MONTHLY MONITORING REPORT

Highways Department

Route 9 Between Tsing Yi and Cheung Sha Wan - Phase 1 Ngong Shuen Chau Viaduct: *Monthly Monitoring Report*

October 2002

Environmental Resources Management

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EP - 085/2000/C Route 9 Between Tsing Yi and Cheung Sha Wan Phase 1 Ngong Shuen Chau Viaduct

Monthly Monitoring Report October 2002

Certified by the Environmental Team Leader Environmental Resources Management

Verified by the Independent Environmental Checker Hyder Consulting Ltd, Environmental Division

Signed: P.S. Cham Date: 11/10/02

Associate Director

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EXECUTIVE SUMMARY

This is the second monthly Environmental Monitoring and Audit (EM&A) report for the Project HY/2000/21 - Route 9 Ngong Shuen Chau Viaduct. This report presents the results of the EM&A works conducted during the month of September 2002 (between 29 August 2002 and 28 September 2002) in accordance with the EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

During the month of September 2002, the following construction activities have taken place:

- Site Clearance:
- Site investigation;
- Traffic and utilities diversions;
- Hoarding erection;
- Tree transplanting; and
- Bored piling at Area P1-SA6 and P1-SA13.

No construction works were carried out during the restricted hours (General Holiday including Sundays between 0700 to 0700 hours of next day and any day not being a general holiday between 1900 to 0700 hours of next day) during the reporting period.

Monitoring of 24-hour Total Suspended Particulates (TSP) and noise was performed and the results were checked and reviewed. Site audits were conducted on a weekly basis. The implementation of environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also reviewed.

Air Quality

For 1-hr. TSP monitoring, a total of 30 sets of measurement were carried out during the reporting month and all were below the Action and Limit (AL) Levels.

For 24-hr. TSP monitoring, a total of 10 sets of measurement were carried out during the reporting month and all were below the AL Levels.

Noise

Daytime Monitoring

A total of 10 sets of $L_{eq}(30min)$ measurement during Daytime (i.e. 0700 to1900 hours on normal weekdays) were carried out during the reporting month and all measured levels were below the Action and Limit (AL) Levels.

Evening-time and night-time Monitoring

Since no construction works were undertaken during evening/night-time, therefore no noise monitoring was carried out for these periods during the reporting month.

Waste Management

Approximately 483 m³ of Excavated Materials were produced on-site and have been delivered to the government approved public filling area in Tuen Mun Area 38 during the reporting month.

Approximate 113.79 tones of C&D Wastes were produced on-site and have been delivered to the WENT and SENT landfills during the reporting period.

Site Inspection

Weekly site inspections were undertaken by the ET and the major findings are summarized as follows:

Item	Findings	Proposed Mitigation Measures	Environmental Outcome
1	Mud water overflow was observed at Area P1-SA13 (CC402).	Divert effluent for proper treatment before final discharge to public drains.	Temporary measures were employed. De-silting facilities being arranged by CHEC.
2	Accumulation of rubbish was observed next to the site office.	Rubbish shall be collected in waste skip and removed from site regularly.	Rubbish was removed from site.
3	Accumulation of water in bunds at chemical/fuel storage area was observed.	Contaminated water collected and disposed of properly.	The wastewater was collected and temporary stored at the chemical waste storage area.
4	Idling equipment was observed at P1-SA13 (CC402).	Idling equipment should be switched off whole not in use.	The idling equipment was switched off accordingly.
5	Site runoff accumulate on- site especially in wheel washing bays.	Site runoff should be diverted to temporary sedimentation tanks for treatment before discharge.	Temporary measures were employed. Permanent drainage system and new wheel washing bays being arranged by CHEC.
6	Bottom of the hoarding not properly sealed.	Bottom of the hoarding should be properly sealed to prevent seepage of surface runoff from the site.	Hoarding properly sealed accordingly.

IEC Audit was carried out on 24th September 2002 and the major observations are as follows:

Item	Findings	Proposed Mitigation	Environmental Outcome
		Measures	
1	No protection was employed	Gully shall be surrounded	Sandbags have been placed
	for the gully next to the pre-	with sandbags to avoid	around the gully.
	drilling area at Area P1-SA13,	surface runoff from entering	
	Lin Cheung Road (NB43)	the drains.	
2	Stockpiles and exposed	Cover the stockpiles and	CHEC covered the stockpiles
	surface were not covered	exposed surface.	by tarpaulin accordingly.
	properly at Area P1-SA6		
	(facing KMB Depot)		
3	No protection was employed	The u-channel shall be	CHEC deployed sandbags
	for the u-channel next to the	protected using	around u-channel to avoid sand
	pre-drilling area (P1-SA13)	bund/sandbags.	and silty water from going into
			the drain.
4	Accumulation of rubbish was	Rubbish shall be collected	Rubbish was removed from site

	observed next to the site office	in waste skip and removed	accordingly.
		from site regularly.	
5	Oil stain near generator was	Clear up the oil stain and	The collected waste was
	observed at Area P1-SA13.	dispose of properly.	disposed of as chemical waste.
6	Engine oil bottles without drip	Engine oil shall be stored	The engine oil bottles were
	trays were observed at Area	properly and drip trays shall	removed from the area.
	P1-SA13.	be provided.	

Site inspections were conducted by EPD on 17 and 25 September 2002 and the Contractor was reminded to implement sufficient/adequate measures in order to properly handle the wastewater from the construction works and storm water runoff.

Environmental Licensing and Permitting

Permits granted to the Project include Environmental Permit for the Project and construction noise permits. Information of these permits is provided in *Table 5.1*.

Complaint Log

One environmental complaint was received during the reporting period.

There were totally 2 complaints received for the Route 9 Phase 1 Ngong Shuen Chau Viaduct contract since the commencement of the construction. All the complaint cases were handled in accordance with the complaint investigation procedures.

Notification of Summons and Prosecutions

No notification of summons and prosecutions regarding non-compliance of environmental performance of the construction site was received during the reporting period.

Future Key Issues

The tentative program of major site activities as well as the impact prediction and control measures for the coming three months, i.e. September to December 2002 are summarized as follows:

Construction	Major Impact	Control Measures
Works	Prediction	
Bore Pilling, pre-	Dust Impact	Regularly watering of haul road and unpaved areas;
drilling and		• Regularly watering or covering the open area/stock piles
excavation		with tarpaulin;
		Maintain onsite machinery and vehicles regularly;
	Generation of	The wastewater produced will be collected and recycled
	silty water	on-site.
		The footing of hoardings will be sealed to avoid untreated
		wastewater from entering the existing drainage system.
		• Divert the collected effluent to de-silting facilities for
		treatment before discharge to public drains.
	Noise Impact	Schedule of works if necessary to avoid persistent noisy
	110150 Impact	operation.
		Control the number of plant use on site.

1. INTRODUCTION

Environmental Resource Management Hong Kong Limited (ERM) was appointed by the Highways Department to undertake the role of the Environmental Team Leader for Route 9 between Tsing Yi and Cheung Sha Wan Phase 1 – Ngong Shuen Chau Viaduct" (hereinafter called the "Project").

Under the requirements of Section 4 of Environmental Permit EP085/2000/C, EM&A programme is required to be implemented as set out in the Environmental Monitoring and Audit (EM&A) Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

1.1 Purpose of the Report

This is the 2nd monthly EM&A report which presents the results and findings of all EM&A works for the Project between 29th August 2002 and 28th September 2002.

1.2 Structure of the Report

The structure of the report is as follows:

- Section 1: **INTRODUCTION** details the scope and structure of the report.
- Section 2: **PROJECT INFORMATION** summarizes the background and scope of the project, project organization, construction programme and the construction works undertaken during the reporting period.
- Section 3: <u>ENVIRONMENTAL MONITORING REQUIREMENTS</u> summarizes the monitoring programmes, Action and Limit Levels, Event Action Plans, environmental mitigation measures as recommended in the EIA Report and relevant environmental requirements.
- Section 4: <u>IMPLEMENTATION STATUS ON ENVIRONMENTAL</u>
 <u>PROTECTION REQUIREMENTS</u> summarizes the implementation of environmental protection measures during the reporting period.
- Section 5: ENVIRONMENTAL LICENCE AND PERMITTING
 REQUIREMENTS summarizes the environmental licences and permits obtained or being applied during the reporting period.
- Section 6: <u>MONITORING RESULTS</u> reports the monitoring results obtained in the reporting period.
- Section 7: <u>AUDIT RESULTS</u> summarizes the audit findings in the reporting period.
- Section 8: COMPLAINTS, NOTIFICATIONS OF SUMMONS AND PROSECUTIONS DURING THE REPORTING PERIOD summarizes the complaints, notifications of summons and prosecutions recorded during the reporting period.
- Section 9: <u>FUTURE KEY ISSUES</u> summarizes the future key issues as reviewed from the works programme and work method statements.
- Section 10: **RECOMMENDATIONS AND CONCLUSIONS**

2. PROJECT INFORMATION

2.1 Background

The Design and Construction Consultancy Assignment "Agreement No. CE72/98 Route 9 between Tsing Yi and Cheung Sha Wan" was awarded to Ove Arup and Partners Hong Kong Ltd (Arup).

The construction of the Phase 1 of the Route 9 Project comprises of the Ngong Shuen Chau Viaduct and its link with CT8, R9T Cheung Sha Wan – Shatin, and West Kowloon Highway, has been awarded to China Harbour Engineering Company (Group) (CHEC) on 10 April 2002. The construction works was commenced on 29th July 2002 and is scheduled to be completed by December 2006.

2.2 Site Description

Phase 1 works area is located in urban area. The sensitive receivers are mainly residential buildings and schools at Mei Foo Sun Chuen and the dwellings at Stonecutters Military Base. The works area is shown in *Appendix A*.

2.3 Project Organisation

The project organization chart and contact details are shown in *Appendix B*.

2.4 Project Work Programme

The project works programme for the coming three months is presented in Appendix C. The major site activities undertaken during the reporting month are summaries in Table 2.1.

Table 2.1 Site Activities undertaken from 29 August 2002 to 28 September 2002

Area	Details of Site Activities
P1-SA6	Excavation, Utility Diversion, Bore Piling and Site Investigation
P1-SA13 and 14	Hoarding Erection, Bored Piling and Site Investigation.
P1-SA15	Stockpile of excavated material to be reused on site.

3. ENVIRONMENTAL MONITORING REQUIREMENTS

3.1 Air Quality

Monitoring Requirements

Monitoring of 1-hour and 24-hour TSP was conducted to monitor the construction dust impact. *Appendix D1* shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Frequency and Schedule

The monitoring parameters and frequency are summarized in Table 3.1. The monitoring schedule for the reporting period is shown in Appendix E.

Table 3.1 TSP Monitoring Parameter and Frequency

Parameters	Duration / hour	Frequency	
24-hour TSP	24	Once Every Six Days	
1-hour TSP	1	Three Times Every Six Days	

Monitoring Locations

In accordance with the EM&A Manual and project specifications, two air quality monitoring locations were selected. Both 1 hour and 24-hour TSP monitoring were performed in the reporting month. The locations of the two monitoring stations are listed in $Table \ 3.2$ and are shown in $Appendix \ F$.

Table 3.2 TSP Monitoring Locations

Location I.D.	Description
ASR1	Lai Chi Kok Park at Mei Foo Sun Chuen (at the roof of the toilet block)
ASR2	DSD Pumping Station (in the proximity of Stonecutters Military Base)

Wind data monitoring was carried out at a conspicuous location for logging wind speed and wind direction near the dust monitoring locations. Weather station has been established at the Area P1-SA10 and the wind data was monitored since June 2002.

Monitoring Equipment

Continuous 24-hour and 1-hour TSP air quality monitoring was performed using a TE-5170 Tisch Environmental Inc. High Volume Sampler (HVS) was installed at each of the above monitoring stations. The sampler composed of a motor, filter holder, flow controller and a sampling inlet. Its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Wind data in terms of wind speed and direction was measured using wind data monitor. Details of the monitoring equipment are given in *Table 3.3*. A copy of the calibration certificate for the HVS and wind data monitor are attached in *Appendix G1* and *Appendix G2* respectively.

Table 3.3 Air Quality Monitoring Equipment

Equipment	Model	Qty.
HVS Sampler	TE-5170 Tisch Environmental Inc.	2
Calibrator	TE-5028A Tisch Environmental Inc.	1

Monitoring Procedures and Calibration Details

Calibration Procedures

Calibration procedures of HVS were as follows:

- A certified orifice transfer standard with a calibration curve was used for the calibration.
- The transfer standard was connected to the inlet of the sampler. The orifice manometer was then connected to the orifice pressure port. The manometer's connecting tubing was inspected to make sure that there are no leaks between the orifice unit and the sampler.
- The motor was then disconnected from the flow controller and plugged directly to an AC power source.
- A weather station has been setup at the Site Office to measure and record the ambient temperature, Ta (K) and the barometer pressure Pa (mmHg) during calculation.
- The sampler was allowed to run for at least 2 minutes to re-establish the run temperature conditions. The pressure drop across the orifice and the well-type manometer reading was recorded during calibration. The variable resistance was adjusted to repeat recording for four different flow rates.

• The best fit straight line was determined by linear regression and find the slope (m1), intercept (b1) and correlation coefficient (r).

Certificates for calibration is attached in *Appendix G3*.

Operating/Analytical Procedures

- The flow rate of the high volume sampler was set to about 1.1 m³/min 1.7 m³/min prior to commencement of the dust sampling in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- The samplers was located such that:
 - the filter was about 1.3 meters above ground.
 - it was greater than 20 meters away from trees.
 - it was separated from any obstacle by at least twice the height of the obstacle protruding above the sampler.
 - it has unrestricted airflow 270° around the sampler.
- Fibreglass filters were used for TSP sampling (G810) [Note: these filters have a collection efficiency of > 99% for particles of 0.3 mm diameter].
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was between 25°C and 30°C and not vary by more than ± 3 °C; the relative humidity was < 50% and not vary by more than ± 5 %.
- A new filter was placed with stamped number upward on a supporting screen.
- The filter was properly aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter.
- Shelter lid closed and catch secured with the aluminium strip.
- The sampler was then allowed to run for at least 5 minutes to establish runtemperature conditions.
- The flow indicator reading was recorded and the sampler flow rate was determined.
- The programmable timer was set and the starting sampling time, weather condition and the filter number was recorded.
- At the end of sampling, the filter was transferred from the filter holder of the HVS to a sealable plastic bag and sent to the laboratory for weighing. The elapsed time was also recorded.

• Before weighing, all filters were equilibrated in a desiccator for 24 hours with temperature of 25°C±3°C and the relative humidity (RH) 50%±5%, preferably 40%.

Maintenance

- The volume sampler and their accessories were maintained in good working condition, include replacing motor brushes routinely and checking electrical wiring to ensure continuous power supply.
- The high volume samplers were calibrated at bi-monthly intervals using TE-5028A Tisch Environmental Inc. Calibration Kit throughout all stages of the air quality monitoring.

Event/Action Plan

The Event/Action Plan for Air Quality is shown in *Appendix H1*.

3.2 Noise Quality

Monitoring Requirements

Noise monitoring was conducted at two monitoring stations to monitor the construction noise impact. *Appendix D2* shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Frequency and Schedule

Noise monitoring was conducted during the period of 07:00 to 19:00. The monitoring schedule is shown in *Appendix E*. The frequency and parameters of noise measurement are presented in Table 3.4.

Table 3.4 Noise Monitoring Frequency and Parameters

Time Period	Duration / min.	Parameters	Frequency
Daytime (0700 to 1900)	30 (6 consecutive L _{eq} (5min) in average)	L _{eq} , L ₉₀ & L ₁₀	Once per week

Monitoring Locations

In accordance with the EM&A Manual and project specifications, two noise monitoring stations (as detailed in Table 3.5 and shown in Appendix F) were selected for noise measurement.

Table 3.5 Location of the Noise Monitoring Stations

Location I.D.	Description	Type of measurement
NSR1	Lai Chi Kok Park at Mei Foo Sun Chuen (at the roof of the toilet block)	Free Field
NSR2	DSD Pumping Station (in the proximity of Stonecutters Military Base)	Free Field

Monitoring Equipment

Integrating Sound Level Meters were used for noise monitoring which were Type 1 sound level meters capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). Also, a portable electronic wind speed indicator capable of measuring wind speed in m/s was used to monitor the wind speed. *Table 3.6* summarises the

noise monitoring equipment used.

Table 3.6 Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	SC-30, CESVA
Calibrator	CB-5, CESVA
Portable Wind Speed Indicator	PWM1, Dwyer

Monitoring Procedures and Calibration Details

Field Monitoring

- The microphone of the Sound Level Meter (with weatherproof kit) was mounted on a tripod at a height of 2m above ground level.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- AC power supply was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weighting : Atime weighting : Fast

- time measurement : 30 minutes / 5 minutes

- Prior to and after each noise measurement, the meter was calibrated using the Calibrator for 94 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB (A), 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

- The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- The meter was sent to the supplier to check and calibrate yearly.

Calibration certificates are attached in *Appendix G3*.

Event/Action Plan

The Event/Action Plan for Noise impact is presented in Appendix H2.

4. IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status during the reporting period is summarized in *Appendix I*.

5. ENVIRONMENTAL LICENCE AND PERMITTING REQUIREMENTS

The status of the permits, licenses and EPD notifications for all relevant environmental issues for this project is summarized in *Table 5.1* of the reporting period.

Table 5.1 Summary of Environmental Licensing, Notification and Permit Status

Description	Permit	Valid	Period	Section	Status / Remarks
Description	No.	From	To	Section	Status / Kemarks
Environmental Permit	EP- 085/2000 B	15/04/02	-	Whole work site	Valid
Chemical Waste Producer Registration	WPN - 5213- 269- C3215-01	15/04/02	_	Whole construction site	Valid (for disposal of empty fuel/lubricant drums, scrap batteries, spent lubricating oil, diesel, mineral oil and solvent)
Waste Water Discharge License	EP482/26 9/0038/I	15/04/02	30/06/07	Whole construction site	Valid (carry out analyses on a quarterly basis)
Construction Noise Permit	GW- UE0352- 02	25/09/02	16/03/03	Lai Wan Interchange near West Kowloon Highway & Lai Po Road	Valid (Any day from 0700h - 2300h)
Construction Noise Permit	GW- UE0353- 02	25/09/02	16/03/03	Hing Wah Street West between Container Port Road South Roundabout	Valid (Any day from 0700h - 2300h)

Description	Permit	Valid	Period	Section	Status / Remarks	
Description	No.	From	To	Section	Status / Kemarks	
Construction	GW-	25/09/02	16/03/03	Construction	Valid	
Noise Permit	UE0354-			Site below West	(Any day from	
	02			Kowloon	0700h - 2300h)	
				Highway near		
				Hing Wah		
				Street West		
Construction	PP-	13/07/02	08/01/03	West Kowloon	Valid	
Noise Permit	UE0051-			Highway	(Any day not being	
	02			Flyover near	a general holiday	
				Hing Wah	from 0700h-	
				Street. West	1900h)	
Construction	PP-	13/07/02	08/01/03	Hing Wah	Valid	
Noise Permit	UE0055-			Street. West off	(Any day not being	
	02			Kowloon	a general holiday	
				Refuse Transfer	from 0800h-0930h,	
				Station	1230h-1400h,	
					1700h-1900h)	
Construction	PP-	10/08/02	30/01/03	Lai Po Road off	Valid	
Noise Permit	UE0063-			KMB Depot	(Any day not being	
	02				a general holiday	
					from 0700h-	
					1900h)	

6. MONITORING RESULTS

6.1 Air Quality

1-hour TSP

1-hour TSP monitoring was carried out at 2 monitoring stations between 29^{th} August 2002 and 28^{th} September 2002. All monitoring data is presented in *Appendix J*. A summary of the measured 1-hour TSP levels is given in *Table 6.1*. Graphical presentation of the 1-hour TSP monitoring results for the reporting month is shown in *Appendix K*.

No exceedance of the Action/Limit Levels of 1-hour TSP was recorded during the reporting period.

Table 6.1 Summary of 1-hour TSP Impact Monitoring Results

Location	1-hour TS	SP(μg/m ³)	Action Level	Limit Level (μg/m³)	
I.D.	Mean	Range	$(\mu g/m^3)$		
ASR1	90	5.9 – 257.1	318	500	
ASR2	111	2.5 - 256.0	324	500	

24-hour TSP

24-hour TSP monitoring was carried out at 2 monitoring stations between 29^{th} August 2002 and 28^{th} September 2002. All monitoring data is presented in *Appendix J*. A summary of the measured results is given in *Table 6.2*. Graphical presentation of the results is shown in *Appendix K*.

Table 6.2 Summary of 24-hour TSP Impact Monitoring Results

Location	24-hour T	$\Gamma SP (\mu g/m^3)$	Action Level	Limit Level	
I.D.	Mean	Range	(μg/m³)	$(\mu g/m^3)$	
ASR1	83	29.1 – 130.9	163	260	
ASR2	96	37.1 – 165.8	178	260	

The wind data monitoring results recorded during the reporting period are summarised in Appendix L.

Observations

There are several significant dust sources identified during the reporting period and they are mainly contributed by the following activities:

- Site clearance;
- Excavation;
- Other construction activities nearby; and
- Traffic.

6.2 Noise

Normal Hour Monitoring

Noise monitoring was carried out at all the noise monitoring stations between 29^{th} August 2002 and 28^{th} September 2002. A 3 dB(A) façade correction was made to the free field measurements at the monitoring stations. All corrected noise levels are presented in *Appendix M*. A summary of the results is given in *Table 6.3*. Graphical presentation of the monitoring results for the reporting month is shown in *Appendix N*.

Table 6.3 Summary of Corrected Impact Noise Levels

Daytime 0700-1900 hrs on	Noise Level, dB(A) Mean (Range)					
normal weekdays	Leq	\mathbf{L}_{10}	L_{90}			
NSR1*	67	68	64			
	(64.5-68.8)	(65.5-70.0)	(62.8-64.2)			
NSR2*	75 (74.0-74.8)	78 (77.5-78.9)	68 (67.9-68.9)			

^{*} Free-field measurement

Restricted Hour Monitoring

No construction works was carried out during the restricted hours (General Holiday including Sundays between 0700-2300 hours and any day not being a general holiday between 1900-2300 hours) during the reporting month.

Observations

The major noise sources during the reporting period were dominated by the following activities:

- Bored piling;
- Excavation:
- Traffic noise; and
- Other construction works nearby.

7. AUDIT RESULTS

7.1 Air Quality

The 1-hour and 24-hour TSP measurements at the air monitoring locations were all below the corresponding Action/Limit Levels.

7.2 Noise

For $L_{eq(30min)}$ measurement, a total of 10 sets of readings measured during daytime (i.e. 0700 to 1900 from Monday to Saturday) were carried out during the reporting period and all measurement results were below the Limit Level.

7.3 Waste Management

Wastes from this Project include construction and demolition (C&D) waste, excavated materials, chemical waste and general refuse. The EIA Study has stated that with the implementation of appropriate mitigation measures, impact from wastes would be unacceptable. The Waste Management Plan has recommended procedures for handling of C&D waste, excavated materials, chemical waste and general refuse.

Based on the information provided by CHEC with respect to relevant handling records and trip tickets of this project, the quantities of different wastes and their handling are summarized in *Table 7.1*.

Table 7.1 Summary of Different Categories of Waste during the Reporting Period

Material	Type	Quantity	Handling Method	Handling	Storage Locations
		Produced		Quantities	(if applicable)
		in Sept 02		in Sept 02	
C&D	(inert	69 no. of	Deliver to Public Fill	69 no. of	N/A
material	waste)	Dump	(Tuen Mun Area 38)	Dump	
		Truck		Truck	
			Reuse on site for	N/A	N/A
			filing		
	(non-	N/A	To be recycled	N/A	N/A
	inert		(paper)		
	waste)	N/A	To be reused	N/A	N/A
		N/A	To be returned to	N/A	N/A
			supplier		
	113.79 Collected by licensed		Collected by licensed	113.79	N/A
		tones	collector for disposal	tones	
Chemical waste		N/A	N/A	N/A	Chemical Waste
					Storage Area in P1-
					SA10

7.4 Site Inspection by Environmental Team (ET)

Weekly site inspections were conducted by the ET and the major findings are summarized as follows:

- CHEC reported that permanent drainage system and new wheel washing bays will be in place soon. CHEC was advised to divert the effluent to temporary sedimentation tanks for proper treatment before final discharge.
- CHEC was advised to seal the bottom of the hoarding properly to prevent seepage of surface runoff from the site.
- Accumulation of rubbish was observed at P1-SA9 (site office) on 12 September 2002. CHEC had made arrangements to collect and dispose rubbish from the works area subsequently.
- Idling equipment was observed at P1-SA13 (CC402) on 4 September 2002. CHEC was advised to switch off idling equipment while not in use.
- Mud water overflow was observed at Area P1-SA13 (CC402) on 19 September 2002.
 CHEC had made arrangement to collect and settled the mud water in the sedimentation tank before discharge.
- Accumulation of water in bunds at chemical/fuel storage area was observed (19 September). Subsequently the water was collected and temporary stored at chemical waste storage area.

7.5 Site Inspection by Independent Environmental Checker (IEC)

IEC Audit was carried out on 24th September 2002 and the major observations are as follows:

- The gullies at Area P1-SA13 and Lin Cheung Road (NB42) were not protected properly. With respect to this situation, CHEC had made arrangement to surround the gullies with sandbags to avoid surface runoff from entering the drain.
- Stockpiles of excavated material and exposed earth were not covered properly at Area P1-SA6 (facing KMB Depot). With respect to this situation, CHEC had made arrangements to cover the stockpiles using tarpaulin accordingly.
- CHEC was advised to remove silt from the sedimentation tank regularly and when necessary.
- CHEC was advised to protect the u-channel next to the pre-drilling area at P1-SA13 by using bund/sandbags.
- Accumulation of rubbish was observed at P1-SA9 (site office). CHEC had made arrangements to collect and dispose rubbish from the works area subsequently.

- Engine oil containers were not stored properly at Area P1-SA13. CHEC had made arrangement to place all fuel/oil within a bunded chemical storage area.
- Oil stain near generator was observed at Area P1-SA13. The waste was collected and disposed of as chemical waste.

7.6 Site Inspection by Environmental Protection Department (EPD)

Site inspections were conducted by EPD on 17 and 25 September 2002 and the Contractor was reminded to implement sufficient/adequate measures in order properly handle the wastewater from the construction works and storm water runoff.

8. COMPLAINTS, NOTIFICATIONS OF SUMMONS AND PROSECUTIONS

8.1 Summary of Complaints

One complaint was received during the reporting period. The details of the complaints and the follow up actions are presented in *Table 8.1*.

Table 8.1 Summary of Complaints Received between 29 August and 28 September 2002

Case No.	EC2002/02
Received Date (Complaint Mode)	Formal complaint referred by EPD on 23 September 2002.
Parameters	Noise and vibration nuisance from piling works of the Project.
Description	Complaint received by EPD on 9 September 2002 regarding noise and vibration nuisance perceived at the complainant's office, generated from the piling works at R9 site between Hing Wah Street West and Lai Po Road. EPD forwarded the complaint to the ET Leader (ERM) on 20 September 2002.
Follow-up Action	Several vibration measures have been implemented since 27 August 2002 in order to reduce the vibration nuisance to the surrounding offices as a result of the Project's piling works;
	• Investigations were undertaken by ET Leader on 24 and 25 September 2002
	• Site meeting held amongst EPD, ETL, RSS and CHEC on 25 September 2002. No further comment had been raised for the implemented mitigation measures.
Recommended Mitigation Measures	CHEC shall use a smaller power vibro hammer for casing installation, limit the casing installation operation to 7:00am-9:00am, 12:00-13:00pm and 17:00-19:00pm, and carry out vibration monitoring to ensure the magnitude of vibration during casing installation is within the specified limit.
Status/ Remarks	Closed
	ET Leader submitted a comprehensive report to EPD on 30 September 2002.

The summary for all the complaints received since the commencement of the Contract is presented in *Table 8.2*. The details of previous complaints and statistics are attached in *Appendices in O1* and *O2* respectively.

Table 8.2 Summary of Total Complaint Received

Total No. of Complaint Received	No. of complaint received within reporting period	No. of Active Complaint	No. of Inactive/Closed Complaint
2	1	0	2

8.2 Summary of Notification of Summon and Prosecution

No notification of summons or prosecutions was received regarding the non-compliance of the environmental performance of the construction site since the commencement of works.

9. FUTURE KEY ISSUES

9.1 Key Issues for the Coming Month

Works taken for the coming monitoring period will be similar to the previous month as follows:

- Utilities diversion, detection and trial pit excavation;
- Hoarding Erection;
- Pre-drilling;
- Equipment mobilization for piling works;
- Bored piling.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, noise and site runoff. However, with the implementation of the following mitigation measures, potential impacts to the surrounding sensitive receivers could be minimised:

Construction Dust

- Regularly watering of haul road and unpaved areas;
- Prohibit any open burning on site;
- Investigate other dust sources near air sensitive receivers;
- Regularly watering or covering the open area/stock piles with tarpaulin;
- Hydroseed or covering the inactive sandfill area with impervious sheeting if necessary;
- Maintain onsite machinery and vehicles regularly;
- Follow up any exceedance of TSP levels caused by construction works.

Construction Noise

- Identify noise sources arising within or outside worksite;
- To follow up any exceedance caused by the construction works.

Construction Runoff

- Identify sources of wastewater generate from the site;
- Provide sandbags/bunds/channel to direct site surface run-off to silt/sand removal facilities;
- Treat wastewater and surface run-off prior to disposal.

Construction Waste Management

- Avoid accumulation of waste materials or rubbish on site:
- Chemical waste or oil will be collected and disposed of as chemical waste.
- Remove waste materials on site regularly.

9.2 Monitoring Schedule for the Coming Three Months

The tentative schedules for dust and noise monitoring from 29 September to 28 December 2002 are attached in *Appendix P*.

10. RECOMMENDATIONS AND CONCLUSIONS

10.1 Conclusions

This Environmental Monitoring and Audit (EM&A) report presents the EM&A works undertaken during the month from 29th August 2002 and 28th September 2002 in accordance with EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

All 1-hour and 24-hour TSP monitoring were carried out at the 2 monitoring stations and their results were well below the Action/Limit Levels.

Noise monitoring of $L_{eq(30min)}$ was carried out at the 2 monitoring stations and their results were well below the Action/Limit Levels.

One complaint was received during the reporting period. In total, two complaints were received since the commencement of construction works.

No prosecution or summons was received for this Contract since the commencement of construction works.

The environmental monitoring results indicated that the site activities undertaken by the Contractor during the reporting period were in general comply with the relevant environmental requirements, except for deficiencies found during site audits as stated in <u>Section 7.4</u>, <u>7.5</u> and <u>7.6</u> of this report.

10.2 Recommendations

According to the environmental audits undertaken during the reporting month, the following recommendations are made:

Construction Dust

- Site access road and bare soil should be watered regularly to ensure the soil surface is wet;
- Frequent watering of dusty areas during hot/dry weather;
- Stockpiles of excavated material should be covered properly by tarpaulin;
- All onsite plant and vehicles should be maintained regularly to avoid emission of black smoke.

Construction Noise

- The number of plant operating should not exceed the allowable plant number for each construction activity stated in the Construction Noise Permit;
- Noisy equipment should be located away from nearby NSRs.

Water Quality

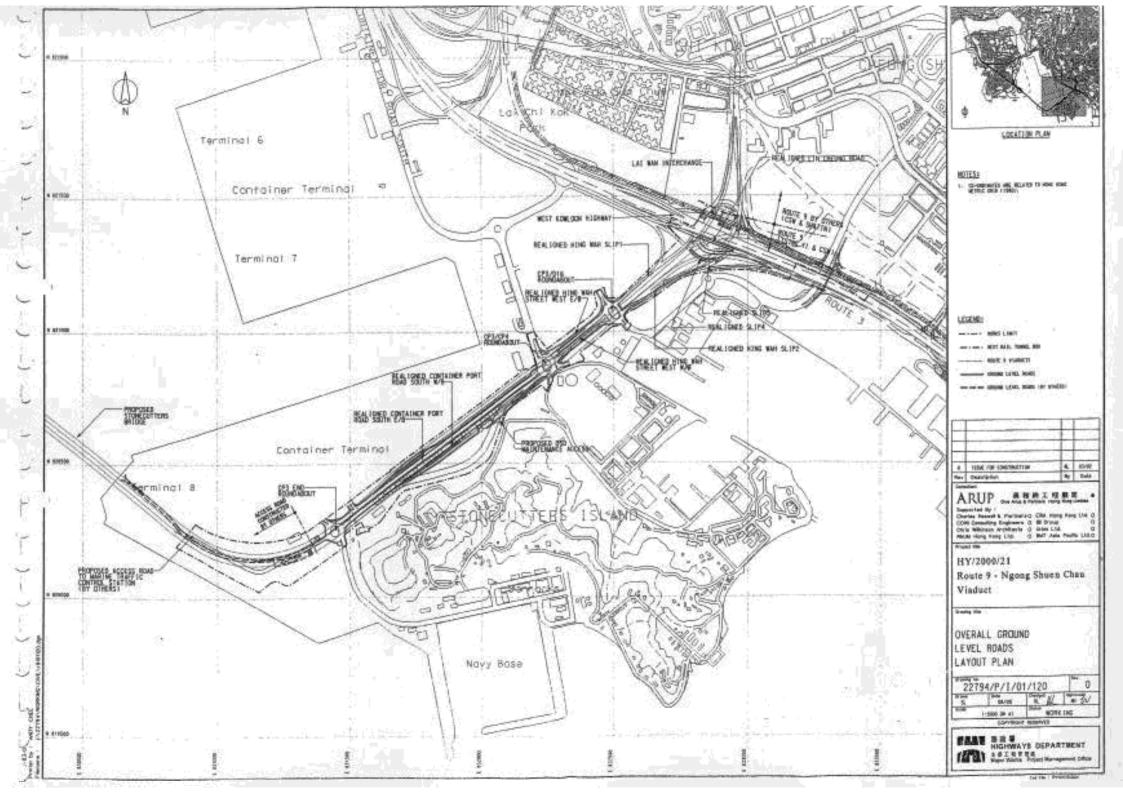
- All surface runoff/wastewater should be diverted to appropriate water treatment facility before disposal;
- Sedimentation tanks/basins should have adequate capacity for settling surface runoff;
- Vehicle and plant servicing area, wheel washing bay shall be connected to storm drains via a petrol interceptor;
- Site hoarding should be tightly sealed at the bottom to prevent seepage of surface runoff from the site;

Waste Management

- Surface water which contaminated with oil or petrol should be collected and disposed of as chemical waste;
- All type of wastes should be collected by licensed waste collectors;
- Good housekeeping should be implemented.

Appendix A

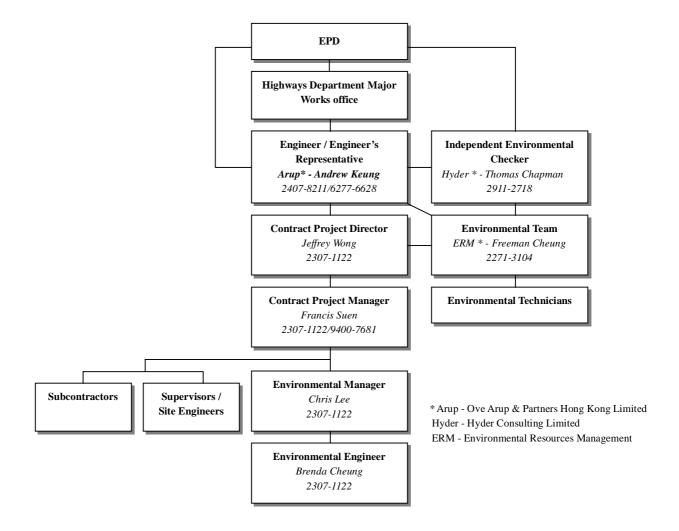
Site Layout Plan



Appendix B

Project Organization Chart and Contact Details

Appendix B: Project Organization Chart and Contact Details



Appendix C

Project Work Programme

Activity	Activity Description	% Comp	Orig		arty Total	As-planned Early Start	As-planned Early Finish	AUG SEP	2002 OCT NOV 23 30 7 14 21 28 4 11 18
	DESIGN & PROCUREMENT	5123145	Name :	1946 191 1956	I SAME AND	SIE Z	A3257-1		
Site Possession		BESS	THE REAL PROPERTY.	MILLERY			W. S. (C)	4	
CH0000190	Possession P1-SA11	0	0 21/1	2/02		0	T	1	
CH0000200	Possession P1-SA11A	0	0 21/1	2/02		0	†	1	
SITE ACCOMMO	DOATION & TEMPORARY FACILITIES					NO.	SPERME		
	Accommodation Final connection to DSD manhole	100	0	12/09	ID2A	1040.60	Phi-Man		i
		100		1200			C15-3379-809-71	Ф Final o	nnection to DSD manhole
CH0015240	Accommodation Final connection to DSD manhole	100	0	12/09	/02A			Acres	onnection to DSD manhole
PERMITS & SUB	BMISSIONS		W C 405	NO PERSONAL PROPERTY.		TANK SA		· ·	I DOC HAROS
Submissions: M	ethod Statements & EDOC's	400	0.000	07/09	1001	7.000		1	
CH0050120	MTRC EDOC: AIP Approval by MTRC	100		22/09				♦MTRC ED	G: AIP Approval by MTRC
CH0050140	KCRC EDOC: ENGINEER APPROVAL	0		29/09					KCRC EDOC: ENGINEER APPROVAL
CH0050150	KCRC EDOC: KCRC APPROVAL FOR START OF WORKS	0	0	2909	NAME OF TAXABLE				◆KCRC EDOC: KCRC APPROVAL FOR STA
TMLG MEETING TMLG Meeting			504366	BEERING STAR			Harris Street	4	
CH0052140	TMLG Meeting No.5	0	0	26/09	/02° 32	3		1	◆TMLG Meeting No.5
CH0052150	TMLG Meeting No.6	0	0	27/09	/02° 4	4			◆TMLG Meeting Nc.6
CH0052160	TMLG Meeting No.7	0	0	25/10	/02° 4	5		1	◆TMLG Meeting No.7
CH0052170	TMLG Meeting No.8	0	0	29/11	/02* 1,81	0		1	
DESIGN & SUBA			REAL					S S	
Permits & Subm CH0053190	hissions: Traffic Related Interface Management Plan	97	100 29/0	6/02A 25/09	/02	0			Interface Management Dise
CH0060300	TTA outline Proposals	97			/02	0		-	Interface Management Plan
CH0060310	Traffic Mgt Contingency Plan	70				0		-	TTA outline Proposals
	roject Controls Related	30,000,00	1000000	100 FE LU 1000		10.0000	55000000000		Traffic Mgt Contingency Plan
CH0053280	Revised Quality Forms	0	0	22/09	/02*	0	T	1 .	Revised Quality Forms
CH0053310	General Independent Testing Labs	0	0	22.09	/02*	0		1 .	General Independent Testing Labs
CH0060450	Geotechnical Monitoring Plan	78	50 13/0	6/02A 03/10	/02	0			Geotechnical Monitoring Plan
Submission: Pre		114457				Control of the Park Control of the Control	1.5179		
CH0053150	Engineer's Accommondation & Equipment	78				0			Engineer's Accommondation & Equipme
CH0053180	Inital Record Photos	89				0			Inital Record Photos
CH0053270	Details of seweage treatment facilities	0		22/09		0		1	Details of seweage treatment facilities
CH0060370	Method of pipeline and associated works	0		20/09		0	-	•	Method of pipeline and associated works
CH0060380	Method of drains, outfalls or sewers	0		20/09		0		•	Method of drains, outfalls or sewers
СН0060390	Method of retaining wail	9	0	02/10	102	0			◆Method of retaining wall
Design: Segme CH0053185	nt Launching Gantry Safety Measures: Deck Segment Erection	1 0	0 0	15/10	V02*	0	4.148.486.12.181	Safety Measures: Deck	Secretary Fraction
CH0060160	Aspect of precast concrete segment erection	- 0	0	15/10	V02*	0	-	Sally measures: 000	Aspect of precast concrete se
CH0060170	Erection equipment	-	0	15/10	V02*	0	-	-	◆Erection equipment
CH0060180	Temporary platform	-	0	31/10	V02*	0	-		Temporary platform ◆
CH0060240	Launching girder design	40	272 04/0	W02A 30/12	V02	0	-		rangolary planoring
CH0060260	Fabrication girder	10	140 02/	9/02A 01/03	V03	0			
	ent Yard & Storage	Jan Calabia	VIII.07 087				DECEMBER OF THE	7	
CH0060130	Method of storage of segment	1	0	16/10	V02*	0			◆Method of storage of segmen
CH0060140	Curing system for segment	-	0	16/10	V02*	0			◆Curing system for segment
CH0060150	Geometry control	(0	15/10	V02*	0			◆Geometry control
CH0060190	Strore Mix & Apply Epoxy Bonding	(0	15/10	y02*	0		Strone Mix & Ap	ody Epoxy Bonding◆
	Works Regional Laboratory		al asias	07/024 14400	W02A	S R 2 3 2 1		70	
CHTPWR060	Submit structural calculation	100		10/02 ⁴		7		Submit	sructural calculation
CHTPWR100	Submit 900A transformer house			10/02*		4		4	
CHTPWR130	Submit signboard detail			10/02		1			♦ Submit signboard detail
Design: Tempo CH0080120	prary Pre-stressing Method of prestressing	-	0 0	11/1	1/02*	0			Method of prestressing◆
	s, Formwork & Shutters	SIA Gurasta	(1) (10 PE 1	A CARPETER	511111111111111111111111111111111111111				
CH0060200	Segment mould design	T	0 0	01/10	0/02*	23			◆Segment mould design
CH0060460	Temporary works for Pile cap excavation		0 10 20/	05/02A 07/10	3/02	15			Temporary works for Pile cap excavat
CH0060470	Flasework for columns	1	0 0	20/0	9/02*	31] •	lasework for columns
CH0060480	Crosshead & portal flasework		0 0	20/0	9/02*	53		∢	Crosshead & portal flasework
	9 Marine Access	BE WY	BREST ST	05/1	1000	0	2.95.73	27	
CH0060100	Marine Access Proposal		0 0	05/1	1/02	9		l	Marine Access Proposal◆
			Income	,		Sheet	1 of 18	25 2 9 16 AUG SEP	23 30 7 14 21 28 4 11 18 OCT HOV
Start Date Finish Date Date Date Run Date	02/10/02 15:00		CHINA	RO CONTRA	CINEERING COI UTE 9-NSCV CT NO. HY/2000 rogramme (cut o	IPANY (GROU 1/21		Re	rision Checked Approved
© Primav	vera Systems, Inc.								

Activity ID	Activity Description	Comp	Orig Dur	Early Start	Early Finish	Total Float	As-planned Early Start		AUG 2	SEP 9 .16	23 30 7 14 21 28 4 11 18
	High Mast Lighting Design High Mast Lighting	87	100	05/06/02A	05/10/02	43			ans.	100	Design High Mast Lighting
ROCUREMENT			SHE			23.54				7 1 1 1 1 1	The state of the s
	its Manufacture Fabricate Segment moulds & setup production	0	55	16/10/02	09/12/02	23	34.74.27				
H0060220	Trial segment		26	10/12/02	04/01/03	23					
INSTRUCT BUIL			500	12.0 4475	A STATE OF	STIPLES					
WRL: KEY DAT	BLIC WORKS REGIONAL LABORATORY (PWRL			A STANCT			10.1				
	PWRL: Contractual Completion Date	0	0	T	19/10/02*	0			P	WRL: Contra	qual Completion Date
CHTPWR040	PWRL: Forecast Completion of Works	0	0		11/12/02*	-45					Separation by
	& Temporary Works PWRL: Water supply connection	58	40	06/06/02A	12/10/02	-21	HEADER S	MINE S			
HTPWR180	PWRL: Sewer & surface water connection	29		15/07/02A	31/10/02	-40					PWRL: Water supply connection
CHTPWR380	PWRL: Construct vehicle washing bay	- 0	5	27/09/02	03/10/02	-7					PWRL: Sever 8
WRL: Drainage	Foundations & Structure						1000				PWRL: Construct vehicle washing bay
HTPWR200	PWRL: Construct transformer house	43		15/07/02A	12/10/02	-45					PWRL: Construct transformer h
HTPWR240	PWRL: Ecavation & drainage installation	60		04/09/02A	26/09/02	-38				_	PWRL: Ecavation & drainage installation
HTPWR250	PWRL: Footing construction	80		10/09/02A	30/09/02	-38				_	PWRL: Footing construction
HTPWR260	PWRL: Construct structure frame & panel	20		14/09/02A	10/10/02	-38				_	PWRL: Construct structure frame
HTPWR390	PWRL: Construction ground slab & surface drainag	0	20	04/10/02	28/10/02	./	7 m 7 m 7 m				PWRL Constructi
WRL: 1st & 2nd HTPWR270	Fixes PWRL: Wall finishes	0	5	29/10/02	02/11/02	-38	2541375225				PWRL: Wall finishes
HTPWR250	PWRL: Floor finishes	0	9	04/11/02	13/11/02	-38					PWRL: Floor finishes
HTPWR290	PWRL: E&M 1st fixing	0	9	04/11/02	13/11/02	-38					PWRL: E&M 1st fixing
HTPWR320	PWRL: Ceiling finishes	- 0	5	21/11/02	26/11/02	-38					PWRL: Ceiling finisher
CHTPWR400	PWRL: Installation Chemical Waste Storage Room	0	2	02/12/02	03/12/02	-38					
WRL: E & M W	orks PWRL: Install switch board & transformer	1 0	35	15/10/02	23/11/02	-45					
CHTPWR210	PWRL: CLP cable laying	-		13/11/02	11/12/02	-45			PWRL: In	stall switch	oxard & transformer
HTPWR230	PWRL: Transformer testing & commissioning	-		04/12/02	11/12/02	-45					PWRL: CLP cable laying
HTPWR300	PWRL: Plumbing & drainage installation	-		04/11/02	13/11/02	-38					
CHTPWR310	PWRL: Lighting & E&M final fixing			14/11/02	20/11/02	-38				PW	R.: Plumbing & drainage installation
CHTPWR330	PWRL: E&M testing & commissioning	-	5	21/11/02	26/11/02	-32					PWRL: Lighting & E&M final fixing
PWRL: Finshing	Works	350 E 37		System in			10783-38				Fire contesting a contesting
CHTPWR340	PWRL: Furniture installation	0		27/11/02	29/11/02	-35					
CHTPWR350	PWRL: Installation Newtesting facilities	0		27/11/02	29/11/02	-35					
CHTPWR360	PWRL: Install Existing Equipment From Old Lab.	9		27/11/02	29/11/02	-38					
CHTPWR370	PWRL: Signboards installation			30/11/02	30/11/02	-36		COMPANIES CONTRACTOR			
	DGE G1 - STAGE 1A WORKS R G2 - STAGE 1A	AND DESCRIPTION	in the		446		DESCRIPTION OF THE PARTY OF THE	ALC: Y			
G1: Pier G2 SI P		100	用的	28/08/02A	03/09/02A		55000500				-
CH3010101	G2: Pre-driling G2-2	100		02/09/02A	09/09/02A	1 1	- 4		100	2. Pre-drillin	
CH3010105	G2: Pre-drilling G2-3	100		10/09/02A	18/09/02A	-			n ,		diling G2-2
CH3010106	G2: Pre-drilling G2-4	100		12/09/02A	19/09/02A	-		-	-		Pre-drilling G2-3
CH3010110	G2: Prepare & submit the SI report	-		20/09/02A	26/09/02	-87					G: Pre-drilling G2-4
CH3010120	G2: Approval SI report	-		27/09/02	04/10/02	-87			1 1 2		G2: Prepare & submit the SI report
G1: Pier G2 Bon		TO KING	100	A CHARLES	1	100000	- gal 12"4-7	#U50-250	-		
CH3015100	G2: 1st: Bored Pile	. 1		12/10/02	18/10/02	-93					G2: 1st: Bored Pile
CH3015110	G2: 1st: Interface core test		ļ	28/10/02	28/10/02	-44					G2: 1st: Interface core test
CH3015120	G2: 2nd: Bored Pile		1	5 21/10/02	25/10/02	-93			1		G2: 2nd: Bored Pile
CH3015130	G2: 2nd: Interface core test			1 04/11/02	04/11/02	-49					G2: 2nd: Interface core test
CH3015140	G2: 3rd: Bored Pile			5 28/10/02	01/11/02	-93					G2: 3rd: Bored Pile
CH3015150	G2: 3rd: Interface core test			1 11/11/02	08/11/02	-54 -59					G2: 3rd: Interface core test
CH3015160	G2: 4th: Bored Pile			1 18/11/02	18/11/02	-59		-	-		G2: 4th: Bored Pile
CH3015170	G2: 4th: Interface core test G2: Sonic test			1 18/11/02	18/11/02	-59		-			G2: 4th: Interface core test
CH3015180			1	102		15/15/2011					G2: Sonic test®
G1: Pier G2 Pile CH3020100	Cap G2: Sheet Pile driving		0 :	2 09/11/02	11/11/02	-56			1		G2: Sheet Pile driving
CH3020110	G2: Excavate & shoring support		0	3 12/11/02	14/11/02	-56	2.1		G2: Excavate & shoring sup G2: Cut	G2: Excavate & shoring support	
CH3020120	G2: Cut Pile head		0	5 19/11/02	23/11/02	-59	J			G2: Cut Pile head	
CH3020130	G2: Lay blinding layer	7	0	1 23/11/02	23/11/02	-59				G2: Lay blinding la	
CH3020140	G2: Formwork erection		0	1 25/11/02	25/11/02	-59	,·			1	
CH3020150	G2: Reinforcement fixing	7	0	7 25/11/02	02/12/02	-59	: 			1	
	G2: Final fix Formwork/Clean & Concrete	- 1	0	1 03/12/02	03/12/02	-59	10.00		1		

Activity	Activity	*	Orig	Early	Early	Total	As-planned		AUG SEP	2002 OCT NOV
ID CH3020170	Description G2: Remove formwork & bituminous print	Comp	Accessories to	Start 04/12/02	05/12/02	Float -59	Early Start	Early Finish		23 30 7 14 21 28 4 11 18
H3020180	G2: Backfill	- 0	2	06/12/02	07/12/02	-59	71	-		
13020190	G2: Ramove the sheet Piles		2	09/12/02	10/12/02	-59			열획을 무리	
1: Pier G2 Col	lumn (Type C3 hollow)			C ARCTA	a registering	5-63-62 P	100 mg		***	
H3025100	G2: 1st Column Lft	0	4	11/12/02	14/12/02	-59			4, 1	
H3025110	G2: 2nd Column Lift	. 0	4	16/12/02	19/12/02	-59				
H3025120	G2: 3rd Column Lift	0	4	20/12/02	24/12/02	-59			3.5	La Carlo de Carlo de La Carlo de
	RG3-STAGE1A	OK BE	200	756	ALL REAL PROPERTY.	1				
1: Pier G3 SI F H3045100	Pre-Orlling G3: Site investigation	100	5	01/08/02A	31/06/02A	S. S		COLCUMENTS.	G3: Site investiga	ion'
H3045110	G3: Prepare & submit the SI report	0	2	02/09/02A	24/09/02	-54			A. 1. 17	IIG3: Prepare & submit the SI report
H3045120	G3: Approval SI report	0	2	25/09/02	26/09/02	-54				IIIG3: Approval SI report
1: Pier G3 Bor		332000	012.7	9454 630		174-78-8"	er eggi. F	gerreide		
H3050100	G3: 1st: Bored Pile			04/10/02	09/10/02	-59				G3: 1st: Bored Pile
H3050110	G3: 1st: Interface core test	0		19/10/02	19/10/02	-3				IG3: 1st: Interface core te
H3050120	G3: 2nd: Bored Pile	0		11/10/02	17/10/02	-59				G3: 2nd: Bored Pile
H3050130	G3: 2nd: Interface core test	0		26/10/02	26/10/02	-8				33: 2nd: Interface core test
H3050140	G3: 3rd: Bored Pile	0		19/10/02	24/10/02	-59 -13				G3: 3rd: Bored Pile
H3050150	G3: 3rd: Interface core test	0		02/11/02	31/10/02	-13				G3: 3rd: Interface core test
H3050160	G3: 4th: Bored Pile	0		26/10/02	09/11/02	-18				G3: 4th: Bored Piletter
H3050170	G3: 4th: Interface core test	0		09/11/02	09/11/02	-18				G3: 4th: Interface core test
H3050180	G3: Sonic test	•		V# 11/02	USF 1 1/02	-18	Name of the last			G3: Sonic test
11: Pier G3 Pile H3055100	e Cap G3: Sheet Pile driving	0	2	01/11/02	02/11/02	-15		A SECTION		03: Sheet Pile driving
H3055110	G3: Excavate & shoring support		3	04/11/02	06/11/02	-15		-		G3: Excevate & shoring support
H3055120	G3: Cut Pile head		5	11/11/02	15/11/02	-18				G3; Cut Pile head
H3055130	G3: Lay blinding layer	- 0	1	15/11/02	15/11/02	-18				G3: Lay blinding layer
H3055140	G3: Formwork erection		1	16/11/02	16/11/02	-18				G3: Formwork erection
H3055150	G3: Reinforcement fixing	- 0	3	16/11/02	19/11/02	-18				G3: Reinforcement fluing
H3055160	G3: Final fix Formwork/Clean & Concrete	- 0	1	20/11/02	20/11/02	-18				G3: Final fix Formwork/Clean & Concrete
H3055170	G3: Remove Formwork & Bituminous Paint		2	21/11/02	22/11/02	-18				G3: Remove Formwork & Bituminous Pain
2H3055180	G3: Backfil	0	2	23/11/02	25/11/02	-18				G3: Back
CH3055190	G3: Remove the sheet Piles	0	2	26/11/02	27/11/02	-18				
	olumn (Type C3S solid)	V 25	375	25 FC 1525			2002	THE PERSON		
CH3060100	G3: 1st Column Lift	. 0		28/11/02	02/12/02	-18				
State of the	G3: 2nd Column Lift	0		03/12/02	11/12/02	-18				
CH3060120	G3: 3rd Column Lift	- 0		12/12/02	16/12/02	-18				
CH3060125	G3: 4th Column Lift			121202	101202	-10	78. N. 150 150			
31: Pier G3 Cro CH3065100	G3: Erect working platform & support brackets	1 0	2	17/12/02	18/12/02	-18	SCHOOL STATE	100000000000000000000000000000000000000		Control Open Control
CH3065110	G3: Erect soffit formwork		3	19/12/02	21/12/02	-18	'd	1		
MSTRUCT BR	NDGE 82 - STAGE IA WORKS		1000	CAN PA	A PARTY		100000	Manhair 13		
ROGE G2: PIE	ER G12S Utilities, Services & Roadworks	a Communication	HERE			1453.HSM	NAME OF THE OWN	SALES SE		
	G12S: Erect Temporary Pling Rig Platform	100	6	24/07/02A	30/08/02A	100		77 .75	G12S: Erect Temp	orary Piling Rig Platform
32: Pier G12S		ASSESSMENT AND DESCRIPTION OF THE PERSON OF			BESSELS OF	2/5/03	P file		81 T. T.	
CH3480100	G125: 1st: Bored Pile	100	1920	31/08/02A	09/09/02A	1	5		G125: 1st	Bored Pile
CH3480110	G12S: 1st: Interface core lest	- 1 - 2 - C		27/09/02	27/09/02	-39				BG12S: 1st: Interface core test
CH3480120	G12S: 2nd: Bored Pile	100		11/09/02A	14/09/02A				■G128	2nd: Bored Pile
CH3480130	G129: 2nd: Interface core test		4.	04/10/02	04/10/02	43			1	IIG12S: 2nd: Interface core test
CH3480180	G12S: Sonic test		1	04/10/02	04/10/02	43		120		IIG12S: Sonic test
34 De C	Pile Cap G12S: Sheet Pile driving		0 2	08/10/02	09/10/02	-45			1	Bosse Grand Co.
	The same of the sa	1 1 2 2	100	10/10/02	12/10/02	-45	15 a 1 a 1	1 0/	G12S: Excavate & s	M3128: Sheet Pile driving
CH2485100	G12S: Excevate & shoring support	7 - 2	V			1		1	J IZO EXCENSES & S	
CH2485100 CH2485110	G12S: Excavate & shoring support G12S: Cut Pile head	S (4)	100	15/10/02	19/10/02	-45	3.475		I to a second	C120, 0.4 00, back
CH2485100 CH2485110 CH2485120		7 7	0 5	15/10/02	19/10/02	-45 -45	7.74			G12S: Cut Pile head
CH2485100 CH2485110 CH2485120 CH2485130	G12S: Cut Pile head		0 1	100000	250000	V = 58				BG12S: Lay blinding layer
CH2485100 CH2485110 CH2485120 CH2485130 CH2485140	G12S: Cut Pile head G12S: Lay blinding layer		0 f 0 f	19/10/02	19/10/02	-45			e.	BG12S: Lay blinding layer BG12S: Formwork erecti
CH2485100 CH2485110 CH2485120 CH2485130 CH2485140 CH2485150	G12S: Cut Pile head G12S: Lay blinding layer G12S: Formwork erection		0 f 0 1 0 1	19/10/02	19/10/02	45 45				B312S: Lay blinding layer BG12S: Formwork erect S: Reinforcement fixing
CH2485100 CH2485110 CH2485120 CH2485130 CH2485140 CH2485150 CH2485150	G12S: Cut Pile head G12S: Lay blinding layer G12S: Formwork erection G12S: Reinforcement fixing		0 5 0 1 0 5 0 5	19/10/02 21/10/02 21/10/02	19/10/02 21/10/02 23/10/02	45 45			G12S: Final fix Fo	IIG12S: Lay blinding layer IIG12S: Formwork erect S: Reinforcement fixing IIII mwork/Clean & ConcreteII
CH2485100 CH2485110 CH2485120 CH2485130 CH2485140 CH2485150 CH2485150 CH2485170	G12S: Cut Pile head G12S: Lay blinding layer G12S: Formwork erection G12S: Reinforcement fixing G12S: Final fix Formwork/Clean & Concrete		0 5	19/10/02 21/10/02 3 21/10/02 24/10/02	19/10/02 21/10/02 23/10/02 24/10/02	45 45 45			G12S: Final fix Fo	IIG12S: Lay blinding layer IIG12S: Formwork erect S: Reinforcement fixing mwork/Clean & Concrete mwork & bituminous print
CH2485100 CH2485110 CH2485120 CH2485130 CH2485140 CH2485150 CH2485150 CH2485170 CH2485180	G12S: Cut Pile head G12S: Lay blinding layer G12S: Formwork erection G12S: Reinforcement fixing G12S: Final fix Formwork/Clean & Concrete G12S: Remove formwork & bituminous print		0 5 0 1 0 1 0 3 0 3	19/10/02 21/10/02 3 21/10/02 2 24/10/02 2 25/10/02	19/10/02 21/10/02 23/10/02 24/10/02 26/10/02	45 45 46 45			G12S: Final fix Fo	IIG12S: Lay blinding layer IIG12S: Formwork erect II: Reinforcement fixing III IIII IIIIIIIIIIIIIIIIIIIIIIIIIII
CH2485100 CH2485110 CH2485120 CH2485130 CH2485140 CH2485150 CH2485160 CH2485170 CH2485180 CH2485190	G12S: Cut Pile head G12S: Lay blinding layer G12S: Formwork erection G12S: Reinforcement fixing G12S: Final fix Formwork/Clean & Concrete G12S: Remove formwork & bituminous print G12S: Remove the sheet Piles		0 5 0 1 0 1 0 3 0 3	19/10/02 21/10/02 3 21/10/02 2 24/10/02 2 25/10/02 2 28/10/02	19/10/02 21/10/02 23/10/02 24/10/02 26/10/02 29/10/02 31/10/02	45 45 45 45 45			G12S: Final fix Fo	IG12S: Lay blinding layer IG12S: Formwork erecti Reinforcement fixing mwork/Clean & Concrete mwork & bituminous print
G2: Pier G12S CH2485100 CH2485110 CH2485120 CH2485140 CH2485140 CH2485150 CH2485150 CH2485180 CH2485180 CH2485190 G2: Pier G12S CH3490100	G12S: Cut Pile head G12S: Lay blinding layer G12S: Formwork erection G12S: Reinforcement fixing G12S: Final flx Formwork/Clean & Concrete G12S: Remove formwork & bituminous print G12S: Backfill		0 5 0 1 0 3 0 3 0 3	19/10/02 21/10/02 3 21/10/02 2 24/10/02 2 25/10/02 2 28/10/02	19/10/02 21/10/02 23/10/02 24/10/02 26/10/02 29/10/02	45 45 45 45 45			G12S: Final fix Fo	#G12S: Lay blinding layer #G12S: Formwork erectil S: Reinforcement fixing mwork/Clean & Concrete mwork/Clean & Concrete #G12S: Backfill

G12S: 3rd Column Lift		por recipional for a con-	en mende met i a		21/11/02	15/11/02				AL 29 1 44 - 44
		See and the		10.0		131101	1	0	G12S: 3rd Column Lift	CH3490120
		STATE STATE		4000		NEWS PROPERTY.	SHE	的现代形	PR G13S Utildes, Services & Roadworks	OF STREET
Temporary Piling Rig Platform	G13S: Erec		1		07/09/02A	24/07/02A	6	100	G13S: Erect Temporary Piling Rig Platform	
BOOK OF SERVICE		4.874		ar Mari			129	A STREET		32: Pier G13S B
st Bored Pile	■G13S: 1				12/09/02A	09/09/02A		100	G13S: 1st: Bored Pile	
DG13S: 1st: Interface core test				20	02/10/02	02/10/02	L	0	G13S: 1st: Interface core test	CH3545110
S: 2nd: Bared Pile	G				18/09/02A	14/09/02A	4	100	G13S: 2nd: Bored Pile	CH3545120
BG13S: 2nd: Interface core test				16	08/10/02	08/10/02	1	0	G135: 2nd: Interface core test	CH3545130
BG13S: Sonic test	-			16	08/10/02	08/10/02	1	0	G13S: Sonic test	CH3545180
		34 JA 143	S ch-300 A		9652 Tr. 140	Supplement of the second	(18)	10.20		32: Pier G13S P
EG13S: Sheet Pile driving				16	10/10/02	09/10/02		0	G13S: Sheet Pile driving	
noring support©3()	G13S: Excavate & s			.16	15/10/02	11/10/02	3	0	G13S: Excavate & shoring support	CH3550110
G13S: Cut Pile head				16	21/10/02	16/10/02	5	0	G135. Cut Pile head	CH3550120
0313S: Lay blinding laye				16	21/10/02	21/10/02	1	0	G13S: Lay blinding layer	CH3550130
fG13S: Formwork erecti				16	22/10/02	22/10/02	1	0	G13S: Formwork erection	CH3550140
S: Reinforcement fixing@	Gt			16	24/10/02	22/10/02	3	0	G13S: Reinforcement fixing	CH3550150
rmwork/Clean & Concrete()	G13S: Final fix Fi			16	25/10/02	25/10/02	1	0	G13S: Final fix Formwort/Clean & Concrete	CH3550160
rmwork & bituminous print				16	28/10/02	26/10/02	2	0	G13S: Remove formwork & bituminous print	CH3550170
GG13S: Backfill				16	30/10/02	29/10/02	2	0	G13S: Backfill	CH3550180
G13S: Remove the sheet Piles@				16	01/11/02	31/10/02	2	0	G135: Remove the sheet Piles	CH3550190
		176456	1.120	040 FEE	10 mm 1 m		1980	0.400	Column (Type C5)	32: Pier G13S C
G13S: 1st Column L				-1	28/11/02	22/11/02		0	G13S: 1st Column Lift	CH3555100
				-1	05/12/02	29/11/02	9	0	G13S: 2nd Column Lift	CH3555110
				-1	12/12/02	06/12/02	•	0	G135: 3rd Column Lift	CH3555120
			SWEET PAR		A STANCE	A CONTRACTOR	(AND		REDGE H2 - STAGE 1A WORKS	DHSTARUCT BI
				医型基础					ER HON-STAGE TA	COLUMN TWO IS NOT THE OWNER.
H9N: Site investigation				-51	10/10/02	28/09/02	10	0	H9N: Site investigation	H2: Pler H9N SI CH4335100
omit Si Reported	HOM Present & S.			-51	16/10/02	11/10/02		- 0	HSN: Prepare & Submit SI Report	CH4335110
	risit. Fiepar a co			-51	23/10/02	17/10/02	0 6	0	H9N: Approval SI report	CH4335120
H9N: Approval Si repo			9,100	SERVICE STATE	Race Edit Dates	DO STORES	1980	PHILES 2270		H2 Pier H9N Bo
HON: 1st: Bored Pile	-			-59	06/11/02	02/11/02	0 4	0	H9N: 1st: Bored Pile	CH4340100
H9N: 1st interface core test\$		4		-53	15/11/02	15/11/02	0 1	0	H9N: 1st: Interface core test	CH4340110
H9N: 2nd: Bored Pile				-59	11/11/02	07/11/02	0 4	0	H9N: 2nd: Bored Pile	CH4340120
H9N: 2nd: Interface core test				-56	20/11/02	20/11/02	0	0	H9N: 2nd: Interface core test	CH4340130
H9N: 3rd: Bored Pile				-59	15/11/02	12/11/02	0 4	0	H9N: 3rd: Bored Pile	CH4340140
				-50	25/11/02	25/11/02	0 1	0	H9N: 3rd: Interface core test	CH4340150
				-59	25/11/02	25/11/02	0	- 0	H9N: Sonic test	CH4340180
1, 4 ³ / ₂ 1 ₀ - 1 2 2	217	SESTIMATES.	242.00000000	100 M 100 M	3054732710757F	017A314572753	200000	N=201310210		
H9N: Sheet Pile driving				-58	18/11/02	2 16/11/02	0 :		HgN: Sheet Pile driving	H2: Pier H9N P8 CH4345100
H9N: Excevate & shoring supports	1944			-56	21/11/02	3 19/11/02	0 :	0	HSN: Excavate & shoring support	CH4345110
			7	-59	30/11/02	5 26/11/02	0	0	HSN: Cut Pile heed	CH4345120
A STATE OF THE STA	Will be and			-59	30/11/02	1 30/11/02	0	0	H9N: Lay blinding layer	CH4345130
	18.45%		-	-59	02/12/02	1 02/12/02	0	0	H9N Formwork erection	CH4345140
		ļ .		-59	04/12/02	3 02/12/02	76.34	0	H9N Reinforcement fixing	CH4345150
	(N.	100		-59	05/12/02	1 05/12/02	86.0	- 0	H9N. Final fix Formwork/Clean & Concrete	CH4345160
1		ļ	A 1 1 2 1 1	-59	07/12/02	2 06/12/02	100		HSN: Strike Formwork & Bituminous Paint	
1	7.4		4.1	-59	10/12/02	2 09/12/02	- "	Annual Annual		CH4345170
	1	20 1 1°	y='j='	-59	12/12/02	2 11/12/02	3 4		H9N: Backfill	CH4345180
	, ¹ / ₂				121202	2 11/12/02	9	°	HSh: Remove the shoot Piles	CH4345190
	depoint.		2462.726	-56	19/12/02	6 13/12/02	o	T 0	Column (Type C5 solid) H9ht 1st Column Lift	H2: Pler H9N C
	Right British	1000		-56	28/12/02	6 20/12/02	8 6 7	14.4 12	H9N: 2nd Column Lift	CH4350110
	3.1		(0000000000000000000000000000000000000	2000	575774	Marine Marin	130	Market Market		
		DATES AND		NO BEE	产起源		DOM:	49.50	RIDGE ML15 - STAGE 1A WORKS PIER SP42	OKSTRUCT BR
		11-55-15		7 -74	27/09/02	5 18/00/24	19.00		M2 SI Pre-Drilling	ML15: Per SB4
SB42: Pre-drilling 5842-1/2/3/4			15.7.5.00			5 18/09/02A	3 103	15	SB42: Pre-drilling SB42-1/2/3/4	CH6888100
SHESB42: Prepare & submit the SI report		ET VIOLE	ETHER.	-74	03/10/02	4 28/09/02	1 5	1.00 m	SB42: Prepare & submit the SI report	CH6888110
S842: Approval SI report		1		-74	10/10/02	6 04/10/02	0		SB42: Approval SI report	CH6888120
		Winds de	USANTA	1 -93	08/11/02	5 04/11/02	O.	Y	342 Bored Piling	
S842: 1st: Bored Pile	Section Street	1200	100				3 4		SB42: 1st Bored Pile	CH6891100
SB42: 1st: Interface core test	Land Barrie			-81	18/11/02	1 18/11/02	1986	3.50	SB42: 1st: Interface core test	CH6891110
COAD, 2nd, David Olla		College		-93	14/11/02	5 09/11/02	200	261 3 1 1	SB42: 2nd: Bored Pile	CH6891120
SB42: 2nd: Bored Pile	TALKER MARKET DAY		1	-8:	23/11/02	1 23/11/02	0	742 9	S842: 2nd: Interface core test	CH5891130
SB42: 2nd: Interface core		UV SHOW I		-93	20/11/02	5 15/11/02				

	Early Finish 26 2	Early Start	Float -89	Finish 29/11/02	Start 29/11/02	Account to	Comp	Description SB42 3rd: Interface core test	ID CH6891150
		1, 147.75	-69	26/11/02	21/11/02	2.00	0	SB42 3rd: Interface core test	H6891150 H6891160
SB42: 4th: Bored Pil		200	-93	05/12/02	05/12/02	1	0	SB42 4th: Interface core test	
			-93	05/12/02	05/12/02	1 1	0	SB42 Sonic test	H6891180
The state of the s			-93	03/12/02	05/12/02	<u> </u>			
			-90	28/11/02	27/11/02	2	0	2 Pile Cap SB42: Sheet Pile driving	L15: Pier SB42 H6894100
			-90	02/12/02	29/11/02	3	- 0	SB42 Excavate & shoring support	H6894110
			-93	09/12/02	06/12/02		0	SB42: Cut Pile head	H6894120
			-93	09/12/02	09/12/02			S842: Lay blinding layer	H6894130
* · · · · · · · · · · · · · · · · · · ·			-93	10/12/02	10/12/02		0	SB42 Formwork erection	H5894140
			-93	14/12/02	10/12/02		- 0	SB42: Reinforcement fixing	H6894150
10.0			-63	16/12/02	16/12/02		- 0	S842 Final flx Formwork/Clean & Concrete	H6894160
			-93	18/12/02	17/12/02		0	SB42 Strike Formwork & Bituminous Paint	H6894170
			-93	20/12/02	19/12/02	2	0	SB42 Backfill within Sheet Piles	H6894180
			-93	23/12/02	21/12/02		- 0	SB42: Remove Sheet Piles Around Pile Cap	
			900000000000000000000000000000000000000	INEXUEENSION	DATE SECTION	150000	SALUTY NOTES		**************************************
	K GO AND	SELECTION OF THE PARTY.	11 1 2 3 de 1	THE OWNER OF	AND MAIN	250		DOE NL16 - STAGE 1A WORKS PIER NB42	NSTRUCT BROK
				04/09/02A	27/08/02A	10	100	2 SI Pre-Drilling NB42: Pre-drilling NB42-1 & 2	
NB42: Pre-drilling NB42-1 & 2			-91	24/09/02	18/09/02A	1	70	NB42: Pre-drilling NB42-3 & 4	and the
NB42: Pre-drilling NB42-3 & 4			-91	28/09/02	25/09/02		,,,	NB42: Pre-onling Nb42-3 & 4 NB42: Prepare & submit the Si report	
MR42: Prepare & submit the SI report			-91	05/10/02	30/09/02		0		
HIBN642: Approval SI report	AND THE PROPERTY OF THE PROPER	A TOTAL PROPERTY.	-41	03 1002	200002		0	NB42: Approval SI report	H7002120
NB42: 1st: Bored Pile	AND STREET, ST	er (Tjolker) No. 'e	-93	15/10/02	09/10/02	5	0	I2 Bored Piling NB42: 1st: Bored Pile	8L16: Pier NB42 0H7005100
NB42: 1st: Interface core test			-37	24/10/02	24/10/02	1	0	NB42: 1st: Interface core test	H/005110
NB42: 1st: Intersect core tests			-93	22/10/02	17/10/02	5	- 0	NB42: 2nd: Bored Pile	H7005120
NB42: 2nd: Interface core testil			-42	31/10/02	31/10/02	1	0	NB42: 2nd: Interface core test	H7005130
NB42: 3rd: Bored Pile			-93	29/10/02	24/10/02	5	- •	NB42: 3rd: Bored Pile	H7005140
NB42: 3rd: Interface core test			-47	07/11/02	07/11/02	-	- 0	NB42: 3rd: Interface core test	H7005150
, , , , , , , , , , , , , , , , , , ,			-93	05/11/02	31/10/02	-	- 0	NB42: 4th: Bored Pile	H7005160
NB42: 4th: Bored Piletten NB42: 4th: Interface core test			-52	14/11/02	14/11/02	١,		NB42; 4th: interface core test	H7005170
NB42: Sonic test			-52	14/11/02	14/11/02	۱,	- 0	NB42: Sonic test	CH7005180
NOVE SOILC 1884	Order Charles	2013/10/2013/03	111110000	100000000000000000000000000000000000000		1000	ATERIOR STATE		ML16: Pier NB4
NB42: Sheet Pile driving			-49	07/11/02	06/11/02	2	0	NB42: Sheet Pile driving	CH7008100
NB42: Excavate & shoring support			-49	11/11/02	08/11/02	3	0	NB42: Excavate & shoring support	H7006110
NB42: Cut Pile head			-52	20/11/02	15/11/02		0	NB42: Cut Pile head	H7008120
NB42: Lay blinding layer			-52	20/11/02	20/11/02	1	0	NB42: Lay blinding layer	CH/7008130
NB42: Formwork erectio			-52	21/11/02	21/11/02	1	0	NB42: Formwork eraction	CH7008140
NB42: Reinforcement fluin			-52	23/11/02	21/11/02	13	0	NB42: Reinforcement fixing	CH7008150
		-	-52	25/11/02	25/11/02	1	- 0	NB42: Final fix Formwork/Clean & Concrete	CH7008160
			-62	27/11/02	26/11/02	7	0	NB42: Strike Formwork & Bituminous Paint	CH7008170
			-62	29/11/02	28/11/02	7	0	NB42: Backfill	CH7006180
1	, , , , , , , , , , , , , , , , , , ,		-52	02/12/02	30/11/02	1	0	NB42: Remove Sheet Piles	CH7006190
	\$2,5697,201	V 1	e mes o		an local	K(6)	25 E G	42 Column (Type C3 hollow)	VIL16: Pier NB4
			-52	06/12/02	03/12/02	1.5	0	NB42: 1st Column Lift	CH7011100
and the second	-		-52	11/12/02	07/12/02	1	0	NB42: 2nd Column Lift	CH7011110
			-52	16/12/02	12/12/02		0	NB42: 3rd Column Lift	CH7011120
A Company of the Comp	1.1		-52	20/12/02	17/12/02		0	NB42: 4th Column Lift	CH7011122
W. W.		W	-52	27/12/02	21/12/02	1	0	NB42: 5th Column Lift	CH7011124
80x 2 xx 1		0.50						IDGE G2 - STAGE 1 WORKS	
		HEAT NEAR		ATT PERSONS				ER G12N I SI Pre-Drilling	RIDGE G2: PE
G12Nt Prepare & submit the SI report				05/09/02A	30/07/02A	1	100	G12N: Prepare & submit the SI report	CH3445110
G12N: Approval SI report				20/09/02A	06/09/02A	1	100	G12N: Approval SI report	CH3445120
			-	370000	1 24 mout 2				G2: Pier G12N
G12N: 1st: Bored Pile		P	-92	27/09/02	24/09/02	2		G12N: 1st Bored Pile	CH3450100
BG12N: 1st: Interface core		1000	158	17/10/02	1 17/10/02	1.5		G12N: 1st interface core test	CH3450110
■G12N: 2nd: Bored Pile		Republication	-93	04/10/02	30/09/02		1 21 1	G12N: 2nd: Bored Pile	CH3450120
G12N 2nd: Interface core test[]		ST 1707 F	152	23/10/02	1 23/10/02	1	A 100	G12N: 2nd: Interface core test	CH3450130
G12N: 3rd: Bored Pile			-93	09/10/02	4 05/10/02		4.3	G12N: 3rd: Bored Pile	CH3450140
0 12N; 3rd: Interface core test§		TOTAL CONTRACT	149	28/10/02	1 28/10/02		- 1	G12N: 3rd: Interface core test	CH3450150
BG12N: Sonic tes		3.5	149	28/10/02	1 28/10/02	0		G12N: Sonic test	CH3450180
		1	145	84/11/02	2 02/11/02	0		N Pile Cap G12N: Sheet Pile driving	G2: Pier G12N CH3455100
G12N: Sheet Pile driving		Laborator Co.				3.5	시 점심 폭발	GIZA. GIBERT IN GIVING	U13455100

ID	Activity Description	Comp	Orig Dur	Start	Early Finish	Total Float	As-planned Early Start	As-planned Early Finish	AUG SEP 26 2 9 .16	2002 OCT MOV 23 30 7 .14 21 28 4 .11 .18
CH3455110	G12N Excavate & shoring support	0	100	05/11/02	07/11/02	145				G12N: Excavate & shoring support
	G12N: Cut Pile head	0	2.17	08/11/02	13/11/02	145	1 380	- 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G12N: Cut Pile head
H3455130	G12N: Lay blinding layer	0		13/11/02	13/11/02	145			1 1 -1	G12N: Lay blinding layer[]
H3455140	G12N: Formwork erection	0		14/11/02	14/11/02	145	-		5	G12N: Formwork erection()
CH3455150	G12N: Reinforcement fixing	٥		14/11/02	16/11/02	145			V. 1	G12N: Reinforcement fixing[
CH3455160	G12N: Final fix Formwork/Clean & Concrete	0		18/11/02	18/11/02	145				G12N: Final fix Formwork/Clean & Concrete()
CH3455170	G12N: Remove Formwork & Bituminous Paint	0		19/11/02	20/11/02	145				G12N: Remove Formwork & Bituminous Paint@
CH3455180	G12N: Backfill	0	2	21/11/02	22/11/02	145				G12N: Backfill
CH3455190	G12N: Remove the sheet Piles	0	2	23/11/02	25/11/02	145				G12N: Remove the sheet Piles
32: Pier G12N C	Column (Type C5) G12N: 1st Column Lift	1 0	6	13/12/02	19/12/02	148				
	G12N: 2nd Column Lift	-		20/12/02	28/12/02	148			4 1 2	
RIDGE G2: PIE		CHANGE SAN	EVEN	(HISH CHUNK	COMPANIES DA	NOTE	Aero (Aores o			
2: Pier G13N 5	SI Pre-Drilling		430							
	G13N: Prepare & submit the SI report	100		04/08/02A	05/09/02A				G13N: Prep	a & submit the SI report
3H3510120	G13N: Approval Si report	100	_ •	06/09/02A	20/09/02A					C13N: Approval SI report
22: Pler G13N E	Bored Piling G13N: 1st Bored Pile	20	2930	20/09/02A	26/09/02	-93	VL-746.43.5	V 1 1066		
CH3515110	G13N: 1st: Interface core test	0	-	16/10/02	16/10/02	177			· '	G13N: 1st Bored Pile
CH3515120	G13N: 2nd: Bored Pile	0	-	27/09/02	02/10/02	-93				BG13N: 1st: Interface core test
213515130	G13N: 2nd: Interface core test	0		21/10/02	21/10/02	174				BRG13N: 2nd: Bored Pile
CH3515140	G13N: 3rd: Bored Pile	0		03/10/02	07/10/02	-93			G13N	THE MARKET STATE OF THE STATE O
CH3515150	G13N: 3rd: Interface core test	0	-	25/10/02	25/10/02	171				G13N: 3rd: Bored Pile
CH3515180	G13N: Sonic test	0		25/10/02	25/10/02	171			, ,	BG13N: Sonic test
G2: Pier G13N F			- -0.603	102 W. D. C.	A STATE OF THE STA	:4256-01	SALESSA S	2.04974	***	UG13N: Sonic test
CH3520100	G13N: Sheet Pile driving	0	1	26/11/02	27/11/02	145				
CH3520110	G13N: Excavate & shoring support	0	1	28/11/02	30/11/02	145				
CH3520120	G13N: Cut Pile head	0	1	02/12/02	06/12/02	145				
CH3520130	G13N: Lay blinding layer	0		06/12/02	06/12/02	145]	I was the second of the second
CH3520140	G13N: Formwork erection	0	- 1	07/12/02	07/12/02	145				
CH3520150	G13N: Reinforcement fixing	0		3 07/12/02	10/12/02	145				
CH3520160	G13N: Final fix Formwork/Clean & Concrete	0		1 11/12/02	11/12/02	145			·.	
CH3520170	G13N: Remove Formwork & Bituminous Paint	0	- :	2 12/12/02	13/12/02	145				
CH3520180	G13N: Backfill	0		2 14/12/02	16/12/02	145				
CH3520190	G13N: Remove the sheet Piles	0		2 17/12/02	18/12/02	145				
ONSTRUCT BR	BOGE G1 - STAGE 2 WORKS		5000		BERT SEP.	Heros and	Total Contaction	STICHT STORY		
		A SURVINION OF THE PERSON NAMED IN	0000					100 CO 10	4	
G1: Pler G5 Uti	ities & Services Diversions	auren.						atheas defin	4	
G1: Pler G5 Uti	ities & Services Diversions			4 21/12/02	27/12/02	7				. (
RIDGE G1: PIE G1: Pier G5 Util CH3140100 BRIDGE G1: PIE	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G4S (04/178).			4 21/12/02	27/12/02	7			8 4 JA	
RIDGE G1: PIE G1: Pier G5 Util CH3140100 BRIDGE G1: PIE	G5: Utilities detection & trial pit excavation	100		4 21/12/02 4 19/08/02A	27/12/02		5(2)22	2// 2/2		
RIDGE G1: PIE G1: Pier G5 Util CHG140100 RIDGE G1: PIE G1: Pier G4S U	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G4S (04/17/8) Inities & Services Diversions				27/12/02	167				Q45: Re-route Public Lighting Cables
RIDGE G1: PIE G1: Pier G5 Util CHG140100 RRIDGE G1: PIE G1: Pier G4S U CHG105100 CHG105101 G1: Pier G4S S	Ities & Services Diversions G5: Utilities detection & trial pit excavation Ex G4S (04/570) Diffies & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-noute Public Lighting Cables SI Pre-Drilling	100	2	4 19/06/02A 1 22/11/02	16/12/02	CHEST IN				G45: Re-route Public Lighting Cables
RUDGE G1: PIE G1: PIEr G5 Util CHG140100 IRBDORE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G4S (047370) Diffities & Services Diversions G4S: Utilities Detection & Dig Trial Pit C4S: Re-route Public Lighting Cables SI Pre-Drilling G4S: Site investigation	100) 2 6 1	4 19/08/02A 1 22/11/02 2 04/09/02A	16/12/02	-58				G4S: Re-route Public Lighting Cables
RIDGE G1: PIE G1: PIEr G5 Util CHG140100 RIDGE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100 CHG110110	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G4S (04/170) Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report	75) 2 5 1	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02	16/12/02 26/09/02 30/09/02	-58				MIG4S: Site investigation IIIG4S: Prepare & submit the SI report
RIDGE G1: PIE G1: PIer G5 Uil CHG140100 RIDGE G1: PIE G1: PIer G4S U CHG105100 CHG105101 G1: Pier G4S S CHG110100 CHG110110	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G4S (04/570). Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report	100) 2 5 1	4 19/08/02A 1 22/11/02 2 04/09/02A	16/12/02	-58				MaiG4S: Site investigation
RIDGE G1: PIE G1: PIEr G5 Uti CHG140100 RIDGE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100 CHG110110 CHG110120 G1: PIEr G4S S	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G45 (04/170) Dilities & Services Diversions G45: Utilities Detection & Dig Trial Pit G48: Re-route Public Lighting Cables S Pre-Drilling G45: Site investigation G45: Prepare & submit the Si report G45: Approval Si report	75) 2 5 1	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02	16/12/02 26/09/02 30/09/02	-58				G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report
RIDGE G1: PIE G1: PIEr G5 Uil CHG140100 RIDGE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100 CHG110110 CHG110120 G1: PIEr G4S S CHG115100	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G4S (04/570). Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report	75) 2 5 1 6 0	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02	16/12/02 28/09/02 30/09/02 05/10/02	-58 -58 -50		2		G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report
RIDGE G1: PIE G1: PIEr G5 UB CHG140100 RIDGE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100 CHG110120 G1: PIEr G4S S CHG110120 CHG110120 CHG115100 CHG115100	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER: G4S (04/570) Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report 30red Piting G4S: 1st Bored Pite	75) 2 5 1 6 0	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02	18/12/02 26/09/02 30/09/02 05/10/02	-58 -58				G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report G4S: 1st Bored Pile G4S: 1st: Interface core test[]
RIDGE G1: PIE G1: PIEr G5 Uil CHG140100 RIDGE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100 CHG110110 CHG110120 G1: PIEr G4S S CHG115100	Ities & Services Diversions G5: Utilities detection & trial pit excavation Ext G4S (04/570) Diffices & Services Diversions G4S: Utilities Detection & Dig Trial Pit C4S: Re-route Public Lighting Cables SI Pre-Drilling G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report G4S: 1st Bored Pite G4S: 1st listerface core test	75	55 1 55 1 50 0	4 19/08/02A 1 22/11/02 2 04/08/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02	18/12/02 26/09/02 30/09/02 05/10/02 12/10/02 31/10/02	-58 -58 -58 203				G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report
G1: Pier G5 Uii G1: Pier G5 Uii G1: Pier G5 Uii G1: Pier G4S U G1: Pier G4S U G1: Pier G4S U G1: Pier G4S U G1: Pier G4S S CH310100 CH3110110 CH3110120 G1: Pier G4S S CH3115100 CH3115110 CH3115120 CH3115110	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G45 (04/170) Dilities & Services Diversions G45: Utilities Detection & Dig Trial Pit G45: Re-route Public Lighting Cables Si Pre-Drilling G45: Site investigation G45: Prepare & submit the SI report G45: Approval SI report Sored Piting G45: 1st Bored Pite G45: 1st Interface core test G45: 2nd Bored Pite	75	55 1 1 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 5 15/10/02	18/12/02 26/09/02 30/09/02 05/10/02 12/10/02 31/10/02	-58 -58 -56 203				MIG4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report G4S: 1st Bored Pile G4S: 1st Interface core test[] G4S: 2nd Interface core test[]
RUDGE G1: Pier G5 Usi CHG140100 RUDGE G1: Pier G4S USI CHG160100 RUDGE G1: Pier G4S UCHG105100 CHG105101 G1: Pier G4S S CHG110100 CHG110110 CHG110110 CHG110110 CHG110110 CHG115100	Ities & Services Diversions GS: Utilities detection & trial pit excavation ER: G4S (04/170) Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report Bored Piling G4S: 1st Bored Pile G4S: 2nd Bored Pile G4S: 2nd Bored Pile G4S: 2nd Bored Pile	72	2 2 3 3 5 5 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 5 18/10/02 1 07/11/02	18/12/02 28/09/02 30/09/02 05/10/02 12/10/02 31/10/02 21/10/02 07/11/02	-58 -56 -56 -59 203 -56				MIG4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report G4S: 1st Bored Pile G4S: 1st Interface core test[] G4S: 2nd Interface core test[]
RUDGE G1: PIE G1: PIer G5 Uii CH3140100 IRUDGE G1: PIE G1: PIer G4S U CH3105100 CH3105101 G1: PIer G4S S CH3110100 CH3110120 CH3110120 CH3115100 CH3115110 CH3115110 CH3115110 CH3115110	Ities & Services Diversions G5: Utilities detection & trial pit excevation ER: G4S (04/570). Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report 30red Piting G4S: 1st Bored Pite G4S: 2nd Bored Pite G4S: 2nd Bored Pite G4S: 2nd Interface core test C4S: 3rd Bored Pite	75	55 1 1 5 5 5 1 1 5 5 5 5 5 5 5 5 5 5 5	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 1 07/11/02 5 23/10/02	18/12/02 28/09/02 30/09/02 05/10/02 12/10/02 31/10/02 21/10/02 07/11/02 28/10/02	-58 -58 -58 -59 -59 -59 -59 -59 -59				G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report G4S: 1st Bored Pile G4S: 1st: Interface core test[] G4S: 2nd Interface core test[] G4S: 2nd Interface core test[]
RIDGE G1: PIE G1: PIEr G5 UB CHG140100 RIDGE G1: PIE G1: PIEr G4S U CHG105100 CHG105101 G1: PIEr G4S S CHG110100 CHG110110 CHG110120 CHG115100 CHG115110 CHG115110 CHG115110 CHG115110 CHG115110 CHG115110 CHG115110 CHG115110	Ities & Services Diversions G5: Utilities detection & trial pit excevation ERCG4S (04/570). Ditties & Services Diversions G4S: Utilities Detection & Dig Trial Pit C4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report G4S: 1st Bored Pite G4S: 1st Interface core test G4S: 2nd Interface core test C4S: 3rd Interface core test C4S: 3rd Interface core test	75	55 1 1 5 5 5 1 1 5 5 5 5 5 5 5 5 5 5 5	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 1 07/11/02 5 23/10/02 1 14/11/02	18/12/02 26/09/02 30/09/02 05/10/02 12/10/02 31/10/02 21/10/02 07/11/02 28/10/02 14/11/02	-50 -50 -50 -50 -50 -50 -50 -50 -50 -50				G4S: Site investigation G4S: Prepare & submit the SI report G4S: Approval SI report G4S: 1st Bored Pile G4S: 1st Interface core test[] G4S: 2nd Interface core test[] G4S: 3nd Interface core test[] G4S: 3nd Interface core test[] G4S: 4th Bored Pile
RIDGE G1: Pier G5 U8 CHG140100 RIDGE G1: Pier G5 U8 G1: Pier G5 U8 G1: Pier G4 U8 G1: Pier G4 U8 CHG10100 CHG110100 CHG110100 CHG110100 CHG115100 CHG115150 CHG115150 CHG115150 CHG115160 CHG115160	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G45 (04/170). Polities & Services Diversions G45: Utilities Detection & Dig Trial Pit G45: Re-route Public Lighting Cables Sir Pre-Drilling G45: Site investigation G45: Prepare & submit the Si report G45: Approval Si report Sored Piling G45: 1st Interface core test G45: 2nd Bored Pile G45: 2nd Bored Pile G45: 3rd Bored Pile G45: 3rd Interface core test G45: 3rd Interface core test G45: 3rd Interface core test	79	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 1 07/11/02 5 23/10/02 1 14/11/02 5 30/10/02	18/12/02 28/09/02 30/09/02 05/10/02 12/10/02 21/10/02 07/11/02 28/10/02 14/11/02 04/11/02	-58 -58 -58 -59 -59 -59 -59 -59 -59 -59 -59 -59 -59				MIG4S: Site investigation IG4S: Prepare & submit the SI report IG4S: Approval SI report IG4S: 1st Bored Pile G4S: 1st Interface core test[] IG4S: 2nd Interface core test[] IG4S: 3nd Interface core test[] G4S: 4th Bored Pile G4S: 4th Interface core test[]
RIDGE G1: PIE G1: PIEr G5 Us CH3140100 RIDGE G1: PIE G1: PIEr G4S U CH3105100 CH3105100 CH3110100 CH3110100 CH3110120 CH3110100 CH3115100 CH3115100 CH3115100 CH3115140 CH3115140 CH3115140 CH3115140 CH3115140 CH3115160 CH3115170	Ities & Services Diversions G5: Utilities detection & trial pit excevation Ex G4S (04/370). Dilities & Services Diversions G4S: Utilities Detection & Dig Trial Pit G4S: Re-route Public Lighting Cables Si Pre-Drilling G4S: Site investigation G4S: Prepare & submit the Si report G4S: Approval Si report G4S: 1st Bored Pite G4S: 1st Interface core test G4S: 2nd Interface core test G4S: 3rd Interface core test G4S: 3rd Interface core test G4S: 4th Bored Pite G4S: 4th Interface core test G4S: 4th Interface core test G4S: 4th Interface core test	79	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 5 16/10/02 1 07/11/02 5 23/10/02 1 14/11/02 5 30/10/02	18/12/02 28/09/02 30/09/02 05/10/02 12/10/02 31/10/02 21/10/02 07/11/02 28/10/02 14/11/02 04/11/02	-58 -58 -58 -58 -59 203 -55 198 -56 -56 -56				MIG4S: Site investigation IG4S: Prepare & submit the SI report IG4S: Approval SI report IG4S: 1st Bored Pile G4S: 1st Interface core test[] IG4S: 2nd Interface core test[] IG4S: 3nd Interface core test[] G4S: 4th Bored Pile G4S: 4th Interface core test[]
RIDGE G1: Pier G5 U8 CHS140100 RRIDGE G1: Pier G5 U8 CHS140100 RRIDGE G1: Pier G4S U8 CHS105100 CHS105100 CHS105101 G1: Pier G4S S CHS110100 CHS110110 CHS110120 G1: Pier G4S S CHS110100 CHS115110 CHS115110 CHS115120 CHS115130 CHS115140 CHS115150 CHS115150 CHS115160 CHS115160 CHS115170 CHS115170 CHS115180 COMSTRUCT B8 GSSDGE G2: PIER GSS U8	Ities & Services Diversions G5: Utilities detection & trial pit excavation ER G45 (04/170) Dilities & Services Diversions G45: Utilities Detection & Dig Trial Pit G45: Re-route Public Lighting Cables Si Pre-Drilling G45: Site investigation G45: Prepare & submit the Si report G45: Approval Si report Bored Piling G45: 1st Bored Pile G45: 1st Interface core test G45: 2nd Interface core test G45: 3rd Bored Pile G45: 3rd Interface core test G45: 3rd Interface core test G45: 3rd Interface core test G45: 4th Bored Pile G45: 4th Bored Pile G45: 5cric test RDGE G2 - STAGE 2 WORKS	79	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 19/08/02A 1 22/11/02 2 04/09/02A 3 27/09/02 4 02/10/02 5 08/10/02 1 31/10/02 5 16/10/02 1 07/11/02 5 23/10/02 1 14/11/02 5 30/10/02	18/12/02 28/09/02 30/09/02 05/10/02 12/10/02 31/10/02 21/10/02 07/11/02 28/10/02 14/11/02 04/11/02	-58 -58 -58 -58 -59 203 -55 198 -56 -56 -56				MIG4S: Site investigation IG4S: Prepare & submit the SI report IG4S: Approval SI report IG4S: 1st Bored Pile G4S: 1st Interface core test[] IG4S: 2nd Interface core test[] IG4S: 3nd Interface core test[] G4S: 4th Bored Pile G4S: 4th Interface core test[]
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OCT NOV	AUG SEP 26 2 9 16	As-planned Early Finish	As-planned Early Start	Total Float	Early Finish	Early Start		Comp	Activity Description		Activity ID
TD traffic advice/gazette notice	네티아의 하시 경기도 있었다면?			46	15/11/02	02/11/02	14	0	D traffic advice/gazette notice	SB44E: Apply TD to	H6924120
SB44E: Meeting with RMO			1	46	18/11/02	16/11/02	3	0	with RMO	SB44E: Meeting with	6924130
SB44E Receive road works advice@				46	20/11/02	19/11/02	2	0	e road works advice	SB44E: Receive roa	6924140
S844E: Preparation for commencement				48	23/11/02	21/11/02	3	0	ation for commencement	SB44E: Preparation	6924150
S844E: Implementation of TTAE	1 Na. 2			46	25/11/02	19/11/02	7	٥	entation of TTA	SB44E: Implementa	6924160
		Material I	MEDINE.	4496						TER SS44W (W Utilities & Service	
		- 1		11	27/12/02	21/12/02	4	0	Detection & Dig Trial Pit		
								7			STRUCT BRI
		4500000C					5019	5/6/2/253		1 Utilities & Services	
NB31: Watermain di	H			0	25/10/02	20/09/02A	27	10	in diversion (400D.I)	NB31: Watermain d	6406110
	0.7		(C. 1905)	19	24/09/02	01/06/02A	4	50	& Submit Pre-drill SI Report	1 St Pre-Drilling NB31: Prepare & St	
INB31: Prepare & Submit Pre-drill SI Report INB31: Approval Pre-drill SI report				19	02/10/02	25/09/02	6	- 0	Pre-drill Si report	NB31: Approval Pre	H6411120
CELLANIST: Approval Pre-onil Si report		12 (6)		to the late of	20000		UPDA	2555020	eranarista, en en en	1 Bored Piling	12: Pier NB31
1st: Bored Pile	-			0	30/10/02	26/10/02		0	2007年7月4日21	1st Bored Pile	46414100
1st Interface core tests				0	16/11/02	16/11/02		٥	ye last	1st: Interface core is	16414110
Sonic test®				0	16/11/02	16/11/02	1	0		Sonic test	16414180
Sheet Pile driving				0	19/11/02	18/11/02	2	1 0	4	1 Pile Cap Sheet Pile driving	L12: Pier NB31 6417100
Excavate & shoring support			-	0	22/11/02	20/11/02	3	0		Excavate & shoring	
Cut Pile he				0	28/11/02	23/11/02	5	0		Cut Pile head	6417120
COLUMN THE				0	28/11/02	28/11/02	1	0	 	Lay blinding layer	16417130
				0	29/11/02	29/11/02	1	0	ion	Formwork erection	6417140
	-			0	02/12/02	29/11/02	3	0	fixing	Reinforcement fixing	46417150
				0	03/12/02	03/12/02	1	0	orluClean & Concrete	Final fix Formwork/	H6417160
				0	05/12/02	04/12/02	2	0	ork & bituminous print	Remove formwork 8	H6417170
				0	07/12/02	06/12/02	2	0	E-market and a second	Backfill	H6417180
				0	10/12/02	09/12/02	2	0	oot Pilos	Remove the sheet	H6417190
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	2.1	en de la companya de		No.			-		ices Diversions	PIER N832 32 Utilities & Services	L12: Pier NB3
INB32: Utilities detection & trial pit excavation				9	24/09/02	20/04/02A 25/09/02		50	detection & trial pit excavation		H6429100
NB32: Orainage dive					25/10/02	25/09/02		0	in diversion (300)	NB32 Drainage div	H6429110 H6429130
NB32: Gas main div	- 1			9	25/10/02	25/09/02A		1 0	41 94331 BB	NB32 Temporary s	H6429140
NB32: Temporary sk		1022300000000	GOLDHINESHO	BUILDES PRO	STATE OF THE STATE					1 2 2 2 2 2	Maria Company
IIIINB32: Site investigation	4.			22	27/09/02	23/09/02	5	0		NB32 Site investig	H6432100
SD@Prepare & submit the SI report				22	02/10/02	28/09/02	3	0	mit the SI report	Prepare & submit 9	H6432110
Approval SI report	r Madil			22	09/10/02	03/10/02		0	noc	Approval SI report	H6432120
				T 3	06/11/02	02/11/02	1 4	1 0		32 Bored Piling 1st; Bored Pile	8.12: Pier NB3 H8435100
1st: Bored Please 1st Interface core to		1 11 11	of Charles and Sec	18	23/11/02	23/11/02		0	ove lest	1st Interface core	HS435110
Sonic t		-	7 7 2	18	23/11/02	23/11/02	1.0	0		Sonic test	H6435180
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The second secon].			18	05/12/02	5 30/11/02	9	0	A THE	Cut Pile head	H6438120
		de l'ex		18	05/12/02	1 05/12/02	10.0	0	yer	Lay blinding layer	H6438130
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	10.7		L. Ser, - C. 17	18	09/12/02	3 06/12/02		0	기계 경기의 기가에 가장 가장 그 때문	Reinforcement fixe	H6438150
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				18	12/12/02	2 11/12/02	0 3	-	vort/Clean & Concrete work & bituminous print	Remove formwork	
				18	12/12/02	2 11/12/02 2 13/12/02	0 3	0	work & bituminous print	Remove formwork Backfill	346438170 346438180
				18	12/12/02	2 11/12/02	0 3	-	work & bituminous print	Remove formwork Backfill Remove the sheet	#6438170 #6438180 #6438190
				18	12/12/02	2 11/12/02 2 13/12/02	0 3	0	work & bituminous print	Remove formwork Backfill Remove the sheet	CH6438170 CH6438180 CH6438190 CH6438190
gation	NB33: Site invest			18	12/12/02	2 11/12/02 2 13/12/02	0 3	0	work & bituminous print	Remove formwork Backfill Remove the sheet	CH6438170 CH6438180 CH6438190 RBDGE ML12: ML12: Pier NB:
gation MNB33: Prepare & submit the SI report	NB33: Site invest			18	12/12/02 14/12/02 17/12/02	2 11/12/02 2 13/12/02 2 16/12/02	0 3	0 0	work & bituminous print	Remove formwork Backfill Remove the sheet PIER NESS 33 SI Pre-Onling NB33: Site investig	CH6438170 CH6438180 CH6438190 REDGE ML12: ML12: Pier NB: CH6453100
Archaeth cearailteach - Si	NB33: Site invest			18	12/12/02 14/12/02 17/12/02 31/08/02A	2 11/12/02 2 13/12/02 2 16/12/02 0 21/08/02A	0 3	000	estigation a submit the SI report	Remove formwork Backfill Remove the sheet PIER NESS 33 SI Pre-Onling NB33: Site investig	CH6438170 CH6438180 CH6438190 RIDGE ML12: ML12: Pier NB: CH6453100 CH6453110
IINB33: Prepare & submit the SI report	NB33: Site invest			18 18 18 60	12/12/02 14/12/02 17/12/02 31/08/02A 26/09/02 04/10/02	2 11/12/02 2 13/12/02 2 16/12/02 2 16/12/02 0 21/08/02A 4 02/09/02A 6 27/09/02	0 3 0 3 0 3 0 2 0 2	1000	nork & bituminous print heet Piles resignation a & submit the SI report al SI report	Ramove formwork Backfill Remove the sheet PRER NB33 33 SI Pre-Drilling NB33: Site investig NB33: Prepare & c NB33: Approval S 333 Bored Piling	CH6438170 CH6438180 CH6438190 REDGE ML12: ML12: Pier NB: CH6453110 CH6453120 ML12: Pier NB:
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ID	Activity Description	Comp	Orig Dur	Early Start	Early Finish	Total Float	As-planned As-planned Early Start Early Finish	AUG SEP 26 2 9 16	23 30 7 14 21 28 4 11 18
H6456180	Sonic test	0	- 1	05/12/02	05/12/02	28			
IL12: Pier NB33		0	2	06/12/02	07/12/02	28			
	Sheet Pile driving	0		09/12/02	11/12/02	28			
	Excavate & shoring support	0		12/12/02	17/12/02	28			
	Cut Pile head	0		17/12/02	17/12/02	28			5.
16459130	Lay blinding layer				18/12/02	28			
16459140	Formwork erection	0		18/12/02					
H6459150	Reinforcement fixing	0		18/12/02	20/12/02	28			
H6459160	Final fix Formwork/Clean & Concrete	0	1	21/12/02	21/12/02	28			
DGE ML12: P	MER NB34 4 St Pre-Onling			200000	PER			4	
	NB34: Prepare & submit the SI report	100	4	21/06/02A	17/09/02A	T		NB:	4: Prepare & submit the SI report
6474120	NB34: Approval SI report	0	6	18/09/02A	26/09/02	11		-	☑NB34: Approval SI report
L12: Pier NB34			No.		18.00	50.55			
16477100	NB34: 1st: Bored Pile	0		20/09/02A	26/09/02	11			IIINB34: 1st: Bored Pile
6477110	1st: Interface core fest	0		15/10/02	16/10/02	89			B1st: Interface core test
6477120	2nd: Bored Pile	0		03/10/02	07/10/02	11			EEE2nd: Bored Pile
6477130	2nd: Interface core test	0		25/10/02	25/10/02	82			82nd: Interface core te
6477140	3rd: Bored Pile	0		15/10/02	18/10/02	11			Sand: Bored Pile
16477150	3rd: Interface core test	0		05/11/02	05/11/02	74			3rd: Interface core test[j
6477180	Sonic test	0	1	05/11/02	05/11/02	74			[ISonic test
	PER NB3S(M)	WALES OF	15.50	U SPELLAND		2335	80 000 F 305 00 00	A	
	5 SI Pre-Drilling NB35: Prepare & submit the SI report	100	4	25/06/02A	17/09/02A	1		NB	5: Prepare & submit the SI report
16495120	NB35: Approve SI Report	0	6	18/09/02A	28/09/02	11			IIIIINB35: Approve SI Report
	5 Bored Piling	2510530	955002			- 150000000	ALTERNATION TO SEE		September of region
H6498100	NB35 1st Bored Pile	0	4	25/09/02	28/09/02	11		1	IIIINB35: 1st: Bored Pile
H6498110	1st: Interface core test	.0	1	18/10/02	18/10/02	112		1	B1st Interface core test
H6498140	2nd: Bored Pile	0	4	07/10/02	10/10/02	11			EIII2nd: Bored Pile
H6498150	2nd: Interface core test	0	1	29/10/02	29/10/02	104		1	2nd: Interface core test[]
H6498180	Sonic test	0	1	29/10/02	29/10/02	104			Sonic test
RIDGE ML12: F	PIER NB36(M)	No.	THE REAL PROPERTY.				200 Land 60 Land		
IL12: Pier NB3 H6519110	6 Bored Piling NB36: 1st: Interface core test	100	1	11/09/02A	11/09/02A	in the same			
1134	NB36: 2nd: Interface core test	100		16/09/02A	16/09/02A	-			t: Interface core test
H6519130	NB36: 3rd: Bored Pile	100		22/08/02A	28/08/02A			-	: 2nd: Interface core test
H6519140				1	19/09/02A	-		NB36: 3rd: Bored P	ı
		100							
	NB36: 3rd: Interface core test	100		19/09/02A		21		- · · · · · · · · · · · · · · · · · · ·	36: 3rd: Interface core test
H6519180	NB36: Sonic test			23/09/02	23/09/02	21			SNB36: Sonic test
H6519180	NB36: Sonic test	-	1			21			
H6519180 L12: Pier NB3 H6522100	NB36: Sonic test 36 Pile Cap			23/09/02	23/09/02	39.870			INB36: Sonic test
H6519180 IL12: Pier NB3 H6522100 H8522110	NB36: Sonic test 36 Pile Cap NB36: Sheet Pile driving		0 1	23/09/02	23/09/02	21			NB36: Soric test
H6519180 L12: Pier NB3 H6522100 H6522110 H6522120	NB36: Sonic test 96 Pile Cap NB36: Sheet Pile driving NB36: Excavate & shoring support		0 3	23/09/02 2 24/09/02 3 26/09/02	23/09/02 25/09/02 28/09/02	21			INB36: Sonic test EINB36: Sheet Pile driving EIINB36: Excavate & shoring support DEIINB36: Cut Pile head
H6519180 L12: Pier NB3 H6522100 H6522110 H6522120 H6522130	NB36: Sonic test 36 Pile Cap NB36: Sheet Pile driving NB36: Excavate & shoring support NB36: Cut Pile head		0 1	23/09/02 2 24/09/02 3 26/09/02 5 30/09/02	23/09/02 25/09/02 28/09/02 05/10/02	21 21 21			INB36: Sonic test IIINB36: Sheet Pile driving IIINB36: Excavate & shoring support
H6519180 L12: Pier NB3 H6522100 H6522110 H6522120 H6522130 H6522140	NB36: Sonic test 36 Pile Cap NB36: Sheet Pile driving NB36: Excavate & shoring support NB36: Cut Pile head NB36: Lay blinding layer NB36: Formwork erection		0 1	23/09/02 24/09/02 3 26/09/02 5 30/09/02 1 05/10/02	23/09/02 25/09/02 28/09/02 05/10/02	21 21 21 21			INB36: Soric test IINB36: Sheet Pile driving IIINB36: Excavate & shoring support IIIINB36: Cut Pile head IINB36: Lay blinding layer IINB36: Formwork erection
HISS19180 IL 12: Pier NB3 HISS22100 HISS22110 HISS22120 HISS22120 HISS22130 HISS22140 HISS22140 HISS22150	NB36: Sonic test 36 Pile Cap NB36: Sheet Pile driving NB36: Excavate & shoring support NB36: Cut Pile head NB36: Lay blinding layer NB36: Formwork erection NB36: Reinforcement fixing		0 1	23/09/02 2 24/09/02 3 26/09/02 5 30/09/02 1 05/10/02	25/09/02 25/09/02 28/09/02 05/10/02 05/10/02	21 21 21 21 21			INB36: Soric test IINB36: Sheet Pile driving. IIINB36: Excavate & shoring support. IVIIINB36: Cut Pile head IINB36: Lay blinding layer IINB36: Formwork erection IIINB36: Reinforcement fixing
H6519180 #L12: Pier NB3 246522100 246522110 246522120 246522130 246522140 246522150 246522150 246522160	NB36: Sonic test 36 Pile Cap NB36: Sheet Pile driving NB36: Excavate & shoring support NB36: Cut Pile head NB36: Lay blinding layer NB36: Formwork erection NB36: Reinforcement foling NB36: Final fix Formwork/Clean & Concrete		0 10 20 20 20 20 20 20 20 20 20 20 20 20 20	23/09/02 2 24/09/02 3 26/09/02 5 30/09/02 1 05/10/02 1 07/10/02 3 07/10/02	25/09/02 25/09/02 28/09/02 05/10/02 05/10/02 07/10/02	21 21 21 21 21 21			INB36: Sonic test IIINB36: Sheet Pile driving IIINB36: Excavate & shoring support IIIINB36: Excavate & shoring support IIIINB36: Cut Pile head IIINB36: Formwork erection IIINB36: Reinforcement fixing IINB36: Final fix Formwork/Clean
H6519180 ML12: Pier NB3 H6522100 H6522110 H6522120 H6522130 H6522140 H6522150 H6522160 H6522170	NB36: Sonic test 36 Pile Cap NB36: Sheet Pile driving NB36: Excavate & shoring support NB36: Cut Pile head NB36: Lay blinding layer NB36: Formwork erection NB36: Reinforcement fixing NB36: Final fix Formwork/Clean & Concrete NB36: Remove formwork & bituminous print		0 1	23/09/02 2 24/09/02 3 26/09/02 5 30/09/02 1 05/10/02 1 07/10/02 3 07/10/02	25/09/02 25/09/02 28/09/02 05/10/02 05/10/02 07/10/02 09/10/02	21 21 21 21 21 21 21			INB36: Soric test IINB36: Sheet Pile driving IIINB36: Excavate & shoring support IIIINB36: Cut Pile head IINB36: Lay blinding layer IINB36: Formwork erection IIINB36: Reinforcement fixing IINB36: Final fix Formwork/Clean IINB36: Remove formwork & bit.
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H6282110	epare & submit the SI report oproval SI report ling it: Bored Pile it interface core test ad Bored Pile id interface core test d Bored Pile d interface core test	0	6 21/08/02A 4 04/10/02 1 28/10/02 4 16/10/02 1 08/11/02 4 23/10/02 1 13/11/02 1 13/11/02	04/10/02 08/10/02 26/10/02 19/10/02 08/11/02 26/10/02 13/11/02	1,527 0 56 0 48 43			SB32: Approval SI report SB32: 1st: Bored Pile SB32: 1st Interface core test[] SB32: 2nd Interface core test[] SB32: 3rd Bored Pile SB32: 3rd Bored Pile
IL 11: Pier S832 Bored Pili H6285100 S832: 1et H6285110 S832: 1et H6285110 S832: 2nd H6285120 S832: 2nd H6285160 S832: 2nd H6285160 S832: 3nd H6285170 S832: 3nd H6285180 Sonic test IL 11: Pier S832 Pile Cap H6288110 Excavate H6288110 Excavate H6288130 Lay bindis H6288130 Lay bindis H6288140 Formwork H6288150 Reinforce H6288160 Final fix F H6288160 Backfill H6288160 Backfill H6288160 Remove I H6288180 Backfill H6288180 Remove I H6288180 Remove I	ing It: Bored Pile It interface core test Id Bored Pile Id Interface core test Id Bored Pile Id Interface core test Id Bored Pile Id Interface core test It	0 0 0 0 0 0 0 0 0	4 04/10/02 1 28/10/02 4 16/10/02 1 06/11/02 4 23/10/02 1 13/11/02 1 13/11/02	08/10/02 26/10/02 19/10/02 06/11/02 28/10/02 13/11/02	0 56 0 46 43			SB32: Approval SI report SB32: 1st: Bored Pile SB32: 1st Interface core test[] SB32: 2nd Interface core test[] SB32: 3rd Bored Pile SB32: 3rd Bored Pile
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H6285110 S832: 1st H6285120 S832: 2nd H6285130 S832: 2nd H6285160 S832: 3nd H6285170 S832: 3nd H6285170 S832: 3nd H6285170 S832: 3nd H6285180 Sonic test IL.11: Pier S832 Pile Cap 2H6288100 Sheet Pile H6288110 Excavate 2H6288130 Lay bindis 2H6288140 Formwork 2H6288150 Reinforce 2H6288160 Final fix F 2H6288160 Backfill 2H6288160 Remove I	it innerface core test ad Bored Pile ad Interface core test d Bored Pile d Interface core test st te driving	0 0 0	1 26/10/02 4 16/10/02 1 06/11/02 4 23/10/02 1 13/11/02 1 13/11/02	26/10/02 19/10/02 06/11/02 26/10/02 13/11/02	56 0 48 43			SB32: 1st Interface core test[] IIIISB32: 2nd Bored Pile SB32: 2nd Interface core test[] IIIISB32: 3rd Bored Pile SB32: 3rd Interface core test[]
H6285120 S832 2nd H6265130 S832 2nd H6265130 S832 2nd H6265160 S832 3nd H6285160 S832 3nd H6285180 Sonic test HL11: Pier S832 Pile Cap 246288100 Street Pile H6288110 Excavate H6288130 Lay bindi H6288140 Formwork H6288160 Final fix F H6288160 Final fix F H6288160 Blackfill H6288160 Blackfill H6288160 Remove I H6288160 Remove I H6288160 Remove I	nd Bored Pile nd Interface core test d Bored Pile d Interface core test st te driving	0 0 0	4 16/10/02 1 06/11/02 4 23/10/02 1 13/11/02 1 13/11/02	19/10/02 06/11/02 26/10/02 13/11/02	48 43 43			SB32: 2nd Bored Pile SB32: 2nd Interface core test[] SB32: 3rd Bored Pile SB32: 3rd Interface core test[]
H6285130 S832: 2m H6285160 S832: 3m H6285170 S832: 3m H6285180 Sonic test H111: Pier S832 Pite Cap H6288100 Sheet Pier H6288100 Excavate H6288130 Lay bindi H6288140 Formwork H6288160 Final fix F H6288160 Backfill H6288160 Backfill H6288160 Remove 1 H6288160 Remove 1 H6288180 Remove 1	nd Interface core test d Bored Pile d Interface core test st	0 0	1 08/11/02 4 23/10/02 1 13/11/02 1 13/11/02	06/11/02 26/10/02 13/11/02 13/11/02	43			SB32: 2nd Interface core test[] SB32: 3rd Bored Pile SB32: 3rd Interface core test[]
146285160 SB32: 3rd 146285170 SB32: 3rd 146285180 Sonic test 14.11: Pier SB32 Pile Cap 146288100 Excavate 146288100 Cut Pile in 146288130 Lay bindic 146288140 Formwork 146288160 Final fix F 146288160 Backfill 146288160 Backfill 146288160 Remove I 146288160 Ramove I	d Bored Pile d interface core test st le driving	0 0	4 23/10/02 1 13/11/02 1 13/11/02	26/10/02 13/11/02 13/11/02	43			SB32: 3rd Interface core test()
#H6285170 SB32: 3rd #H6285180 Sonic test #L11: Pier SB32 Pile Cap #H6288100 Sheet Pile #H6288110 Excavate #H6288130 Lay bindi #H6288130 Lay bindi #H6288150 Reinforce #H6288150 Final fix F #H6288160 Backfil #H6288160 Backfil #H6288160 Remove 1	d interface core test st le driving	0	1 13/11/02	13/11/02	43			SB32: 3rd Interface core test()
H6285180 Sonic test #L11 Pier SB32 Pile Cap ##6288100 Sheet Pile ##6288100 Cut Pile in ##6288130 Lay bindi ##6288140 Formwork ##6288150 Reinforce ##6288160 Final fix F ##6288160 Backfill ##6288160 Remove I ##6288160 Remove II ##6288160 Remove I	it ie driving	0	1 13/11/02	13/11/02				The second secon
ALT: Pier S832 Pite Cap PH0288100 Sheet Pier PH0288110 Excavate PH0288130 Cut Pile in PH0288130 Lay bindi PH0288140 Formwork PH0288160 Final fix F PH0288160 Backfill PH0288160 Remove I PH0288160 Remove I PH0288160 Remove I	le driving	Edelet Fil			43			The second secon
CH6286100 Sheet Pile CH6286110 Excavate CH6286120 Cut Pile in CH6286130 Lay bindi CH6286140 Formwork CH6286150 Reinforce CH6286160 Final fix F CH6286160 Backfill CH6286180 Backfill CH6286190 Remove I ML11: Piler S832 Column (CH6291100 1st Column	e driving	0	2 23/11/02	25/11/02	-		1	Sonic test[]
CH6288100 Sheet Pile CH6288110 Excavate CH6288120 Cut Pile in CH6288130 Lay bindi CH6288140 Formwork CH6288160 Final fix F CH6288160 Reinforce CH6288160 Backfill CH6288180 Backfill CH6288190 Remove I ML11: Piler S832 Column (CH6291100 Ist Column	e driving	0	2 23/11/02	25/11/02			1000	
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CH6286130 Lay bindi CH6286140 Formwork CH6286150 Reinforce CH6286160 Final fix F CH6286170 Remove 1 CH6286180 Backfill CH6286190 Remove 1 ML11: Pier SB32 Column (CH6291100 Ist Colum	· · · · · · · · · · · · · · · · · · ·	0	3 26/11/02	28/11/02	35			
CH6288140 Formwork CH6288150 Reinforce CH6288160 Final fix F CH6288170 Remove I CH6288180 Backfill CH6288190 Remove I UL11: Pier SB32 Column (CH6291100 Ist Colum	head	0	5 29/11/02	04/12/02	35			
2H6288150 Reinforce 2H6288160 Final fix F 2H6288170 Remove 1 2H6288180 Backfill 2H6288190 Remove 1 4L.11: Pier SB32 Column (2H6291100 1st Colum	ling layer	0	1 04/12/02	04/12/02	35			
CH6288160 Final fix F CH6286170 Remove I CH6288180 Backfill CH6288190 Remove I ML11: Pier SB32 Column (CH6291100 Ist Colum	k erection	0	1 05/12/02	05/12/02	35			
CH6288180 Backfill CH6288180 Backfill CH6288190 Remove I ML11: Pier SB32 Column (CH6291100 Ist Colum	ement fixing	0	3 05/12/02	07/12/02	35			
CH6288180 Backfill CH6288190 Remove I ML11: Pier SB32 Column (CH6291100 Ist Colum	Formwork/Clean & Concrete	0	1 09/12/02	09/12/02	35			
CH6288180 Backfill CH6288190 Remove I ML11: Pier SB32 Column (CH6291100 Ist Colum	formwork & bituminous print	- 0	2 10/12/02	11/12/02	35			
CH6288190 Remove (ML11: Pier SB32 Column (CH6291100 1st Colum		- 0	2 12/12/02	13/12/02	35			T
ML11: Pier SB32 Column (CH6291100 1st Colum	the sheet Piles	0	2 14/12/02	16/12/02	35			
346291100 1st Colum			177.54	1000			The Company of the Co	
RIDGE ML11: PIER 5833		0	6 21/12/02	30/12/02	31		SALOR BANK	
SOOC ME THE MAN DOOR				CALE DE LA COMP	00000000		20220	le s
ML11: Pier SB33 SI Pre-Di	Orilling						P. 191	
	ite investigation	100	20 14/08/02A	26/06/02A	122		■S833: Ste	investigation
CH6300110 SB33: Pr	repare & submit the SI report	. , 0	4 27/08/02A	26/09/02	57	4 1 1 2		S833: Prepare & submit the SI report
CH6300120 SB33: Ag	oproval SI report	0	6 27/09/02	04/10/02	57	7 THE C	- 55.2	SB33: Approval SI report
ML11: Pier SB33 Bored Pi	Ning	ROUND STA	Elecusion	14/11/02	28	16 to		
CH6303100 1st: Bore		0	5 09/11/02	17.793	× 10.7	11 - 1-3		1st: Bored Pile
	rface core test	0	1 02/12/02	02/12/02	59	18	12 12	- 2 .] - *
CH6303150 Sonic tes	ot and a second	0	1 02/12/02	02/12/02	50	5-77		
RIDGE ML11: PIER SB34	A STATE OF THE PARTY OF THE PAR			WELL STREET	No.		10000	(3/4)
AL11: Pier S834 TTA Imp 348312120 S834: A	plementation oply traffic advice/gazette notice from T	100	14 19/08/02A	30/08/02A				Apply traffic advice/gazette notice from T
	Ageting with RMO	0		25/09/02	16	THE STATE OF THE S	5834:7	11 (12 22) 31 - 17 (12 - 12 - 12 - 12 - 12 - 12 - 12 - 12
THE RESERVE	Receive road works advice	0	2 26/09/02	27/09/02	16	120,000		IIISB34: Meeting with RMO
		0	3 28/09/02	30/09/02	18	131		IIISB34: Receive road works advice
70737.1	Preparation for commencement	1 2 2 2	- 4 MONTH					S834: Preparation for commencement
CH6312160 SB34: In	mplementation of TTA		7 26/09/02	02/10/02	16	\$100 m	45 25 . 71	S834: Implementation of TTA
ML11: Pier S834 Utilities		1 0	4 25/04/02A	26/09/02	17	SECTION AND ADDRESS OF		
		0		16/10/02	13	The St La		SB34: Utilities detection & trial pit excavation
CH6315110 SB34: D	& Services Diversions Utilises detection & trial pit excavation Drainage Diversion (300)		11 03/10/02	16/10/02	1,		S834: Drain	age Diversion (300)

ID	Activity Description	% Comp	Orig Dur	Early Start	Early Finish	Total Float	As-planned Early Start	2 No. 3 A 7 S S 13 O C 46 O C 66	AUG SEP	2002 OCT NOV 23 30 7 .14 21 28 4 .11 .18
ML11: Pier SB34 CH6318100	SI Pro-Orilling SB34: Site investigation	0	e cua	03/10/02	08/10/02	13	MATERIAL STREET	Selection.	20 2 3 16	
	SB34: Prepare & submit the SI report	0		09/10/02	10/10/02	13		-	Luce was a	SB34: Site investigation
CH6318120	SB34: Approval Pre-drill SI report	0		11/10/02	12/10/02	13			SB34 Prepare & submit	the SI report IIS834: Approval Pre-drill SI report
ML11: Pier SB34					1075-0150E					III.3634. Approva Pre-onii Si report
	SB34: 1st: Bored Pile	0		17/10/02	21/10/02	11				SB34: 1st: Bored Pile
	SB34: 1st: Interface core test SB34: 2nd: Bored Pile	0		07/11/02	07/11/02	18				SB34: 1st: Interface core test]
	SB34: 2nd: Interface core test	0		22/10/02	25/10/02	11				IIIISB34: 2nd: Bored Pile
	3834: 3rd: Bored Pile	0		26/10/02	30/10/02	15			-	SB34: 2nd: Interface core test[]
	SB34: 3rd: Interface core test	0		16/11/02	16/11/02	12				S834: 3rd: Bored Pile
	SB34: Sonic test	0		16/11/02	16/11/02	12				SB34: 3rd: Interface core test[]
ML11: Pier SB34					1011002	WELCONDE VAL		1000 4000		SB34: Sonic test[]
	SB34: Sheet Pile driving	0	2	18/11/02	19/11/02	12			1	SB34: Sheet Pile driving[]]
CH5324110	SB34: Excavate & shoring support	0	3	20/11/02	22/11/02	12				SB34: Excavate & shoring support
CH6324120	SB34: Cut Pile head	0	5	23/11/02	28/11/02	12				SB34: Cut Pile head
CH6324130	SB34: Lay blinding layer	0	1	28/11/02	28/11/02	12			1	
CH6324140	SB34: Formwork erection	0	1	29/11/02	29/11/02	12			1	
	SB34: Reinforcement fixing	0		29/11/02	02/12/02	12]	
	SB34: Final fix Formwork/Clean & Concrete	0		03/12/02	03/12/02	12]	
	SB34: Remove formwork & bituminous print	0		04/12/02	05/12/02	12]	
	SB34: Backfill	0		06/12/02	07/12/02	12				
	SB34: Remove the sheet Piles	0	2	09/12/02	10/12/02	12				
RIDGE ML11: PIE ML11: Pier SB35						00100				
	SB35: Prepare & submit the SI report	100	4	18/06/02A	20/09/02A	T		T	s	335: Prepare & submit the SI report
CH6336120	SB35: Approval SI report	0	6	21/09/02A	30/09/02	1,530				
ML11: Pier SB35 CH6339100	Bored Piling SB35: 1st Bored Pile	0		28/09/02	03/10/02	11		2.030.00		
	SB35: 1st Bored Pile SB35: 1st Interface core test	- 0		22/10/02	22/10/02	53				III AII SB35: 1st Bored Pile
	SB35: 2nd Bored Pile	0		10/10/02	15/10/02	11			SB3	1st Interface core test[]
	SB35: 2nd Interface core lest	0		01/11/02	01/11/02	45				EIIIP@SB35: 2nd Bored Pile
	Sonic test	0		01/11/02	01/11/02	45			-	SB35: 2nd Interface core test[
ML11: Pier SB35			0.000		1	10				ISonic test
	Sheet Pile driving	0	2	11/12/02	12/12/02	12				
CH6342110	Excavate & shoring support	0	3	13/12/02	16/12/02	12			1	
CH6342120	Cut Pile head	0	5	17/12/02	21/12/02	12				
CH6342130	Lay blinding layer	0	1	21/12/02	21/12/02	12			1	
BRIDGE ML11: PI				GEP SANS	No. of Street			100		
ML11: Pier SB36 CH6357110	Bored Piling SB36: 1st: Interface core test	100	1	17/09/02A	17/09/02A				Isa:	B: 1st: Interface core test
CH6357120	SB36: 2nd: Bored Pile	100	4	17/08/02A	23/08/02A			1	SB36: 2nd: Bored Pile	
CH6357130	SB36: 2nd: Interface core test	0	1	23/09/02	23/09/02	95				SB36: 2nd: Interface core test
CH6357140	SB36: 3rd: Bored Pile	100	4	25/08/02A	02/09/02A				SB36: 3rd: Bore	Pile
CH6357150	SB36: 3rd: Interface core test	. 0	1	24/09/02	24/09/02	95				IISB36: 3rd: Interface core test
CH6357180	SB36: Sonic test	0	1	25/09/02	25/09/02	95				USB36: Sonic test
ONSTRUCT BRID		MA REST	ALC: N		Carlo San					
	Utilities & Services Diversions	4.2.2.4%	(A. 5)							
	NB37: Water main diversion (300D.I) (FW40)	0	33	23/09/02	01/11/02	11				NB37: Water mai
ML14: Pier NB37 CH6687110	NB37: Pre-Drilling	50) 4	29/07/02A	25/09/02	35		etts Andrés		
	NB37: Prepare & submit the Si report NB37: Approval Si report			26/09/02	03/10/02	35		-	-	INB37: Prepare & submit the SI report
ML14: Pier NB37		,		3 1 1 1 1 1 1 1 1	15 Delector	2000	3 0 0 0 0 0 0 0	EST KE TO THE		ELLHUNB37: Approval SI report
ML14: Pier NB3/ CH6690100	1st: Bored Pile		4	02/11/02	06/11/02	11		T	1	1st: Bored Pile@@@
CH6690110	1st: Interface core test	-	1	23/11/02	23/11/02	98	-			1st: Interface core test
CH6690120	2nd: Bored Pile	(4	14/11/02	18/11/02	- 11	8 TH			2nd: Bored Pile@gg
CH6690130	2nd: Interface core test		1	05/12/02	05/12/02	89	j			
CH6690140	3rd: Bored Pile	-	4	26/11/02	29/11/02				Ja	
CH6690150	3rd: Interface core test	- (17/12/02	17/12/02	80	84			
CH6690180	Sonic test	(1	17/12/02	17/12/02	80			1	
			0 2	18/12/02	19/12/02	80	a I Alderi	10000	4 2 2 2 3 3	
ML14: Pier NB3	Sheet Pile driving	1 3			23/12/02	80		-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1
ML14: Pier NB3 CH6693100 CH6693110	Excavate & shoring support		0 3	20/12/02					1.6	

All Part 1997 199	ID BRIDGE ML14: PIE	Activity Description	% Comp	Orig Dur		Early Finish	Total Float	As-planned Early Start	As-planned Early Finish		
10	ML14: Pier NB38 I	Utilities & Services Diversions	BALT PERIOR	326	1014715271660		2017 65	all tractions	2550		
2007 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CH6705120 N	VB38: Drainage diversion (750)		0 31	23/09/02	30/10/02	11				
1					7	- Profess	-	1	l		NB38 Drainag
Common C				0 4	26/07/02A	26/09/02	32				NB38: Prepare & submit the SI report
## 1990 1 to Every Piece 1			0	6	27/09/02	04/10/02	32				
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10 10 10 10 10 10 10 10	202 - 1										1st: Bored
1971-10 1971-10	144	4.5				21/11/02	124				
Part			0	4	12/11/02	15/11/02	11				1.20%
## 1971-100 19 minipus core lead 0 1 m			0	1	03/12/02	03/12/02	115				2 SO BO PIECES
## 15 10 10 10 10 10 10 10	H6711140 3r	rd: Bored Pile	0	.4	23/11/02	27/11/02	11				1
## 1 1 1 1 1 1 1 1 1 1	H6711150 3r	d: Interface core test	0	1	14/12/02	14/12/02	106				3rd: Bored
### 15 February Fe	46711160 46	h: Bored Pile	0	4	28/11/02	02/12/02	11				
## 1716 0 1 1 1 1 1 1 1 1 1	H6711170 4t	h: Interface core test	0	1	19/12/02	19/12/02					1
COS M. A. E. P. 1940 S. D. C. Proposed Services Developed (1975) S. D. C. D. C. Proposed Services Developed (1975) S. D. C.	16711180 Sc	onic test					1				
11	DGF ML14: PIER	2 MR30	Name and Address of the Owner o		NOTE OF THE PARTY						
14 Per 1992 15 Per 2015 15 Pe	14: Pier NB39 Ut	tilities & Services Diversions	CONTRACTOR OF	DATE: N				AND SECURE	SACRETARY.		
12-11 12-1	6726120 NE	339: U-channel diversion (300)	0	30	23/09/02	29/10/02	1,507				
17-75 18-7	14: Pier NB39 SI	Pre-Drilling			- ip - 1	1000	-				N839: U-channe
12 Per Milet Born Prince 12 Per Milet Born P			0	4	17/08/02A	26/09/02	36				NR30 Present I submit the Classes
12 12 12 12 12 12 12 12			0	6	27/09/02	04/10/02	36				
192116 1st Interface core text	14: Pier NB39 Bo	ored Piling		7.	1	i to to get	\$1.5 km /c				Approval SI report
The Ministration of the State Colored Prince Colore							.11				1st: Bored PleCTD
2015 10 10 10 10 10 10 10			0	1	27/11/02	27/11/02	146				
10 10 10 10 10 10 10 10			0	5	16/11/02	21/11/02	11				and an extra
Fee Med Per	6732150 2nd	d: Interface core test	0	10	09/12/02	09/12/02	137				2nd Bored Priet
A Per Miss (2) Pro-Dising Per Miss (2) Pro-Dising Per Miss (2) P	6732180 Sor	nic test	0	10	9/12/02	09/12/02	137				
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100 100		1							-	NB40: Site inves	tigation
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The Held Educat Place	** P.	. 10 10 10 10 10 V	0	6 2	7/09/02	04/10/02	39				
Table Tabl				-1-	41 OE	15,110,000	ax , i				The second secon
25140 2nd Bored Pile	112 Harris 1										1st: Bored Pile
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1 1212/202 12172/02 156			0	5 2	0/11/02	25/11/02	11				2nd Bound Pilol
Column C		: Interface core test	0	11	2/12/02	12/12/02	156				Ent. bored Pag
E. Per BBL Usilies & Services Diversions ### 1000 NBBL Usilies & Services Diversion & Inial pile excavation ### 1000 NBBL Usilies detection & Inial pile excavation #### 1000 NBBL Usilies detection & Inial pile excavation #### 1000 NBBL Usilies detection & Inial pile excavation #### 1000 NBBL Usilies detection & Inial pile excavation #### 1000 NBBL Usilies detection & Inial pile excavation #### 1000 NBBL Usilies detection & Inial pile excavation #### 1000 NBBL Usilies detection & Inial pile excavation ##### 1000 NBBL Usilies detection & Inial pile e	753180 Son	ic test	0	11	2/12/02	12/12/02	156				
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Per Col Dec Chilling	100	STATE OF SECTION AND A SECTION OF	99	4 3	1/07/02A	20/09/02	111		-	N.	341: Utilities detection & trial pit excavation
MS41: Prepare & submit the SI report			33	15 0	5/09/02A	10/10/02	62	41.685	12.11		
NB41 Prepare & submit the Si report	771110 NB4	1: Prepare & submit the SI report				2007					NB41: Site investigation
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Per CO SI Pre-Drilling	11		0	6 1	//10/02	23/10/02	62				Approval SI report
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Pier G1(M) SI Pre-Drilling			99	4 31	1/07/02A	20/09/02	- 11				Utilities detection & trial of execution
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13110 Prepare & submit the SI report 0 4 11/10/02 16/10/02 65			50	15 05	909/02A	10/10/02	65				Site investigation
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RUCT BRIDGE H1 EE H1: PIER H0 ior H0 SI Pre-Orilling 10120	13120 Appr	roval SI report	0	6 17	/10/02	23/10/02	65			- 1	
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ier H0 Bored Piling 15100 H0: 1st: Bored Pile 100 4 08/08/02A 24/08/02A 15110 H0: 1st: Interface core test 0 1 23/09/02 23/09/02 222 15120 H0: 2nd: Bored Pile 100 4 26/08/02A 29/08/02A 26 2 9 16 23 30 7 14 21 28 A 11 18 AUG SEP OCT NOV			100	6 09	V08/024		district in			ı	
15100 H0: 1st: Bored Pile		<u> 18 a - 18 a</u>	100	000	- VEA			1865 - C			
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26. 2. 9. 16. 23. 30. 7. 14. 21. 28. 4. 11. 11. AUG. SEP OCT NOV				- 1	Jr. 7 C.3		222				i0: 1st: Interface core test
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		THE REPORT OF THE PARTY OF THE				Ph. 111		<u></u>		380 3 3 4 5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	

Control 10 24 Interface come and 10 1,40000 1,50000	ID	Activity Description	Comp	Orig		Early Finish	Total Float	As-planned Early Start	As-planned Early Finish	AUG SEP	2002 OCT NOV
Control Con	CH4015130	H0: 2nd: Interface core test	The second second				The second second	carry scart	carry Finish		23 30 7 14 21 28 4 11
20 1,000	CH4015140	H0: 3rd: Bored Pile	100	0	31/08/02A	04/09/02A					The second secon
\$\instructure \text{\$\text{\$\text{\$\color{1}}}\text{\$\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\text{\$\color{1}}}\text{\$\color{1}}\text{\$\text{\$\color{1}}}\text{\$\color{1}}\$\color{	CH4015150	H0: 3rd: Interface core test		1	25/09/02	25/09/02	222			HO: 3rd: Bore	dPile .
## 11 Part 10 Common 1 1 1 1 1 1 1 1 1	CH4015180	H0: Sonic test		_	1 1		l				DH0: 3rd: Interface core test
Calcaster Country	H1: Pier H0 Pil	le Can			200302	20/09/02	212				0H0: Sonic test
Section Committee Commit				1 2	27/09/02	28/09/02	2221				
California Ca	CH4020110	H0: Excavate & shoring support		3	30/09/02	03/10/02					□H0: Sheet Pile driving
Color Colo	CH4020120	H0: Cut Pile head									DCHO: Excavate & shoring support
Process Proc	CH4020130			_							No. of the contract of the con
Characteristics Character	1 7.75				09/10/02	09/10/02	222				47. 30.000
Company Com			0	1	10/10/02	10/10/02	222				4 14 14 14 14 14 14 14 14 14 14 14 14 14
Discription See Transport Explanation print Discription Discrip		H0: Reinforcement fixing	0	3	10/10/02	12/10/02	222				
Coloration Co	CH4020160	H0: Final fix Formwork/Clean & Concrete	.0	1	15/10/02	15/10/02	222				
Company Comp	CH4020170	H0: Remove formwork & bituminous print	0	2	16/10/02	17/10/02	222				
CHARGESTON CONTINUES CON	CH4020180	HO: Backfill	0	2	18/10/02	19/10/02				H0: Remove formwor	& bituminous print@
## 11 February 19 19 19 19 19 19 19 1	CH4020190	H0: Remove the sheet Piles	- 0	2	21/10/02	22/10/02					EHO: Backfill
Principal Pri	H1- Pier H1 Cole	into Clare C3/T3M bollows				227002	· ·			H0:	emove the sheet Piles[]
SHIPSTON 0 20 Column Life			0	6	23/10/02	29/10/02	222				
140 0.00 Column LA	CH4025110	H0: 2nd Column Lift	- 0			05/11/02					HO: 1st Column L
140 200	CH4025120	H0: 3rd Column Lift									H0: 2nd Column Lift
10 10 10 10 10 10 10 10	CH4025122										H0: 3rd Column Life
## 15 Part Fig.											HO: 4th Column Lift
1			0	6	20/11/02						
Mile Proposed Simport Sol Globase DA 2006/02 1.534		The state of the s		5500	ASUM A	A A SHAN	Market Co	10 may 10			The strict Court City
The Filt Service Report The Filt Service Core Nat 100 1 140960X 146060X 14			50	6	08/08/02A	25/09/02	1,534	a graden	Description.		
### STATE 1 1 1 1 1 1 1 1 1	11: Pier H1 Bore	ed Pilling	1100 1100	- 1	3 . 30		7, 2, 2				□H1: Approval SI report
1. Section 1.			100	1	14/09/02A	14/09/02A	- T	1	,/ ¹ -		
Part	H4045120	H1: 2nd: Bored Pile	100	4	28/08/02A	05/09/02A	-			BH1: 1s	Interface core test
Head	H4045130	H1: 2nd: Interface core test	0	1 2	23/09/02		253			H1: 2nd: Bore	1 Pile
11. Set Interface core test	H4045150	H1: 3rd: Interface core test									H1: 2nd: Interface core test
Per H1 File Cop	H4045180	H1: Sonic test		_							DH1: 3rd: Interface core test
Mill State Pile showing			0		5/09/02	25/09/02	253				UH1: Sonic test
H450110 H1. Exclavate & showing support 0 3 25/1002 20/1102 232 H1. Explained & showing support 10 5 25/1002 00/1102 232 H1. Explained & showing support 11 Formack exection 12 Formack Exhibition spring 11 Formack exection 12 Formack Exhibition spring 11 Formack E			0	2 2	3/10/02	24/10/02	232				
H1: Cut Pile head 0 29/1002 20/11/02 232 H1: Cut Pile head 0 10/11/02 232 H1: Cut Pile head 1 Cut P	H4050110	H1: Excavate & shoring support								1	EH1: Sheet Pile driving
H1. Cut Pile head H1. Ley binding layer	21.25.111									H1: E	cavate & shoring support
H. C. of profession An O. 1 (2011) (2											H1: Cut Pile head
H1 Formwork arection H1 Formwork ar			0	1 0	2/11/02	02/11/02	232			- 1	
Hit Final fix Formismic Claim A Concrete			0	1 0	4/11/02	04/11/02	232			- 1	
Hard Final fix Formwork	H4050150	H1: Reinforcement fixing	0	3 0	4/11/02	06/11/02	232			- 1	
Mile Remove Semands & Southerson pre 0 3 0011/02 2011/02 2232	H4050160	H1: Final fix Formwork/Clean & Concrete	0	10	7/11/02	07/11/02	232			l	
Hi Remove the sheet Piles 0 2 1311/02 1221/02 232 Hi Remove the sheet Piles 0 2 1311/02 1411/02 233 Hi Remove the sheet Piles 1405/0500 Hi Remove the sheet Piles 0 1405/0500 Remove the sheet Piles 0 1	H4050170	H1: Remove formwork & bituminous print	0	2 0	B/11/02	09/11/02	232				
HI- Remove the sheet Piles	14050180 F	H1: Backfill	0	2 1	1/11/02	12/11/02	232			H1:F	ternove formwork & bituminous print⊞
Per H1 Colume (Type C3/T3 hollow)	14050190 F	H1: Remove the sheet Piles	0	2 1	V11/02	14/11/02	57				H1: Backfill@
	: Pier H1 Colum	ne (Tyne C3/T3 hollow)		-1							H1: Remove the sheet Piles⊞
Hard Street Hard			0	6 2	7/11/02	03/12/02	222				
H1: 3rd Column Lift	44055110 H	H1: 2nd Column Lift	0	6 04	V12/02	10/12/02	222			1	
Hi	14055120 H	H1: 3rd Column Lift		6 11						4	
DOE H1: PER H2 PER H3 PER H4 PE	14055122 H	H1: 4th Column Lift	-							- 1	
Pier HZ Utilities & Services Diversions				0 18	12102	1202	222				
Hard Stree Hard Pre-Drilling Hard Pre-Drilling Hard Pre-Drilling Hard		The state of the s	2865,8533	200	SECTION A		CF542'8		0.54000		
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H4070110			77.5					L			H2: Drainage diver
Pier H2 Bored Piling			0	4 24	/07/02A 2	6/09/02	62				No. 2
Pier H2 Bored Piling	4070120 H	t2: Approval SI report	0	6 27	/09/02 0	4/10/02	62				
15 15 15 15 15 15 15 15		Piling		+		Total Section 1					ELXLIH2: Approval SI report
DOE H1: PIER H3 Pier H3 SI Pre-Drilling H100110 H3: Prepare & submit the SI report 0 6 27/09/02 04/10/02 60 Pier H3 Bored Piling H105140 2nd: Bored Pile 0 5 12/12/02 17/12/02 11 DOE H1: PIER H4 Pier H4 SI Pre-Drilling H4: Prepare & submit the SI report 0 6 27/09/02 04/10/02 58 H4: Prepare & submit the SI report			0	4 05	/12/02 0	9/12/02	. 11				
Pier H3 Si Pre-Drilling	4075160 21	nd: Bored Pile	0	4 14	12/02 1	8/12/02	- 11				
Pier H3 SI Pre-Drilling #100110 H3: Prepare & submit the SI report 0 4 10/68/02A 25/09/02 60	OGE H1: PIER H	нз	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic	SUMBER	550 N S S N S N S N S N S N S N S N S N S	DE MANAGEMENT	Constitution of the				
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Pier H	4100120 H	O: Approval SI report	0	6 27	09/02 0	4/10/02	60	-		1	
105140 2nd: Bored Pile 0 5 12/12/02 17/12/02 11				100		2000 mm (1000)	12000	100			Approval SI report
DGE H1: PIER H4 Pier H4 SI Pre-Drilling 4130110 H4: Prepare & submit the SI report 0 4 22/08/02		st. Bored Pile	0	5 03	12/02 0	7/12/02	11				
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0 6/27/08/02 04/10/02 58				-1-2			58				H4: Prepare & submit the St record
	130120 HA	4. Approval St report	0	6 27/	09/02 04	V10/02	58	3.11	1 7		
26 2 9 16 23 30 7 14 21 28 4 11 1 AUG SEP OCT NOV					170	The second second second			4.1 545	Comment of the belief of the	TOORS IN PROPERTY OF THE PARTY.

Piling st. Bored Pile nd. Bored Pile rd. Bored Pile st. E H2 s. & Services Diversions emove existing U-channel (225)	0		30/11/02	05/12/02	11		3 787 1.	26 2 9 1	6 23 30 7 14 21 28 4 11 1
nd: Bored Pile rd: Bored Pile iE H2 15 & Services Diversions	0			120,000					-
nd: Bored Pile IE H2 45 & Services Diversions		ι,	5 10/12/02	14/12/02	11			-	
iE H2 i5 & Services Diversions	1 "	-	19/12/02	24/12/02	11				
15 & Services Diversions	100000000000000000000000000000000000000	100000	(N. S. W. W. S.	1000-210000000	0.000.000.000	APPENDING TO STATE	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	14576	4036	SERVICE STATE	Gaddine?	BEET STATE	Good Controllers	BANK STANISH		
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D. William			O TITUE	23/11/02	24				Remove existing U-channel (225)
Drilling te investigation	0	10	25/11/02	05/12/02	24		T		
epare & submit the SI report	0	4	05/12/02	10/12/02	33				1
oproval SI report	0	6	11/12/02	17/12/02	33				!
6	MSG/TENS/	349693	(基) (基) (基)	DOMESTIC SERVICES	669 SJ 1200	200	46 MARIE V		
Drilling te investigation	14 1		, 500 PF 75	animae in Select					1
epare & submit the SI report	0		06/12/02	17/12/02	24				ı
	0	•	18/12/02	21/12/02	26	٠,			
Drilling	G. 3.75270E	1200	STORES OF		5 A 25 S	M 2025	(A C) (C) (A (A)		
: H7: Site investigation	0	10	18/12/02	31/12/02	24				1
9S (STAGE 3)	1242	900	新居民		AND STR		10000		
s & Services Diversions IS: LCR: H9S - Firemain Diversion (Stage 3)	0	25	18/10/02	15/11/02	49		STALL SELECT		
S: Construct Firemain Thrust Blocks & Backfill	0	15	16/11/02	03/12/02	49				H9S
-Drilling			ale most	15-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25-18-25	. ,	251.251	***	н	9S Construct Firemain Thrust Blocks & Backfill
S: SI Pre-drilling	0	10	21/12/02	04/01/03	34				
E G1 - STAGE 4 WORKS	STATE OF	1000		27450	AST TRANS	A SECTION	NZ (S. C.		
4S (04/176) s & Services Diversions	COST DE MA	150							
S: Watermain diversion (75)	0	21	23/09/02	18/10/02	1,516		gn:///dain. 5/5.		X G4S: Watermain diversion
ML13	982,6362	10.0	START OF THE PARTY.	APPLE NAMES	0.45% (C)	AND THE	PARTITION OF		Total Hamiltonian
A Implementation		200/03	100	545000000		AND NOT THE OWNER.	Mark Control		
37: Prepare TTA Drgs (SB37 Cap)	0	13	23/09/02*	05/10/02	85				SB37: Prepare TTA Drgs (SB37 Cap)
37: Endorse TTA Drgs by the Eng.	0	. 7	06/10/02	12/10/02	119				S837: Endorse TTA Drgs by the
37:Apply traffic advice/gazette notice from TD	0	14	13/10/02	26/10/02	119				SB37-Apply traffic ad
eting with RMO	0	3	27/10/02	29/10/02	119				⊞Meeting with RMO
ceive road works advice	0	2	30/10/02	31/10/02	119				Receive road works advice⊟
paration for commencement	0	3	01/11/02	03/11/02	121				Preparation for commencement
elementation of TTA	0	7	30/10/02	05/11/02	119				Implementation of TTA
Pre-Drilling 37: Prepare & submit the St report	1 0	4	02/08/02A	20/09/02	122				
									SB37: Prepare & submit the SI report
				54.1002					S837: Approval SI report
37: 1st Bored Pile	0	4	16/12/02	19/12/02	62	T			I
S836		See.		F 36 189		16 etc	15 K 17 K 17		
A Implementation 38: Prepare TTA Dros (Drainage & SB38 Cap)	1 0	13	11/09/02A	26/09/02	85	ALC: NO. OF PERSON.	b055650		
	0	7	27/09/02	03/10/02					SB38: Prepare TTA Drgs (Drainage & SB36 C
38: Apply traffic advice/gazette notice from T	-			17/10/02	124				SB38: Endorse TTA Drgs by the Eng.
38: Meeting with RMO	-			20/10/02	124				JSB38: Apply traffic advice/ga
38: Receive road works advice	0			22/10/02	124				EIS838: Meeting with RMO
38. Preparation for commencement	-			25/10/02	126		·		ective road works advice⊡
38: Implementation of TTA	0			27/10/02	124			-	aration for commencement.
	1 1	_1						SB3	8: mplementation of TTA
38: Utilities detection & trial pit excavation	50	4	07/05/02A	24/09/02	62	7 - 1	77 7		MDSB38: Utilities detection & trial pit excavation
38: Drainage diversion (750)	0	29	25/09/02	30/10/02	62	-			S838: Drainage di
Pre-Drilling		1		1272	<u></u>				Johns Dranage di
38: Site investigation	0			11/11/02	62				SB38: Site investigation
38: Prepare & submit the SI report	0		A 10.0	16/11/02	78				SB38: Prepare & submit the SI report
38: Approval Si report	0	6	16/11/02	22/11/02	78				SB38: Approval SI report
red Piling 38: 1st: Boyed Pile	1 6	Al-	12/12/02	16/12/02	lea		-		
	0	NERS	NATIONAL PROPERTY AND ADDRESS OF THE PARTY AND	10.1202	0.02		NAME OF THE OWNER,		
		100	STORES OF			A COSTA			
39: Prepare TTA Drgs (\$B39 Cap)	0	13	11/09/02A	26/09/02	85	2 4 1	7 7 1		SB39: Prepare TTA Drgs (SB39 Cap)
99: Endorse TTA Drgs by the Eng.	0	7	27/09/02	03/10/02	85				SB39: Endorse TTA Drgs by the Eng.
39: Apply for TD Traffic Advice/Gazette Notice	0	14	04/10/02	17/10/02	85				SB39: Apply for TD Traffic Ac
eting with RMO	0	3	18/10/02	20/10/02	85				EMeeting with RMO
peive road works advice	0	2	21/10/02	22/10/02	85		,		ceive road works advice:
	7: H7: Site investigation 195 (STAGE 3) 19	Drilling T: H7: Site investigation 0 IPS (STAGE 3) s & Services Diversions St. LCR: H9S - Firemain Diversion (Stage 3) 0 St. Construct Firemain Thrust Blocks & Backfill 0 Drilling St. SI Pre-drilling 0 E G1-STAGE 4 WORKS 45 (04/175) s & Services Diversions S: Watermain diversion (75) s & Services Diversions S: Watermain diversion (75) I ML13 ISB37 A Implementation 37: Prepare TTA Drgs by the Eng. 37-Apply traffic advice/gazette notice from TD 0eting with RMO ceive road works advice sparation for commencement 0 plementation of TTA 0 Pre-Drilling 37: Prepare & submit the SI report 0 37: Approval SI report 0 Pred Piling 37: Ist Bored Pile 0 SB38 A Implementation 38: Prepare TTA Drgs by the Eng. 0 38: Apply traffic advice/gazette notice from T 0 08: BS8 A Implementation 38: Prepare TTA Drgs (Drainage & SB38 Cap) 38: Receive road works advice 0 0 38: Prepare TTA Drgs by the Eng. 0 0 38: Receive road works advice 0 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Receive road works advice 0 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 38: Prepare TTA Drgs (Drainage & SB38 Cap) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Drilling 7: H7: Site investigation 0 10 95 (STAGE 3) 0 10 95 (STAGE 3) 0 25 85 Services Diversions 85: LCPC H95 - Fremain Diversion (Stage 3) 0 25 95: Construct Firemain Thrust Blocks & Backfill 0 15 95: Construct Firemain Thrust Blocks & Backfill 0 15 96: Construct Firemain Thrust Blocks & Backfill 0 15 96: Construct Firemain Thrust Blocks & Backfill 0 10 97: Construct Firemain Charles (Stage 3) 0 10 98: SI Pre-drilling 0 10 99: Construct Firemain Charles (Stage 3) 0 13 97: Prepare TTA Drgs (SB37 Cap) 0 13 97: Prepare TTA Drgs (SB37 Cap) 0 14 98: Construct Firemain Charles (SB37 Cap) 0 14 99: Construct Firemain Charles (SB37 Cap) 0 14 99: Construct Firemain Charles (SB37 Cap) 0 13 97: Construct Firemain Charles (SB38 Cap) 0 13 97: Construct Firemain Charles (SB38 Cap) 0 13 97: Stat Bored Pile 0 14 98: SB38 98: Construct Firemain Charles (SB38 Cap) 0 13 98: Receive road works advice 0 2 99: Reparation for commencement 0 3 99: Reparation for commencement 0 3 90: Reparation for commencement 0 3 90: Receive road works advice 0 2 90: Stage Charles (SB39 Cap) 0 10 90: Charles SB39 90: Charles SB39 90: Charles Charles (SB39 Cap) 0 10 91: Charles SB39 91: Charles Charles (SB39 Cap) 0 13 91: Stage Charles (SB39 Cap) 0 13 92: Charles Charles (SB39 Cap) 0 13 93: Charles Charles (SB39 Cap) 0 13 93: Charles Charles (SB39 Cap) 0 13 94: Charles Charles (SB39 Cap) 0 13 95: Charles TTA Drgs (SB39 Cap) 0 13 95: Charles Charles (SB39 Cap) 0 13 96: Charles TTA Drgs (SB39 Cap) 0 13 97: Charles Charles (SB39 Cap) 0 13 98: Charles Charles (SB39 Cap) 0 13 99: Charles TTA Drgs (SB39 Cap) 0 13 99: Charles Charles (SB39 Cap) 0 13 90: Charles Charles (SB39 Cap) 0 13 90: Charles Charles (SB39 Cap) 0 13 90: Charles Ch	Drilling ST. H7. Site investigation 0 10 14/12/02 85 (STACE 3) 8 & Services Diversions SS. LCR: H9S - Firemain Diversion (Stage 3) 9 25 18/10/02 95. Construct Firemain Thrust Blocks & Back/fill 0 15 16/11/02 15. SI Pre-drilling 1 0 10 21/12/02 15. SI Pre-drilling 1 0 10 21/12/02 15. SI Pre-drilling 1 0 10 21/12/02 15. Watermain diversion (75) 9 21 23/09/02 15. Watermain diversion (75) 9 21 23/09/02 15. Watermain diversion (75) 16. Watermain diversion (75) 17. Prepare TTA Drgs (SB37 Cap) 37. Prepare TTA Drgs (SB37 Cap) 37. Apply traffic advice/gazette notice from TD 10 14 13/10/02 16. Stage Stag	Drafting St. Coff. 1965 - Fremain Diversion (Stage 3) 0 16 16/12/02 15/11/02	Disting 10 16 16 12 12 12 12 12 13 13 13	Disting SE (STAGE 3) SE (STAGE	District Comment Com	10 16 17 18 18 18 18 18 18 18

ID.	Activity Description	Comp	Orig		Early Finish	Total	As-planned			2002 OCT NOV
CH6606105	Preparation for commencement	Comp		3 23/10/02	25/10/02	Float 87	Early Start	Early Finish	26 2 9 16	23 30 7 .14 21 28 4 .11 .18
H6606106	Implementation of TTA		1	7 21/10/02	27/10/02	85			Ртера	tion for commencement
AL 13: Pier SE >H6609120	339 Utilities & Services Diversions Remove existing LV cable		1	5 28/10/02	0444400	-				implementation of TTA
	339 SI Pre-Drilling			28/10/02	01/11/02	70				Remove existing LV cable
CH6612100	Site investigation	0	1	5 12/11/02	16/11/02	62				
CH6512110	Prepare & submit the SI report	0	1	18/11/02	19/11/02	75				Site investigation
CH6612120	Approval SI report	0		20/11/02	22/11/02	75				Prepare & submit the SI report⊡
ML13: Pier SB CH6615100	39 Bored Piling SB30: 1st Bored Pile				4.1.7.2					Approval SI report
		0	L	09/12/02	13/12/02	62				4
RIDGE ML13: ML13: Pier SB	PIER SB40 40 SI Pre-Drilling	5,60714	100	273.600					:.	
>+6633100	Site investigation	0	10	18/11/02	28/11/02	62				Site investigation
CH6633110	Prepare & submit the SI report	0	2	29/11/02	30/11/02	62				Ole #Nesigation
H6633120	Approval SI report	0	3	02/12/02	04/12/02	62				
ML13: Pier SB 246636100	40 Bored Piling SB40: 1st Bored Pile	0	5	05/12/02	10/12/02	62				
H6636120	SB40: 2nd Bored Pile	0		19/12/02	24/12/02	62				
NSTRUCT BE	RIDGE ML15 - STAGE 3 WORKS	Contraction	0590	2522-7522	Colarestation	SAN COLOREST	285-000000000	ANDTON		
RIDGE ML15:		第1条 数	1		HY Z Z	MANAGE AND	Secretary.	可外保护		
H6861100	SB41: Prepare TTA Drgs (SB41CAP)	0	21	23/09/02*	13/10/02	28		्र सम्	- 1	
H6861110	Endorse TTA Drgs by the Eng.	0	7	14/10/02	20/10/02	28				SB41: Prepare TTA Drgs (SB410
H6861120	Apply traffic advice/gazette notice from TD	0	14	21/10/02	03/11/02	28				rgs by the Eng (IIII)
H6861130	Meeting with RMO	0	. 3	04/11/02	06/11/02	28	-		Apply traffic adviced	Azette notice from TD
H6861140	Receive road works advice	0	2	07/11/02	08/11/02	28				Meeting with RMO⊞ Receive road works advice⊡
H6861150	Preparation for commencement	0	. 3	09/11/02	11/11/02	30			ı	Preparation for commencement
H6861160	Implementation of TTA	0	7	07/11/02	13/11/02	28			- 1	Implementation of TTA
L15: Pier S84 H6864100	1 Utilities & Services Diversions Remove existing U-channel (225)	1 01	301	07/11/02	11/12/02	24		- C - C		
H6864110	S841: Utilities detection & trial pit excavation	99		14/08/02A	20/09/02	91				Remove existing U-channel (225)
	1 SI Pre-Drilling	+ #	- 1	33350	17,11 5				\$9	11: Utilities detection & trial pit excavation
H6867100	Site investigation	.0	10	12/12/02	23/12/02	24			- 1	
NSTRUCT BRI	DGE ML10 MER NB2WM)		8.575 80.85			ALCOHOLD SERVICE		NY-25-72		
L10: Pier NB21	9 Utilities & Services Diversions	NAME OF THE OWNER, OWNE		2-314-00A		12,010,00			I	
	NB29: Utilities detection & trial pit excavation	0		23/09/02	26/09/02	323			2	DNB29: Utilities detection & trial pit excavation
	NB29: Water main diversion (150S.V)	0	51	27/09/02	27/11/02	323				X
L10: Pier NB30	PIER NB30(M) Utilities & Services Diversions		HOS		(All Joseph All			D-VI PROBE		
H6171110	NB30: Watermain diversion (4000.I)	0	23	23/09/02	21/10/02	1			_	NB30: Watermain diversion
	SI Pre-Crilling NB30. Prepare & submit the SI report	0	412	2/06/02A	25/09/02	14	- 1 - 1	1		Transmian Giversion
46174120	NB30: Approval OF SI report	0	. 1	7/09/02	04/10/02	14				INB30: Prepare & submit the SI report
.10: Pier NB30	D Bored Pling	1 1	3.0	Top oper 18			100 0 0			SENB30: Approval OF SI report
96177100	1st Bored Pile	0	4 2	3/10/02	25/10/02	0				st: Bored Pile
6177110	1st: Interface core test	0	1 1	3/11/02	13/11/02	13	-		1	1st Interface core testil
	2nd: Bored Pile	0	. 1	0/10/02	02/11/02	3	-			2nd: Bored Pile
31.5	2nd: Interface core test	٥		0/11/02	20/11/02	8			- , I	2nd: Interface core test[
6177140	3rd: Bored Pile	0		6/11/02	09/11/02	3			· .	3rd: Bored Pile
6177150 6177180	3rd: Interface core test	0		1	27/11/02	3			- 1	
1.0.0	Sonic test	0	1 2	7/11/02	27/11/02	3				
10: Pier NB30 6180100	Pile Cap Sheet Pile driving	0	2 2	8/11/02	29/11/02	3				
6180110	Excavate & shoring support	0	3 3	0/11/02	03/12/02	3			F	
6180120	Cut Pile head	0	5 0	4/12/02	09/12/02	3				
6180130	Lay blinding layer	0	1 0	9/12/02	09/12/02	3	1 7		: l	
6180140	Formwork erection	0	1 10	0/12/02	10/12/02	3			- 1	· 1
180150	Reinforcement fixing	0	3 10	0/12/02	12/12/02	3	-			1
180160	Final fix Formwork/Clean & Concrete	0	1 13	3/12/02	13/12/02	3				
180170	Remove formwork & bituminous print	.0	2 14	1/12/02	16/12/02	3	7 7		19 7 B	
180180	Backfill	0	2 17	7/12/02	18/12/02	3		-		-
180190	Remove the sheet Piles	0	2 15	V12/02	2012/02	3	2.1	7 7 7		1
0: Pier NB30 183100	Column (Type C3 hollow) 1st Column Lift		-	- Eligi-Vil			25 10 100			
		0	6 21	/12/02	30/12/02	3	March .			
SE ML10; PII	ER NB26N N TTA Implementation	NO HOUSE SHE			MARKE COM	NO.	3508.05.73	HERRYE		
	NB28N: Prepare TTA Drgs (Drainage & NB28N Cap)	0	13 23	V09/02"	05/10/02	314				MORE SECTION AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT
	rotor. Frepare FFF orga (oraniage a rescort cap)	2 35 45	_ 1		7.		E4 1	11/54		NB28N: Prepare TTA Drgs (Drainage &

CH6108110	NB28N: Endorse TTA Drgs by the Eng.	Comp	Dur	Start 06/10/02	12/10/02	Float 314	Early Start	Early Finish	AUG SEP 26 2 9 16	23 30 7 14 21 28 A 11
CH6108120	NB26N: Apply TD Traffic Advice/Gazette Notice	1 0	14	13/10/02	25/10/02	314				NB28N: Endorse TTA Drgs b
H6108130	Meeting with RMO		-	27/10/02	29/10/02	314				NB28N: Apply TD
H6108140	Receive road works advice		- 2	30/10/02	31/10/02	314				☐Meeting with RX
H6106150	Preparation for commencement		-3	01/11/02	03/11/02	316				Receive road works advice[]
H6108160	Implementation of TTA	- 0	١,	30/10/02	05/11/02	314				Preparation for commencement
VIL10: Pier NB	28N Utilities & Services Diversions		l	1		ليبيا		L		Implementation of TTA
CH6111100	Utilities detection & trial pit excavation	0	4	06/11/02	09/11/02	254			u	lities detection & trial pit excavation
CH6111110	Drainage diversion (450)	0	32	11/11/02	17/12/02	286			Ī	Drainage diversion (450)
CH6111120	Water main diversion (3000.1)	0	32	11/11/02	17/12/02	286				Water main diversion (3000.1)
	PIER NB28S(M)	WIT S	GS(4	F	是特別的	No.	\$ 1912 a.s	12000		The man are son good in
CH6129100	28S Utilities & Services Diversions Utilities detection & trial pit excavation	0	4	11/11/02	14/11/02	254		18 1 SWA		
										Utilities detection & trial pit excavation
>15916100	Utilities detection & trial pit excavation	0	4	15/11/02	19/11/02	270				
										Utilities detection & trial pit excavation
H5934100	Utilities detection & trial pit excavation	1 0	4	20/11/02	23/11/02	286				
					2511102	200				Utilities detection & trial pit excavation
H5958100	1st: Bored Pile	0		30/09/02*	04/10/02	0			- 1	►■1st: Bored Pile
H5958110	1st: Interface core test	0		23/10/02	23/10/02	31				01st: Interface core tes
H5958120	2nd: Bored Pile	0		11/10/02	16/10/02	0			1	2nd: Bored Pile
H5958130	2nd: Interface core test	0	_	02/11/02	02/11/02	23			- 1	2nd: Interface core test()
H5958140 H5958150	3rd: Bored Pile	0		19/10/02	23/10/02	0			ı	3rd: Bored Pile
H5958180	3rd: Interface core test	0		09/11/02	09/11/02	18			1	3rd: Interface core test[]
10900100	Sonic test	0	_1	09/11/02	09/11/02	18				@Sonic to
H5961100	Sheet Pile driving	0	2	11/11/02	12/11/02	18				
H5961110	Excavate & shoring support	-	3	13/11/02	15/11/02	18			- 1	Sheet Pile driving
H5961120	Cut Pile head	0	5	16/11/02	21/11/02	18			- 1	Excavate & shoring support
H5961130	Lay blinding layer	- 0	1	21/11/02	21/11/02	18			1	Cut Pie head
H5961140	Formwork erection	0	-1	22/11/02	22/11/02	18			- 1	Lay blinding layer
H5961150	Reinforcement fixing	0	3	22/11/02	25/11/02	18			i	Formwork erection
H5961160	Final fix Formwork/Clean & Concrete	0	1	26/11/02	26/11/02	18			- 1	Reinforcement fixin
H5961170	Remove formwork & bituminous print	0	2	27/11/02	28/11/02	18			- 1	
H5961180	Backfill	0	2	29/11/02	30/11/02	18			- 1	
H5961190	Remove the sheet Piles	0	2	2/12/02	03/12/02	18			- 1	
H5964100	1st Column Lift	0		14/12/02	10/12/02	18			-	
H5964110 H5964120	2nd Column Lift	0	_	1/12/02	17/12/02	18			- 1	
15904120	3rd Column Lift	0	6	8/12/02	24/12/02	18				
13470120	Installation deflector barrier at C12S	0	401	3/12/02	19413163				- 1	
13535120	Installation deflector barrier at G13S	0		3/12/02	24/12/02	-1			1	
			[J 12/02	241202	-1				
									- 1	
	Prepare TTA Drg (for gully pipe)	0		3/09/02*	05/11/02	1,089				Prepare TTA
	Endorse TTA Drgs by the Eng.	0		6/11/02	12/11/02	1,089				Endorse TTA Drgs by the Eng.
	Apply traffic advice/gazette notice from TD	0		3/11/02	26/11/02	1,089	12 1			ply traffic advice/gazette notice from TD
	Meeting with RMO	0		7/11/02	29/11/02	1,089				
	Receive road works advice	0		0/11/02	01/12/02	1,089	,<		- 1	
1.86	Preparation for commencement	0		2/12/02	04/12/02	1,091			- 1	
8400230	Implementation of TTA	. 0	7 3	0/11/02	06/12/02	1,089			- 1	
	Prepare TTA Drg (for cross road cable)	0	43 2	3/09/02*	04/11/02	1,011			100	Prepare TTA
	Endorse TTA Drgs by the Eng.	0	7 0	5/11/02	11/11/02	1,011			Γ	Endorse TTA Drgs by the Eng.
8400260	Apply traffic advice/gazette notice from TD	0	14 1	2/11/02	25/11/02	1,011			A.	y traffic advice/gazette notice from TD
8400270	Meeting with RMO	0	3 2	6/11/02	28/11/02	1,011			ſ	
8400280	Receive road works advice	0	2 2	9/11/02	30/11/02	1,011			1	
8400290	Preparation for commencement	0	3 0	1/12/02	03/12/02	1,013				
8400300	Implementation of TTA	0	7 2	V11/02	05/12/02	1,011			1	
H8400290	Preparation for commencement	0	3 0	1/12/02	03/12/02	1,013		2		30 7 14 21 28 A

HWW E/B: Site CH8405100	Description Clearance Site clearance	Comp			Finish	Float	Early Start	Early Finish	AUG SE 26 2 9 1	6 23 30 7 14 21 28 A
		90		20 12/06/02A	17/10/02	809				Site clearance
HWW E/B: UM CH8410110	ties & Services Diversions Utilities detection	1 6	51	0 18/10/02	29/10/02	890		-		Site dearance
WW E/B: HV	Power Supply Civil Provision				25 1002	890				Utilities de
H8420100	4x11kV cable installation	0	3	15 16/12/02	28/01/03	809				
H8420110	4xLV cable installation	0	3	5 16/12/02	28/01/03	1,432			-	
WW E/B: Wat			J	1		1				
H8430100	Installation of proposed 250DI WM	0	5	0 18/10/02	14/12/02	809			· ·	
H8430110	Pressure & sample test	0	1	4 16/12/02	03/01/03	922			installation	of proposed 25001 WM
WW E/B: Street 48450100			_							
	Construct street light ducting/drawpit	0	1.	4 11/12/02	28/12/02	854			ſ	
ALIGNMENT (DE HING WAH STREET WEST WIB (HWW WIB)	N. SCHOOL	330	198	A settlema	a street	4978 B	ALL LONG SE		
	Utilities detection	0		23/09/02	24/09/02	811				1
VW W/B: Drai				-	-					Dutilities detection
	Manhole construction	0	30	16/10/02	19/11/02	926				Manhole construction
	Excavation & gully pipe installation	0	40	08/11/02	24/12/02	926				
8515130	Gully pit installation	0	30	02/12/02	08/01/03	926				Excavation & gully pipe installation
W W/B: HV F 8520140	ower Supply Civil Provision 4x11kV cable installation	1 61	20	16/10/02	TARIFF CO.					
50.5	4xLV cable installation	0			25/11/02	826			4x1	1kV cable installation
W W/B: Wate		0	35	16/10/02	25/11/02	826				xLV cable installation
	r Mains Installation of proposed 3000i	0	16	25/09/02	15/10/02	811				
530162	Installation of proposed 4000l	0	16	25/09/02	15/10/02	926				Clinstaliation of proposed
530164	Installation of proposed 450DI	0		25/09/02	15/10/02	926				Clinstallation of proposed
530170	Pressure & sample test	0		16/10/02	21/10/02	983				Clinstallation of proposed
530180	Connection to existing	0		22/10/02	25/10/02	983				Pressure & sample
W W/B: Gas N	Mains	_			1	505				Connection to e
535190	aying 315PE gas main	0	14	25/09/02	11/10/02	20				
535192	aying 400 steel gas main	0	14	25/09/02	11/10/02	928				Laying 315PE gas main
535200	Connect 315PE & 400 Steel Gas Main	0	-7	12/10/02	21/10/02	987			Connect Street & At	Laying 400 steel gas main
	ommunications Civil Provision Construct NTTC ducting/drawpit			1					Convect 315PE & 40	Steel Gas Main
		0	14	11/12/02	28/12/02	888				
W W/B: Street 550260 0	Construct street light ducting/drawpit	0	14	25/11/02	10/12/02	854				
IGH110 F	Relocation of switch room LW/2	0	30	10/10/02	14/11/02	1,472				
IGH120 F	temove KHM-330 at Lai Po Rd Slip 2	0	21	15/11/02	09/12/02	1,472			Relocation of swi	th room LW/2
V W/B: Road :	Signs, Markings & Bollards									Remove KHM-330 at Lai Po Rd Slip 20
565350 S	ign board foundation construction	0	30	25/11/02	31/12/02	891				
IGNMENT OF 2: TTA's	HING WAH SLIP2 (HWS2)	A Property	100	是的實力	95.00.2.9	1995	TAR SHIP	12.76 March		· · · · · · · · · · · · · · · · · · ·
	repare TTA Drg	100	13	15/06/02A	30/08/02A	# (5E (5) - F	45	+ Mastr		
00101 E	ndorse TTA Drgs by the Eng.	0	7 2	31/06/02A	22/09/02	924			Prepare TTA Drg	
00102 A	pply traffic advice/gazette notice from TD	0	7 2	3/09/02	29/09/02	924				Endorse TTA Drgs by the Eng.
00103 M	eeting with RMO	0	_	0/09/02	02/10/02	924		-		Apply traffic advice/gazette notice from
00104 R	eceive road works advice	0	2 0	3/10/02	04/10/02	924				Meeting with RMO
00105 Pr	reparation for commencement	0	_		07/10/02	926				☐Receive road works advice
00106 Im	oplementation of TTA	0			09/10/02	924				☐Preparation for commencement
00110 Pr	epare TTA Drg	0			31/01/03	973				Implementation of TTA
	road construction									
	emporary road construction	0	14 2	3/09/02	09/10/02	746	T			V
: Drainage 15100 M	tribola construction									Temporary road construction
	anhole construction	0	30 0	9/12/02	15/01/03	746				
: Water Main	stallation of proposed 150OI	1 0	50 1	0/10/02	07/12/02	746				
11.	essure & sample test			110 14 300	24/12/02	798			Installation of pr	posed 1500NX
: Street Lighti		1			223	196				
	instruct street light ducting/drawpit	0	14 06	9/12/02	24/12/02	707				
NED SLIP 3	(53)	188.76.80	903	STANKE	C DOMESTIC	REAL PROPERTY.	Some Road A	0.0756.000		
H130 LC	R (G2): Remove KHN-331 at Hing Wah Slip 3	0	21 29	V10/02	21/11/02	1,127		100000000000000000000000000000000000000		
A's									LCR (G2): Remove	CHM-331 at Hing Wah Slip 3
	P 3: Prepare TTA Drg	0	44 18	V09/02A	25/09/02	1,142				DSLIP 3: Prepare TTA Drg
	dorse TTA Drgs by the Eng.	0	7 28	V09/02 C	14/10/02	1,140	1		, T	
1.3	ply traffic advice/gazette notice from TD	0	14 05	/10/02 1	8/10/02	1,140		7		Endorse TTA Drgs by the Eng.
0130 Me	eting with RMO	0	3 19	10/02 2	1/10/02	1,140	7.1			Apply traffic advice/gazet
			1	1994 C 1995 F	T				1	■Weeting with RMO
	ceive road works advice	0	2 22	/10/02 2	3/10/02	1,140				ive road works advice

ACTIVITY ID	Activity Description	Comp	Orig	Early Start	Early Finish	Float	As-planned Early Start	As-planned Early Finish	AUG SEP	OCT NOV
CH8900150	Preparation for commencement	0	1	24/10/02	26/10/02	1,142			26 2 9 16 Pres	23 30 7 A4 21 28 A A1
CH8900160	Implementation of TTA		7	22/10/02	28/10/02	1,140		-		Implementation of TTA
	Supply Civil Provision		1.0	and the sta	15.	1 2 2	2623L	1		
CH8920100	4xLV cable installation	°	60	29/10/02	09/01/03	925				4xLV cable installation
	AUGNMENT OF LIN CHEUNG ROAD (LCR)	经外发工 的	disp.	31.34		100 Pyr	outs letters	西 图 对这	,	TO STATE OF THE ST
CH3004116	Si's for G2 & NB42 SUSPENDED	100	0	1	05/09/02A			·	000000000000000000000000000000000000000	
CH3004117	LCR TTA P1: Re-instate LCR Road for TTA Ph 2	100	5	05/09/02A	10/09/02A	-		-		NB42 SUSPENDED
CH3004118	LCR TTA P1: Duration of Phase 1 TTA	100	24"	14/08/02A	10/09/02A					P1: Re-instate LCR Road for TTA Ph 2
LCR TTA Phase	e 2: 1st Slow Lane Closure		_	L,	1				LCR TTA	P1: Duration of Phase 1 TTA
CH3006104	LCR TTA P2: TMGL Considers Proposals	100	7	17/08/02A	27/08/02A				LCR TTA P2: TMGL	Consider Sweets
CH3006106	LCR TTA P2: TMLG Meeting No.4	100	0	28/08/02A	 				OLCR TTA P2: TML	
CH3006108	LCR TTA P2: Meeting with RMO	100	3	29/06/02A	31/08/02A				CCR TTAP2 Me	경우시 한경시 이름 그
CH3006110	LCR TTA Phase 2: Receive road works advice	100	2	02/09/02A	05/09/02A				1.20 Miles	- '국가()', 중점
CH3006112	LCR TTA Phase 2: Preparation for TTA	100	7	05/09/02A	08/09/02A					se 2. Receive road works advice
CH3006114	LCR TTA Phase 2: Implementation of TTA	100	1	10/09/02A	10/09/02A					hase 2: Preparation for TTA
CH3006116	LCR TTA Phase 2: Duration of Phase 2 TTA	100	6.	10/09/02A	1609/02A	 				Phase 2: Implementation of TTA
CR TTA Phase	e 3: 2nd Fast Lane Closure		_	2 72	1000	 		- C 755	LOS	TTA Phase 2: Duration of Phase 2 TTA
CH3007104	LCR TTA Ph3: TMGL Considers Proposals	100	7	17/08/02A	27/08/02A				LCR TTA Ph3: TMG	Considers Processis
CH3007106	LCR TTA Ph3: TMLG Meeting No.4	100	0	28/06/02A					OLCR TTA Ph3: TML	
H3007108	LCR TTA Ph3: Meeting with RMO	100	3	29/06/02A	30/08/02A				BLCR TTA Ph3: Me	
CH3007110	LCR TTA Ph3: Receive road works advice	100	7	30/08/02A	04/09/02A					Receive road works advice
CH3007112	LCR TTA Ph3: Preparation for TTA Phase 3	100	3	17/09/02A	17/09/02A					TTA Ph3: Preparation for TTA Phase 3
CH3007116	LCR TTA Ph3: Implementation of TTA	100	2	17/09/02A	17/09/02A				N 25.0	TTA Ph3: Implementation of TTA
CH3007118	LCR TTA Ph3: Duration of Phase 3 TTA	0	173*	17/09/02A	21/04/03	-92				TIA Pila. Implementation of TIA
	e 4: Slow Lane Closure at H9S	70.30		THE MANUAL	Stor no coa		ST 14-14-14	2.50		
>H3006100	LCR TTA Ph4: TMLG Considers Proposals	. 0	7	23/09/02	30/09/02	4				LCR TTA Ph4: TMLG Considers Propos
H3008102	LCR TTA Ph4: TMLG Meeting No.5	0	0	26/09/02*		0				◆LCR TTA PtH: TMLG Meeting No.5
H3008104	LCR TTA Ph4: Meeting with RMO	0	3	26/09/02	28/09/02	57			100	ELCR TTA Ph4: Meeting with RMO
H3008106	LCR TTA Ph4: Receive road works advice	. 0	7	29/09/02	05/10/02	57			LCR TTA Ph4: Imp	CR TTA Phil: Receive road works
CH3008108	LCR TTA Ph4: Preparation for TTA Phase 4	0	10	06/10/02	15/10/02	57				LCR TTA Ph4: Preparation
213008110	LCR TTA Ph4: Implementation of TTA	0	2	16/10/02	17/10/02	57				ementation of TTAG
H3008111	LCR TTA Ph4 Works Complete	0	0		20/12/02	34				
CH3008112	LCR TTA Ph4: Duration of Phase 4 TTA	0	57*	16/10/02	20/12/02	34			LCR TTA Phil: Durat	on of Phase 4 TTA
	5: 3rd Slow Lane Closure	100	1150	38	\$35 p			art Fi		
H3009100	LCR TTA Ph5: TMGL Considers Proposals	51		20/09/02A	25/09/02	°			H	HLCR TTA Ph5: TMGL Considers Proposals • LCR TTA Ph5: TMLG Meeting No.5 ELCR TTA Ph5: Meeting with RMO
CH3000102	LCR TTA Ph5: TMLG Meeting No.5			26/09/02*	-	°				
CH3009104	LCR TTA Ph5: Meeting with RMO	0		26/09/02	28/09/02	372				
CH3009106	LCR TTA Ph5: Receive road works advice	0	1187	29/09/02	05/10/02	372	u E	*	100 100 100	ECR TTA Phd: Receive road works
CH3009108	LCR TTA Ph5: Preparation for TTA Phase 4	•	3	06/10/02	08/10/02	372		9 (17		EDLCR TTA Ph5: Preparation for TT.
H3005100	, Services & Roadworks LCR (G2): Utilities Detection & Dig Trial Pit	100	4	22/08/02A	24/08/02A	1,245,7596	5. 34000	98 - 37 L	to months.	
H3005121	LCR (G2): Install Geotechnical Instrumentation	100	777	10/09/02A	16/09/02A		7.77		LCR (G2): Utilities Dete	tion & Dig Trial Pit
H3005130	LCR (G2): Excavation for Retaining Wall Footing	0		20/12/02	20/12/02	-18		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LCR	(G2): Install Geolechnical Instrumentation
CH3005140	LCR (G2): Lay Retaining Wall Blinding Concrete	- 0	5,745	21/12/02	21/12/02	-18	334	- 113		
		Ľ		211202	E III DOL	-10	48.75		halo de la	
H3040115	LCR (G3): Remove existing road paving	50	5	17/08/02A	27/09/02	-50	1000	7 2 2 2	Reference as	
H3040120	LCR (G3): Utilities Detection & Dig Trial Pit	0	- 4	23/09/02	26/09/02	-59	8 (8) 1 1 1 1			LCR (G3): Remove existing road paving
CH3040130	LCR (G3): Excavate & Divert U/G Drainage	0	5	27/09/02	03/10/02	-59	- A. - A		用类点性 [1]	LCR (G3): Utilities Detection & Dig Trial Pit
Ser H9N Utilities	s, Services & Roadworks						1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			LCR (G3): Excavate & Divert U/G Drai
244332100	LCR (H9N): Utilities Detection & Dig Trial Pit	100	-3	21/06/02A	30/08/02A		235		LCR (H9N): Utilible	Detection & Dig Trial Pt
3H332110	LCR (H9N): Hoarding erection	100	5	14/06/02A	30/08/02A	A Sand		TVI .	LCR (H9N): Hoard	
H332120	LCR (H9N): Remove Existing Paving & Barrier	0	5	23/09/02	27/09/02	-51				LCR (H9N): Remove Existing Paving & Bar
H332130	LCR (H9N): Excavation for Retaining Wall Footing	0	1	20/12/02	20/12/02	-28	1577	- 4 1		County County County County & Cou
H4332140	LCR (H9N): Lay RW Footing Blinding Concrete	0	1	21/12/02	21/12/02	-28				
er SB42 Utilis	ies, Services & Roadworks	4	100						erenteria di la reticio. No l'Organismo di 1928	
H6885113	LCR (SB42): Install Geotechnical Instrumentation	100	10	10/09/02A	16/09/02A	- 1		Ta ASSE	LCR	(SB42): Install Geotechnical Instrumentation
	es, Services & Roadworks				Too		1116	Y 2015		
H6999100	LCR (NB42): Utilities Detection & Dig Trial Pit	100		20/08/02A	23/06/02A				CR (NB42): Utilises De	ection & Dig Trial Pit
H6999121	LCR (NB42): Install Geotechnical Instrumentation	100	1019	10/09/02A	16/09/02A				LCR	(NB42): Install Geolechnical Instrumentation
H6999130	LCR (NB42): Excavation for retaining footing	0	1	07/12/02	07/12/02	-7				
H6999140	LCR (NB42): Laying blinding concrete	0	•	09/12/02	09/12/02	.7	No.			
H6999150	LCR (NB42): Rebar for footing	0	1	10/12/02	10/12/02	-7	22 CT	333		
H6999160	LCR (NB42): Formwork for facting	0	1	11/12/02	11/12/02	-7	100	T-10-16-16-16		

Activity	Activity Description	Comp	Orig	Early	Early Finish	Total	As-planned		AUG	SEP		20	OC OC	7.76.66	0.00	45000
CH6999170	LCR (NB42): Concreting	Comp	1	12/12/02	12/12/02	Float	Early Start	Early Finish	26 2		2	39 7	14	21 2		NOV
CH6999180	LCR (NB42): Formwork for retaining wall	-	1	13/12/02	13/12/02	-7					120					
CH6999190	LCR (NB42): Reinforcement for retaining wall		16 000	14/12/02				97 N. 18			164					
CH6999200		1		4.5	14/12/02	-7					1.3					
	LCR (NB42): final fixing for retaining wall	0	.2	16/12/02	17/12/02	-7					10					
CH5999210	LCR (NB42): Concreting	0	1	18/12/02	18/12/02	-7					Τ.					
CH6999220	LCR (NB42): Strike Formwork & Waterproof	1 0	2	19/12/02	20/12/02	-7										
CH6999230	LCR (NB42): Backfill	1 0	1	21/12/02	21/12/02	-7										
LCR: Street Lig		1			+						100	2500	48. L			1-4.9
CHHIGH151	LCR: Design Temporary Lighting to Replace KHM322	0	14	23/09/02	06/10/02	43			-							
CHHIGH152	LCR: Lighting Div. Submission to Replace ICHM322	1 0	60	07/10/02	05/12/02	43					200.0	LCR: Design Temporary Lighting to Res				
CHHIGH153	LCR SL: Install Temp. Lighting to Replace KHM322	-	5	06/12/02	11/12/02	34					N.		and the same of		AMU OF	Distance of the last
CHHIGH190	LCR Slow Lane: Remove KHM-322 at Pile Cap H9S	-		12/12/02												
CHHIGH193					17/12/02	34					1					
W III WOW1193	LCR Slow Lane Verge: Reinstate Street Lighting	9	3	18/12/02	20/12/02	34										

Appendix D1 Action/Limit Levels for Air Quality

Appendix D1: Action /Limit Levels for Air Quality

ACTION AND LIMIT LEVELS FOR 24-HOUR TSP

Location	Action Level (µg/m ³)	Limit Level (μg/m ³)
ASR1	163	260
ASR2	178	260

ACTION AND LIMIT LEVELS FOR 1-HOUR TSP

Location	Action Level (μg/m ³)	Limit Level (µg/m³)
ASR1	318	500
ASR2	324	500

Appendix D2

Action/Limit Levels for Noise

Appendix D2: Action/Limit Levels for Noise

Action and Limit Levels for Construction Noise

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

^{*} Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

Appendix E

Environmental Monitoring Schedule from 29 August to 28 September 2002

Environmental Monitoring Schedule between 29-August and 28-September 2002

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
				29-Aug	30-Aug	31-Aug	
						24hrs-TSP	
1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	
	1hr-TSP (ASR2) Noise	*1hr-TSP (ASR1)			24hrs-TSP	1hr-TSP	
8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	
				24hrs-TSP	1hr-TSP	Noise	
15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	
			24hrs-TSP	1hr-TSP Noise			
22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	
		24hrs-TSP(ASR1)	1hr-TSP Noise **24hrs-TSP (ASR2)				

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

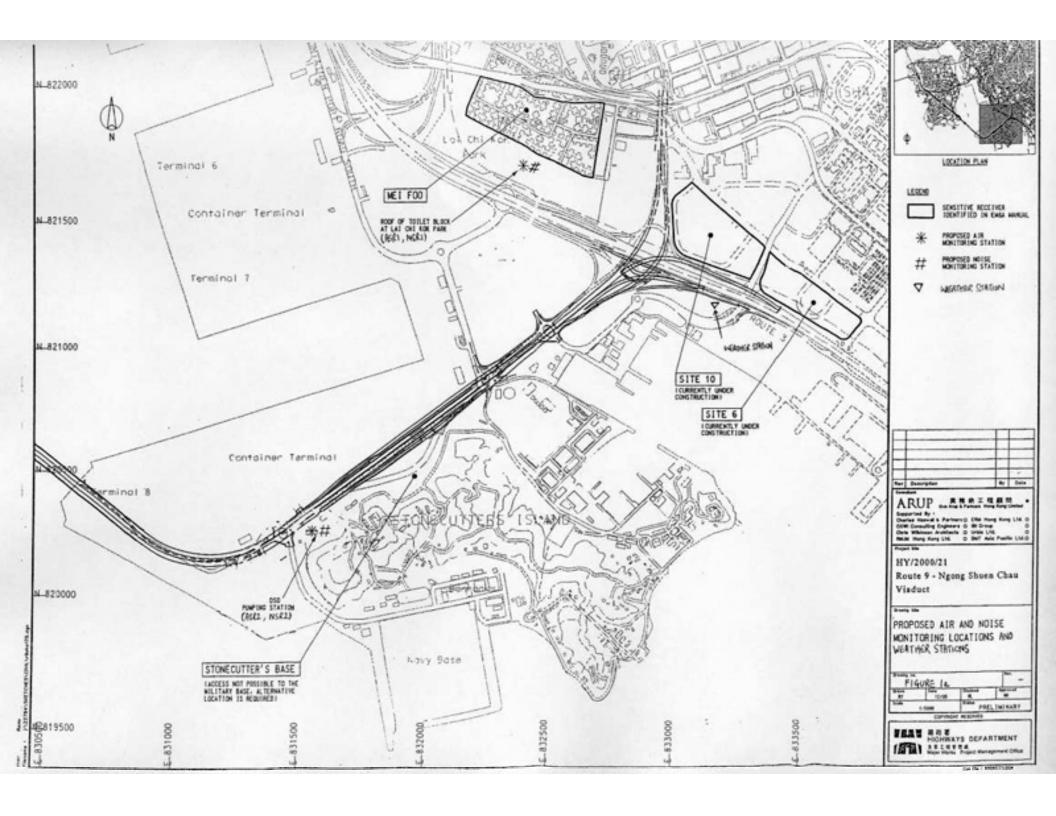
24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq₃₀ measurement at NSR1 and NSR2 during 07:00~19:00.

^{*} No electricity supply at ASR1 on 2 September 2002, the 24-hr TSP monitoring was postponed to 3 September 2002.

^{**} No electricity supply at ASR2 on 24 September 2002, the 24-hr TSP monitoring was postponed to 25 September 2002.

Appendix F Locations of Monitoring Stations



Appendix G1 Calibration Certificates for HVS

ARUP

TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report

Calibration Date	28-Sep-02	Next Calibration Date	28-Nov-02
Station	ASR1	Equipment no.	E.HVS.01

CONTRACTOR OF THE PARTY OF	THE RESERVE TO STATE OF THE PARTY OF THE PAR	Ambient Condition		27 JAC - AMERICAN V
Temperature, Ta (K)	301.4		Pressure, Pa (mmHg)	759.1

Orifice Transfer Standard Information										
Equipment no.	E.CAL.01									
Slope, mo	1.5507		Intercept, co	-0.00514						
Last Calibration Date	07-May-02		Next Calibration Date	07-May-03						
mo x Q_{abd} + co = $[\Delta O \times (Pa/760) \times (298/Ta)]^{1/2}$ Q_{abd} = { $[\Delta O \times (Pa/760) \times (298/Ta)]^{1/2}$ - co} / mo										

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{std} (CMM) - x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
14	7.1	1.71	7.3	2.69
2	5.9	1.56	6.1	2.45
3	4.8	1.41	5.0	2.22
746/4072 (1974) NEW YORK	3.8	1.25	3.9	1.96
Participation (Section 1997)	3.0	1.11	3.0	1.72

By Liner Regression of y on x

Slope, mh = 1.6145

Intercept, ch =

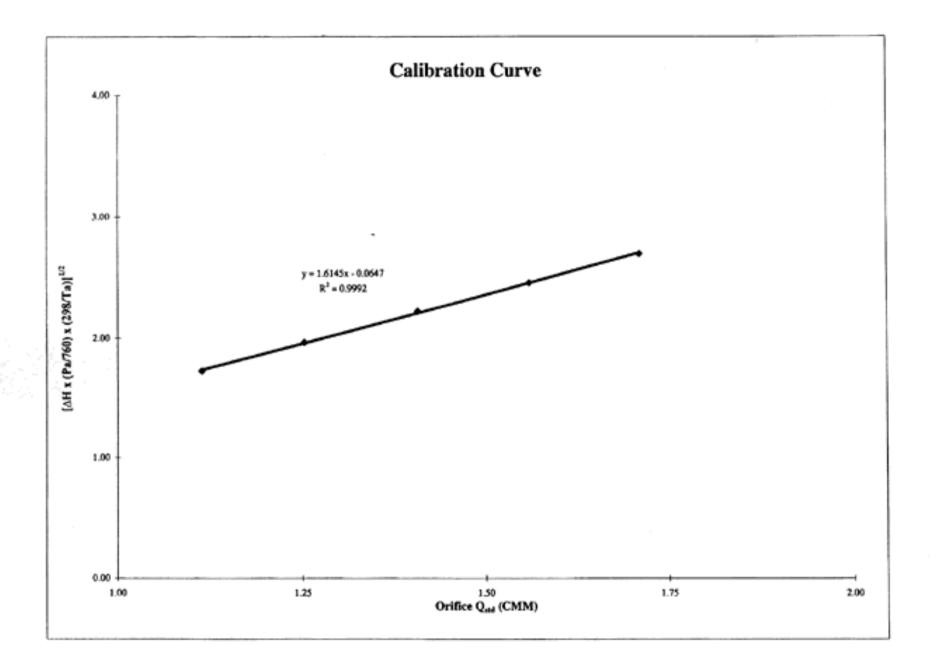
-0.0647

*Correction Coefficient, R =

0.9996

Calibration Result: ACCEPT

^{*} If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.



ARUP

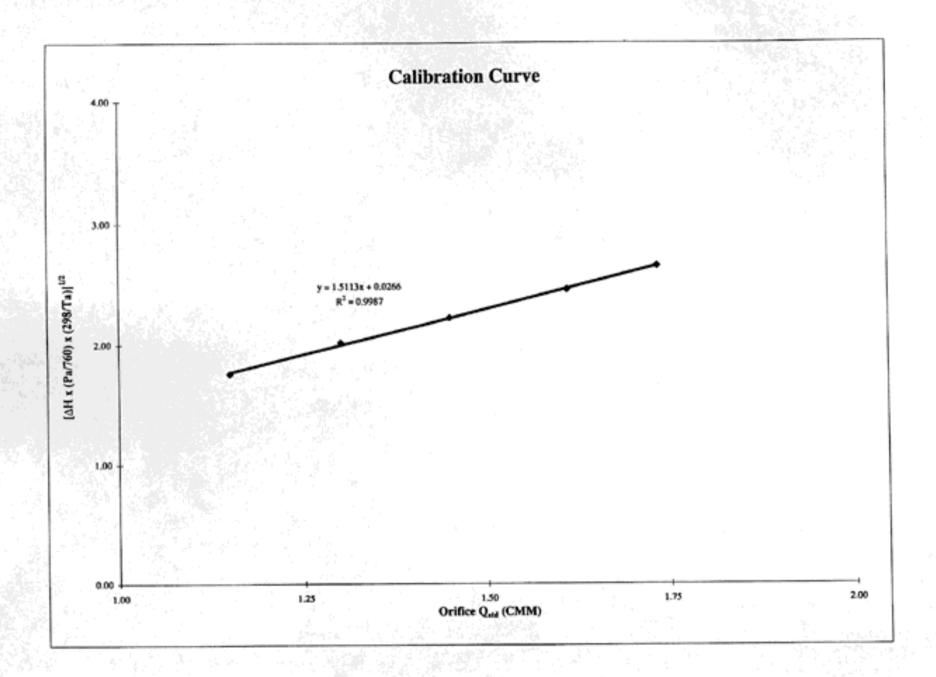
Calibrated By:

Checked By:

TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report

Calibration Date 28-Sep-02		Next Calibration Da		ate 28-Nov-02	
Station	ASR2		Equipment no.	E.HVS.02	
		Ambient Condition			
Temperature, Ta (K)	301.6	Ambient Condition	Pressure, Pa (mmHg)	759.2	
Tomperature, 1a (r)	301.0		r ressore, r a (minng)	735.2	
sage of the second	Orific	e Transfer Standard Info	ormation		
Equipment no.	E.CAL.01				
Slope, mo	1.5507		Intercept, co	-0.00514	
Last Calibration Date	07-May-02		Next Calibration Date	07-May-03	
		$\Omega_{\text{std}} + \text{co} = [\Delta O \times (Pa/760) \times (Pa/760)]$			
	Q _{std} =	([∆O x (Pa/760) x (298/Ta)] [™]	² - co} / mo		
Company Company	Orifice Manometer	Orifice Q _{skf} (CMM)	HVS Manometer	[ΔH x (Pa/760) x (298/Ta)] ¹⁶	
Calibration Point	Reading, ΔO (inch)	x-axis	Reading, ΔH (inch)	y-axis	
	13 S415 - 170 S1833	1.73	7.1	2.65	
1	7.3				
1 2	6.3	1.61	6.1	2.45	
			6.1 5.0	2.45 2.22	
2	6.3	1.61			

Date:



Appendix G2

Calibration Certificate for the Weather Station

Werkszeugnis nach DIN EN 10204/2.2 Test report according to DIN EN 10204/2.2





Geräte-Typ Model type Type d'instrument	8160.TF
Modell Model Modèle	Temperature sensor
Anzahl number nombre	1
Genauigkeit Accuracy Précision	± 0,2 °C (-30°C+70°C)

Hiermit bescheinigen wir, daß dieses LUFFT-Erzeugnis in Übereinstimmung mit dem QM-Handbuch der LUFFT Mess-und Regeltechnik GmbH nach DIN EN ISO 9001 gefertigt wurde. Die Bestellvorgaben wurden eingehalten. Die Ausführung und Anzeigegenauigkeit der Geräte / Systeme wurde im Rahmen der LUFFT-Qualitätssicherungsmaßnahmen überwacht. Die Qualitätsprüfung ergab keine Beanstandung.

This is to certify, that this Lufft product has been tested according to the TQM of the LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed.

Par ce document, nous certifions que le produit correspondant a bien été testé suivant les normes TQM de Lufft Mess- und Regeltechnik GmbH en accord avec la norme DIN EN ISO 9001. Les conditions stipulées dans la commande ont été remplies. La réalisation des appareils / systèmes ainsi que les tests de précision ont été fait en concordance avec les procédés de qualité Lufft.

Stempel Seal

Datum Date Prüfer Checked by

Qualitätsmanagement quality management

රාත්ත ව විශ්යාවේ කිස්වේම් විශ්යවර් මෙලික් ැකිරීම දීම් විශ්යවර් මිස් විමි.මේ 10ම් විශ්යාවර් මිස් විමි.මේ 10ම්

Lufft GmbH

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Südwestbank AG, Stuttgart Konto 21839 BLZ 600 602 01

Werkszeugnis nach DIN EN 10204/2.2 Test report according to DIN EN 10204/2.2





Geräte-Typ Model type Type d'instrument	8355.03
Modell Model Modèle	Air pressure sensor
Anzahl number nombre	1
Genauigkeit Accuracy Précision	± 0,2 % of final value optimal accuracy at 1010 hPa

Hiermit bescheinigen wir, daß dieses LUFFT-Erzeugnis in Übereinstimmung mit dem QM-Handbuch der LUFFT Mess-und Regeltechnik GmbH nach DIN EN ISO 9001 gefertigt wurde. Die Bestellvorgaben wurden eingehalten. Die Ausführung und Anzeigegenauigkeit der Geräte / Systeme wurde im Rahmen der LUFFT-Qualitätssicherungsmaßnahmen überwacht. Die Qualitätsprüfung ergab keine Beanstandung.

This is to certify, that this Lufft product has been tested according to the TQM of the LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed.

Par ce document, nous certifions que le produit correspondant a bien été testé suivant les normes TQM de Lufft Mess- und Regeltechnik GmbH en accord avec la norme DIN EN ISO 9001. Les conditions stipulées dans la commande ont été remplies. La réalisation des appareils / systèmes ainsi que les tests de précision ont été fait en concordance avec les procédés de qualité Lufft.

Stempel Seal Datum

Prüfer Checked by

Qualitätsmanagement quality management

Spot-u. Regeltechnik GmbH Gutenbergetraße 26 70736 Fellb 96:05.02 Postfach 4252

Lufft GmbH

LUFFT Mess- und Regeltechhik GmbH Gutenbergstraße 20 70736 Fellbach Tel.: 0711-51822-0 Fax: 0711-51822-41 emait: info@lufft.de internet: www.lufft.de Geschäftsführer Dipl.-Wirtsch.-Ing. Klaus Hirzel Dipl.-Ing. Axel Schmitz-Hübsch Postbank Stuttgart Konto 857-702 BLZ 600 100 70

Deutsche Bank AG, Stuttgart S.W.I.F.T.Code: DEUT DE SS Konto 1325 794

Werkszeugnis nach DIN EN 10204/2.2 Test report according to DIN EN 10204/2.2



Geräte-Typ Model type Type d'instrument	8352.00	
Modell Model Modèle	Wind sensor for speed and direction	
Anzahl number nombre	1.	
Genauigkeit Accuracy Précision	Speed: ± 0, 5 m/s or 3% Direction ± 5°	

Hiermit bescheinigen wir, daß dieses LUFFT-Erzeugnis in Übereinstimmung mit dem QM-Handbuch der LUFFT Mess-und Regeltechnik GmbH nach DIN EN ISO 9001 gefertigt wurde. Die Bestellvorgaben wurden eingehalten. Die Ausführung und Anzeigegenauigkeit der Geräte / Systeme wurde im Rahmen der LUFFT-Qualitätssicherungsmaßnahmen überwacht. Die Qualitätsprüfung ergab keine Beanstandung.

This is to certify, that this Lufft product has been tested according to the TQM of the LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed.

Par ce document, nous certifions que le produit correspondant a bien été testé suivant les normes TQM de Lufft Mess- und Regeltechnik GmbH en accord avec la norme DIN EN ISO 9001. Les conditions stipulées dans la commande ont été remplies. La réalisation des appareils / systèmes ainsi que les tests de précision ont été fait en concordance avec les procédés de qualité Lufft.

Stempel Seal Datum Date Prüfer Checked by Qualitätsmanagement quality management

G. LUFFT

MeG- u. Regeltechnik GmbH Gutenbergstraß 06205.02 70736 Felibach

Lufft GmbH

LUFF Mess und Regellechnik GmbH Gulenbergstraffe 2b C I D a C h 70736 Fellbach

Tel: 0711-51822-0 Fax: 0711-51822-41 email: info@lufft.de Internet: www.lufft.de Geschäftsführer Dipl.-Wirtsch.-Ing, Klaus Hirzel Dipl.-Ing, Axel Schmitz-Hübsch Postbank Stuttgart Konto 857-702 BLZ 600 100 70 Deutsche Bank AG, Stuttgart S.W.I.F.T.Code: DEUT DE SS Konto 1325 794

Südwestbank AG, Stuttgart Konto 21839 BLZ 600 602 01

Appendix G3

Calibration Certificates for High Volume Orifice Calibrator



TISCH ENVIRONMENTAL, 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 TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

	isch	Orifice I.I		333620 0491	Ta (K) - Pa (mm) -	293
		=========			Pa (mm) -	751.84
PLATE V	OLUME	VOLUME	DIFF	DIFF	METER DIFF	ORFICE DIFF
OR VDC #	START (m3)	STOP (m3)	VOLUME (m3)	TIME (min)	Hg (mm)	H20 (in.)
						(111.)
1	NA	NA	1.00	1.2640	4.2	1.50
2	NA	NA	1.00	0.9660	7.0	2.50
3	NA	NA	1.00	0.8830	8.4	3.00
5	NA	NA	1.00	0.8210	9.7	3.50
5	NA	NA	1.00	0.6200	16.7	6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0005 0.9967 0.9948 0.9931 0.9837	0.7915 1.0318 1.1267 1.2096 1.5867	1.2285 1.5860 1.7374 1.8766 2.4570		0.9944 0.9906 0.9888 0.9870 0.9777	0.7867 1.0255 1.1198 1.2022 1.5770	0.7646 0.9871 1.0813 1.1679 1.5291
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	1.55070 -0.00514 0.99978	 ra)]	Qa slop intercep coeffici y axis =	t (b) =	0.97102 -0.00320 0.99978

CALCULATIONS

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

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

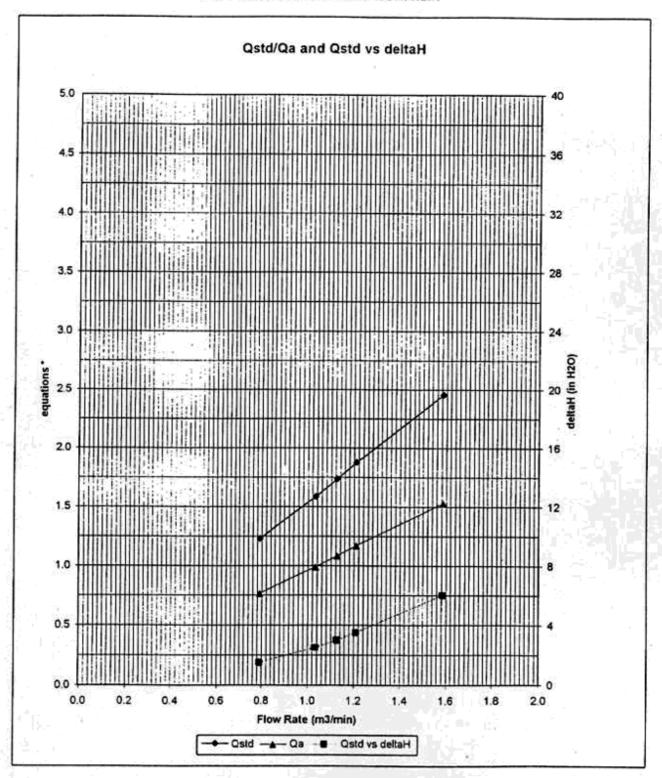
For subsequent flow rate calculations:

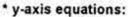
Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$



TISCH ENVIRONMENTAL, 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





Qstd series: $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstc}{Ta}\right)}$

#0491

Qa series:

√(∆ H (T a / P a))

Appendix G4

Calibration Certificates for Sound Level Meter and Calibrator

DICESVA S.L. Calibration laboratory

CERTIFICATE OF VERIFICATION

NUMBER: 02/00379

DICESVA S.L.

Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN

Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P015 (Revision 01) for acoustic tests and P016 (Revision 01) for electrical tests, based on standards IEC60651:1979/A1:1993 and IEC60804:1985/A1:1989/A2:1993.

INSTRUMENT:

Integrating-averaging sound level meter

MANUFACTURER:

CESVA

MODEL:

SC-30

SERIAL NUMBER:

T215638

MICROPHONE:

C-130, serial number 6154

TYPE:

1

DATE OF CALIBRATION:

2002-05-24

DATE OF ISSUE:

2002-05-27

CALIBRATION RESULT:

Within the specifications in the values measured

LABORATORY MANAGER

DICESVA S.L. Calibration laboratory

CERTIFICATE OF VERIFICATION

NUMBER: 02/00382

DICESVA S.L.

Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN

Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P017 (Revision 02), based on standard IEC942:1988.

INSTRUMENT:

Sound calibrator

MANUFACTURER:

CESVA

MODEL:

CB-5

SERIAL NUMBER:

0032450

TYPE:

1L

DATE OF CALIBRATION:

2002-05-09

DATE OF ISSUE:

2002-05-27

CALIBRATION RESULT:

Within the specifications in the values measured

LABORATORY MANAGER

CERTIFICATE OF VERIFICATION

NUMBER: 02/00381

DICESVA S.L.

Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN

Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P015 (Revision 01) for acoustic tests and P016 (Revision 01) for electrical tests, based on standards IEC60651:1979/A1:1993 and IEC60804:1985/A1:1989/A2:1993.

INSTRUMENT:

Integrating-averaging sound level meter

MANUFACTURER:

CESVA

MODEL:

SC-30

SERIAL NUMBER:

T215622

MICROPHONE:

C-130, serial number 6147

TYPE:

1

DATE OF CALIBRATION:

2002-05-24

DATE OF ISSUE:

2002-05-27

CALIBRATION RESULT:

Within the specifications in the values measured

LABORATORY MANAGER

DICESVA S.L. Calibration laboratory

CERTIFICATE OF VERIFICATION

NUMBER: 02/00380

DICESVA S.L.

Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN

Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P017 (Revision 02), based on standard IEC942:1988.

INSTRUMENT:

Sound calibrator

MANUFACTURER:

CESVA

MODEL:

CB-5

SERIAL NUMBER:

0032456

TYPE:

1L

DATE OF CALIBRATION:

2002-05-09

DATE OF ISSUE:

2002-05-27

CALIBRATION RESULT:

Within the specifications in the values measured

LABORATORY MANAGER

Appendix H1 Event/Action Plan for Air Quality

Appendix H1: Event/Action Plan for Air Quality

Event		Action	
Level	ET	ER	CONTRACTOR
Action Level			
Exceedance for one sample	 Identify source Inform ER Repeat Measurement to confirm finding Increase monitoring frequency to daily 	Notify Contractor Check mortaring data and Contractor's working methods	Rectify any unacceptable practice Amend working methods if appropriate
Exceedance for two or more consecutive samples	 Identify source Inform ER Repeat measurements to confirm findings Increase monitoring frequency to daily Discuss with ER for remedial actions required If exceedance continues arrange meeting with ER If exceedance stops, cease additional monitoring 	 Confirm receipt of notification of failure in writing Notify Contractor Check monitoring data and Contractor's working methods Discuss with Environmental Team and Contractor on potential remedial actions Ensure remedial actions properly implemented 	 Submit proposals for remedial actions to ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate
Limit Level	-		
Exceedance for one sample	 Identify source Inform ER and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and keep EPD and ER informed of the results 	 Confirm receipt of notification of failure in writing Notify Contractor Check monitoring data and Contractor's working methods Discuss with Environmental Team Leader and Contractor potential remedial actions Ensure remedial actions properly implemented 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to ER within 3 working days of notification Implements the agreed proposals Amend proposal if appropriate

Event		Action	
Level	ET	ER	CONTRACTOR
Action Level			
Exceedance for two or more consecutive samples	 Identify source Inform ER and EPD the causes & actions taken for the exceedances Repeat measurement to confirm findings Increase monitoring frequency to daily Investigate the causes of exceedance Arrange meeting with EPD and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep EPD and ER informed of the results & if exceedance stops, cease additional monitoring 	 Confirm receipt of notification of failure in writing Notify Contractor Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Discuss amongst Environmental Team Leader and the Contractor potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness If exceedance continues consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	 Take immediate action avoid further exceedance Submit proposals for remedial actions to ER within 3 working days of notification Implements the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated

Appendix H2

Event/Action Plan for Noise

Appendix H2: Event/Action Plan for Construction Noise

Event	Action		
	ET Leader	ER	Contractor
Action Level	 Notify ER Analyse investigation Increase monitoring frequency to check mitigation effectiveness 	Notify Contractor Require Contractor to propose measures for the analysed noise problem	 Submit noise mitigation proposals to Environmental Team Implement noise mitigation proposals*
Limit Level	Notify ER Notify EPD	Notify Contractor Require contractor to implement mitigation measures' Increase monitoring frequency to check mitigation effectiveness	Implement mitigation measures Prove to Environmental Team Leader ER effectiveness of measures applied
*	Mitigation Measures may include: Relocation of noise emitting p Use of silenced or super-siler Use of acoustic sheds or scre Limit quantity of plant operatii Change working technique	aced equipment eens	

Appendix I

Implementation Status of Environmental Protection Requirements

Appendix I: Implementation Status of Environmental Protection Requirement

	Environmental Protection Measures	Timing	Implementa	ition Stages*
Activities			29/7/02 to 28/8/02	29/8/02 to 28/9/02
Landscape and visual	Erection, painting and maintenance of site hoardings around works and storage areas.	Throughout the construction period	(not all)	(not all)
	Restrictions on the height of material/spoil stockpiles.			√
	Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.		N/A	N/A
	Avoidance of chunam or shotcreting slope treatments.		V	√ (not all)
	Conservation of topsoil where practical.		V	√ (not all)
	Site litter patrols and regular site waste collection.		√	A
	Maintenance of planting.		V	√
Ecological Impact	Minimise damage outside works areas		V	V
Construction:	•			
Material Storage	Covers for dusty stockpiles	Throughout the construction period	√ (not all)	√ (not all)
Vehicle movement	Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.		√ (not all)	√ (not all)
Plant maintenance	All plant shall be maintained to prevent any undue air emissions.		V	V
All plant activity	Reference should be made the EM&A Manual Action Plan for measures for consideration when Noise Limit Levels are not met.		N/A	N/A

N/A = Not Applicable ✓ = Implemented ▲ = Rectified

	Environmental Protection Measures	Timing	Implementa	tion Stages*
Plant maintenance	All plant shall be maintained to prevent any undue noise nuisance.	Throughout the construction period	V	V
Wheel wash	All wheel wash water shall be diverted to a sediment pit.		√ (Not all)	√ (Not all, in progress)
Concrete Truck Washout	All concrete trucks shall wash out into a lined pit.		(Not all)	√ (Not all)
Surface water diversion	All clean surface water shall be diverted around the site.		(Not all)	√ (Not all)
Sediment control	Sediment removal facilities shall be provided and be maintained and excavated as necessary to prevent sedimentation of the channel. Perimeter channels shall be provided. Works shall be programmed for the dry season where feasible.		(Not all, in progress)	√ (Not all, in progress)
Fuel can storage	All fuel cans shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.		$\sqrt{}$	√ (Not all)
Slope covers	Finished slopes and other slopes near drainage areas shall be covered prior to rains to reduce sedimentation of runoff. Slopes should be hydroseeded or shotcreted as early as possible to prevent erosion.		V	√ (Not all)
Excavation works	Excavation works shall avoid sensitive areas.	Throughout the excavation work period	V	√
Material, plant movement and fuel can refilling.	Any fuel or oil spills shall be excavated and disposed of.	Throughout the construction period	V	V
Generators	All generators shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.		(not all)	√
Material containers	All empty bags and containers shall be collected for disposal.		V	V

N/A = Not Applicable
✓ = Implemented
▲ = Rectified

	Environmental Protection Measures	Timing	Implementa	tion Stages*
Worker generated litter and Waste	Litter receptacles shall be placed around the site. Litter shall be taken regularly to the refuse collection points. Chemical toilets (or suitable equivalent) should be provided for workers. Any canteens should have grease-traps.	Throughout the construction period	V	A
Neighborhood nuisance	All complaints regarding construction works shall be relayed to the Environmental Team.		V	V
Legal requirements	Different types of waste should be segregated, stored, transported and disposed of in accordance with the relevant legislative requirements and guidelines	V	V	
On-site separation	On-site separation of municipal solid waste and construction/demolition wastes should be conducted as far as possible in order to minimize the amount of solid waste to be disposed to landfill.		V	√ (in progress)
Temporary storage area	Separated wastes should be stored in different containers, skips, or stockpiles to enhance reuse or recycling of materials and encourage their proper disposal.		V	V
Record of wastes	Records of quantities of wastes generated, recycled and disposed (with locations) should be properly kept.		(in progress)	(in progress)
Trip-ticket system	To monitor the disposal of waste at landfills and control fly-tipping, a "trip-ticket" system for all solid waste transfer/disposal operations should be implemented. The system should be included as a contractual requirement, and monitored by the Environmental Team and audited by the Independent Environmental Checker.		V	V

N/A = Not Applicable ✓ = Implemented ▲ = Rectified

Appendix J

1-hour and 24-hour TSP Monitoring Results

The Summary of 1-hr TSP Concentration ($\mu g/m^3$) at Mei Foo Sun Chuen (ASR 1)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
03-Sep-02	10:28	52.20	1.39	1.39	1.39	72.58	2.8299	2.8438	191.5
03-Sep-02	11:17	60.00	1.35	1.34	1.34	80.69	2.8225	2.8300	93.0
03-Sep-02	13:30	60.00	1.34	1.34	1.34	80.54	2.8158	2.8258	124.2
07-Sep-02	9:21	54.00	1.32	1.32	1.32	71.18	2.8212	2.8395	257.1
07-Sep-02	10:19	52.80	1.33	1.33	1.33	70.27	2.8207	2.8340	189.3
07-Sep-02	11:15	54.00	1.33	1.34	1.34	72.15	2.8454	2.8617	225.9
13-Sep-02	10:31	54.00	1.33	1.32	1.33	71.58	2.7711	2.7740	40.5
13-Sep-02	11:31	56.40	1.34	1.34	1.34	75.54	2.7560	2.7590	39.7
13-Sep-02	14:12	55.80	1.40	1.40	1.40	77.98	2.7789	2.7804	19.2
19-Sep-02	13:27	61.20	1.40	1.40	1.40	85.41	2.7647	2.7699	60.9
19-Sep-02	14:29	55.80	1.40	1.40	1.40	77.90	2.7675	2.7684	11.6
19-Sep-02	15:25	62.40	1.35	1.35	1.35	84.37	2.7559	2.7564	5.9
25-Sep-02	9:42	60.00	1.36	1.36	1.36	81.74	2.7621	2.7644	28.1
25-Sep-02	10:44	55.80	1.36	1.36	1.36	75.96	2.7550	2.7563	17.1
25-Sep-02	11:46	60.00	1.36	1.36	1.36	81.62	2.7622	2.7653	38.0

The Summary of 24-hrs TSP Concentration (µg/m³) at Mei Foo Sun Chuen (ASR1)

Date	Sampling Time	Elapsed Time (min)	Initial Standard Flow Rate (m³/min)	Final Standard Flow Rate (m³/min)	Averaged Standard Flow Rate (m³/min)	Total Standard Volume (m³)	Initial Filter Weight (g)	Final Filter Weight (g)	TSP Concentration μg/m³
31-Aug-02	0:00	1438.20	1.39	1.39	1.39	2000.91	2.8234	3.0853	130.9
06-Sep-02	0:00	1406.40	1.39	1.39	1.39	1957.36	2.8085	3.0584	127.7
12-Sep-02	0:00	1437.00	1.31	1.33	1.32	1896.00	2.7605	2.8169	29.7
18-Sep-02	9:37	1438.80	1.40	1.40	1.40	2011.67	2.7585	2.8682	54.5
24-Sep-02	0:00	1431.60	1.32	1.33	1.33	1899.34	2.7611	2.8999	73.1

The Summary of 1-hr TSP Concentration (µg/m³) at Stonecutters Base (ASR2)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
02-Sep-02	9:38	59.40	1.39	1.39	1.39	82.40	2.8136	2.8293	190.5
02-Sep-02	10:41	60.60	1.39	1.39	1.39	83.98	2.8102	2.8317	256.0
02-Sep-02	11:43	70.80	1.39	1.39	1.39	98.14	2.8258	2.8461	206.9
07-Sep-02	9:07	54.00	1.36	1.37	1.37	73.86	2.8067	2.8255	254.5
07-Sep-02	10:02	54.60	1.37	1.37	1.37	74.94	2.8378	2.8561	244.2
07-Sep-02	11:00	54.60	1.37	1.37	1.37	74.86	2.8231	2.8422	255.1
13-Sep-02	10:04	57.00	1.41	1.42	1.42	80.84	2.7711	2.7740	35.9
13-Sep-02	11:03	52.20	1.42	1.42	1.42	74.32	2.7577	2.7595	24.2
13-Sep-02	13:55	54.00	1.43	1.44	1.44	77.52	2.7544	2.7569	32.2
19-Sep-02	13:13	60.00	1.39	1.39	1.39	83.49	2.7432	2.7456	28.7
19-Sep-02	14:15	58.20	1.39	1.39	1.39	81.04	2.7580	2.7582	2.5
19-Sep-02	15:15	60.00	1.39	1.39	1.39	83.52	2.7504	2.7510	7.2
25-Sep-02	10:53	60.00	1.40	1.40	1.40	84.07	2.7547	2.7573	30.9
25-Sep-02	11:54	46.20	1.40	1.40	1.40	64.71	2.7654	2.7697	66.5
25-Sep-02	13:30	54.00	1.40	1.40	1.40	75.72	2.7611	2.7635	31.7

The Summary of 24-hrs TSP Concentration (µg/m³) at Stonecutters Base (ASR2)

Date	Sampling Time	Elapsed Time (min)	Initial Standard Flow Rate (m³/min)	Final Standard Flow Rate (m³/min)	Averaged Standard Flow Rate (m³/min)	Total Standard Volume (m³)	Initial Filter Weight (g)	Final Filter Weight (g)	TSP Concentration μg/m³
31-Aug-02	0:00	1464.60	1.36	1.36	1.36	1992.96	2.8124	3.1425	165.6
06-Sep-02	0:00	1428.00	1.43	1.43	1.43	2043.22	2.8214	3.1601	165.8
12-Sep-02	0:00	1396.20	1.36	1.37	1.36	1902.02	2.7690	2.8848	60.9
18-Sep-02	9:19	1393.80	1.41	1.42	1.42	1973.40	2.7673	2.8709	52.5
25-Sep-02	14:21	1456.80	1.40	1.39	1.40	2037.53	2.7500	2.8255	37.1

The Summary of 1-hr TSP Concentration (µg/m³) at Mei Foo Sun Chuen (ASR1)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
02-Aug-02	9:36	56.40	1.35	1.35	1.35	76.02	2.7481	2.7550	90.8
02-Aug-02	10:35	63.00	1.33	1.33	1.33	83.96	2.7386	2.7469	98.9
02-Aug-02	11:38	55.20	1.35	1.34	1.35	74.26	2.7651	2.7664	17.5
08-Aug-02	14:13	61.80	1.38	1.38	1.38	85.06	2.8192	2.8276	98.8
08-Aug-02	15:18	69.00	1.42	1.42	1.42	97.88	2.8204	2.8303	101.1
08-Aug-02	16:44	66.00	1.38	1.38	1.38	90.93	2.8271	2.8361	99.0
14-Aug-02	9:32	56.40	1.29	1.30	1.29	73.01	2.8166	2.8259	127.4
14-Aug-02	10:30	55.20	1.35	1.34	1.35	74.31	2.8131	2.8263	177.6
14-Aug-02	11:24	70.20	1.35	1.34	1.34	94.39	2.8223	2.8355	139.9
20-Aug-02	13:38	58.20	1.35	1.35	1.35	78.59	2.8133	2.8221	112.0
20-Aug-02	14:37	78.60	1.40	1.40	1.40	109.72	2.8508	2.8574	60.2
20-Aug-02	15:40	75.60	1.40	1.40	1.40	105.54	2.8376	2.8463	82.4
26-Aug-02	8:54	60.00	1.32	1.32	1.32	79.23	2.8278	2.8397	150.2
26-Aug-02	9:55	54.00	1.32	1.32	1.32	71.31	2.8193	2.8283	126.2
26-Aug-02	10:55	59.40	1.32	1.32	1.32	78.44	2.8232	2.8333	128.8
03-Sep-02	10:28	52.20	1.39	1.39	1.39	72.58	2.8299	2.8438	191.5
03-Sep-02	11:17	60.00	1.35	1.34	1.34	80.69	2.8225	2.8300	93.0
03-Sep-02	13:30	60.00	1.34	1.34	1.34	80.54	2.8158	2.8258	124.2
07-Sep-02	9:21	54.00	1.32	1.32	1.32	71.18	2.8212	2.8395	257.1
07-Sep-02	10:19	52.80	1.33	1.33	1.33	70.27	2.8207	2.8340	189.3
07-Sep-02	11:15	54.00	1.33	1.34	1.34	72.15	2.8454	2.8617	225.9
13-Sep-02	10:31	54.00	1.33	1.32	1.33	71.58	2.7711	2.7740	40.5
13-Sep-02	11:31	56.40	1.34	1.34	1.34	75.54	2.7560	2.7590	39.7
13-Sep-02	14:12	55.80	1.40	1.40	1.40	77.98	2.7789	2.7804	19.2
19-Sep-02	13:27	61.20	1.40	1.40	1.40	85.41	2.7647	2.7699	60.9
19-Sep-02	14:29	55.80	1.40	1.40	1.40	77.90	2.7675	2.7684	11.6
19-Sep-02	15:25	62.40	1.35	1.35	1.35	84.37	2.7559	2.7564	5.9
25-Sep-02	9:42	60.00	1.36	1.36	1.36	81.74	2.7621	2.7644	28.1
25-Sep-02	10:44	55.80	1.36	1.36	1.36	75.96	2.7550	2.7563	17.1
25-Sep-02	11:46	60.00	1.36	1.36	1.36	81.62	2.7622	2.7653	38.0

The Summary of 24-hrs TSP Concentration (μg/m³) at Mei Foo Sun Chuen (ASR1)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m ³
03-Aug-02	0:00	1429.80	1.33	1.33	1.33	1899.51	2.8221	2.8995	40.7
09-Aug-02	9:44	1411.80	1.39	1.39	1.39	1962.23	2.8217	2.8940	36.8
15-Aug-02	10:46	1437.00	1.37	1.37	1.37	1971.66	2.8240	2.9425	60.1
21-Aug-02	11:32	1474.20	1.40	1.40	1.40	2057.95	2.8260	2.9306	50.8
27-Aug-02	11:08	1449.00	1.32	1.31	1.32	1907.77	2.8225	3.0756	132.7
31-Aug-02	0:00	1438.20	1.39	1.39	1.39	2000.91	2.8234	3.0853	130.9
06-Sep-02	0:00	1406.40	1.39	1.39	1.39	1957.36	2.8085	3.0584	127.7
12-Sep-02	0:00	1437.00	1.31	1.33	1.32	1896.00	2.7605	2.8169	29.7
18-Sep-02	9:37	1438.80	1.40	1.40	1.40	2011.67	2.7585	2.8682	54.5
24-Sep-02	0:00	1431.60	1.32	1.33	1.33	1899.34	2.7611	2.8999	73.1

The Summary of 1-hr TSP Concentration (µg/m³) at Stonecutters Base (ASR2)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentratio
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
02-Aug-02	9:15	60.00	1.48	1.48	1.48	89.06	2.7425	2.7461	40.4
02-Aug-02	10:19	64.20	1.48	1.49	1.48	95.31	2.7318	2.7383	68.2
02-Aug-02	11:26	55.20	1.47	1.47	1.47	81.17	2.7672	2.7755	102.3
08-Aug-02	14:00	58.80	1.50	1.50	1.50	88.50	2.8258	2.8346	99.9
08-Aug-02	15:01	62.40	1.42	1.42	1.42	88.34	2.8207	2.8299	104.1
08-Aug-02	16:28	56.40	1.42	1.42	1.42	79.87	2.8208	2.8295	108.9
14-Aug-02	9:18	54.00	1.34	1.34	1.34	72.58	2.8383	2.8460	106.1
14-Aug-02	10:12	54.60	1.34	1.34	1.34	73.35	2.8272	2.8349	105.0
14-Aug-02	11:06	63.00	1.34	1.34	1.34	84.55	2.8221	2.8377	184.5
20-Aug-02	13:51	64.80	1.35	1.35	1.35	87.30	2.8265	2.8378	129.4
20-Aug-02	14:57	61.20	1.35	1.36	1.36	82.97	2.8407	2.8500	112.1
20-Aug-02	15:59	54.60	1.35	1.35	1.35	73.68	2.8250	2.8299	66.5
26-Aug-02	8:43	59.40	1.36	1.36	1.36	80.93	2.8187	2.8370	226.1
26-Aug-02	9:43	57.00	1.36	1.36	1.36	77.62	2.8231	2.8415	237.0
26-Aug-02	10:32	54.60	1.36	1.36	1.36	74.39	2.8138	2.8255	157.3
02-Sep-02	9:38	59.40	1.39	1.39	1.39	82.40	2.8136	2.8293	190.5
02-Sep-02	10:41	60.60	1.39	1.39	1.39	83.98	2.8102	2.8317	256.0
02-Sep-02	11:43	70.80	1.39	1.39	1.39	98.14	2.8258	2.8461	206.9
07-Sep-02	9:07	54.00	1.36	1.37	1.37	73.86	2.8067	2.8255	254.5
07-Sep-02	10:02	54.60	1.37	1.37	1.37	74.94	2.8378	2.8561	244.2
07-Sep-02	11:00	54.60	1.37	1.37	1.37	74.86	2.8231	2.8422	255.1
13-Sep-02	10:04	57.00	1.41	1.42	1.42	80.84	2.7711	2.7740	35.9
13-Sep-02	11:03	52.20	1.42	1.42	1.42	74.32	2.7577	2.7595	24.2
13-Sep-02	13:55	54.00	1.43	1.44	1.44	77.52	2.7544	2.7569	32.2
19-Sep-02	13:13	60.00	1.39	1.39	1.39	83.49	2.7432	2.7456	28.7
19-Sep-02	14:15	58.20	1.39	1.39	1.39	81.04	2.7580	2.7582	2.5
19-Sep-02	15:15	60.00	1.39	1.39	1.39	83.52	2.7504	2.7510	7.2
25-Sep-02	10:53	60.00	1.40	1.40	1.40	84.07	2.7547	2.7573	30.9
25-Sep-02	11:54	46.20	1.40	1.40	1.40	64.71	2.7654	2.7697	66.5
25-Sep-02	13:30	54.00	1.40	1.40	1.40	75.72	2.7611	2.7635	31.7

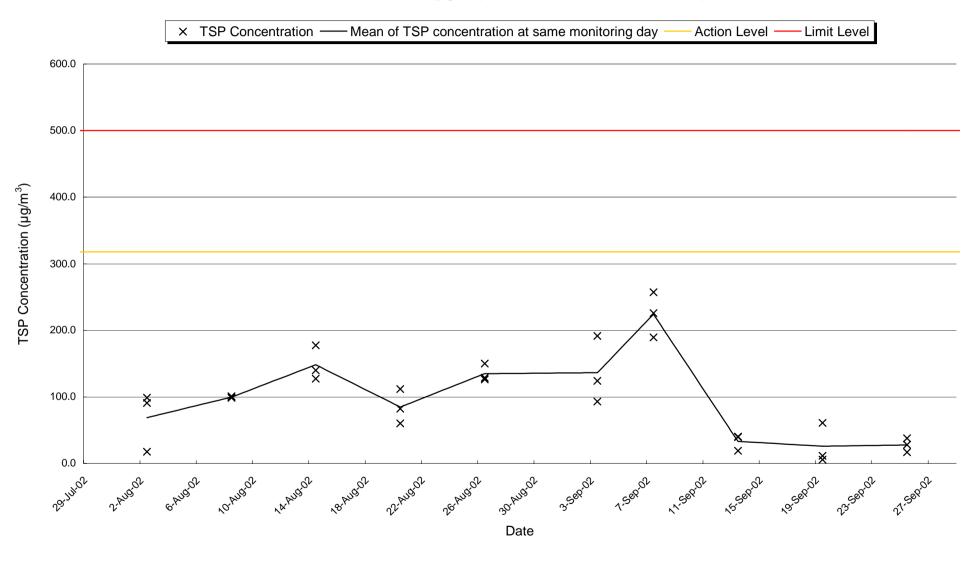
The Summary of 24-hrs TSP Concentration (μg/m³) at Stonecutters Base (ASR2)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
03-Aug-02	0:00	1447.20	1.48	1.48	1.48	2142.51	2.7368	2.8609	57.9
09-Aug-02	9:15	1444.80	1.43	1.43	1.43	2064.12	2.8284	2.9662	66.8
15-Aug-02	10:29	1460.40	1.34	1.34	1.34	1956.29	2.8288	2.8834	27.9
21-Aug-02	11:02	1450.20	1.33	1.33	1.33	1934.54	2.8193	2.9766	81.3
27-Aug-02	10:52	1482.00	1.36	1.36	1.36	2013.81	2.8250	3.1500	161.4
31-Aug-02	0:00	1464.60	1.36	1.36	1.36	1992.96	2.8124	3.1425	165.6
06-Sep-02	0:00	1428.00	1.43	1.43	1.43	2043.22	2.8214	3.1601	165.8
12-Sep-02	0:00	1396.20	1.36	1.37	1.36	1902.02	2.7690	2.8848	60.9
18-Sep-02	9:19	1393.80	1.41	1.42	1.42	1973.40	2.7673	2.8709	52.5
25-Sep-02	14:21	1456.80	1.40	1.39	1.40	2037.53	2.7500	2.8255	37.1

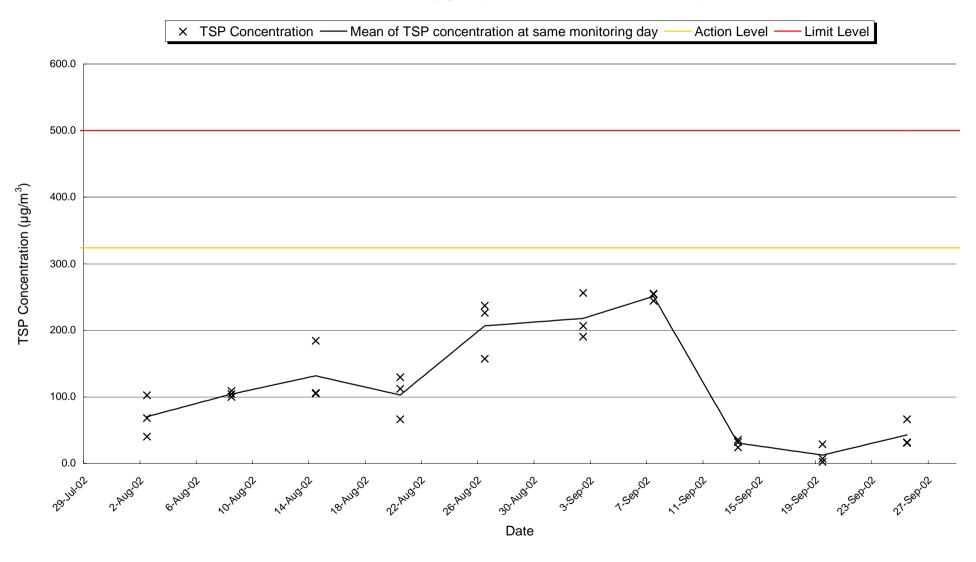
Appendix K

Graphical Presentation of 1-hour and 24-hour TSP Monitoring Results

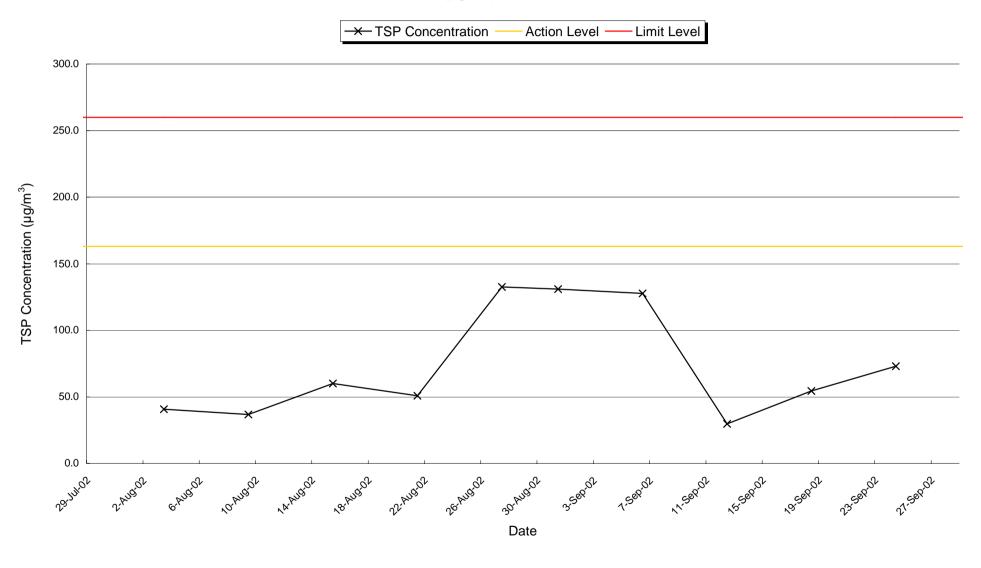
1 hr TSP Concentration ($\mu g/m^3$) at Mei Foo Sun Chuen (ASR1)



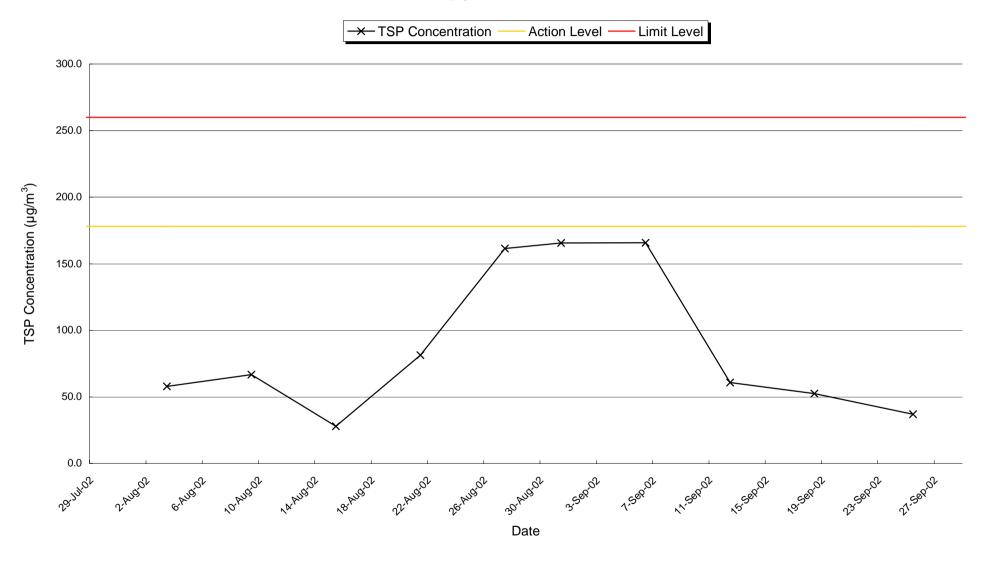
1 hr TSP Concentration (μg/m³) at Mei Foo Sun Chuen (ASR2)



24 hrs TSP Concentration (µg/m³) at Mei Foo Sun Chuen (ASR1)



24 hrs TSP Concentration (µg/m³) at Mei Foo Sun Cheun (ASR2)



Appendix L

Wind Data Monitoring Results

Appendix L: Wind Data Monitoring Result

Wind Direction during Impact Air Monitoring
- Frequency of Wind Direction at 5 minute Interval

Date		Wind Direction (Degree)														
	0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
31-Aug-02	0	0	0	0	0	0	0	13	105	71	17	6	6	0	0	0
2-Sep-02	0	0	0	0	0	0	0	3	61	61	33	36	1	0	0	0
3-Sep-02	0	0	0	0	0	0	0	2	38	63	55	18	0	0	0	0
6-Sep-02	0	0	1	2	0	0	0	0	0	3	4	16	11	5	1	1
7-Sep-02	2	1	9	1	0	0	0	0	0	0	0	0	39	35	9	5
12-Sep-02	0	0	0	55	75	4	0	3	11	7	2	1	0	0	0	0
13-Sep-02	1	0	0	39	108	1	0	0	0	0	0	0	0	0	0	0
18-Sep-02	1	0	8	144	67	0	0	0	0	0	0	0	0	0	1	2
19-Sep-02	0	0	12	179	59	0	0	0	0	0	0	0	0	0	0	0
24-Sep-02	0	0	3	129	24	0	0	0	0	0	0	0	0	0	0	0
25-Sep-02	0	0	0	58	52	0	0	0	0	0	0	0	0	0	0	0

Appendix L: Wind Data Monitoring Result

Wind Speed during Impact Noise Monitoring

		Wind Sp	eed m/s
Date	Time	Mean	Max
2-Sep-02	09:30~10:00	1.7	2.1
2-Sep-02	10:31~11:01	1.0	1.2
14-Sep-02	09:00~09:30	1.0	1.7
14-Sep-02	10:01~10:31	0.6	1.1
19-Sep-02	13:44~14:14	3.3	3.8
19-Sep-02	14:30~15:00	3.1	3.5
25-Sep-02	11:00~11:30	0.1	0.7
25-Sep-02	14:30~15:00	1.2	2.5

Appendix M

Noise Monitoring Results

The Summary of Day-time Leq_{30} Level at Mei Foo Sun Chuen (NSR 1)

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level
		min	dB(A)	dB(A)	dB(A)	dB(A)
2-Aug-02	10:00	30	72.8	74.6	70.6	75.0
8-Aug-02	11:04	30	67.9	70.1	65.6	75.0
14-Aug-02	09:31	30	72.6	74.6	70.2	75.0
20-Aug-02	14:02	30	68.7	69.5	66.4	75.0
26-Aug-02	10:03	30	71.5	73.7	69.6	75.0
2-Sep-02	09:30	30	67.9	69.2	63.9	75.0
14-Sep-02	09:00	30	68.8	70.0	64.2	75.0
19-Sep-02	14:30	30	64.8	66.1	63.1	75.0
25-Sep-02	11:00	30	64.5	65.5	62.8	75.0

The Summary of Day-time Leq₃₀ Level at Stonecutters Base (NSR 2)

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level
		min	dB(A)	dB(A)	dB(A)	dB(A)
2-Aug-02	11:00	30	74.4	77.8	69.4	75.0
8-Aug-02	10:00	30	74.7	77.0	71.9	75.0
14-Aug-02	08:33	30	74.0	77.6	70.6	75.0
20-Aug-02	16:31	30	74.9	77.0	68.3	75.0
26-Aug-02	09:01	30	74.3	76.9	68.1	75.0
2-Sep-02	10:31	30	74.4	78.4	68.9	75.0
14-Sep-02	10:01	30	74.0	78.9	68.4	75.0
19-Sep-02	13:44	30	74.6	77.5	67.9	75.0
25-Sep-02	14:30	30	74.8	78.5	68.1	75.0

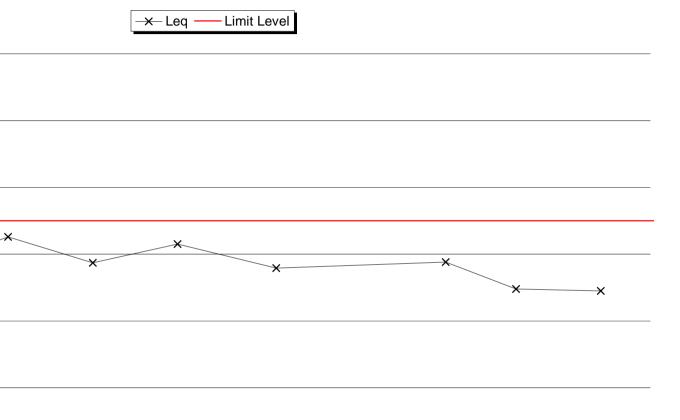
Appendix N

Graphical Presentation of Noise Monitoring Results

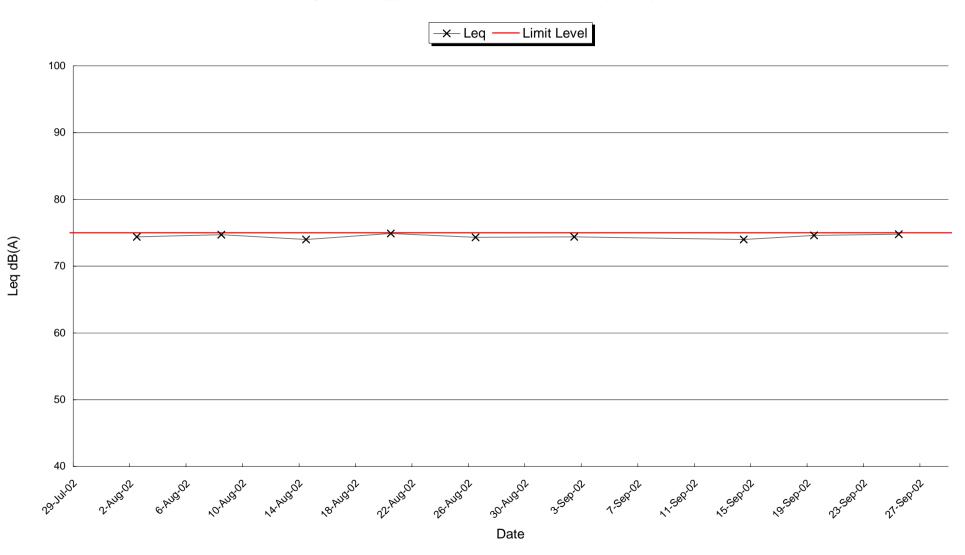
Day-time Leq₃₀ Level at Mei Foo Sun Chuen (NSR1)

Date

Leq dB(A)



Day-time Leq₃₀ Level at Stonecutters Base (NSR2)



Appendix O1 Environmental Complaint Log Book

Appendix O1-Summary of Previous Complaints Details

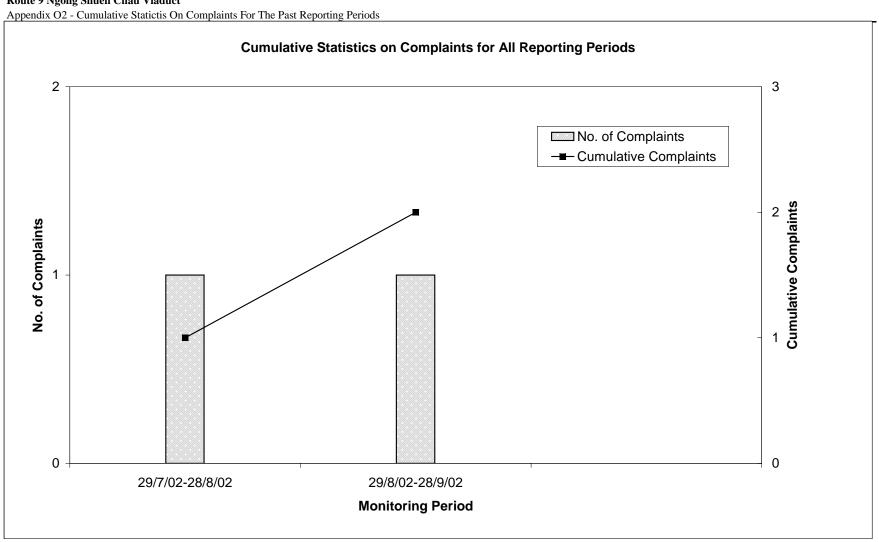
	Date of Received	Date of Complaint	Complainant's information	•	Recommended Mitigation Measures	Follow-up Action	Status/Remarks
E2002-01	19-Aug-02 19-Aug-02 Complaint was referred by HyD on 19-Aug-02 Illegal Dumping (Soil and mud/C&D waste) on Lai Po Road; near the site entrance of KMB Depot on 19-Aug-			dumping were found within the site boundary in a.m. on 19-Aug-02. CHEC	Closed. Follow-up phone call to complainant on 20-Aug-02. The complainant was satisfied to our prompt action.		
				02. Suspect not due to the Project's work.		Investigations were undertaken by ET on 20 and 21 Aug 02. The waste was cleared up and no further illegal dumping was found at the same location.	
EC2002-02	20-Sep-02	9-Sep-02	Complaint was referred by EPD on 20-Sept-02.	generated from the piling works at the site between Hing Wah Street West and Lai Po Road.	August 2002. The Contractor used a smaller power vibro hammer for casing installation, limit the casing installation operation to 7:00am-9:00am, 12:00-13:00pm and 17:00 -19:00pm, and carry out vibration monitoring to ensure the magnitude of vibration during casing installation is within the specified limit.	and 25 September 2002.	Closed. Site meeting with EPD on 25 September 2002 and they had no further comment for the carried out mitigation measures. ET Leader send a comprehensive report to EPD on 30 September 2002.
						No noise exceedance was recorded at the two designated location since the commencement of construction work.	

Appendix O2

Cumulative Statistics for Environmental Complaint

Appendix O2 - Cumulative Statistics of Complaints

Route 9 Ngong Shuen Chau Viaduct



Appendix P

Tentative Environmental Monitoring Schedule from 29 September to 28 December 2002

Environmental Monitoring Schedule between 29-September and 28-October 2002

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Sep Noise _{PH}	30-Sep 24hrs-TSP		2-Oct	3-Oct	4-Oct	5-Oct 24hrs-TSP
			Noise			
6-Oc	t 7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
Noise _{PH}	1hr-TSP Noise				24hrs-TSP	1hr-TSP
13-Oc	t 14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct
Noise _{PH}				24hrs-TSP	1hr-TSP Noise	
20-00	t 21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
Noise _{PH}				1hr-TSP Noise		
27-00	t 28-Oct					
Noise _{PH}						

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq $_{30}$ measurement at NSR1 and NSR2 during 07:00~19:00. 6 x Leq $_{5}$ and 4 x Leq $_{5}$ will be measured during 19:00~23:00 and 23:00~07:00

of next day (if construction activities are undertaken)

Noise_{PH} 6 x leq₅ will be measured during 07:00~19:00 (if construction activities are undertaken)

Tentative Environmental Monitoring Schedule between 29-October and 28-November 2002

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

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq₃₀ measurement at NSR1 and NSR2 during 07:00~19:00. 6 x Leq₅ and 4 x Leq₅ will be measured during 19:00~23:00 and 23:00~07:00

of next day (if construction activities are undertaken)

Noise_{PH} 6 x leq₅ will be measured during 07:00~19:00 (if construction activities are undertaken)

Tentative Environmental Monitoring Schedule between 29-November and 28-December 2002

Sund	day	Monday		Tuesd	ay	Wednesday	Thursday	Friday	Saturda	ay
								29-Nov		30-Nov
Noise _{PH}	1-Dec		2-Dec	24hrs-TSP	3-Dec	4-Dec 1hr-TSP Noise	5-Dec	6-Dec		7-Dec
Noise _{PH}	8-Dec	24hrs-TSP		1hr-TSP Noise	10-Dec	11-Dec	12-Dec	13-Dec	24hrs-TSP	14-Dec
Noise _{PH}		1hr-TSP Noise	16-Dec		17-Dec	18-Dec	19-Dec	20-Dec 24hrs-TSP	1hr-TSP	21-Dec
Noise _{PH}	22-Dec	2	23-Dec	24hrs-TSP	24-Dec	25-Dec	26-Dec	27-Dec 1hr-TSP Noise		28-Dec

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq₃₀ measurement at NSR1 and NSR2 during 07:00~19:00. 6 x Leq₅ and 4 x Leq₅ will be measured during 19:00~23:00 and 23:00~07:00

of next day (if construction activities are undertaken)

Noise_{PH} 6 x leq₅ will be measured during 07:00~19:00 (if construction activities are undertaken)

Appendix Q

Response to IEC's Comment

Appendix Q: Response to IEC's Comment

Item No.	Document	Comment	Response
	Reference		
1	ES – Future Key	As mentioned in Section 9, dust impact should	Amended accordingly.
	Issues	be included in the table.	