 18SEP06 0 0 12 10 -76 S1280 Toll Subway - E&M 54 03COT6 06DEC66 0 0 54 10 -76 ABWF S1280 Toll Subway - E&M 54 03COT6 0CDC706 0 0 54 -10 -76 S1280 Toll Subway - EM S4 03COT6 0 0 54 -10 -76 S1281 Installation of Aluminium Cladding 38 21AUG66 0 0 54 -22 -70 S1280 Toll Plaza - Erection of Lift Steel Work 24 30MAY08A 24AUG66 95 0 4 -20 -70 S1200 Toll Plaza - Footbridge - Lift Installation 72 25AUG66 0 0 24 -20 -70	S1437	Admin Blg & Wshop - kerbs, Rwks & misc finishes	30	21OCT06	25NOV06	0	0	30	-1	-85	-							
101471 TPLCS - Internal Finishes Ptn A, B & C. 24 21AUG06 165EP06 0 0 24 -10 -76 101472 TPLCS - Internal Finishes Ptn D 12 185EP06 305EP06 0 0 12 -10 -76 51280 Toll Subway - E&M 54 030CT06 0EDEC06 0 0 54 -10 -76 TOLL PLAZA FOOTBRIDGE ABWF S1280 Toll Subway - E&M 54 030CT06 0 0 54 -10 -76 S1280 Installation of Aluminium Cladding 38 21AUG06 04OCT06 0 0 38 -70 -82 S1280 Toll Plaza - Erection of Lift Stelel Work 24 30MAY06A 24AUG06 95 0 4 -20 -70 S1400 Toll Plaza - Erection of Lift Installation 72 25AUG06 20NOV06 0 0 72 -20 -70 S1400 Toll Plaza Footbridge - Lift Installation 72 25MOV06 0 0 18 -6 82 S1	TOLL P	LAZA COLLECTOR'S SUBWAY																
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S1290 Toll Subway - E&M 54 030CT06 06DEC06 0 054 -10 -76 TOLL PLAZA FOOTBRIDGE ABWF S1280 Toll Subway - E&M 38 21AUG06 04OCT06 0 0 38 -70 -82 S1280 Toll Fbrdge - Finishes 54 11N0V06 16JAN07 0 0 54 -42 -82 S1340 Toll Fibrdge - Encishes 54 11N0V06 16JAN07 0 0 54 -42 -82 S1340 Toll Plaza - Encition of Lift Steel Work 24 30MAY06A 24AUG06 95 0 4 -20 -70 S1200 Toll Plaza Footbridge - Lift Installation 72 25AUG06 20NOV06 0 0 24 -20 -70 S1450 Toll Plaza Footbridge - Lift Installation 72 25AUG06 0 0 18 -82 -70 -70 S1450 Toll Plaza Footbridge - Lift Installation 72 25AUG06 0 0 18 -82 -70 -70 -70 <	101471	TP/CS - Internal Finishes Ptn A, B & C	24	21AUG06	16SEP06	0	0	24	-10	-76			•					
ABWF S1264 [installation of Aluminium Cladding 38 21AUGo6 04OCTO6 0 0 38 -70 -82 S1265 [installation of Aluminium Cladding 38 21AUGo6 04OCTO6 0 0 38 -70 -82 S1260 [installation of Aluminium Cladding 38 21AUGo6 04OCTO6 0 0 54 -42 -82 S1340 [installation Coll Plaza - Erection of Lift Steel Work 24 30MAY06A 24AUGo6 0 0 72 -20 -70 S1260 [infligate - Lift Installation 72 25AUGo6 20NOV06 0 0 24 -20 -70 S1260 [infligate - Lift Commissioning 24 21NOV06 18BEC06 0 0 30 -42 -82 S1470 E&M Installation at Footbridge 30 65OCT06 0 0 30 -42 -82 S1200 Construct Toll Islands 17 No. 51 21AUGo6 20OCT06 0 0 8 -95 -55 ADMIN BLDG WORKSHOP	101472	TP/CS - Internal Finishes Ptn D	12	18SEP06	30SEP06	0	0	12	-10	-76		-			-			
ABWF S1264 Installation of Aluminium Cladding 38 21AUG06 04OC106 0 08 70 -82 S1250 Toll Fibridge - Finishes 54 11NOV06 16JAN07 0 0 54 42 -82 S1340 Toll Plaza - Erection of Lift Steel Work 24 30MAY06A 24AUG06 95 0 4 -20 -70 E M WORKS S1200 Toll Plaza Footbridge - Lift Installation 72 25AUG06 20NOV06 0 0 72 20 -70 S1450 Toll Plaza Footbridge - Lift Commissioning 24 21NOV06 18DEC06 0 0 24 -20 -70 S1450 Toll Plaza Footbridge - Lift Commissioning 24 21NOV06 18DEC06 0 0 30 -42 -82 S1450 E&M Installation at Footbridge 30 05OCT06 10NOV06 0 0 18 -6 -82 S1210 Construct Toll Islands 17 No. 51 21AUG06 20OCT06 0 51 -75 +82 S1220 Const	S1290	Toll Subway - E&M	54	03OCT06	06DEC06	0	0	54	-10	-76								
S1264 Installation of Aluminium Cladding 38 21AUG66 04OCT06 0 38 -70 -82 S1250 Toll Flordge - Finishes 54 11NOV06 16JAN07 0 05 4 42 -82 S1340 Toll Plaza - Erection of Lift Steel Work 24 30MAY06A 24AUG06 95 0 4 20 -70 E & MWORKS S S1200 Toll Plaza Footbridge - Lift Installation 72 25AUG06 20NOV06 0 0 72 20 -70 S1450 Toll Plaza Footbridge - Lift Installation 72 25AUG06 20NOV06 0 0 72 20 -70 S1450 Toll Plaza Footbridge - Lift Commissioning 24 21NOV06 18BEC06 0 0 42 -82 S1500 E& M Footbridge T&C 18 11NOV06 10EC06 0 0 18 -6 -82 S1200 Construct Toll Islands 17 No. 51 21AUG06 20OCT06 0 0 51 -55 S1200 Construct Toll Islands 17 No. 51 <td< td=""><td>TOLL P</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	TOLL P																	
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E ALWORKS S1200 Toll Plaza Footbridge - Lift Installation 72 25AUG66 20N0V06 0 0 72 -20 -70 S1450 Toll Plaza Footbridge - Lift Installation 72 25AUG66 20N0V06 0 0 0 24 -20 -70 S1450 Toll Plaza Footbridge - Lift Commissioning 24 21N0V06 18BEC06 0 0 24 -20 -70 S1470 E&M Installation at Footbridge 30 05OCT06 10N0V06 0 0 30 42 -82 S1500 E&M Footbridge T&C 18 11NOV06 01DEC06 0 0 18 -6 -82 TOLL PLAZA BOOTHS 51 21AUG06 20OCT06 0 0 51 -75 -82 S1200 Construct Toll Islands 17 No. 51 21AUG06 20OX706 0 0 88 -95 -55 ADMIN.BLDG WORKSHOP S1260 Workshop - Initial Finishes incl block walls 24 03JUL06A 11S	S1250	Toll Ftbrdge - Finishes	54	11NOV06	16JAN07	0	0	54	-42	-82	-					-		
S1200 Toll Plaza Footbridge - Lift Installation 72 25AUG06 20N0V06 0 0 72 -20 -70 S1450 Toll Plaza Footbridge - Lift Commissioning 24 21N0V06 18DEC06 0 0 24 -20 -70 S1450 Toll Plaza Footbridge - Lift Commissioning 24 21N0V06 18DEC06 0 0 24 -20 -70 S1470 E&M Installation at Footbridge 30 05OCT06 10N0V06 0 0 30 -42 -82 S1500 E&M Footbridge T&C 18 11N0V06 01DEC06 0 0 18 -6 -82 S1210 Construct Toll Islands 17 No. 51 21AUG06 20OCT06 0 51 -75 -82 S1220 Construct Toll Booths - 22No. 88 140CT06 29JAN07 0 88 -95 -55 ADMIN.BLDG WORKSHOP S1 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01N0V06	S1340	Toll Plaza - Erection of Lift Steel Work	24 3	30MAY06A	24AUG06	95	0	4	-20	-70								
Image: Construct Toll Slands 17 No. S1 21 AUG06 200 COT6 0 0 24 20 -70 S1470 E&M Installation at Footbridge 30 05OCT06 10NOV06 0 0 24 -82 S1500 E&M Footbridge T&C 18 11NOV06 0 0 18 -6 -82 S1500 E&M Footbridge T&C 18 11NOV06 0 0 18 -6 -82 S1210 Construct Toll Islands 17 No. 51 21AUG06 20OCT06 0 0 51 -75 -82 S1220 Construct Toll Booths - 22No. 58 14OCT06 29JANO7 0 0 88 -95 -55 ADMIN.BLDG WORKSHOP S1260 Workshop - initial Finishes incl block walls 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01NOV06 0 60 20 -48	E&MW	ORKS																
Number of the state of the	S1200	Toll Plaza Footbridge - Lift Installation	72	25AUG06	20NOV06	0	0	72	-20	-70								
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S1210 Construct Toll Islands 17 No. 51 21AUG06 20OCT06 0 0 51 -75 -82 S1220 Construct Toll Booths - 22No. 88 14OCT06 29JAN07 0 0 88 -95 -55 ADMIN.BLDG WORKSHOP S1260 Workshop - initial Finishes incl block walls 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01NOV06 0 06 20 -48	S1500	E&M Footbridge T&C	18	11NOV06	01DEC06	0	0	18	-6	-82	-			-				•
S1220 Construct Toll Booths - 22No. 88 14OCT06 29JAN07 0 0 88 -95 -55 ADMIN.BLDG WORKSHOP S1260 Workshop - initial Finishes incl block walls 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01NOV06 0 00 20 -48	TOLL P	LAZA BOOTHS							ľ									
ADMIN.BLDG WORKSHOP S1260 Workshop - initial Finishes incl block walls 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01NOV06 0 0 60 20 -48	S1210	Construct Toll Islands 17 No.	51	21AUG06	20OCT06	0	0	51	-75	-82			•					
S1260 Workshop - initial Finishes incl block walls 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01NOV06 0 0 60 20 -48	S1220	Construct Toll Booths - 22No.	88	14OCT06	29JAN07	0	0	88	-95	-55								
S1260 Workshop - initial Finishes incl block walls 24 03JUL06A 11SEP06 25 0 19 25 -43 S1350 Workshop - External Finishes 60 21AUG06 01NOV06 0 0 60 20 -48	ADMIN.	BLDG WORKSHOP																
	S1260	Workshop - initial Finishes incl block walls	24 (03JUL06A	11SEP06	25	0	19	25	-43								
S1320 Workshop - Remaining internal Finishes 36 12SEP06 25OCT06 0 0 36 25 -43	S1350	Workshop - External Finishes	60	21AUG06	01NOV06	0	0	60	20	-48								
	S1320	Workshop - Remaining internal Finishes	36	12SEP06	25OCT06	0	0	36	25	-43		_						

Act.	Activity	Orig		Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35	SEI 36	;	ОСТ 37	NOV 38	DEC 39
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	i 3 ∣10 ∣17 ∣24 ;	31 7 14 2'	1 <mark>28 4 11</mark>	18 25 2 9	16 23 3	0 6 13 20 2	7 4 11
	BLDG WORKSHOP Workshop - Install Roller Shutters	12	18SEP06	14OCT06	0	0	12	34	-48								
ADMIN	ISTRATION BUILDING																
	TTALS & APPROVALS																
	MTRL SUBMITTALS																
	Admin.Bldg Prep & submit wood ceiling details	24	20NOV04A	02SEP06	50	50	12	312	-90								
1881	Admin.Bldg Prep & sub GRP water tank details	24	12JAN05A	02SEP06	50	50	12	306	-90								
1887	Admin.Bldg Prep & sub suspend ceiling details	24	12AUG05A	02SEP06	50	50	12	276	-90								
1882	Admin.Bldg Approve GRP water tank details	24	04SEP06	30SEP06	0	0	24	306	-90	-							
1886	Admin.Bldg Approve wood ceiling details	24	04SEP06	30SEP06	0	0	24	312	-90								
1888	Admin.Bldg Approve suspended ceiling details	24	04SEP06	30SEP06	0	0	24	276	-90	_							
E&M EQ	PT. / MTRL. SUBMITTALS																
8248	AdmBldg-Engineer to provide Cater'g equip detail	0	07APR05A		100	100	0		-90								
DESIG	N & ENGINEERING																
TEMPO	RARY WORKS																
1373	Design/ICE Temp False/Formwork Admin Bldg	48	21AUG06	17OCT06	0	0	48	324	-90		-						
PROCU	REMENT - MATERIAL																
ABWF V										_							
	Admin.Bldg Procure wood ceiling	90	19JAN05A	02SEP06	87	87	12	310	-90								
	Admin.Bldg Procure GRP water tank	90	16MAR05A	02SEP06	87	87	12	330	-90								
1905	Admin.Bldg Procure suspended ceiling	120	09MAY05A	30SEP06	70	70	36	276	-90	_							
1910	Admin.Bldg Procure expanded metal cladding	90	06JUN05A	12SEP06	87	87	20	-71	-90								
1938	Admin.Bldg Initial delivery glass canopy	0	21AUG06*		0	0		11	-69								
	Admin.Bldg Initial delivery sheet decking	0	21AUG06		0	0		372	-48			$\left \right\rangle$					
	Admin.Bldg Initial deliv fall arrest roof syst	0	21AUG06*		0	0		32	-43		ı						
2060	Admin.Bldg Initial deliver balust & metal wks	0	21AUG06*		0	0	0	32	-43		ļ	\diamond					
2058	Admin.Bldg Initial delivery wood ceiling	0	04NOV06		0	0	0	310	-90		Û					\diamond	

Act.	Activity	Orig Early	Early	%	Target 1	Rom	Total	Variance	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
ID	Description	Dur Start	Finish	Compl.	% Comp		Float		33	34	35 31 7 14 3	36 21 28 4 11 18 2	37 5 2 9 16 23 3	38 30 6 13 20 3	39
ABWF W	VORKS		1			1			1·= 1·= 1==						
	Admin.Bldg Initial delivery GRP water tank	0 09NOV06		0	0	0	306	-90		Ŷ				\diamond	
2061	Admin.Bldg Initial del expanded metal cladding	0 14NOV06*		0	0	0	-71	-88		Û				•	
MAJOR	EQUIPMENT DELIVERY		r.			1									
	STRATION BUILDING														
6428	AdmBldg-Del. building vent. fans	48 06APR06A	31AUG06	80	20	10	362	-78							
6534	AdmBldg-Del. AFA & FM200 sys	48 15MAY06A	15SEP06	52	0	23	349	-32							
6476	AdmBldg-Del. CMCS, ELV & TCS equip't	72 01JUN06A	15SEP06	90	0	23	349	-27							
CONST	RUCTION														
TCSS A	ccess at Admin Bldg														
T2910	TCSS Access at Administration Bldg (24JUN06)	0	04SEP06	0	0	0	-85	-54		Û		•			
T3350	TCSS Works Within Admin Bldg / Tunnel & Ext	140 05SEP06	01MAR07	0	0	140	-85	-54							
CIVIL &	ABWF WORKS														
Substruc															
106398	Admin.Bldg Earth Mat & Rods - All in ptn D4	36 07SEP06	20OCT06	0	0	36	-1	-85							
ABWF															
	g (G/F) - Internal Work @ Grid 1 to 21 AB (G/F to 1/F) - Staircase Finishing Works	30 18APR06A	01SEP06	65	5	11	-106	-73	_						
11002	AB (G/F to T/F) - Stancase Finishing Works	30 10AF KU0A	UISEFUU	05	5		-100	-73							
T1685	AB G/F (Grid 1-21) - Wall Plaster & Flr Screed	20 19APR06A	30AUG06	70	10	9	-104	-85							
T1680	AB G/F (Grid 1-21) - Windows & door frames	18 24APR06A	30AUG06	50	56	9	-104	-91							
T3245	Rm (G39/G40/G45/G46) - Wdws & door frames	8 24APR06A	24AUG06	50	70	4	-95	-92							
T1975	AB G/F (Grid 1-21) - Base Skirting	18 15JUN06A	16OCT06	20	0	15	27	-40							
T2995	AB G/F (Grid 1-21) - Wall & Ceiling Base Paint	30 02AUG06A	13SEP06	40	0	18	-101	-61		[
T2990	AB G/F (Grid 1-21) - Tileworks & Sanitary Fixt	30 21AUG06	23SEP06	0	0	30	-101	-90			•				
T3255	Genset&Fuel Rm (G45/G46) - Floor Tiles	4 26AUG06	30AUG06	0	0	4	-104	-78							
T3275	AB G/F (Critical Rooms) - Access to E&M Works	0	30AUG06	0	0	0	-104	-78				•			
T1970	AB G/F (Grid 1-21) - Install Ceiling Grids	18 25SEP06	17OCT06	0	0	18	10	-70	-			•			
			1	1		1	1								_

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp		Float		33 12 19 26	34 3 10 17 24 3	35 1 7 14 21 2	36 3 4 11 18 25	37 2 9 16 23 3	38 0 6 13 20 27	39 7 4 11
	g (G/F) - Internal Work @ Grid 1 to 21						1	1	1							
T2160	AB G/F (Grid 1-21) - Install Ceiling Panels	10	18OCT06	28OCT06	0	0	10	10	-59							
T2150	AB G/F (Grid 1-21) - Door Leaf & Final Paints	12	31OCT06	13NOV06	0	0	12	10	-57				_			
T3285	Rm (G39/G40/G45/G46) - Door Leaf & Final Paints	4	06NOV06	09NOV06	0	0	4	13	-66			Ļ				
Admin Bld	g (1/F) - Internal Work @ Grid 1 to 18															
T1982	AB (1/F to 2/F) - Staircase Finishing Works	30	18APR06A	30AUG06	70	5	9	-74	-71							
T1985	AB 1/F (Grid 1-18) - Wall Plaster & Flr Screed	24	18APR06A	25AUG06	80	35	5	-65	-80		i					
T1980	AB 1/F (Grid 1-18) - Wdws & Door Frames	18	24APR06A	28AUG06	60	56	7	-54	-88							
T2165	AB 1/F (Grid 1-18) - Install Skirting	14	15JUN06A	20NOV06	60	0	6	4	-50							
T2015	AB 1/F (Grid 1-18) - Wall & Ceiling Base Paint	30	10JUL06A	08SEP06	80	0	6	11	-55							
T2010	AB 1/F (Grid 1-18) - Tileworks & Sanitary Fixt	21	21AUG06	13SEP06	0	0	21	-65	-90			-				
T2012	AB 1/F (Grid 10-18) - Proprietary Toilet Cubicle	18	04SEP06	23SEP06	0	0	18	-65	-87							
T3268	UPS&UPS Bat Rm (112/115) - Door Lf & Final Paint	6	08SEP06	14SEP06	0	0	6	58	-44	>						
T3000	AB 1/F (Grid 1-18) - Install Ceiling Grids	18	25SEP06	17OCT06	0	0	18	-2	-58			_				
T2185	AB 1/F (Grid 1-18) - Install Ceiling Panels	10	18OCT06	280CT06	0	0	10	-2	-58							
T3015	AB 1/F (Grid 1-18) - Floor Carpets	12	31OCT06	13NOV06	0	0	12	-2	-58							
T2170	AB 1/F (Grid 1-18) - Door Leaf & Final Paints	12	14NOV06	27NOV06	0	0	12	-2	-58							
Admin Bld	g (2/F) - Internal Work @ Grid 1 to 18						1	1	1							
T2060	AB 2/F (Grid 1-18) - Wdws & Door Frames	12	11APR06A	24AUG06	70	50	4	-58	-88							
T3012	AB 2/F (Tel, Comp, Cont Rm) - Wdws & door frames	8	11APR06A	23AUG06	70	70	3	-72	-90							
T2062	AB (2/F to Rf/Lvl) - Staircase Finishing Works	30	18APR06A	01SEP06	65	5	11	-58	-73							
T2065	AB 2/F (Grid 1-18) - Wall Plaster & Flr Screed	24	01JUN06A	22AUG06	95	0	2	-49	-68							
T3025	AB 2/F (Tel, Comp, Cont Rm) - Plaster & Screed	12	01JUN06A	30AUG06	90	0	9	-72	-87							
T2190	AB 2/F (Grid 1-18) - Base Skirting	21	03JUL06A	17NOV06	80	0	5	6	-19							
T2025	AB 2/F (Grid 1-18) - Ceiling & Wall Base Paint	30	10JUL06A	12SEP06	95	0	2	0	-49							
		1						1	1							

	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG			
	ID	Description	Dur	-	Finish	Compl.	% Comp		Float		33 12 19 26	34 3 10 17 24	35 31 7 14	21 28 4 11 1	37 8 25 2 9 1	
A	dmin Bld	g (2/F) - Internal Work @ Grid 1 to 18		1	r				1	1	-					
	T1860	AB 2/F (Tel, Comp, Cont Rm) - Base Skirting	12	15JUL06A	08NOV06	50	0	48	14	-8						
	T3035	AB 2/F (Tel, Comp, Cont Rm)- Ceilng & Wall Paint	10	25JUL06A	08AUG06A	100	0	0		-52						
	T2020	AB 2/F (Grid 1-18) - Tileworks & Sanitary Fixt	18	23AUG06	12SEP06	0	0	18	-49	-68						
	T2035	AB 2/F (Non-Critical Room) - Access to E&M Works	0		30AUG06	0	0	0	363	-50		1		\diamond		
	T3045	AB 2/F (Tel, Comp, Cont Rm) - Ceiling Grids	18	31AUG06	20SEP06	0	0	18	2	-26				, •		
	T2028	AB 2/F (Grid 1-18) - Proprietary Toilet Cubicle	10	13SEP06	23SEP06	0	0	10	-49	-68						
	T2045	AB 2/F (Grid 1-18) - Install Ceiling Grids	18	13SEP06	04OCT06	0	0	18	0	-37				,		
	T3055	AB 2/F (Tel, Comp, Cont Rm) - Raised Floors	21	21SEP06	17OCT06	0	0	21	2	-14						
	T3065	AB 2/F (Corridor & Cont Rm) - Ceiling Panels	18	18OCT06	08NOV06	0	0	18	2	-14						
	T3068	AB 2/F (Corridor & Cont Rm) - Floor Carpets	12	18OCT06	01NOV06	0	0	12	8	-14						
	T2058	AB 2/F (Grid 1-18) - Install Ceiling Panels	18	20OCT06	10NOV06	0	0	18	0	-22						
	T2068	AB 2/F (Grid 1-18) - Floor Carpets	18	20OCT06	10NOV06	0	0	18	0	-34		\langle				
	T1865	AB 2/F (Tel, Comp, Cont) - Door Lf & Final Paint	12	09NOV06	22NOV06	0	0	12	2	-14						
	T2220	AB 2/F (Grid 1-18) - Door Leaf & Final Paints	12	11NOV06	24NOV06	0	0	12	0	-22						
	hmin Bld	g (Roof/Flr) - Inter Works Grid 3 to 16														
ſ		AB R/F (Grid 3-16) - Window & door frames	6	28APR06A	23AUG06	50	35	3	-81	-87						
	T3280	AB R/F (Grid 3-16) - Wall Plaster & Flr Screed	18	28APR06A	21AUG06	95	50	1	-85	-82						
	T2250	AB R/F (Grid 3-16) - Ceiling & Wall Base Paint	12	15JUN06A	04SEP06	95	0	2	-85	-75						
	T2235	AB R/F (Grid 3-16) - Door Leaf & Final Paints	6	04NOV06	10NOV06	0	0	6	12	-79						
A	dmin Bld	g - Upper Roof & External Facade		I	l	1		1	1	1						
		AB Ext (GL 11-21) - Wall Waterproofing	18	28MAR06A	22AUG06	90	40	2	-39	-81						
	T2340	AB Ext (GL 11-21) - Slate Cladding	30	03APR06A	13SEP06	30	30	21	-25	-90						
	T2850	AB Ext (GL 1-11) - Install Louvres & Wdw Glazing	60	03APR06A	09SEP06	70	70	18	-23	-90						
	T2860	AB Ext (GL 11-21)- Install Louvres & Wdw Glazing	60	03APR06A	09SEP06	70	70	18	-17	-90						
				1	<u> </u>	<u> </u>		I		1						

Act	Activity Description	Orig Dur		Early	% Compl	Target 1 % Comp		Total Float	Variance Early Finish	JUN 33	JUL 34	AUG 35	SEP 36	OCT 37	NOV 38	DEC 39
.	Bldg - Upper Roof & External Facade	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Eany Finish	12 19 26	3 10 17 24	31 ₁ 7 14 21 µ	28 4 11 18 25	<u>,2 9 16 23 3</u>	0 6 13 20 27	7 4 11
	70 AB Ext UR/LR - Roof Screeding	18	30JUN06A	30AUG06	50	0	9	-37	-81				•			
T22	AB Ext (GL 6-11) - Curtain Wall & Glass Canopy	30	03JUL06A	23SEP06	60	0	12	11	-48	\geq						
T22	32 AB Ext (GL 11-18) - Curtain Wall Installation	21	03JUL06A	09SEP06	60	0	9	11	-66							
	30 AB Ext (GL 1-11) - Wall Waterproofing	18	20JUL06A	07SEP06	90	0	16	-23	-88							
T28	41 AB Ext UR/LR - Render&wall paint to Open Area Rf	12	25JUL06A	13SEP06	50	0	6	-37	-57	_ _						
	30 AB Ext (GL 11-21) - Ceramic Wall Tiles	30	23AUG06	26SEP06	0	0		-39	-81							
	40 AB Ext UR/LR - Roof Waterproofing & Test	24	31AUG06	27SEP06	0	0		-37	-81							
	30 AB Ext (GL 1-11) - Slate Cladding	45	14SEP06	08NOV06	0	0		-25	-90							
	50 AB Ext (GL 1-11) - Ceramic Wall Tiles	30	27SEP06	03NOV06	0	0		-39	-81							
	00 AB Ext UR/LR - Insulation & Conc Roof Tile	30	06OCT06	11NOV06	0	0		-37	-75					-		
	15 AB Ext UR/LR- Install GMS, Balustrades & Railing	21	13NOV06	06DEC06	0	0		-37	-57	•						
T22	30 AB Ext (GL 11-16) - Expanded metal mesh cladding	24	14NOV06	11DEC06	0	0	24	-71	-88		t .					
BUIL	DING SERVICES															
	n Bldg (G/F) - E & M Works															
	40 BS Works in G/F	90	01JUN06A	09OCT06	70	12		-76	-52							
	20 E&M Works in Risers	90	12JUN06A	20SEP06	70	0		-62	-19				1			
	20 BS Works for HV Sw + Tx	12	14JUN06A	24AUG06	70	0		-104	-82							
	30 BS Works for LV Sw	12	14JUN06A	24AUG06	70	0		-104	-70							
	40 BS Works for 110V Charger Rm	12	14JUN06A	24AUG06	70	0		-81	-82							
	20 BS Works for Genset	12	14JUN06A	25AUG06	60	0		-104	-59							
	60 PAU in G/F	30	14JUL06A	01AUG06A	100	0			-44							
	40 Genset Installation		14AUG06A	18AUG06A	100	0			-17	-						
	30 Bldg available for BB deliveries excl cont room	0		01SEP06	0	0		-106	-69	Û						
EM33	00 LV Sw Installation	30	02SEP06	09OCT06	0	0	30	-106	-69							

Act.		Orig		Early	%	Target 1		Total		JUN 33	JUL 34	AUG 35	SEP 36	OCT 37	NOV 38	DEC 39
	-	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26 3	10 17 24 3	1 ₁ 7 ₁ 14 21	28 4 11 18 2	25 2 9 16 23	30 6 13 20	27 4 11
	Bldg (G/F) - E & M Works HV Sw + Tx Installation	29	29SEP06	04NOV06	0	0	29	-128	-66							
A desire D																
	<mark>8ldg (1/F) - E & M Works</mark> BS Works in 1/F	90	08JUN06A	05OCT06	70	12	27	-74	-50				_			
ENISSOU	DS WORS III I/F	90	UOJUNUOA	0500106	70	12	21	-74	-50			-				
EM3380	BS Works for UPS Rm (2x)	12	03JUL06A	24AUG06	70	0	4	-93	-63							
EM3680	PAU in 1/F	30	14JUL06A	01AUG06A	100	0	0		-44							
EM3400	UPS (2x) Installation	30	15AUG06A	07SEP06	70	0	9	-93	-44							
Admin E	Bldg (2/F) - E & M Works															
	BS Works in 2/F	90	08JUN06A	20SEP06	70	0	27	-62	1			≱				
EM3700	PAU in 2/F	30	14JUL06A	01AUG06A	100	0	0		-16							
Admin E	Bldg (Int. & Ext. Roof Lvl) - E & M Works															
	BS Works in R/F	78	06JUN06A	03NOV06	20	1	62	-97	-79							
EM3190	Admin Bldg - Lift Installation	72	19JUN06A	28AUG06	95	0	7	49	59							
EM3720	Chiller System in R/F (inc. All AC Units)	72	20JUN06A	30SEP06	50	0	36	-35	30							
EM3480	BS Works for MCC	12	03JUL06A	21AUG06	90	0	1	-66	-51							
EM3500	MCC Installation	30	15AUG06A	23AUG06	98	0	1	-68	-23							
Admin E	Bldg - Testing and Commissioning															
EM3520	MCC Termination + T&C	30	24AUG06	27SEP06	0	0	30	-68	-23				-			
EM3360	110V Charger Rm Installation + T&C	12	08SEP06	21SEP06	0	0	12	-93	-44							
EM3460	Genset Termination + T&C	12	22SEP06	06OCT06	0	0	12	-75	-44		c					
EM3320	LV Sw Termination + T&C	30	10OCT06	14NOV06	0	0	30	-106	-57		c		-			
EM3260	HV Sw + Tx Termination + T&C	30	06NOV06	09DEC06	0	0	30	-128	-66							
Admin E	Bldg - Statutory Inspection and Handover								·							
EM3370	Admin Bldg - Lift Commissioning	24	29AUG06	25SEP06	0	0	24	49	59							┿
		•														

Act.	Activity	Orig	Early	Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35	i	SEP 36	OCT 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	34 3 10 17 24	31 7 14	21 28 4	11 18 25	2 9 16 23		27 4 11
SHATIN	NHEIGHTS SOUTH PORTAL BUILDING																
CONTR	ACT DEFINED DATES & SECTIONS																
	CCESS & VACATION DATES						1 .	1									
ACS_J2	Access to - J2 (T.Plate & above) SH-S.Vent.Bldg.	0	10DEC05A		100	100	0		-108								
ACS_D8	Access to Portion - D8	0	03JAN06A		100	100	0		-108								
SUBMI	ITALS & APPROVALS																
ABWF 8	BW APPROVALS																
2000	SHT SPB - Approve doors details	24	07MAY05A	30AUG06	70	70	9	-39	-90								
2074	SHT SPB - Approve aluminum composite cladding	24	13DEC05A	12SEP06	50	50	20	-18	-77	•							
PROCU	REMENT - MATERIAL		I				1		I								
ABWF V	VORKS																
2079	SHT SPB - Procure aluminum composite cladding	180	19APR05A	12SEP06	50	50	20	-18	-77								
2077	SHT SPB - Procure expanded metal mesh cladding	180	06JUN05A	06SEP06	50	50	15	-45	-85					I			
2082	SHT SPB - Initial delivery of slate cladding	0	21AUG06*		0	0	0	14	-52	-		<	>				
2083	SHT SPB - Initial deliv fall arrest roof syst.	0	21AUG06*		0	0	0	38	-43				>				
2084	SHT SPB - Initial delivery balustrd & metal work	0	21AUG06*		0	0	0	38	-43				>				
2081	SHT SPB - Initial delivery of doors	0	04OCT06*		0	0	0	-39	-89	Û					•		_
2085	SHT SPB - Initial deliv expanded metal cladding	0	08NOV06*		0	0	0	-45	-83			ļ				•	
2086	SHT SPB - Initial deliv alum composite claddings	0	11NOV06*		0	0	0	-18	-76	-		Û				•	
MAJOR	EQUIPMENT DELIVERY							1									
E&M W	ORKS																
7103	ShtSpBldg-Del. Package AC Units	48	27JAN06A	31AUG06	80	60	10	362	-78								
7118	ShtSpBldg-Del. building vent. fans	48	27JAN06A	31AUG06	80	60	10	362	-78								
7157	ShtSpBldg-Del. FS pumps & tank to G/F	48	06MAR06A	31AUG06	80	50	10	362	-91								
7162	ShtSpBldg-Del. ENT Tunnel (Hyd/HR) pumps to G/F	48	06MAR06A	31AUG06	80	40	10	362	-73								
7211	ShtSpBldg-Del. PD pump & tank to G/F	48	10APR06A	31AUG06	80	0	10	362	-43								
7231	ShtSpBldg-Del. PD irrig. pump & tank to G/F	48	10APR06A	31AUG06	80	0	10	362	-43								
	1		1		1		1	1	1								

Act	A otivity	Oria Early	Forly	%	Torget 1	Dom	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Act.	Activity Description	Orig Early Dur Start	Early Finish	% Compl.	Target 1 % Comp		Total Float	Variance Early Finish	33	34	35	36	37	38	39
E&M WO	·	Dur	1 mort	Comp.	70 Comp	Dui	rioar	Early Fillion	112 119 <u>1</u> 20	<u>,3 10 17 </u> 24	31 7 14 2	1 28 4 11 18 25		υρ _ι 13 ₁ 20 ₁ 2.	/ _[4]11
	ShtSpBldg-Del. AFA & FM200 sys	48 15MAY06A	15SEP06	52	0	23	349	-42							
7087	ShtSpBldg-Del. CMCS & ELV equip't	48 01JUN06A	15SEP06	90	0	23	349	-28		\rightarrow					
CONST	RUCTION	- I					1 1								
TCSS A	ccess to SHT Sout Portal Bldg														
EM6702	TCSS Containment in 1/F	12 28JUL06A	15AUG06A	100	0	0		-57							
EM6704	TCSS Containment in Lower Plenum	18 28JUL06A	15AUG06A	100	0	0		-68							
EM6706	TCSS Containment in 2/F	18 28JUL06A	15AUG06A	100	0	0		-51							
EM6708	TCSS Containment in 3/F and above	18 28JUL06A	15AUG06A	100	0	0		-51							
EM6700	TCSS Containment in G/F	12 04SEP06	16SEP06	0	0	12	-161	-85							
AB6024	TCSS ACCESS 4F (Room 402,403)	0	15AUG06A	100	0	0		-81							
AB6044	TCSS ACCESS ROOF	0	15AUG06A	100	0	0		-86							
EM6050	TCSS ACCESS 2F(Room 201-203,205,207,209,212)	0	15AUG06A	100	0	0		-83							
EM6090	TCSS ACCESS 2F(Room 206,210)	0	15AUG06A	100	0	0		-51	Ţ						
EM6110	TCSS ACCESS 2F(Room 204)	0	15AUG06A	100	0	0		-69	-						
EM6722	TCSS ACCESS 1F(Room 107)	0	15AUG06A	100	0	0		-57							
EM6732	TCSS ACCESS 1F(Room 105)	0	15AUG06A	100	0	0		-57	ľ						
EM6710	TCSS ACCESS GF (Room G01-G05, G08-G10)	0	02SEP06	0	0	0	-123	-85				•			
EM6720	TCSS ACCESS GF(Room G07,G11,G12)	0	16SEP06	0	0	0	-161	-85				•			
CIVIL &	ABWF WORKS		I												
AB5983	U/G Drainages and Utilities under bldg	24 01APR06A	24AUG06	85	0	4	4	-70							
AB5986	Backfill, G/F Slabs and Walls	24 20APR06A	07SEP06	85	0	4	4	-58							
ABWF		· · · ·													
AB6022	Remedy SHT Contractor Defects	25 12DEC05A	23AUG06	90	90	3	-161	-88							
ABWF at G AB5989	F Initial Finishes to G/F	18 11FEB06A	02SEP06	40	5	12	-161	-85				-			

Act. ID	Activity Description	Orig Dur		Early Finish	% Compl.	Target 1 % Comp		Total Float		JUN 33	JUL 34	AUG 35	36	OCT 37	NOV 38	DEC 39
ABWF at	•	Dui	Start	FILISI	Compi.	% Comp	Dui	Fillal	Early Fillish	12 19 26	3 ₁ 10 17 24	31 7 14	<u>21 28 4 11 18</u>	8 <mark>25 2 9 16 23</mark>	30 6 13 20 2	7 4 11
AB6042	G/F Paint Touch Up & Doors	12	13OCT06	26OCT06	0	0	12	24	-4			\geq]	
ABWF at					1		1									
	Initial Finishes to Lower Plenum	12		30AUG06	95	15	5	-46	-82							
AB6032	1F & LP Paint Touch Up & Doors	12	13OCT06	26OCT06	0	0	12	24	-4]	
ABWF at a	2F															
AB5998	Initial Finishes to 2/F	18	11FEB06A	04AUG06A	100	15	0		-60							
	2/F Paint Touch Up & Doors	12	13OCT06	26OCT06	0	0	12	24	-4			\geq]	
ABWF at					1											
AB6001	Initial Finishes to 3/F	18	10APR06A	04AUG06A	100	15	0		-60							
AB6062	3/F Paint Touch Up & Doors	12	13OCT06	26OCT06	0	0	12	24	-4			\geq]	
ABWF at	4F and above	1	1	P.				1	1							
AB6004	Initial Finishes to 4/F and above	24	13APR06A	30AUG06	90	10	9	5	-64							
AB6072	4/F and above Paint Touch Up & Doors	12	13OCT06	26OCT06	0	0	12	24	-4	-		>]	
Roof & Ex	l ternal Facade	I	I	I	1 1		1	1								
	Sht SPB - Ext. Wall Waterproof Render	21	02MAR06A	07SEP06	20	0	16	-14	-80							
AB6017	Sht SPB - Ext. Wall Waterproof Membrane	24	04MAR06A	05SEP06	90	90	14	-39	-90	-		<u> </u>				
AB6067	Sht SPB - Install Aluminum louvres & doors	75	15MAR06A	03OCT06	80	0	37	-39	-51							
AB6077	Sht SPB - Alum. composite cladding to ext walls	60	07AUG06A	10NOV06	10	0	54	-18	-16		>					
AB6047	Sht SPB - GMS, S/S Channel, Balustrade & Railing	18	14AUG06A	10NOV06	25	0	14	-18	-78			╘╴╺╡				
AB6037	Sht SPB - Roof Waterproofing & Test	12	21AUG06	19SEP06	0	0	14	-18	-90					•		
AB6007	Sht SPB - Slate Cladding above NB/SB Carriageway	36	06SEP06	19OCT06	0	0	36	0	-66							
AB6027	Sht SPB - External Wall Painting	30	15SEP06	21OCT06	0	0	30	-14	-80							
AB6057	Sht SPB - 25thk Roof Screed & Roofing Tiles	18	05OCT06	26OCT06	0	0	18	-18	-90						I	
AB6034	Sht SPB - Expanded metal cladding to ext walls	30	08NOV06	12DEC06	0	0	30	-45	-83	-						
U <mark>U</mark> I	1	I	1	1			<u> </u>	I	I]						

Act.	Activity	Orig	Early	Early	%	Target 1		Total	Variance	JUN 33	JUL 34	AUG 35	:	SEP 36	ОСТ 37	NOV 38	DEC 39
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	3 10 17 24 3	1 ₁ 7 ₁ 14 ₁ 2	2 1 28 4 1 1	1 18 25	2 9 ¦16 23 3	0 6 13 20 27	7 4 11
	uth Portal Bldg BUILDING SERVICES																
E&M V																	
	Portal Bldg (G/F) - E & M Works Installation of FS Pumps & Pipework at GF	18	04SEP06	23SEP06	0	() 18	-32	-85	-							
		10	043EF00	233EF00	0	(10	-32	-00	-							
EM6063	E&M Access to G/F	0	04SEP06		0	(0 0	-161	-85				•				
SHT South	Portal Bldg (2F/Silencer) - E & M Work																
EM6080	BS Works for HV Sw + Tx	12	17JUL06A	24AUG06	70	() 4	-66	-65								
EM6300	E&M Works in Corridors 2/F	24	17JUL06A	22AUG06	90	C	2	-46	-39								
EM6240	BS Works for Genset	18	01AUG06A	30AUG06	50	(9	-44	-64								
EM6260	Genset Installation	36	14AUG06A	21AUG06	98	() 1	-45	-20								
EM6340	E&M Works in Risers (2F & 3F)	48	15AUG06A	06SEP06	90	() 5	-47	-16								
EM6100	HV Sw + Tx Installation	30	06NOV06	09DEC06	0	(0 30	-125	-124								
SHT South	Portal Bldg (3F/Fan Rm) - E & M Work						1										
EM6140	BS Works for LV Sw, MCC, UPS, LCC	12	12JUN06A	24AUG06	70	() 4	-74	-65								
EM6200	BS Works for 110V Charger Rm	12	12JUN06A	26AUG06	50	(6	-68	-67								
EM6320	E&M Works in Corridors 3/F	24	14JUL06A	23AUG06	90	() 3	-47	-40								
EM6160	LV Sw, MCC, UPS, LCC Installation	30	16AUG06A	16SEP06	20	() 24	-74	-55								
SHT South	Portal Bldg (4F/Upr Plen) - E & M Work																
EM6400	TVS Installation	100	12JUN06A	12OCT06	56	() 44	-46	-4			7					
	d Commissioning																
	Genset Termination + T&C	12	22AUG06	04SEP06	0) 12	-45	-20			— [
EM6220	110V Charger Rm Installation + T&C	12	28AUG06	09SEP06	0	() 12	-68	-67								
EM6180	LV Sw, MCC, UPS, LCC Termination + T&C	30	18SEP06	24OCT06	0	0	0 30	-74	-55								
SHT TU	JNNEL																
	EQUIPMENT DELIVERY																
							_										
7012	ShtRtNb-Del. TVS control sys	48	24MAR06A	06NOV06	90	60	64	308	-145								
7024	ShtRtNb-Del. AFA & Linear sys	48	01JUN06A	15SEP06	52	(23	349	-43								
												_					

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ID	Description	Dur	,	Finish	Compl.	% Comp		Float		33	34	35	<u> </u>	37 5 2 9 16 23 3	38	39
SHT TU	NNEL SOUTH BOUND		1			•	1		,							
	ShtRtSb-Del. TVS control sys	47	24MAR06A	06NOV06	90	40	64	308	-145							
0333			24007	00140700	30			500	-145							
6947	ShtRtSb-Del. CMCS & ELV sys	72	01JUN06A	15SEP06	90	0	23	349	-25							
6971	ShtRtSb-Del. AFA & Linear sys	48	01JUN06A	15SEP06	52	0	23	349	-43							
CONST	RUCTION															
SHT NO	RTHBOUND TUNNEL															
(F & M) I	BUILDING SERVICES															
	Innel Ventillation System Above OHVD															
	Sht NB - Install Motorized Smoke & Fire Damper	48	22FEB06A	31AUG06	82	80	10	-87	-91							
207006	Sht NB - Comp Air Pipes/Condts to E/P1 to E/P5	36	12APR06A	07SEP06	90	5	4	-87	-84							
207005	Sht NB - Comp Air Pipes/Condts to E/P10 to E/P6	36	20JUN06A	14SEP06	90	0	4	-87	-54							
207007	Sht NB - Cabling, wiring and termination	24	15SEP06	14OCT06	0	0	24	-87	-54							
007000		10	4000700	0000700	0		10	07	5 4	-						
207008	Sht NB - MVAC Testing and T&C	12	16OCT06	28OCT06	0	0	12	-87	-54							
Plumbing a	and Drainage	1														
· · · · · ·	Sht NB - Pipe Testing & T&C	12	15MAY06A	22AUG06	90	0	2	-22	-52							
						-										
214028	Sht NB - Pipe Connectn, pumps, tanks to SP / NP	18	23AUG06	12SEP06	0	0	18	-22	-82							
	tion System						-									
221054	Sht NB - Install FS Conduits for Niches	30	22MAR06A	22AUG06	95	20	2	-64	-68							
224.055	Sht NB - (150d) FS Main pipeworks @ G/L	34	06APR06A	22AUG06	97	10	2	-52	-62							
221055	Shi NB - (1500) FS Main pipeworks @ G/L	34	UDAPRUDA	22AUG00	97	10	2	-52	-02							
221057	Sht NB - Hose Reel Cabinets & Equipts	40	08MAY06A	05SEP06	86	0	7	-52	-34				_			
221007		40	OUNATOOA	0001100	00	0	' í	-52	-04							
221058	Sht NB - (100d) FH / HR Pipeworks & Fittings	30	10MAY06A	31JUL06A	100	0	0		-1							
221052	Sht NB - Install brckt for detection sys @ C/L	30	21AUG06	23SEP06	0	0	30	-92	-90			🗖				
221053	Sht NB - Install detection system @ Ceiling Lvl	24	25SEP06	24OCT06	0	0	24	-92	-90							
										_						
221059	Sht NB - FS wiring & termination	24	25OCT06	22NOV06	0	0	24	-92	-72					-		
004.004	Obt ND FO Testing and TOO	10	00101/00	0005000	0	0	10	00	70	-					-	
221061	Sht NB - FS Testing and T&C	12	23NOV06	06DEC06	0	0	12	-92	-72							
Electrical V	Vorks Above OHVD	I			1		-									
	Sht NB-HV&LV Mn/Submain Cable Pulling (CP5-CP1)	24	15AUG06A	21SEP06	10	0	22	-81	-49							
										-						
												•				

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEF		OCT	NOV	DEC
ID	Description	Dur	-	Finish	Compl.	Ũ		Float		33	34 3 10 17 24	35 31 7 14 21	28 4 11 0		37 9 16 23 3	38 0 6 13 20 2	39
Electrical V	Vorks Above OHVD	1	1			•	1	1									
228108	Sht NB-HV&LV Mn/Submain Cable Pulling (CP10-CP6)	24	15AUG06A	21SEP06	10	0	22	-105	-73								
228109	E&M Inspection & Access to Civil Contractor	0		28SEP06	0	0	0	-81	-49			Û		•			
Electrical V	Vorks Below OHVD							1	1								
235161	Sht NB - Conduits Works (Above & below OHVD)	48	01MAR06A	06SEP06	89	44	6	-62	-78								
235160	Sht NB - Brackets for Lightings @ Ceiling Level	48	14MAR06A	23AUG06	93	80	3	-65	-84								
235164	Sht NB - Tunnel Lightings Fixtures	60	26APR06A	20SEP06	84	5	10	-62	-60								
235165	Sht NB - Cabling, Wiring and Termination	36	30MAY06A	27SEP06	20	0	29	-62	-42								
235162	Sht NB - Tunnel Earthing to CP1-CP10	36	24AUG06	05OCT06	0	0	36	-65	-84								
235163	Stn NB Access to Civil Contractr for Rd Pavement	0	06OCT06		0	0	0	-65	-72		Ŷ				•		
235166	Sht NB - Lighting Test and T&C	12	06OCT06	20OCT06	0	0	12	-65	-48								
235167	Stn NB Access to Civil Contractor for Top Layer	0		20OCT06	0	0	0	-65	-48			Ű	Ļ		•		
SHT SO	UTHBOUND TUNNEL		1		1			1	1								
	BUILDING SERVICES																
	nnel Ventilation System Above OHVD																
	Sht SB - Install Motorized Smoke & Fire Damper	48	02MAR06A	01SEP06	77	74	11	-70	-89				-				
242272	Sht SB - Comp Air Pipes/Condts to E/P1 to E/P5	36	08MAY06A	08SEP06	90	0	4	-70	-35								
242273	Sht SB - Cabling, wiring and termination	24	09SEP06	09OCT06	0	0	24	-70	-35				-				
242274	Sht SB - MVAC Testing and T&C	12	10OCT06	23OCT06	0	0	12	-55	-35				_				
Plumbing a	and Drainage																
249393	Sht SB - Pipe Testing and T&C	12	22JUN06A	23AUG06	75	0	3	-23	-29								
249392	Sht SB - Pipe Connectn, pumps, tanks to SP / NP	18	24AUG06	13SEP06	0	0	18	-23	-59		-						
	tion System																
256516	Sht SB - Install FS Conduits for Niches	30	12JUN06A	28AUG06	77	0	7	-57	-13								
256518	Sht SB - Hose Reel Cabinets & Equipts	40	30JUN06A	11SEP06	60	0	16	-57	15								
256519	Sht SB - (100d) FH / HR Pipeworks & Fittings	30	03JUL06A	31JUL06A	100	0	0		53								
256514	Sht SB - Install brckt for detection sys @ C/L	30	21AUG06	23SEP06	0	0	30	-92	-90								
		- 1	1				1	1	1								+

Ad	ct.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
10	D	Description	Dur		Finish	Compl.	% Comp	Dur			33 12 19 26	34 _3 _10 _17 _24	35 31 7 14 2	36 21 28 4 11 18	37 25 2 9 16 23 3	38 0 6 13 20 2	39 27 4 11
		on System		1					-	1							
		Sht SB - Install detection system @ Ceiling Lvl	24	25SEP06	24OCT06	0	0	24	-92	-90							
256	520	Sht SB - FS Wiring & Termination	24	25OCT06	22NOV06	0	0	24	-92	-18							
256	521	Sht SB - FS Testing and T&C	12	23NOV06	06DEC06	0	0	12	-92	-18							
Elect	trical W	orks Above OHVD															
263	8655	Sht SB-HV&LV Mn/Submain Cable Pulling (CP6-CP10)	24	10AUG06A	14SEP06	8	0	22	-105	5							
263	8658	Sht SB-HV&LV Mn/Submain Cable Pulling (CP1-CP5)	24	10AUG06A	14SEP06	8	0	22	-105	-19		-		•			
263	8659 I	E&M Inspection & Access to Civil Contractor	0		21SEP06	0	0	0	-75	5				> •	Û.		
Elect	trical W	orks Below OHVD	1	1		1		1	1	1							
		Sht SB - Conduits Works (Above & below OHVD)	48	01MAR06A	26AUG06	82	42	6	-65	-68							
210			10		20/0000	02	+2										
270	798	Sht SB - Brackets for Lightings @ Ceiling Level	48	01JUN06A	26AUG06	87	0	6	-92	-71							
270	802	Sht SB - Tunnel Lightings Fixtures	60	27JUN06A	09SEP06	85	0	9	-65	13					-		
270	800	Sht SB - Tunnel Earthing to CP1-CP10	36	01AUG06A	20SEP06	24	0	27	-92	-56							
270	803	Sht SB - Cabling, Wiring and Termination	36	21SEP06	04NOV06	0	0	36	-92	-26							
270	801	Stn SB Access to Civil Contractr for Rd Pavement	0	06OCT06		0	0	0	-65	-68		Û			•		
270	804	Sht SB - Lighting Test and T&C	12	06NOV06	18NOV06	0	0	12	-89	-26							
270	805	Stn SB Access to Civil Contractor for Top Layer	0		18NOV06	0	0	0	-89	-26					Û	•	
SHT	CRC	DSS PASSAGES (CP1 to CP10)															
		UILDING SERVICES															
	trical W																
		(CP1-CP10) - Cable Containment & Equipt Support	60	03MAY06A	26AUG06	90	2	6	-109	-38							
		(-										
277	'959 ((CP1-CP10) - MCCB / MCB Bd,CMCS,Busbar,Switches	72	13JUN06A	09SEP06	75	0	18	-77	7							
277	/960 ((CP1-CP10) - Conduit, light Fixture, Swt & Test	36	15AUG06A	26SEP06	10	0	32	-109	-43		\leq					
277	'962 ((CP1-CP10) - Switchboard, CMCS, Eqpt, Testing	48	25AUG06	17OCT06	0	0	22	-77	3							
277	'961 ((CP1-CP10) - HV & LV Cables Termination & Test	48	27SEP06	24NOV06	0	0	48	-109	-29							
				1						L			•				

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN 33	JUL 34	AU 35		SEP 36	OCT 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	3 10 17 24	31 7 14	21 28	4 11 18 2	5 2 9 16 23 S	30 6 13 20 2	7 4 11
SHT NO	ORTH PORTAL BUILDING																
SUBMI	TTALS & APPROVALS																
ABWF &	BUILDERS WORKS																
2094	SHT NPB - Approve alum. composite claddings	24	13DEC05A	29AUG06	90	70	8	-62	-76								
PROCU	REMENT - MATERIAL				1 1												
ABWF W	VORKS																
2099	SHT NPB - Procure alum. composite claddings	180	19APR05A	09SEP06	50	50	18	-72	-86								
2098	SHT NPB - Procure expanded metal claddings	180	06JUN05A	30AUG06	50	50	9	-61	-90					l			
2101	SHT NPB - Initial delivery of doors	0	21AUG06*		0	0	0	38	-52	J.			\diamond				
2102	SHT NPB - Initial delivery of slate claddings	0	21AUG06*		0	0	0	-16	-43				•				
2104	SHT NPB - Initial deliv fall arrest roofing syst	0	21AUG06*		0	0	0	20	-36		Û		\diamond				
2106	SHT NPB - Initial deliv alum. composite cladding	0	20OCT06*		0	0	0	-72	-58			Ŷ			•		
2103	SHT NPB - Initial deliv expanded metal claddings	0	13NOV06*		0	0	0	-61	-87			Û				•	
MAJOR	EQUIPMENT DELIVERY		1	1	• •												
SHT NO	RTH PORTAL BUILDING																
7340	ShtNpBldg-Del. building vent. fans	48	27JAN06A	31AUG06	80	60	10	362	-65]			
7379	ShtNpBldg-Del. FS pumps & tank to G/F	48	06MAR06A	31AUG06	80	0	10	362	-43]			
7325	ShtNpBldg-Del. Package AC Units	48	10APR06A	31AUG06	80	0	10	362	-43]			
7433	ShtNpBldg-Del. PD pump & tank to G/F	48	10APR06A	31AUG06	80	0	10	362	-43]			
7429	ShtNpBldg-Del. AFA & FM200 sys	48	15MAY06A	15SEP06	52	0	23	349	-53								
7309	ShtNpBldg-Del. CMCS & ELV equip't	48	01JUN06A	15SEP06	90	0	23	349	-26		\geq						
CONST	RUCTION																
TCSS A	ccess to SHT North Portal Bldg																
EM7286	TCSS Containment in 1/F	12	21AUG06	02SEP06	0	0	12	-143	-74								
EM7289	TCSS Containment in Lower Plenum	18	21AUG06	09SEP06	0	0	18	-164	-69								
EM7292	TCSS Containment in 2/F	18	21AUG06	09SEP06	0	0	18	-146	-74								
EM7295	TCSS Containment in 3/F and above	18	21AUG06	09SEP06	0	0	18	354	-69								

D Description Dot Start Finant Compl. No. Plane Early Finith Start Finant Compl. No. Plane Early Finith Start Finant Compl. No. Plane Early Finith Start Finant Compl. No. Finant Compl. No. Finant Compl. Finant	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	6	SEP	ОСТ	NOV	DEC
TCSS Access to SHT North Portal Bidg EMP/281 TCSS Access 4F (Room 401,402,403,404) 12 30AUG08 122 EP06 0 0 12 -77 1 1 0 0 105 0 0 0 105 105 -77 1 1 0 125 0 0 0 146 74 1 1 1<7		•	-	-			0				33 12 19 26	34	35 31 7 14	21 28	36 4 11 18 25	37 2 9 16 23 3	38 30 6 13 20 2	39 7 4 11
EM7281 TCSS Containment in GyF 12 30AUG08 128 EP08 0 12 118 -77 1 <	TCSS A	ccess to SHT North Portal Bldg						•							<u> </u>			
EM7280 TCSS ACCESS - GF (Room G02-G03, Go4-G08) 0 28AUG06 0 0 1.14 -77 EM7286 TCSS ACCESS - 1F (Room 107,108,104) 0 0.25EP06 0 0 1.14 -77 EM7286 TCSS ACCESS - 1F (Room 108) 0 0.25EP06 0 0 1.18 -74 EM7280 TCSS ACCESS - 1F (Room 108) 0 0.25EP06 0 0 0 1.18 -74 EM7290 TCSS ACCESS - 1F (Room 104) 0 0.25EP06 0 0 0 1.18 -74 EM7290 TCSS ACCESS - 1F (Room 049,G15) 0 0.95EP06 0 0 0 1.18 -77 AB7700 TCSS ACCESS - GF (Room 609,G15) 0 1.25EP06 0 0 0 1.18 -77 AB7000 Backlill, GF Slabs and Walis 24 14SEP06 130CT06 0 2.42 2.7 -97 AB700 Backlill, GF Slabs and Walis 24 14SEP06 1.00 0 2.42 2.7 -97 AB7100 Initial Finishes to G/F 18 2.4NOV06 </td <td></td> <td></td> <td>12</td> <td>30AUG06</td> <td>12SEP06</td> <td>0</td> <td>0</td> <td>12</td> <td>-118</td> <td>-77</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			12	30AUG06	12SEP06	0	0	12	-118	-77								
EM7296 TCSS ACCESS 1F (Room 107,109,104) 0 0.2SEP06 0 0 148 -744 EM7306 TCSS ACCESS 1F (Room 108) 0 0.2SEP06 0 0 148 -744 EM7290 TCSS ACCESS 1FL (Room 103) 0 0.2SEP06 0 0 148 -744 EM7290 TCSS ACCESS 1FL (Room 103) 0 0.0SEP06 0 0 146 -744 EM7306 TCSS ACCESS 1FL (Room 104,105) 0 0.0SEP06 0 0 146 -744 EM7293 TCSS ACCESS 1FL (Room 004,105) 0 0.0SEP06 0 0 148 -774 EM7293 TCSS ACCESS 1FL (Room 004,105) 0 0 132EP06 0 0 148 -774 EM7293 TCSS ACCESS 1FL (Room 004,105) 0 0 132EP06 10 0 21 327 -877 AB7040 UCD trainages and Utilities under bidg 24 142EP06 130CT66 0 0 14 37 AB7040 Ucd betckts 0 SHT Buildings 24 170EC08A 22AUG66 95	AB7190	TCSS ACCESS 4F (Room 401,402,403,404)	0		22AUG06	0	0	0	-130	-65				•				
EM7306 TCSS ACCESS - 1F (Room 106) 0 025EP06 0 0 118 -74 EM7299 TCSS ACCESS LPL (Room L03) 0 055EP06 0 0 146 -74 5 AB7150 TCSS ACCESS LPL (Room L04, L05) 0 095EP06 0 0 146 -74 5 5 5 - 5 6 5 7 8 118 -77 7	EM7290	TCSS ACCESS - GF (Room G02-G03, G04-G08)	0		29AUG06	0	0	0	-114	-77	-			•				
EM7299 TCSS ACCESS LPL (Room L03) 0 OSSEP06 0 0 -83 AB7150 TCSS ACCESS LPL (Room L04,L05) 0 OSSEP06 0 0 146 -74 #	EM7296	TCSS ACCESS - 1F (Room 107,109,104)	0		02SEP06	0	0	0	-143	-74					•			
AB7150 TCSS ACC 2F(201,204,205,207-212,214,215,ST1,ST2) 0 098EP06 0 0 146 -74 3 3 EM7309 TCSS ACCESS LPL (Room L04,L05) 0 0 098EP06 0 0 164 469 3 EM7203 TCSS ACCESS - GF (Room G09,G15) 0 128EP06 0 0 118 -77 3 CVIL & ASWF WORKS AB7040 Uld Drainages and Ullities under bldg 24 20JUL06A 138EP06 10 0 24 327 -87 AB7040 Uld Drainages and Ullities under bldg 24 145EP06 130CT06 0 0 24 327 -87 AB7040 Uld Drainages and Ullities under bldg 24 17DEC05A 22AUG06 95 50 2 -168 -83 AB7130 Remedy defects to SHT Buildings 24 17DEC05A 22AUG06 95 7 8 -118 -77 -14 AB7130 Initial Finishes to G/F 18 19APR06A 29AUG06 95 7 8 -118 -77 -14 -487 -487	EM7306	TCSS ACCESS - 1F (Room 108)	0		02SEP06	0	0	0	-118	-74					•			
EM7309 TCSS ACCESS LPL (Room L04,L05) 0 0 09SEP06 0 0 164 -69 3 EM7233 TCSS ACCESS - GF (Room G09,G15) 0 12SEP06 0 0 118 -77 3 CIVIL & ABWF WORKS	EM7299	TCSS ACCESS LPL (Room L03)	0		05SEP06	0	0	0	-169	-83					•			
EM7293 TCSS ACCESS - GF (Room G09,G15) 0 12SEP06 0 0 118 -77 5 CVIL & ABWF WORKS AB7040 UG Drainages and Utilities under bidg 24 24 13SEP06 10 0 21 327 -87 AB7040 UG Drainages and Utilities under bidg 24 14SEP06 13OCT06 0 0 24 327 -87 AB7050 Backfill, G/F Slabs and Walls 24 14SEP06 13OCT06 0 0 24 327 -87 AB7130 Remedy defects to SHT Buildings 24 17DEC05A 22AUG06 95 5 2 -168 -83 ABWF arCF 18 25APR06A 29AUG06 95 7 8 -118 -77 AB7330 G/F paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 AB7402 Initial Finishes to 1/F 18 19APR06A 29JUL06A 100 10 0 -56 AB7120 Initial Finishes to 2/F 18 24APR06A 05DEC06 0	AB7150	TCSS ACC 2F(201,204,205,207-212,214,215,ST1,ST2)	0		09SEP06	0	0	0	-146	-74	Ŷ				•			
Civil & ABWF WORKS Civil & A						_	-				Û				•			
AB7040 U/G Drainages and Utilities under bidg 24 20JUL06A 13SEP06 10 0 21 327 -87 AB7060 Backfill, G/F Slabs and Walls 24 14SEP06 13OCT06 0 0 24 327 -87 AB7060 Backfill, G/F Slabs and Walls 24 14SEP06 13OCT06 0 0 24 327 -87 ABWF works	EM7293	TCSS ACCESS - GF (Room G09,G15)	0		12SEP06	0	0	0	-118	-77	Û				•			
AB7060 Backfill, G/F Slabs and Walls 24 14SEP06 13OCT06 0 0 24 327 -87 AB7060 Backfill, G/F Slabs and Walls 24 17DEC05A 22AUG06 95 50 2 -169 -83 ABWF Works	CIVIL &	ABWF WORKS																
ABWF works ABT320 Initial Finishes to Lower Plenum 12 20N0V06 29JUL06A 100 100 160			24	20JUL06A	13SEP06	10	0	21	327	-87								
AB7130 Remedy defects to SHT Buildings 24 17DEC05A 22AUG06 95 50 2 -169 -83 ABWF at GF AB7080 Initial Finishes to G/F 18 25APR06A 29AUG06 95 7 8 -118 -77 AB7030 G/F paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 ABWF at IF & LP	AB7060	Backfill, G/F Slabs and Walls	24	14SEP06	13OCT06	0	0	24	327	-87								
ABWF at CF ABT080 Initial Finishes to G/F 18 25APR06A 29AUG06 95 7 8 -118 -77 0 <td>ABWF W</td> <td>/orks</td> <td></td>	ABWF W	/orks																
AB7080 Initial Finishes to G/F 18 25APR06A 29AUG06 95 7 8 -118 -77 AB730 G/F paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 ABWF at 1F & LP	AB7130	Remedy defects to SHT Buildings	24	17DEC05A	22AUG06	95	50	2	-169	-83								
AB730 G/F paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 ABWF at 1F & LP AB7100 Initial Finishes to 1/F 18 19APR06A 29JUL06A 100 10 0 -56 AB7120 Initial Finishes to Lower Plenum 12 22APR06A 05SEP06 95 0 8 -169 -83 AB7320 1F & LP Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 AB7320 1F & LP Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 ABWF at 2F								-										
ABWF at 1F & LP AB7100 Initial Finishes to 1/F 18 19APR06A 29JUL06A 100 10 0 -56 AB7120 Initial Finishes to Lower Plenum 12 22APR06A 05SEP06 95 0 8 -169 -83 AB7320 1F & LP Paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 ABWF at 2F AB7140 Initial Finishes to 2/F 18 24APR06A 29JUL06A 100 10 0 -56 AB7340 2/F Paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 ABWF at 3F																		
AB7100 Initial Finishes to 1/F 18 19APR06A 29JUL06A 100 10 0 -56 AB7120 Initial Finishes to Lower Plenum 12 22APR06A 05SEP06 95 0 8 -169 -83 AB7320 IF & LP Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 AB7140 Initial Finishes to 2/F 18 24APR06A 29JUL06A 100 10 0 -56 AB7340 2/F Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 AB7340 2/F Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 AB7340 2/F Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14 ABWF at 3F			12	20NOV06	02DEC06	0	0	12	-7	-14								
AB7120 Initial Finishes to Lower Plenum 12 22APR06A 05SEP06 95 0 8 -169 83 AB7320 1F & LP Paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 ABWF at 2F AB7340 Initial Finsihes to 2/F 18 24APR06A 29JUL06A 100 10 0 -56			40		20 11 11 00 4	100	40			FC								
AB7320 1F & LP Paint Touch Up & Doors 12 20N0V06 02DEC06 0 0 12 -7 -14									4.00						-			
ABWF at 2F AB7140 Initial Finsihes to 2/F 18 24APR06A 29JUL06A 100 10 0 -56 AB7340 2/F Paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14			12	ZZAPRUGA	055EP06	95	0	8	-169	-83					-			
AB7140 Initial Finsihes to 2/F 18 24APR06A 29JUL06A 100 10 0 -56 AB7340 2/F Paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14 ABWF at 3F	AB7320	1F & LP Paint Touch Up & Doors	12	20NOV06	02DEC06	0	0	12	-7	-14								
AB7340 2/F Paint Touch Up & Doors 12 20NOV06 02DEC06 0 0 12 -7 -14						1 1												
ABWF at 3F																		
			12	20NOV06	02DEC06	0	0	12	-7	-14								
AB7160 Initial Finishes to 3/F 18 26APR06A 29JUL06A 100 10 -51																		
	AB7160	Initial Finishes to 3/F	18	26APR06A	29JUL06A	100	10	0		-51								

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ID	Description	Dur		Finish	Compl.	% Comp	Dur	Float	Early Finish	33	34 3 10 17 24 3	35 31 7 14 2	36 1 28 4 11 18 2	37 25 2 9 16 23	38 30 6 13 20 2	39 27 4 11
ABWF at 3	JF															
AB7350	3/F Paint Touch Up & Doors	12	20NOV06	02DEC06	0	0	12	-7	-14							
ABWF at 4																
AB7180	Initial Finishes to 4/F and above	24	02MAY06A	29AUG06	90	0	8	-130	-65							
4.07000	4/E and above Datest Taviah Um & Dagar	10	00101/00	0005000	0		10	7	4.4	-						
AB7360	4/F and above Paint Touch Up & Doors	12	20NOV06	02DEC06	0	0	12	-7	-14							
Roofing &	External Facade															
	Sht NPB - Ext. Wall Waterproof Render	21	04MAY06A	07SEP06	25	0	16	-14	-76							
127 0200			0 1111 11 007 1	0102100	20	0			10							
AB7290	Sht NPB - Install Aluminum louvres & doors	75	06MAY06A	14SEP06	70	0	22	16	-36							
												-				
AB7270	Sht NPB - Roof Waterproofing & Test	12	23AUG06	05SEP06	0	0	12	-24	-77							
AB7310	Sht NPB - Slate Cladding above NB/SB Carriageway	36	23AUG06	04OCT06	0	0	36	-18	-45							
AB7260	Sht NPB - External Wall Painting	30	15SEP06	21OCT06	0	0	30	-14	-76							
AB7300	Sht NPB - 25thk Roof Screed & Roofing Tiles	18	20SEP06	12OCT06	0	0	18	-24	-77							
AB7250	Sht NPB - GMS, S/S Channel, Balustrade & Railing	18	13OCT06	03NOV06	0	0	18	-24	-51							
AB7280	Sht NPB - Alum. composite cladding to ext walls	60	20OCT06	02JAN07	0	0	60	-72	-58						1	
AB7220	Sht NPB - Expanded metal cladding to Ext Walls	30	13NOV06	16DEC06	0	0	30	-61	-87							
Sht Nor	th Portal Bldg BUILDING SERVICES															
E&M	WORKS															
SHT North	Portal Bldg (G/F) - E & M Works															
EM7280	E&M Access to G/F	0	30AUG06		0	0	0	-118	-77				•			
EM7281	Installation of FS Pumps & Pipework at GF	18	30AUG06	19SEP06	0	0	18	-28	-77							
	Portal Bldg (2F/Silencer) - E & M Work							1 1								
EM7600	BS Works for TVS Plenums	30	26JUN06A	30AUG06	70	0	9	-77	-48							
										-						
EM7460	BS Works for Genset	18	20JUL06A	07SEP06	10	0	16	-122	-72							
		-	04 11 11 00 1		400	-	-									
EM7240	E&M access to 2/F	0	31JUL06A		100	0	0		-56							
		40	044110000	04411000	70			400	<u></u>	-						
EM/300	BS Works for HV Sw + Tx	12	01AUG06A	24AUG06	70	0	4	-128	-66				-			
EM7E00	ERM Mortes in Corridore 2/E	24	014110004	24 4 1 1 0 0 0	70	0	7		40							
EIV1/520	E&M Works in Corridors 2/F	24	01AUG06A	31AUG06	70	0	' '	-89	-48							
EM7560	E&M Works in Risers	49	15AUG06A	07SEP06	90	0	5	-89	-13							
EIVI7 560		40	IJAUGUOA	0/32700	90	0	5	-09	-13							
	1		1				1									

Act	. Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN 33	JUL 34	AUG		OCT 37	NOV 38	DEC
ID		Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish			35 31 7 14	36 21 28 4 11 18 2			39 7 4 11
	orth Portal Bldg (2F/Silencer) - E & M Work 20 HV Sw + Tx Installation	30	25AUG06	28SEP06	0	0	30	-128	-66							
		50	2370300	2001100	0	0	50	-120	-00							
EM74	80 Genset Installation	36	08SEP06	210CT06	0	0	36	-122	-72	1						
SHT N	orth Portal Bldg (3F/Fan Rm) - E & M Work															
	60 BS Works for LV Sw, MCC, UPS, LCC	12	17JUL06A	24AUG06	70	0	4	-122	-61							
EM75	40 E&M Works in Corridors 3/F	24	01AUG06A	31AUG06	90	0	3	-89	-43							
EM74	20 BS Works for 110V Charger Rm	12	15AUG06A	26AUG06	50	0	6	-106	-63							
EM73	80 LV Sw, MCC, UPS, LCC Installation	30	25AUG06	28SEP06	0	0	30	-122	-61							
EM75	80 Termination of overall Elect HV & LV Sys	29	07NOV06	09DEC06	0	0	29	-122	-42							
					-	-										
	orth Portal Bldg (4F/Upr Plen) - E & M Work	100	17 11 11 0 0 0	(0) (0)	0-					-						
EM76	20 TVS Installation	100	17JUL06A	18NOV06	25	0	75	-77	-14							
Testing	and Commissioning				1 1		1	1								
EM74	40 110V Charger Rm Installation + T&C	12	28AUG06	09SEP06	0	0	12	-106	-63							
EM72	40 HV Sw + Tx Termination + T&C	30	29SEP06	06NOV06	0	0	30	-122	-66							
		30	293EF00	00110700	0	0	30	-122	-00							
EM74	00 LV Sw, MCC, UPS, LCC Termination + T&C	30	29SEP06	06NOV06	0	0	30	-122	-61	1						
	00 Genset Termination + T&C	10	0000700	00101/00	0	0	40	400	-72	-						
EM/5		12	23OCT06	06NOV06	0	0	12	-122	-72		-			-		
	ry Inspection & Issued Certificates				· ·		1									
EM76	81 Power Supply Available (Arrange by SHT)	0		30SEP06*	0	0	0	-71	-27		7		Ú	•		
OUT I																
	RC ENCLOSURE & T3 UNDERPASS															
	DR EQUIPMENT DELIVERY															
	RC FULL ENCLOSURE / T3 UNDERPASS	40	07550004	00101/00	00	0	04	000	07							
/5	07 Sht-N.R9-Del. TVS control sys	48	27FEB06A	06NOV06	90	0	64	308	-67							
75	19 Sht-N.R9-Del. AFA & Linear sys	48	15MAY06A	15SEP06	52	0	23	349	-56							
76	06 Sht-N.R9-Del. LCC to S & N Sw/R	48	15MAY06A	31AUG06	80	0	10	362	-43							
76	14 Sht-N.R9-Del. MCC, & control sys to S LV S/R	48	15MAY06A	29JUL06A	100	0	0		-15							
74	96 Sht-N.R9-Del. CMCS & ELV sys	48	01JUN06A	15SEP06	90	0	23	349	-26							
							1									

Act.	Activity	Orig Early	Early	%	Target 1	-	Total		JUN 33	JUL 34	AUG 35	SEP 36	OCT 37	NOV 38	DEC
ID	Description	Dur Start	Finish	Compl.	% Comp	Dur	Float	Early Finish	12 19 26	3 10 17 24 j	31 7 14 21	28 4 11 18 25	2 9 16 23 3	0 6 13 20 27	/ 4 11
INTERF	ACE DATES														
SHT RC	FULL ENCLOSURE / T3 UNDERPASS					-1									
EM4020	LKJV - Posession of T3 Underpass	0 21AUG06	*	0	0	0	-106	-70			•				
CONST	RUCTION WORKS														
	FULL ENCLOSURE / T3 UNDERPASS														
	at Shatin North Control Point														
	Kiosk S1 - Structure & Fittings	24 21AUG0	16SEP06	0	0	24	-106	-90							
Linecoo				Ũ											
EM3960	Wighbridge S1 - Install	12 21AUG0	02SEP06	0	0	12	-100	-90			•				
EM3970	Weighbirgde S1 - Test and T&C	30 04SEP06	10OCT06	0	0	30	-100	-90							
EM3952	Kiosk S1 - Install E&M Works	18 18SEP06	10OCT06	0	0	18	-106	-90							
EM3954	Kiosk S1 - E&M Testing and T&C	6 11OCT06	17OCT06	0	0	6	-106	-90							
RC Full F	Enclosure - LV Switch Room					1	1								
	E&M Access to Southern LV Switch Room	0 21AUG0	;	0	0	0	-118	-90			•				
280072	LV SW Rm - Cable Containment & Equipt Supports	24 21AUG0	16SEP06	0	0	24	-118	-90							
280074	LV SW Rm - SWGR, MCCB/ MCB Board, FS Panels	36 28AUG0	5 10OCT06	0	0	36	-118	-72			· '				
280076	LV SW Rm - Elect Lightings & Conduits	18 04SEP06	30SEP06	0	0	18	-100	-84							
280079	LV SW Rm - MCCB,MCB,LV Sw,FS panels Term & Test	18 11SEP06	24OCT06	0	0	18	-118	-66			_				
280080	LV SW Rm - Connect HV / LV Cables from SHT NPB	24 29SEP06	01NOV06	0	0	24	-118	-60		L		•			
280078	LV SW Rm - Lightings wiring, term & test	6 03OCT06	10OCT06	0	0	6	-100	-84							
STN RC	FULL ENCLOSURE (North Bound) - E&M WORKS						1								
MVAC / Tu	nnel Ventillation System	1 1	1												
280000	RCFE NB - Ductworks Supports / Containment @ C/L	36 18FEB06	30AUG06	75	30	9	-56	-82							
280002	RCFE NB - MVAC Ducts, TVF & MSFD Units @ C/L	48 02MAR06	A 06SEP06	75	25	9	-56	-70							
280004	RCFE NB - MVAC Pipeworks & Conduits @ C/L	30 08AUG06	A 20SEP06	40	0	18	-49	-52							
280006	RCFE NB - Cabling, wiring and termination	24 21SEP06	20OCT06	0	0	24	-49	-52		_					
	tion System	· · ·	1	1	1	-		1							
280028	RCFE NB - (100d) FH / HR Pipeworks & Fittings	18 10JUL06	09SEP06	65	0	6	-40	-28			_				

India Duraction Duraction <thduraction< th=""> <thduraction< th=""> <thdurac< th=""><th>Act.</th><th>Activity</th><th>Orig</th><th>Early</th><th>Early</th><th>%</th><th>Target 1</th><th>Rem</th><th>Total</th><th>Variance</th><th>JUN</th><th>JUL</th><th>AUG</th><th>SEP</th><th>ост</th><th>NOV</th><th>DEC</th></thdurac<></thduraction<></thduraction<>	Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN	JUL	AUG	SEP	ост	NOV	DEC
The Transmission System The Transmission System Syst											33	34		36	37 2 9 16 23	38 30 6 13 20	39 27 4 11
280029 RCFE NB - Install Smoke detedor @ N1-NS 10 05EPV6 0 0 10 228 -28 280030 RCFE NB - FS Wiling & Terminution 24 115EP06 100CT06 0 0 24 40 28 280030 RCFE NB - Earthing: Lighting: Equipt. © CL 44 28UN08A 100CT06 0 0 24 48 -24 280034 RCFE NB - Earthing: Lighting: Equipt. © CL 44 28UN08A 0 0 0 24 48 -24 280034 RCFE NB - HX & LV & LV Cabing Works © C Trough 38 21AUG66 0 0 38 42 -54 280034 RCFE NB - TW & LV Cabing Works © C Trough 38 25EP06 0 0 30 42 -54 280034 RCFE NB - Twall Power Diam Panels & Test 30 302CT66 80 0 40 42 -30 280046 RCFE NB - Twall Power Diam Panels & Test 30 302CT66 25 9 79 42 -30 280047 RCFE SB - MACCOSURE (Stath Baund) - EAM WORKS	Fire Prot	ection System	1					1		•							
Bassian RCFE NB - FS Wining & Termination 24 11SEP06 10OCT06 0 24 40 -28 Bestimit With 280048 RCFE NB - Enductors for Lightings & Calling Level 60 30MAY05A 23SEP06 50 0 9 42 60 280048 RCFE NB - Enthing, Lighting, Equipt, B2 CL 48 24MA6A 100CT06 50 0 24 48 244 280048 RCFE NB - Enthing, Lighting, Equipt, B2 CL 48 24MA6A 100CT06 50 0 24 48 244 280048 RCFE NB - Conduits Works & Colling Level 32 23SEP06 0 0 36 42 40 280048 RCFE NB - Conduits Works & Colling Level 32 23SEP06 0 0 30 42 54 280047 RCFE NB - Conduits Works & Colling Level 36 23SEP06 0 0 30 42 54 280048 RCFE NB - Conduits Works & Colling Level 30 30CT6 50NV06 0 0 79 <td>28002</td> <td>6 RCFE NB - FS Conduit, Hose Reel Cabinets & Eqpt.</td> <td>16</td> <td>31JUL06A</td> <td>05SEP06</td> <td>10</td> <td>0</td> <td>14</td> <td>-40</td> <td>-28</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>	28002	6 RCFE NB - FS Conduit, Hose Reel Cabinets & Eqpt.	16	31JUL06A	05SEP06	10	0	14	-40	-28		-					
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	28011	2 RCFE SB - HV & LV Cabling Works @ C Trough	36	21AUG06	30SEP06	0	0	36	-92	-54			-				

Act.	Activity	Orig	Early	Early	%	Target 1	Rem	Total	Variance	JUN 33	JUL 34	AUG 35	SEP 36	0CT 37	NOV 38	DEC
ID	Description	Dur	Start	Finish	Compl.	% Comp	Dur	Float	Early Finish		• •		28 4 11 18 25			7 4 11
Electrical \	Vorks															
280118	RCFE SB - Conduits Works @ Ceiling Level	36	29AUG06	08NOV06	0	0	36	-92	-60							
280120	RCFE SB - Earthing, Lighting, Equipt. @ C/L	48	29AUG06	08NOV06	0	0	48	-92	-48	1						
280114	RCFE SB - Install Power Distn Panels & Test	30	03OCT06	08NOV06	0	0	30	-92	-54	\leq			-			
280124	RCFE SB - Tunnel Signage, Wiring, Term & Test	40	09NOV06	27DEC06	0	0	40	-92	-30		>					
T3 UND	ERPASS															
Kiosks S	2 at T3 Underpass Portal															
EM3980	Kiosk S2 - Structure & Fittings	24	21AUG06	16SEP06	0	0	24	-106	-70							
EM4000	Kiosk S2 - Install E&M Works	18	18SEP06	10OCT06	0	0	18	-106	-70	_						
EM4002	Kiosk S2 - E&M Testing and T&C	6	11OCT06	17OCT06	0	0	6	-106	-70]	_					

APPENDIX M COMPLAINT LOG

Appendix M - Complaint Log

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40426	Butterfly Valley	26 April 2004	A public noise complaint was recently received by EPD. The complaint was related to the noise generated from the Route 8 – ENT site near Butterfly Valley at the night time on 21 April 2004. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 April 2004.	 <u>Noise at night time</u> The information provided by the RSS indicated that no works were undertaken by the Contractor during the concerned period. The concerned noise might probably be due to a burglary case occurred at same night. <u>Noise during day-time</u> It is believed that the day-time noise complaint was due to the site formation works of the Project. Considering the powered mechanical equipment used at the Butterfly Valley and the echo effect of the valley, ET believe that the day-time construction noise from the site at Butterfly Valley might cause nuisance to the nearby resident to some extent, though there was no noise level exceedance at the Government Quarters during our routine monitoring in last three months. The Contractor agreed to implement mitigation measures, including good site practices, selecting quieter plant and working methods and reduction in numbers of noisy plant operating currently, in order to mitigate noise impacts at the NSRs. 	Closed
40914	Garden Villa	13-Sep-04 (by EPD) 14-Sep-04 (by ET Leader)	Environmental Protection Department (EPD) received a public noise complaint on 13 September 2004 about construction noise generated from the Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project, nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 14 September 2004. The complaint was about general construction noise generated from a construction site nearby Garden Villa at Tai Po Road, Sha Tin. As informed by EPD,	 <u>Environmental Permits</u> A Construction Noise Permit (No. GW-RN0405-04) was obtained by the Contractor for the use of powered mechanical equipment (PME) in the concerned works area and use of TAR no.1 during restricted hours. <u>Blasting Works</u> According to the information provided by the Resident Site Staff (RSS), for carrying out blasting works, a blasting permit should be issued by the Mines Division of Civil Engineering and Development Department (CEDD), but not under the jurisdiction of EPD. The CNP issued by EPD only specified the use of PME but not the blasting works during restricted hours. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			 the complainant was particularly concerned of two issues: The complainant was informed by the Contractor (Leighton – Kumagai Joint Venture) that blasting works would be conducted during restricted hours. He worried about the noise nuisance would be induced by the blasting works. Noise nuisance from some site vehicles traveling on the Temporary Access Road (TAR no.1) near Garden Villa was noted by the complainant during restricted hours. 	As advised by the RSS, the Contractor did intend to apply for a permit to the Mines Division of CEDD for blasting works during restricted hours. However, up to the time of preparation of this report, the Contractor still had not obtained the approval from the Mines Division and therefore, no blasting works were performed by the Contractor during restricted hours. <u>Use of TAR no.1</u> According to Condition 3d of the above-mentioned CNP, there was restriction on the use of site vehicles traveling on TAR no.1. The usage of site vehicles on TAR no.1 in a 2-week period before the date of complaint, i.e. 30 th August to 12 th September 2004 showed that the only vehicle type using TAR no.1 for the concerned period was concrete truck and the number of vehicle pass was limited to 4 times per hour, which was in compliance with the above CNP's conditions. Regular noise monitoring was undertaken by ET at Garden Villa on 30 th August and 6 th September 2004 during restricted hours (1900 – 2300 hours). The monitoring results were 58.7 dB(A) and 58.6 dB(A), respectively, which were below the noise limit level of 60 dB(A). However, it should be noted that site vehicles were not used by the Contractor on TAR no.1 during restricted hours on these two monitoring day. Based on the information obtained, the validity for the noise complaint in associated with night-time blasting works could not be concluded under ET's investigation, since no blasting works had been performed by the Contractor during restricted hours at the time of the report preparation. Also, it should be highlighted that for carrying out blasting works, permission should be obtained by Mines Division of CEDD, but not under the control of EPD. For the use of TAR no.1, the RSS's records showed that the number of vehicle pass in the period between 30 th August and 12 th September 2004 was complied with the CNP's conditions. It should be noted that only a maximum of 3 concrete trucks	

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Environmental Protection Department	 passing the site entrance was recorded. Therefore, it was considered that the nuisance noted by the complainant was not due to the site vehicles adopted by the Contractor (LKJV). Nevertheless, the Contractor was reminded to ensure the compliance of the CNP conditions and adopt good site practice to minimize the construction noise. According to the information provided by the RSS, no 	
41021	Garden Villa	09-Oct-04 (by EPD) 21-Oct-04 (by ET Leader)	 (EPD) received a public noise complaint on 9 October 2004 about construction noise generated from the Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project, nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 21 October 2004. The complaint was about nighttime construction noise generated from a construction site nearby Garden Villa at Tai Po Road, Sha Tin. As informed by EPD, the complainant was particularly concerned of two issues: Construction works undertaken by the Contractor (Leighton–Kumagai Joint Venture) were noted after 2300 hour. Some workers were noted leaving the site through Temporary Access Road (TAR) no.1 at around 2 am, causing nuisance to the residents in Garden Villa. 	 construction activity was undertaken in the nighttime period (2300 – 0700 hours) at the concerned site area. LKJV did admit that some vehicles had been operating at midnight for transporting LKJV's survey workers from the site. Inconsiderate behaviors were noted causing nuisance to Garden Villa residents: Driving the vehicles too fast, which generated excessive engine noise; Noise inside the vehicles (such as staff talking or radios) escaping through the open vehicle windows; and Vehicle beeping horn to request the guards to open the gate. In order to rectify the situation, LKJV had notified the relevant staff with the receipt of the complaint and urged them to take appropriate measures when using TAR1 at night: to drive slowly in order to reduce the engine noise, especially when approaching Garden Villa; to roll up the vehicle windows to contain any noise from talking or radios; and 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
41023	Government Quarters (Butterfly Valley)	20-Oct-04 (by MHJV) 23-Oct-04 (by ET Leader)	A public complaint was received by the Engineer's Representative (ER) of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project on 20 th October 2004. The complaint was raised by a resident of the Government Quarters at Caldecott Road, concerning dust generation as a result of the construction activities at Butterfly Valley. The ER subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 rd October 2004.	 The complaint was considered valid based on: ER's site observations; ET's weekly site audit; and 1-hr TSP exceedance record. Also, the sources of dust generation were identified as 2 portions of the haul roads, one at Slope BV-S2 and one linking between South Portal Tunnel to Mui Kong Tsuen, were found to be dry. Dust impact due to the haulage of excavated materials at the South Portal. Enhanced dust suppression measures had been implemented by the Contractor: added rockfill to the haul road between South Portal Tunnel and the Gully fill area; maintained watering to haul road at Slope BV-S2; requested the fill material supplier to ensure the material was in a damp condition before leaving quarry; provided for material not dampened at the Quarry to be directed to the wheel wash for water spray before entering the site; when cleaning drill holes along slope BV-S4 to ensure adequate water was available for flushing to suppress dust emission; AND provided damper stockpiles of cleared material at BV-S2 before loading. Based on ER's site observations, most of the above mitigation measures have been implementing by the Contractor. Also, an additional water browser was delivered to site on 29th Oct 04. No significant fugitive dust emission has been found. During ET's site inspections on 27th Oct and 3rd Nov 2004, the situation was found improved. No deficiency relating to air quality impact was noted by ET during the two audit sessions. The results of air quality monitoring (1-hr and 24-hr TSP) in the period between 21st Oct and 2nd Nov 2004 were all found to be complied with the Action / Limit Levels. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
41124	Government Quarters (Butterfly Valley)	21-Nov-04 (by LKJV) 24-Nov-04 (by ET Leader)	A public complaint was received by the Contractor of Route 8 – Eagle's Nest Tunnel and Associated Works (R8- ENT) Project on 21 st November 2004 (Sunday). The complaint was concerned about excessive noise generation from construction machinery at Butterfly Valley on the same day. The Engineer's Representative (ER) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 24 th November 2004.	According to the ER, the only construction activity at Butterfly Valley undertaken on 21 st Nov 04 was formation of access road near Slope BV-S2. The activity only involved operations of 1 no. of excavator and 1 no. of dump truck with grab, which complied with the condition stipulated in a valid CNP GW-RW0484-04, which was hold by the Contractor. Routine noise monitoring was conducted on 21 st and 28 th Nov 2004 at NM6. All the measured noise levels (48.5 to 56.4 dB(A)) were well below the noise limit level. In addition, the measurement results were within the baseline noise level. Therefore, the complaint was considered to be invalid. Nevertheless, the Contractor was reminded to ensure the compliance of the conditions stipulated in CNP. The Contractor was also recommended to adopt good site practice in order to minimize the construction noise.	Closed
41201	Government Quarters (Butterfly Valley)	01-Dec-04 (by MHJV & ET Leader)	A public complaint was received by the Engineer's Representative (ER) of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project on 1 st December 2004. The complaint was raised by a resident of the Government Quarters at Caldecott Road, concerning dust generation at Butterfly Valley. The Environmental Team (ET) of the Project was informed with the complaint on the same day. The resident complained that a large portion of the excavated slopes was not properly covered, which caused dust nuisance to her.	 The complaint was considered valid based on: ER's site observations; ET's weekly site audit Upon receipt of the complaint, a series dust control measures had been implemented by the Contractor, such as covering of the exposed slopes with appropriate sheeting, regular watering to the haul roads and excavated slope faces, etc. During the ET's weekly site audit on 08-Dec-04 together with the representative of HyD, IEC, ER and the Contractor, the above mitigation measures were observed. The idle slopes at BVS2 had been covered by tarpaulin sheeting and erosion mat. The left exposed slope surfaces at BVS2 were under excavation, thus being unable to be covered. According to the ER, the complainant has expressed his satisfaction to the site condition on 07-Dec-04, after the implementation of dust mitigation measures by the 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Contractor. However, owing to the prevailing of the dry season, the Contractor was reminded to ensure the dust control measures are effectively implemented.	
50125	Garden Villa (North Portal)	21-Jan-05 (by EPD) 25-Jan-05 (by ET Leader)	 Environmental Protection Department (EPD) received a public noise complaint on 21 January 2005 about construction noise and dust generated from the Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project, nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 25 January 2005. The complaint was about construction noise and dust generated from a construction site nearby Garden Villa at Tai Po Road, Sha Tin. The complainant was particularly concerned of two issues: Noise from tunnel blasting work carrying out at around 7:30am and 10:00pm; and Dump trucks without covering of canvas when leaving the construction site. 	 Noise from blasting For carrying out the blasting, the Contractor had obtained the permit from relevant authority. The ET's noise monitoring results did not show any exceedance for the measurement taken when blasting was in place. It should be highlighted that for carrying out blasting works, permission should be obtained by Mines Division of CEDD, but not under the control of EPD. In order to minimize the nuisance from the works, the Contractor was recommended: To inform the residents around the area about the time of blasting in advance; and To re-schedule the blasting time table, if possible, in order to avoid nuisance. Uncovered dump trucks In order to evaluate the situation, two inspections were carried out by the ET at Garden Villa on 27-Jan and 28-Jan-05 to identify the dump trucks leaving the site with uncovered load. On 27-Jan-05, 3 nos. of trucks, which were working for ENT Project, was noted by-passing Garden Villa without proper cover. Enhanced control (penalty system) was implemented by the Contractor after the inspection on 27-Jan. During the inspection on 28-Jan-05, 24 nos. of dump trucks for ENT Project were found leaving the site. No non-compliance was noted for the trucks working for ENT Project. LKJV was reminded to keep closely monitoring on the condition and the effectiveness of the proposed control measures. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50308	Garden Villa (North Portal)	05-Mar-05 (by EPD) 08-Mar-05 (by ET Leader)	 EPD received a public complaint on 5 March 2005 about construction noise and dust generated from the construction sites of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) and Route 8 - Sha Tin Heights Tunnel and Approaches (R8-SHT), nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 8 March 2005. The complaint was about construction noise and dust generated from the construction sites nearby Garden Villa at Tai Po Road, Sha Tin. The complainant was particularly concerned of the following issues: Nighttime & Sunday construction noise Noise from tunnel blasting at early morning and nighttime Dust from construction activities 	 Nighttime & Sunday construction noise no exceedance for noise monitoring restricted hour works were found complied with the CNPs records of vehicular trips on TAR1 did not show non-compliance of CNP conditions Noise from tunnel blasting at early morning and nighttime no exceedance for noise monitoring valid blasting permit had been obtained from CEDD blasting work is not under the jurisdiction of EPD Dust from construction activities dump trucks with uncovered / inadequately covered materials were observed leaving site no exceedance for TSP monitoring enhanced dust suppression measures had been implemented by the Contractor Conclusions The complaint against the dust issue (uncovered / inadequately covered dump trucks) was considered justifiable The Contractor was reminded to review the current checking system. Continuous spot checks would be performed by ET and RSS. 	Closed
50330	Garden Villa (TAR1)	30-Mar-05 (by EPD & ET Leader)	Environmental Protection Department (EPD) received a public complaint on 30 th March 2005 about construction noise from the sites of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) near Garden Villa at Tai Po Road, Sha Tin. The complaint, which was lodged by a resident of Garden Villa on 29 th March 2005, was about the noise generated by heavy vehicles traveling in and out of the construction site near Garden Villa. According to the complaint, the noise was made from 7am onwards.	The site of concern was likely to be the Temporary Access Road no.1 (TAR1) connecting Tai Po Road and the construction sites of R8-ENT and Route 8 - Sha Tin Heights Tunnel and Approaches (R8-SHT). The time period of concern was within normal working hours (7am to 7pm) on a weekday not being holidays. According to the EM&A Manual, the criterion of construction noise in term of L_{eq} -30min within this period is 75 dB(A) for domestic premises. Since the commencement of the Project, no exceedance of daytime noise criterion of 75 dB(A) was recorded at Station AM3 (Garden Villa). During the 2-hour measurement period of the ad-hoc monitoring (0700-0900 hrs), all the measured noise levels (L_{eq} -30min) were below the daytime noise	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				 criterion of 75 dB(A). Based on the results of routine noise monitoring and the adhoc measurement on 1st April 2005 at Garden Villa, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaint lodged is therefore considered not justifiable. In order to minimize the nuisance generated by the vehicle use at Garden Villa, the Contractor has proposed to limit the frequency of trucks existing from TAR1 at a rate of one truck per minute during the time period of concern (7am to 8:30am). 	
50415	Government Quarters	09-Apr-05 (by EPD) 15-Apr-05 (by ET Leader)	The complaint, which was lodged by a resident of 7/F, 38B, 8-10 Caldecott Road (Governmental Quarters) on 9 th April 2005, was about the noise generated by the construction works at the Butterfly Valley during daytime. The complainant mentioned that the instant noise level taken by himself was 78 to 82 dB(A). EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 15^{th} April 2005. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being public holidays. According to the EM&A Manual, the criterion of construction noise in term of L_{eq} -30min within this period is 75 dB(A) for domestic premises.	 Governmental Quarters (Station NM6) is one of the designated noise monitoring stations in the EM&A programme. Routine monitoring is undertaken on a weekly basis in accordance with the EM&A Manual. Since the commencement of the Project, no exceedance of daytime noise criterion of 75 dB(A) was recorded at this station. Ad-hoc measurement was conducted at the complainant's premises on 22 Apr 05. The measured noise level was 69.0 dB(A), which was well below the daytime noise criterion of 75 dB(A). Based on the results of routine noise monitoring and the adhoc measurements conducted in the complainant premises, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaint lodged is therefore considered not justifiable. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50419	Government Quarters	15-Apr-05 (by EPD) 19-Apr-05 (by ET Leader)	The complaint was lodged by a resident of 8-10 Caldecott Road (Government Quarters) on 15 th April 2005 to EPD as well as the Chief Resident Engineer of the Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 19 th April 2005. The complainant mentioned that they had experienced quite a lot of noise emanating from the tunnel drilling area after 11pm over several nights and most particularly at the night of 14 th April 2005 and at 4am on 15 th April 2005.	The site of concern was likely to be the South Portal. For carrying out construction works at this area during restricted hours, two Construction Noise Permits (CNPs no. GW- RW0085-05 and GW-RW0086-06) were obtained by the Contractor in accordance with the requirements stipulated in Noise Control Ordinance. According to the information provided by the Resident Site Staff and the Contractor, the construction activities undertaken in the period between 11 th and 15 th April 2005 from 1900 to 0700 hours included drilling, breaking, trimming, set up of rock drill, installation of arch-rib and grouting. The powered mechanical equipment (PME) involved in the above works included backhoe, rock drill, loader, dumper, shot-crete machine, group pump, mobile platform and grout machine, which were covered by the CNPs. According to the routine monitoring results, for the time period between 2300-0700 hours, the measured noise levels exceeded the corresponding noise Limit Level of 50dB(A). However, the measured levels were found within the range of baseline level and below the average baseline level. Based on the routine noise monitoring results at Station NM6, the measured noise levels for the period between 2300-0700 hours were below the baseline noise level, which was comparable to the ambient level. According to the RSS's record, the PME items operated during the concerned period were found covered by the 2 CNPs hold by the Contractor. Based on the available information, there is not enough evidence to prove whether the complaint against nighttime construction noise generated in the concerned period (11 th to 15 th April 2005) is justifiable or not.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50512	Yew Chung International School	12-May-05	On 11 May 05, a notice was sent to Yew Chung International School (YCIS) by the Contractor, providing their tentative blasting schedule on 12 May 05. It was shown that one of the blasting operations was scheduled at 09:30am, at when an examination was being held in YCIS. Upon receipt of the notice, a representative of YCIS lodged a complaint to the Contractor via the Project's hotline at 07:40 on 12 May 2005. The complainant expressed her objection to the blasting operation taken at 09:30am when the examination was taken place. The Contractor then agreed on one occasion only to delay the tunnel blast planned for 9:30am until 9:50am (i.e. 5 min after the examination). The complainant satisfied but did expect no future blasting during the examination period. According to the Engineer's Representative, the Contractor did not wish to make any commitment to ensure no blasting would be taken within the examination period.	A 1-day continuous noise measurement was conducted by the Environmental Team at Station NM1 on 26 May 05. According to the ER's record, two blasting operations were taken in the vicinity of YCIS on 26 May 05. One surface blast was taken at Butterfly Valley at 15:42 and one tunnel blasting was taken at South Portal at 16:56. The measurement results showed that the noise impact in term of Leq-5min and Leq-30min arising from the blasting operations was insignificant. No exceedance of construction noise criterion for examination period was recorded (Leq- 30min < 65dB(A)). The complaint lodged was therefore considered not justifiable. However, in order to minimize the potential nuisance arising from the blasting noise and the siren sounds prior to blasting, the Contractor was recommended to consider scheduling the blasting operations beyond the examination periods.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50610	Government Quarters	10-Jun-05	On 10 June 2005, the Resident Site Staff (Maunsell-Hyder Joint Venture) received a complaint from a resident of the Government Quarters at Caldecott Road. The complaint was concerned about the construction dust generation as a result of the construction activities of the Project at Butterfly Valley. The complainant had not specified which construction activities had contributed to the dust generation.	 Site Observations According to the RSS's preliminary investigation, it was considered that soil nailing at Slope BV-S2 was the dominant dust source and was likely to be the activity of concern. The dust suppression measures taken were found inadequate to control the dust dispersion from the works. Noticeable dust dispersion from the soil nailing work could be observed. <i>Corrective Actions</i> After the Contractor was notified by the RSS of the complaint, immediate action was taken by the Contractor on the same day (10 June 2005). The dust mitigation measures for the soil nailing were enhanced. An additional thicker cover was used. Also, continuous water spray was applied to suppress the dust emission. <i>Environmental Outcome</i> The RSS made a response to the complainant on 10 June 2005. The complainant was informed of the rectification actions taken by the Contractor. No further adverse comment was received from the complainant. <i>Conclusions</i> Based on the RSS's information, this complaint is considered to be valid and related to the construction activities of the Project. However, corrective action had been taken by the Contractor immediately and the situation was found improved. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50712	A scattered house near South Portal and Tai Po Road Water Treatment Works Staff Quarters	12-Jul-05	On 12 July 2005, a resident, whose house is located near South Portal and Tai Po Road Water Treatment Works Staff Quarters, lodged a complaint to the Contractor via the Project's hotline at 11:40am. The complainant expressed his concern on the nuisance caused by the blasting works at early morning (before 07:00 hours) and late night (after 23:00 hours).	 Site Activity According to the information provided by the RSS, tunnel blasting works have been taken place in the concerned period in north bound tunnel from the Ventilation Adit towards the direction of the South Portal. Environmental Requirements In the EP, the EM&A Manual of the Project and the NCO, no requirement is specified for the control of blasting operation and the associated environmental impact, such as blasting noise. It should be highlighted that for carrying out blasting works, permission should be obtained by Mines Division of CEDD, but not under the jurisdiction of EPD. For carrying out the above-mentioned blasting operations, the Contractor has obtained a valid blasting permit from CEDD under the Dangerous Goods Ordinance (Cap. 295). Under this permit, the Contractor is allowed to carry out 24-hour blasting works within the designated area. Contractor's Actions Though the blasting noise is not under the control of any environmental related regulation and the Contractor is allowed to carry out 24-hour blasting, the Contractor would try to keep the blasts of concern undertaken between 07:00 to 23:00 hours. This arrangement could effectively reduce the potential nuisance to the residents within the more sensitive time period (23:00 to 07:00 on next day). Conclusions The subjected blasting operations were carried out by the Contractor under a valid blasting permit. The complaint lodged is therefore considered not justifiable. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50809	Government Quarters (8-10 Caldecott Road)	09-Aug-05	On 9 August 2005, a resident of 8-10 Caldecott Road (Government Quarters) lodged a complaint to the Contractor via the Project's hotline at 14:30. The complainant expressed her concern on the nuisance caused by the blasting works undertaken at Butterfly Valley. Noise impact arising from the blasting works was one of the issues raised by the complainant.	Ad-hoc Noise Measurement An ad-hoc noise measurement was carried out on the roof of Government Quarters during a surface blast on 16 August 2005. According to the record of the RSS and the site observation, a surface blasting was undertaken at Butterfly Valley at around 15:38 on the monitoring day. The results show that the measured noise level in term of Leq- 30min, i.e. 69.1 dB(A) during the surface blasting was well below the daytime construction noise criterion of 75 dB(A). <i>Conclusion and Recommendation</i> According to the results of ad-hoc noise measurement taken at Government Quarters on 16 August 2005, the measured noise levels (Leq-30min) did not exceed the noise criterion of 75 dB(A). In addition, the subjected blasting operations were carried out by the Contractor under a valid blasting permit. For the concern of noise impact, the complaint was considered not justifiable.	Closed
50830	Government Quarters (8-10 Caldecott Road)	30-Aug-05	 The RSS received a public complaint from a resident of Government Quarters addressing two noise issues: 1. Noise nuisance caused by drilling works at Butterfly Valley; 2. Noise nuisance due to blasting 0045 hrs of 28 August 2005. 	Noise Measurement No exceedance was recorded for the routine noise monitoring at NM6 (Government Quarters). Ad-hoc noise measurement was conducted on 1 and 2 Sept 05. All measured noise levels complied with the noise criteria. Conclusion The complaint was considered not justifiable. However, the Contractor had taken proactive actions in order to minimize the nuisance of the residents, (1) to stop the rock breaking works at BVS2 and (2) to install temporary noise barriers for drilling works.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50928	Government Quarters (8-10 Caldecott Road)	28-Sept-05	A resident of Government Quarters complaint about a blast undertaken at 0215hr on 28 Sept 05.	 Environmental Monitoring After receiving the complaint, the ET carried out a continuous noise measurement at Station NM6 (Government Quarters) from 29 to 30 September 2005. All the measured noise levels in term of Leq-5min are close to the baseline noise level. The noise levels after correction of baseline levels were all below the noise criterion of 50 dB(A). Conclusion The subjected blasting operations were carried out by the Contractor under a valid blasting permit. In addition, no noise exceedance was recorded for the ad-hoc noise monitoring. The complaint lodged is therefore considered not justifiable. 	Closed
51025	Caldecott Hill (2 Caldecott Road)	25-Oct-05	A public complaint was received by the MWPMO of Highways Department on 25 October 2005. The complaint was subsequently refereed to the RSS and Environmental Team of Route 8 – Eagle's Nest Tunnel and Associated Works (R8- ENT) Project. The complaint was lodged by the management company of Caldecott Hill (No.2 Caldecott Road). It was about dust generation when construction vehicles, particularly dump trucks and concrete trucks, traveling along the Water Treatment Works (WTW) access road and its junction with Caldecott Road. According to the photos provided by the complainant, noticeable dust generation was observed during construction vehicles movement on the roads of concern.	 Site Observations Ad-hoc site inspections were carried out on 25 and 26 Oct 05. On 26 Oct 05, the WTW access road was observed dry. Deposition of dusty materials was noted. Significant dust generation was identified during vehicle movement. <i>Contractor's Actions</i> Mitigation actions were taken by the Contractor: One labour was appointed to water spray the concerned road junction and clear up of dusty materials deposited on the WTW access road. Regular watering on access road by hose pipe was performed to keep the road wet. All vehicles would be wheel-washed and loads of dusty materials would be covered before leaving the site. <i>Conclusions</i> Based on the site observations, this complaint was considered to be valid and related to the Project works. However, enhanced dust mitigation measures were taken by the Contractor and the situation was found improved. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
51031	Po Leung Kuk Choi Kai Yau School	31-Oct-05	The resident site staff (MHJV) of R8-ENT received a complaint from the Principal of PLKCKY School. She commented that the blasting noise (nighttime and daytime) at Butterfly Valley became louder than before.	An ad-hoc noise measurement was taken by ET on 5 Nov 05 to evaluate the noise impact due to daytime surface blasting at the BV. The measurement results revealed that there has been no exceedance of noise level criteria. The complaint was therefore considered not justifiable.	Closed
51101	Butterfly Valley (Government Quarters)	1-Nov-05	 On 1 Nov 05, the Resident Site Staff received a complaint from a resident of the Government Quarters. On 2 Nov 05, a complaint of similar natures and same location was received by the Environmental Protection Department. The complainant was concerned about the following environmental issues: 1. Noise nuisance due to tunnel blasting works undertaken at midnights and in early mornings (3am to 5am); 2. Noise nuisance due to operation of a generator after 11pm; 3. Construction dust and daytime noise due to processing and stockpiling of crushed rocks at Butterfly Valley; 4. Noise nuisance due to works outside tunnel in the early morning of 2 Nov 05. 	Item 1: Noise nuisance due to tunnel blastingFor carrying out the above-mentioned blasting operations, theContractor has obtained a valid blasting permit from CEDD.Under this permit, the Contractor is allowed to carry out 24-hour blasting works. As advised by the Contractor, all theblasting operations had been completed by 12 Nov 05.Item 2: Noise due to operation of a generator after 11pmAccording to the Construction Noise Permit issued by EPD,one generator was allowed to be operated after 11pm at SouthPortal area outside the tunnel. In view of the provision ofacoustic enclosure and the separation distance from thegenerator to Government Quarters (around 300m), the noiseimpact arising from this generator onto the residents of theQuarters was believed to be insignificant. During the ET'sinvestigation on 11 Nov 05, no engine-like noise generatedfrom the construction site could be identified.Item 3: Dust and noise due to handling of crushed rocksNo noise exceedance was recorded. During the weekly siteinspections, deficiencies regarding inadequate dust mitigationmeasures for the crushed rock processing and stockpiling wereoccasionally observed. Dry / uncovered stockpiles and dustemissions from crushed rocks handling were sometimes noted.Item 4: Noise from works out of tunnel in morning of 2 Nov 05According to the RSS's site records, there has been no activityoutside the tunnel in the early morning of 2 November 2005.Work was undertaken deep inside the tunnel during theconcerned period. The mentioned noise musance might not be<	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<u>Conclusion</u> Based on the information obtained, environmental monitoring results and site observations, this complaint was considered not justifiable, except for the concern of dust nuisance due to crushed rock processing.	
51205	Caldecott Road junction	5-Dec-05	The complaint was lodged by the management company of Villa Carlton. The complainant mentioned that several complaints from the occupants of Villa Carlton were received, against the dust emission when they drove to Kowloon via the Caldecott Road Junction. She also considered that the amount of water spraying by the Contractor was insufficient to suppress dust emission at Caldecott Road Junction.	 <u>Complaint Record</u> A similar complaint (Log no. 51025) was received on 25 Oct 05 from Caldecott Hill. Significant dust emission was noted when construction vehicles traveling along the WTW access road and its junction with Caldecott Road. With implementation of enhanced dust mitigation measures, the situation was found improved and satisfactory. <u>Site Observations</u> Since Nov 05, in order to observe the Contractor's actions taken for the above-mentioned complaint, the area of interest was included during the weekly environmental audit. No deficiency had been noted at this area during the audit. After receiving this new complaint (Log no.51205), several ad-hoc site inspections were carried out on 6, 8 and 14 Dec 05. In addition, the RSS of the Project had carried out daily checking of the condition of the Caldecott Road Junction. Sufficient dust mitigation measures had been implemented by the Contractor. The condition was found satisfactory. Therefore, this complaint was considered not justifiable. However, it is noted that the Contractor had stepped up dust mitigation measures to further improve the condition at Caldecott Road junction. 	Closed

Log Ref	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
60204 Ga	Garden Villa	4-Jan-06 (by ETL)	 A public complaint was received by the Environmental Protection Department on 3 January 2006. The complaint was subsequently referred to the Environmental Team of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project on 4 January 2006. According to EPD's information, the complaint was lodged by a complainant, who walked along Tai Po Road on 1-2 January 2006. The following information was given by EPD for our investigation: Time of concern: 1-2 January 2006 (Daytime) Suspected site area of concern: ENT's Toll Plaza and Administration Building. Dust and noise nuisance was noted by the complainant when he passed Garden Villa. Noise from wood saw and crane or alike was noted. 	 A. Construction Noise Impact According to the Contractor's information, construction activities were carried out on 1 and 2 Jan 06, including: Erection and dismantling of formwork Fixing water pipe All the equipment operated by the Contractor on 1-2 Jan 06 complied with the permissible equipment stated in the CNP. On 1 Jan 06, noise monitoring was carried out. All the results complied with the noise criterion. B. Construction Dust Impact Erection and dismantling of formwork and fixing water pipe were considered not dust emissive in nature. For stockpiles of materials in Toll Plaza area, dust mitigation measures had been implementing by the Contractor. The condition in term of dust control was found satisfactory during the audit sessions on 4 and 11 Jan 06. Since December 2005, all TSP monitoring results complied with the Action / Limit Level. Conclusion Based on the information given, site observations and environmental monitoring results, this complaint was considered not justifiable. Nevertheless, the Contractor was reminded to adopt good site practice to minimize the environmental impacts at the nearby sensitive receivers 	Closed