MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

Highways Department

Route 9 Between Tsing Yi and Cheung Sha Wan – Phase 1 Ngong Shuen Chau Viaduct: Monthly Environmental Monitoring & Audit Report (29th March – 28th April 2003)

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

Monthly Environmental Monitoring & Audit Report (29th March – 28th April 2003)

Certified by the Environmental Team Leader

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	2003

EXECUTIVE SUMMARY

This is the ninth 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 period between 29th March 2003 and 28th April 2003 in accordance with the EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

During the monitoring period, the following construction activities have taken place:

- site investigation;
- traffic and utilities diversions;
- bored piling;
- sheet piling and;
- pile cap and pier construction.

Construction works were carried out at site area P1-SA6, P1-SA9, P1-SA9, P1-SA11, P1-SA13 and P1-SA14 during restricted hour in the reporting month.

Monitoring of Total Suspended Particulates (TSP) and noise were 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 36 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 12 sets of measurement were carried out during the reporting month and all were below the AL Levels.

Noise

Daytime Monitoring

A total of 8 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 AL Levels.

Evening-time Monitoring

A total of 5 sets of 6 x $L_{eq}(5min)$ measurement during evening-time (i.e. 1900 to 2300 hours on normal weekdays) were carried out at the closest noise monitoring location, NSR1. All measured levels were below the AL Levels.

Night-time Monitoring

No noise monitoring was carried out during night-time (i.e. 2300 to 0700 next day) in the reporting period.

Public-holiday Monitoring

A total of 5 sets of 6 x $L_{eq}(5min)$ measurement during public holiday (i.e. 0700 to 1900 hours during public holiday) were carried out at NSR1. All measured levels were below the AL Levels.

Water Quality

According to the Waste Water Discharge License obtained by the Contractor, water sampling at designated discharge points shall be carried out on a quarterly basis. The next water quality sampling is scheduled for May 2003. No water quality monitoring is required under the EM&A requirements.

Waste Management

Since 1st March 2003, all the inert C&D material including Bentonite Slurry from the Contract shall be disposed of at Kai Tak Public Fill Barging Point. 466 no. of trucks, approximately 3262m³ of excavated materials were delivered to the Kai Tak PFBP during the reporting month. Approximate 75.39 tonnes of C&D wastes were produced on-site and have been delivered to the 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	As informed by CHEC, perimeter drainage were being constructed throughout the month and were all completed by the end of the month, except for P1-SA8 (H7, H8 area). Some u-channels required cleaning and connections to the storm water drains need to be unblocked before using. However, it is uncertain whether the completed temporary drainage system provided has adequate capacity to cope with run-off during a heavy rain storm.	Debris and sand/mud should be cleared from the uchannels as soon as possible and the entire temporary drainage system should be tested before use. Perimeter drainage for P1-SA8 (H7, H8 area) should be installed as soon as possible.	CHEC has been clearing out the u-channels and is considering carrying out testing.
2	Inadequate watering of all sites was observed throughout the month.	Frequency of watering needs to be increased and/or more sprinklers should be used.	More sprinklers have been employed but still not enough.
3	Oil spillages can be seen adjacent to chemical storage areas and various PMEs throughout the site.	Extra care is required when handling oil to avoid spillage and contaminated soil must be cleaned up and disposed of in accordance with relevant regulations.	seen.
4	Wheel washing facilities were not provided at SA8 (Lin Cheung Road and H9S).	Wheel washing facilities to be installed as soon as possible or close the exits.	CHEC proposed to block the site exit at H9S but not yet done. A water hose is provided at the Lin Cheung

Item	Findings	Proposed Mitigation Measures	Environmental Outcome
			Road site as a temporary
			measure (works at Lin Cheung
			Road is scheduled to finished
			by mid May)
5	General refuse was found	General refuse and litter	General refuse/rubbish was
	scattered at various	should be temporary stored	cleared by CHEC regularly
	locations throughout the	in lidded bins on-site and	and additional rubbish bins are
	site areas occasionally.	removed from site regularly.	being arranged.
6	Inadequate covering for	Stockpiles must be covered	Tarpaulin sheets were being
	stockpiles.	adequately by tarpaulin sheets	arranged by the Contractor to
		to prevent dust emission.	cover all stockpiles.

IEC Audit was carried out on 25^{th} April 2003. A total of 1 non-compliance and 7 observations were raised by IEC and they are as follows:

Item	Findings	Proposed Mitigation Measures	Environmental Outcome
1 (NC)	Outstanding from last month. Perimeter drainage system was not yet in operation.	Perimeter drainage system should be constructed as soon as possible with adequate sedimentation facilities before discharge.	Perimeter drainage has been constructed but not yet in operation. CHEC has been reminded on numerous occasions.
(Obs)	emission were observed	Increase watering frequency and/or employ more sprinklers.	Although the number of sprinklers has been increase, it is still inadequate to cover the entire site area.
2 (Obs)	P1-SA15; oil stain on the ground were observed.	Contaminated soil must be removed and disposed of in accordance with the relevant regulations.	CHEC has allocated site staff to clean up the soil
3 (Obs)	P1-SA6 (bus depot & roundabout); untreated surface run-off being discharged into the storm water drain outside the P1-SA6 main site exit and adjacent to the wheel washing area in the roundabout.	Surface run-off must be treated before discharge into the storm water drains.	CHEC has allocated site staff to rectify the situation.
4 (Obs)	P1-SA6; stockpiles are not covered entirely.	Stockpiles must be covered.	CHEC has allocated site staff to rectify the situation.
5 (Obs)	P1-SA6 and Lin Cheung Road; rubbish were not properly contained and were scattered all over the site.	General refuse and litter should be stored in lidded bins provided on site and removed from site regularly.	Rubbish was cleared by CHEC and additional rubbish bins are being arranged.
6 (Obs)	P1-SA6 (bus depot)	Covering of cement storage area was not adequate.	CHEC has allocated site staff to rectify the situation.

	Item	Findings	Proposed Mitigation Measures	Environmental Outcome
Ī	7	P1-SA8 (H9S); dust	As informed by CHEC that	CHEC is arranging to block
	(Obs)	being brought on to the	since the site is no longer being	and close the exit.
		adjacent public road (no	used the exit should be closed.	
		wheel washing facility).		

No site inspection was conducted by EPD during the reporting month.

Environmental Licensing and Permitting

Environmental permits/registration/licenses granted to the Project for the entire period of the Contract include Environmental Permit (EP-085/2000C) and Chemical Waste Producer Registration. Other valid permits and licenses during the reporting period include 1 no. Waste Water Discharge License and 8 no. Construction Noise Permits.

Complaint Log

No environmental complaint was received during the reporting period.

There were a total of 6 complaints received for the Route 9 Phase 1 Ngong Shuen Chau Viaduct contract since the commencement of the construction. All 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. May to July 2003 are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
Bore piling, pre-drilling, sheet piling, pile cap/ pier	Air impact (dust and machine emission)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Regular maintenance of onsite machinery and vehicles.
construction and excavation.	Water quality impact (muddy run-off)	 Collecting and recycling of wastewater produced on-site if possible; Perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Diverting the collected effluent to de-silting facilities for treatment before discharge to public drains.
	Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary.

1. INTRODUCTION

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) for Route 9 between Tsing Yi and Cheung Sha Wan Phase 1 – Ngong Shuen Chau Viaduct" (hereinafter called the "Project").

1.1 Purpose of the Report

This is the 9th monthly EM&A report which presents the results and findings of all EM&A works for the Project between 29th March 2003 and 28th April 2003.

1.2 Structure of the Report

The structure of the report is as follows:

- Section 1: <u>INTRODUCTION</u> 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: IMPLEMENTATION STATUS ON ENVIRONMENTAL
 PROTECTION REQUIREMENTS 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: AUDIT RESULTS 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 29th March 2003 to 28th April 2003

Area	Details of Site Activities	
P1-SA6	Excavation, utility diversion, temporary drainage system, bore piling, pile cap and pier construction.	
P1-SA8	Bore piling and pile cap construction, road drainage construction.	
P1-SA9	Construction of Segment Storage Yard.	
P1-SA10	Storage and mobilization of equipment/material, chemical waste storage.	
P1-SA11	Bore piling, pile cap and column construction and utility diversion.	
P1-SA13 and 14	Formwork erection, pile cap and column construction.	
P1-SA15	Storage area and chemical waste storage.	

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 the Area P1-SA9 for logging wind speed and wind direction.

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), which was installed at the 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).

Certificate 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 $\pm 5\%$
- 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 aluminum 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

Daytime noise monitoring was conducted during the period of 07:00 to 19:00. Restricted hour noise monitoring was also conducted when there is construction works carried out. 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
*Evening (1900 to 2300)	5	L _{eq} , L ₉₀ & L ₁₀	Six times per week
*Night (2300 to 0700 next day)	5	L _{eq} , L ₉₀ & L ₁₀	Four times per week
*Holiday (0700-1900 on holidays)	5	L _{eq} , L ₉₀ & L ₁₀	Six times per week

^{*} Restricted hour noise monitoring: conduct noise monitoring only when there is construction work.

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* summarizes 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}, L₉₀ and L₁₀ 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 No.	Valid l	Period	Section	Status / Remarks
Description	refinit No.	From	To	Section	Status / Kemarks
Environmental	EP-	15/04/02	-	Whole work	Valid
Permit	085/2000C			site	
1Chemical	WPN –	15/04/02	-	Whole	Valid
Waste	5213-269-			construction	(for disposal of
Producer	C3215-01			site	empty fuel /
Registration					lubricant drums,
					scrap batteries,
					spent lubricating
					oil, diesel, mineral
					oil and solvent)
Waste Water	EP482/269/	15/04/02	30/06/07	Whole	Valid
Discharge	0038/I	(revised		construction	(carry out
License		on		site	analyses on a
		02/08/02)			quarterly basis)
Construction	GW-	21/11/02	20/05/03	Lin Cheung	Valid (Any day
Noise Permit	UE0458-02			Road near Lai	including general
				Wan	holiday between
				Interchange	2300h-0700h on
				(NB42, SB42,	the next days)
				G2 and H9N)	
Construction	PP-	21/12/02	30/04/03	Lai Po Road	Valid
Noise Permit	UE0112-02			off KMB	(Any day not
				Depot	being a general
					holiday from
		0.0 /0.1 /0.5	0.010=10.5		0700h-1900h)
Construction	PP-	09/01/03	08/07/03	Hing Wai St.	Valid
Noise Permit	UE0113-02			West off Kln.	(Any day not
				Refuse	being a general
					holiday from
					0800h-0930h;
					1230h-1400h;

Description	Permit No.	Valid 1	Period	Section	Status / Remarks
Description	refinit No.	From	To	Section	Status / Kemarks
					1700h-1900h)
Construction	PP-	09/01/03	08/07/03	Construction	Valid
Noise Permit	UE0114-02			Site below	(Any day not
				West Kln	being a general
				Highway near	holiday from
				Hing Wah St.	0700h-1900h)
				West	
Construction	GW-	17/03/03	10/09/03	Hing Wah St.	Valid
Noise Permit	UE0056-03			West between	(Any day from
				Container Port	0700h - 2300h)
				Road South	
				Roundabout	
Construction	GW-	17/03/03	10/09/03	Hing Wah St.	Valid
Noise Permit	UE0057-03			West near Hop	(Any day from
				Hing Shipyard,	0700h - 2300h)
		1 = 10 = 10 =	10/00/05	Kln	
Construction	GW-	17/03/03	10/09/03	West Kln	Valid
Noise Permit	UE0061-03			Highway near	(Any day from
				Hing Wah St.	0700h - 2300h)
	CYYY	0.1.10.0.10.0	20/00/02	West	** 1: 1
Construction	GW-	21/03/03	20/09/03	Lai Wan	Valid
Noise Permit	UE0082-03			Interchange	(Any day from
				near West Kln	0700h - 2300h)
				Highway &	
				Lai Po Road	

6. MONITORING RESULTS

6.1 Air Quality

1-hour TSP

1-hour TSP monitoring was carried out at 2 monitoring stations between 29^{th} March 2003 and 28^{th} April 2003. All monitoring data are presented in *Appendix J*. A summary of the measured 1-hour TSP levels is given in *Table 6.1*. Graphical presentations of the 1-hour TSP monitoring results for the reporting month and the trend of 1-hour TSP results since the commencement of the Project are shown in *Appendix K*.

Table 6.1 Summary of 1-hour TSP Impact Monitoring Results

Location	1-hour TS	$SP (\mu g/m^3)$	Action Level	Limit Level	
I.D.	Mean	Range	$(\mu g/m^3)$	$(\mu g/m^3)$	
ASR1	200.5	(54.7-294.8)	318	500	
ASR2	222.9	(129.1-314.3)	318	500	

24-hour TSP

24-hour TSP monitoring was carried out at 2 monitoring stations between 29^{th} March 2003 and 28^{th} April 2003. All monitoring data are presented in *Appendix J*. A summary of the measured results is given in *Table 6.2*. Graphical presentation of the results and the trend since the commencement of the Project are shown in *Appendix K*.

No exceedance of the Action/Limit Levels of 24-hour TSP was recorded during the reporting period.

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/m ³)	$(\mu g/m^3)$	
ASR1	95.6	(62.4-115.3)	163	260	
ASR2	91.6	(49.2-98.2)	178	260	

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

Observations

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

- site clearance;
- excavation;
- grouting;
- demolition site clearance;
- other construction activities nearby; and
- on site traffic.

6.2 Noise

Normal Hour Monitoring

Daytime noise monitoring was carried out at all the noise monitoring stations between 29th March 2003 and 28th April 2003. 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 M1*. 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 N1*.

No exceedance of the Action/Limit Levels of noise for normal hour monitoring was recorded during the reporting period.

Table 6.3 S	Summarv of	Corrected 1	Impact Noi	se Levels	for	Normal	Hour	Monitoring
-------------	------------	-------------	------------	-----------	-----	--------	------	------------

Daytime 0700-1900 hrs on	Corrected Noise Level, dB(A) * Mean (Range)			
normal weekdays	Leq	L_{10}	L ₉₀	
NSR1	63.0	64.6	60.8	
	(62.2-63.6)	(63.7-65.7)	(59.5-61.8)	
NSR2	74.3	77.2	67.3	
	(71.9-74.9)	(74.2-78.5)	(65.0-68.7)	

^{*} A 3dB (A) façade correction was made to the Free-field measurements.

Observations

The major noise sources during the normal hour in this reporting period were dominated by the following activities:

- bored piling;
- sheet piling;
- excavation;
- demolition/site clearance:
- on site traffic noise; and
- other construction works nearby.

Restricted Hour Monitoring

Construction works were carried out at site areas P1-SA6, 8, 9, 11, 13 and 14 during restricted hours. Since the monitoring location, NSR2, is quite some distance away from the con-current construction area, therefore, it was decided that the noise measurement for restricted hour monitoring will only be conducted at the closest noise monitoring location, NSR 1. A 3 dB(A) façade correction was made to the free field measurement at the monitoring locations. All corrected noise levels are presented in *Appendix M2*. A summary of the results is given in *Table 6.4*. Graphical presentation of the monitoring results for the reporting month is shown in *Appendix N2*.

Noise monitoring was carried out at NSR1 during evening-time (i.e. 1900 to 2300 hours on normal weekdays) and public holiday (i.e. 0700 to 1900 hours on holidays) when construction works were carried out. All measured levels were below the Action and Limit (AL) Levels.

Table 6.4 Summary of Corrected Impact Noise Levels for Restricted Hour Monitoring

Time Period	Corrected Noise Level, dB(A), recorded at NSR1* Mean (Range)				
	Leq	L_{10}	L ₉₀		
Evening-time (1900h-2300h)	60.6 (58.5-64.7)	61.9 (60.1-63.9)	58.0 (56.1-59.6)		
Night-time (2300h-0700h of next day)	N/A	N/A	N/A		
Holiday (0700h-1900h on holiday)	62.7 (58.8-67.1)	64.8 (60.7-68.4)	59.1 (56.3-61.5)		

^{*} A 3dB (A) façade correction was made to the Free-field measurements.

Observations

The type of construction works and number of power plants in operation had been inspected during the monitoring which was fully complied with the CNP requirement.

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 4 sets of daytime noise monitoring (i.e. 0700 to 1900 from Monday to Saturday) were carried out each at NSR 1 and NSR 2 during the reporting period and all measurement results were below the Limit Level.

A total of 4 sets of 6 x $L_{eq}(5min)$ measurement during evening-time (i.e. 1900 to 2300 hours on normal weekdays) were carried out at the closest noise monitoring location, NSR 1. All measured levels were below the Action and Limit (AL) Levels.

A total of 3 sets of 6 x $L_{eq}(5min)$ measurement during public holiday (i.e. 0700-1900 hours during public holiday) were carried out at the closest noise monitoring location, NSR1. All measured levels were below the AL Levels.

7.3 Water Quality

Although no comprehensive water quality monitoring is required under the EM&A Manual, in according with the effluent discharge license obtained by CHEC, water sampling at designated discharge points shall be carried out on a quarterly basis. The next discharge sampling is scheduled for May 2003.

7.4 Waste Management

Wastes generated from this Project included construction and demolition (C&D) materials, excavated materials, chemical waste and general refuse. CHEC's handling and disposal of these waste should strictly follow the recommended procedures stipulated in the Waste Management Plan (WMP) which has been approved by EPD.

Since 1st March 2003, all the inert C&D material including Bentonite Slurry from the Contract shall be disposed of at Kai Tak Public Fill Baring Point. The Contractor was reminded that all the inert C&D materials delivered to the Kai Tak PFBP shall contain no free water and the water/liquid content shall not exceed 70% by weight.

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 Waste Disposal during the Reporting Period

Material 7	Гуре	Quantity Produced in Apr 03	Handling Method	Handling Quantities in Apr 03	Temporary Storage Locations On-site (if applicable)
C&D materials	(Public Fill)	466. of Dump Trucks	Deliver to Public Fill Area (Tuen Mun Area 38)	0 no. of Dump Trucks	N/A
			Deliver to Public Fill Barging Point Kai Tak	466no. of Dump Trucks	N/A
			Reuse on site for filling	N/A	N/A
	(C&D	220 kg	To be recycled (paper)	220 kg	P1-SA9
	Waste)	N/A	To be recycled (aluminum can)	N/A	P1-SA9
		N/A	To be reused	N/A	P1-SA15
		N/A	To be returned to supplier	N/A	N/A
		75.39 tonnes	Collected by licensed collector for disposal	tonnes	Works area
Chemical	waste	1000 Litres	Collected by licensed chemical waste collector	1000 Litres	Chemical Waste Storage Area in P1- SA10 and P1- SA15

7.5 Site Inspection by Environmental Team (ET)

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

- AS informed by CHEC, perimeter drainage were being constructed throughout the month and were all completed by the end of the month, except for P1-SA8 (H7, H8 area). Some u-channels required cleaning and connections to the storm water drains need to be unblocked before using. However, it is uncertain whether the completed temporary drainage system provided has adequate capacity to cope with run-off during a heavy rain storm. It was suggested to CHEC that debris and mud should be removed from all u-channels and all connections to the storm water drain should be unblocked. Also, it was suggested that a test on the adequacy of the temporary drainage system should be carried out to demonstrate that they are capable to handle large volume of run-off during rain storm and perimeter drainage to be installed for the remaining site. CHEC has subsequently cleaned out the u-channels and is considering carrying out testing.
- Inadequate watering of all sites was observed throughout the month. It was suggested

to CHEC that frequency of watering needs to be increased and/or more sprinklers should be used. More sprinklers have subsequently been employed but still not enough to cover the entire site area.

- Oil spillages can be seen adjacent to chemical storage areas and various PMEs throughout the site. It was suggested to CHEC that extra care is required when handling oil to avoid spillage and contaminated soil must be cleaned up and disposed of in accordance with relevant regulations. Only some contaminated areas have subsequently been cleaned up but spillages are continued to be seen.
- Wheel washing facilities were not provided at P1-SA8 (Lin Cheung Road and H9S). It was suggested that wheel washing facilities should be installed as soon as possible or close the exits. CHEC proposed to block the site exit at H9S but not yet done. A water hose was provided at the Lin Cheung Road site as a temporary measure (works at Lin Cheung Road is scheduled to finished by mid May)
- General refuse was found scattered at various locations throughout the site areas occasionally. General refuse and litter should be temporary stored in lidded bins on-site and removed from site regularly. General refuse/rubbish was cleared by CHEC regularly and additional rubbish bins are being arranged.
- Inadequate covering for stockpiles was seen throughout the site and in particular in P1-SA6. It was suggested to CHEC that stockpiles must be covered adequately by tarpaulin sheets to prevent dust emission. Tarpaulin sheets were being arranged by CHEC to cover all stockpiles.

7.6 Site Inspection by Independent Environmental Checker (IEC)

IEC Audit was carried out on 25^{th} April 2003. A total of 1 non-compliance and 7 observations were raised by IEC and they are as follows:

Non-Compliance

Although the majority of the perimeter drainage system has been installed, they were not
yet in operation and therefore last month's non-compliance is still outstanding.
Perimeter drainage system should be completed as soon as possible with adequate
sedimentation facilities prior to discharge. CHEC has been reminded on numerous
occasions.

Observations

- Dusty ground conditions were observed at P1-SA10, P1-SA15 and P1-SA6. Watering frequency should be increased and/or employ more sprinklers. More sprinklers have subsequently been employed on site.
- Oil stain on the ground was observed at P1-SA15. Contaminated soil must be removed and disposed of in accordance with the relevant regulations.
- Untreated surface run-off was seen being discharged into storm water drains at P1-SA6

and the roundabout (NB33). All surface run-offs must be treated prior to discharge.

- Stockpiles were not entirely covered at P1-SA6 (bus depot). All stockpiles must be covered to prevent dust emission.
- Rubbish was not properly contained and was scattered all over the site at P1-SA6 and Lin Cheung Road site. CHEC has subsequently removed rubbish from this concerned area and agreed that additional lidded bins to be provided.
- Inadequate covering was seen at the cement storage area at P1-SA6 (bus depot). Adequate covering must be provided to prevent dust emission.
- Dust being brought on to the adjacent public road at P1-SA8 (adjacent to H9S) (no wheel wash). CHEC informed that this site is temporary closed and therefore exit would be blocked and closed.

7.7 Site Inspection by Environmental Protection Department (EPD)

No EPD site inspection was conducted during the reporting period.

8. ENVIRONMENTAL NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND PROSECUTIONS

8.1 Summary of Environmental Non-Compliance

The environmental non-compliance recorded in this reporting period is summarized in *Table* 8.1.

Table 8.1 Summary of Non-Compliance between 29th March 2003 and 28th April 2003

Media/ Nature	No. of Exceedance		Action	Results of	Remarks
	Action Level	Limit Level	Taken	Action Taken	
Air Quality	0	0	-	-	-
Noise	0	0	-	-	-
Waste	0	0	-	-	-
Water Quality	0	0	-	-	-

8.2 Summary of Complaints

No environmental related complaint was received during the reporting period.

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 O1* and *O2* respectively.

Table 8.2 Summary of Total Complaint Received

Total No. of	No. of complaint received within reporting period	No. of Active	No. of Inactive/Closed
Complaint Received		Complaint	Complaint
6	0	0	6

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

- utilities diversion, detection and trial pit excavation;
- plant mobilization;
- pre-drilling and sheet piling;
- bored piling; and
- pile cap and pier construction.

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

Construction Dust

- frequent watering of haul road and unpaved areas;
- prohibition of any open burning on site;
- investigation of other dust sources near air sensitive receivers;
- regularly watering or covering of open areas and stockpiles with tarpaulin;
- hydroseeding or covering the inactive sandfill area with impervious sheeting if necessary;
- switching off vehicles and equipments while not in use; and
- regular maintenance of onsite machinery and vehicles.

Construction Noise

- identification of noise sources arising within and outside worksite; and
- follow-up of any exceedance caused by the construction works.

Construction Runoff

- identification of sources of run-off from site;
- provision of sandbags/bunds/channels to direct run-off to silt/sand removal facilities;
- avoidance of direct discharge of wastewater into storm water drainage; and
- provision of treatment of wastewater and run-off prior to discharge.

Construction Waste Management

- avoidance of accumulation of construction waste materials and/or general refuse on site;
- segregation of waste;
- collection of chemical waste or oil and disposal of as chemical waste in accordance with the relevant regulations; and
- regularly removing of waste materials on site.

9.2 Monitoring Schedule for the Coming Three Months

The tentative schedules for dust and noise monitoring from 29th April 2003 to 28th May 2003 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 March 2003 to 28th April 2003 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 during normal hour and at NSR 1 during restricted hour. All the results were well below the Limit Level.

No water quality monitoring was carried out during the reporting month and the next water quality sampling in accordance with the effluent discharge license is scheduled for May 2003.

No complaint was received during the reporting period. In total, 6 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 **Section 7.5**, **7.6** and **7.7** 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 exposed areas should be watered regularly to ensure the soil surface is wet;
- dusty areas should be watered frequently during hot/dry weather; and
- stockpiles should be covered properly by tarpaulin.

Construction Noise

- the number of plant operating should not exceed the allowable plant number for each construction activity stated in the Construction Noise Permits;
- regular maintenance of machinery; and
- noisy equipment should be located away from nearby NSRs.

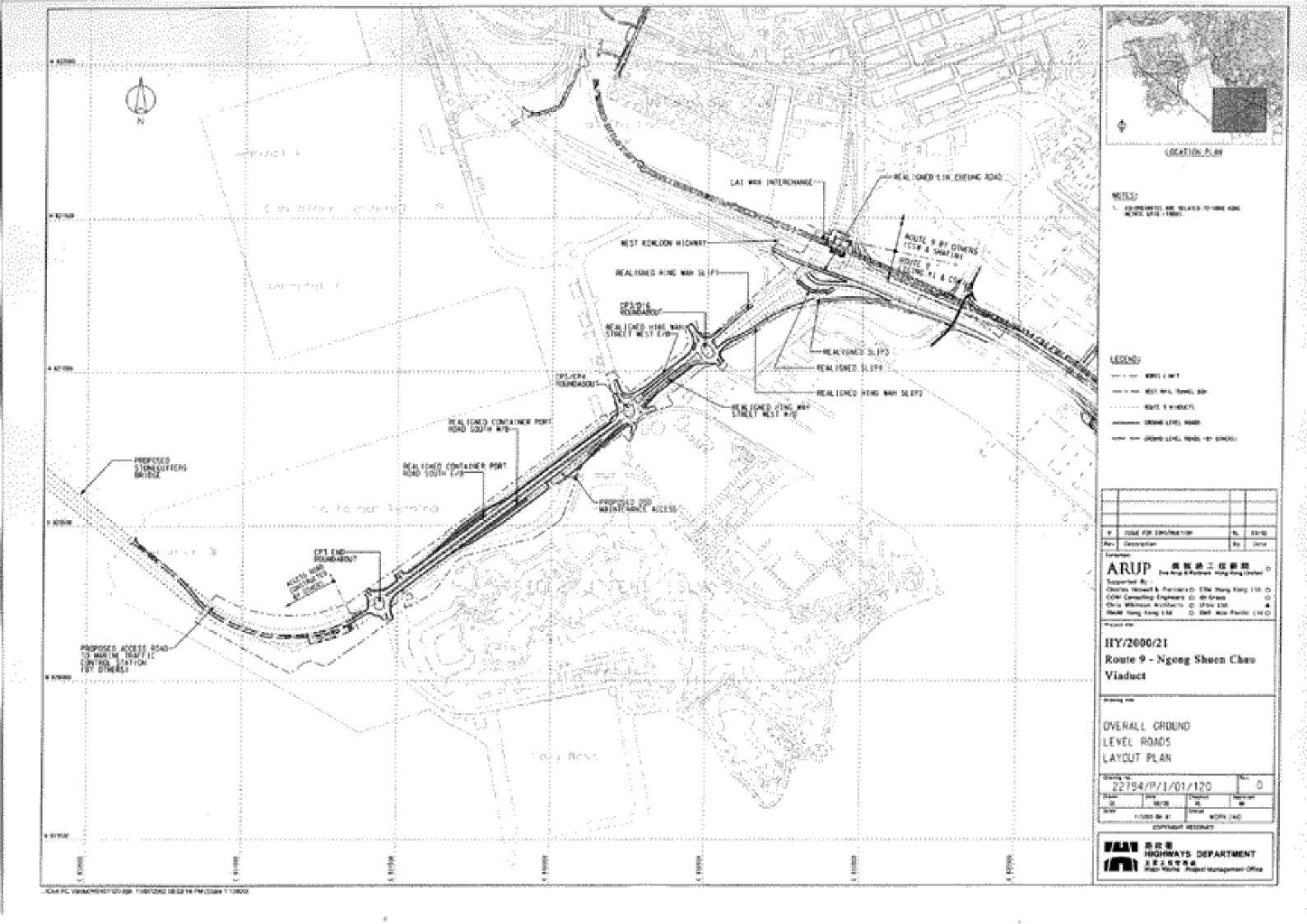
Water Quality

- all surface runoff/wastewater should be diverted to appropriate water treatment facility before discharged;
- sedimentation tanks/basins should have adequate capacity for settling surface runoff;
- wheel washing facilities should be installed at all worksite exit and used by all vehicles leaving the site;
- vehicle and plant servicing area, wheel washing bay should 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; and
- accumulation of water in drip tray at chemical/fuel storage area should be avoided.

Waste Management

- contaminated soil with oil or petrol should be collected and disposed of as chemical waste;
- all types of wastes should be collected by licensed waste collectors; and
- good housekeeping should be implemented.

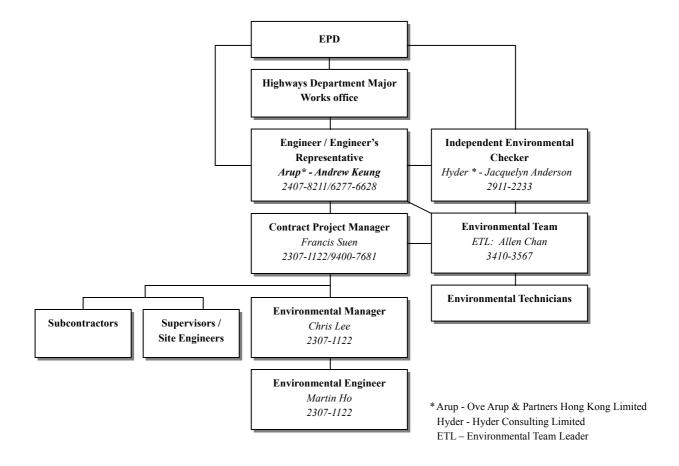
Appendix A Site Layout Plan



Appendix B

Project Organization Chart and Contact Details

Appendix B: Project Organization Chart and Contact Details



Appendix C

Project Work Programme

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CH7000	1130	G3: Formwork for footing			1	1	29/04/03	29/04/03		GS: Parmicia	rk for footing	
СН7000		G3: Concreting			1	1	30,04,03	30,0103	-	GE: Canare	ing	
CH7000		G3: Formwork for retaining wall			1	1	020503	020503	1		ork for refaini	no wall
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BRIDGE G2: PI	ER G12S							
G2: Portal Be	tween Columns G12N & G12S						3	
CH349517B	G 12NS: Erectworking platform & support brackets	0	, š	4	230403	25/04/03	1	🗖 012 NB: Great working platform & suppor
CH3495180	G 12NS: Erectsoffft formwork		5	5	28/04/03	030503		EG 012 kB: Ereat sofft farmwork
CH349519B	G 12S: Erect Side Panel	0	5	5	050503	09/05/03		G128: BreatBide Panel
C H3495200	G 12S: Reinforcement fixing	0	5	5	10.05.03	15,05,03		G128 Reinforcement 1 sing
CH3495210	G12S: Concreting	0	,1	1	16.05.03	16,05,03		[] G128: Concreting
CH3496220	G 12S: Remoue Side Panel & Cure portal section	0	14	14	17,05,03	30.05.03		G128: Remove Bide Pane
C H3496230	G 12S: Remoue a apport beam & normworks	0	3	3	31/05/03	03/06/03		☐ O128: Remove cupport
BRIDGE G2: PI	ER G13N				W)	E ²		
G2: Pier G13N							4	
CH3620190	G 13N PILE CAP: Remove the sheet Piles		2	2	21/04/03	22/04/03	1	OISH FILE CAP: Remove the cheet File c
BRIDGE G2: PI	V83153V313							
PRODUCTION OF THE PROPERTY OF								
Сн3560170	tween Columns G13N & G13S			-	050603	09/06/03	3	5 048; 54-tundun -
CH3660180	G 13: Erectworking platform & support brackets G 13: Erect sofft formwork		5	5		140603	048	G18: Breatworking pi reat contitumwork
CH3660190	G 13: Erect Side Panel		5	5		20.06.03	Ola.	O12: Breat Bide Panel
CH3660200	G 13: Relatorcement fitting		5		21/06/03	260603	 	12: Reinforgement 1 sing
CH360210	G13: Concreting		1	,	27/06/03	27/06/03	 	G12: Concreting ()
CH3660220	G 13: Remote Side Panel & Cure portal Section		14	14	28/06/03	11/07/03	+	G12: R
CH3660230	G13: Remoue support beam & formworks	+ ;	3		1207.03	15/07/03	012: 6	move apportbeam & formworks
46 AG		- N N		8	1201100	(S	,- 1-1,1	
CUNSTRUCT B	RIDGE G1 - STAGE 2 WORKS							
	ER G4N (04/176)		A					
BRIDGE G1: PI G1: Pier G4N	ER G4N (04/176) Bored Piling		á.		40004			
BRIDGE G1: PI	ER G4N (04/176)		1	1	21/04/03	21/04/03		C+A: Bonio test
BRIDGE G1: PI G1: Pier G4N	ER G4N (04/176) Bored Piling G4N: Soulchest		1	1	21/04/03	21/04/03		C4)4: Bania 1e ct
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100	ER G4N (04/176) Bored Piling G4N:Solic test Pile Cap G4N PILECAP:Steet Pile druing		14	14	15.05.03	31/05/03		G4M PILECAP: Bheet PI
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N	ER G4N (04/176) Bored Piling G4N: Soilc test Pile Cap			14				
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100	ER G4N (04/176) Bored Piling G4N:Solic test Pile Cap G4N PILECAP:Steet Pile druing		14	14	15.05.03	31/05/03		G4M PILECAP: Bheet PI
BRIDGE 61: PI 61: Pier 64N CH3085180 61: Pier 64N CH3080100 CH3080110 CH3080120 CH3080130	ER G4N (04M76) Bored Piling G4N:Sonic test Pile Cap G4N PILECAP: Steet Pile driving G4N PILECAP: Excausite & shoring support	0	16	14 3 5	15.05.03 02.05.03 05.05.03 11.05.03	31,05,03 05,05,03 11,05,03 11,05,03		G4M PILE CAP: Sheet PI
BRIDGE 61: PI 61: Pier G4N CH3085180 61: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140	ER G4N (04M76) Bored Piling G4N: Souto test Pile Cap G4N PILECAP: Sheet Pile druing G4N PILECAP: Excauste & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Formwork erection		14 3 5	14 3 5	15.05.03 02.05.03 05.05.03 11.05.03	31,05,03 05,05,03 11,05,03 11,05,03		G4M FILECAP: Sheet FILE GAM FILECAP: Expand G4M FILECAP: Cut G4M FILECAP: Lay G4M FILECAP: For
G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080150	ER GAN (04/176) Bored Piling GAN: Souto test Pile Cap GAN PILECAP: Sheet Pile druing GAN PILECAP: Excuste & shoring support GAN PILECAP: Cut Pile head GAN PILECAP: Layblinding tayer GAN PILECAP: Formwork erection GAN PILECAP: Reinforcement fixing		16	14 3 5	150503 020503 050503 110503 120503 120503	31,05,03 05,05,03 11,05,03 11,05,03 12,05,03 14,05,03		G4M PILECAP: Sheet PILECAP: Eroav G4M PILECAP: Eroav G4M PILECAP: Cut I G4M PILECAP: Ro G4M PILECAP: Ro
BRIDGE 61: PI 61: Pier G4N CH3085180 61: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080150 CH3080160	ER GAN (04/176) Bored Piling G4N: Souto test Pile Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excustle & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Layblinding tayer G4N PILECAP: Formwork erection G4N PILECAP: Reinforcement fixing G4N PILECAP: Final Fix FiworkClean & Concrete		14 3 5 1 1 3	16 3 5 1 1 3	150503 020603 050503 110603 120603 120603	31,05,03 05,06,03 11,06,03 11,06,03 12,06,03 14,06,03 16,06,03		G4M PILECAP: Sheet PILECAP: Eroav G4M PILECAP: Cut G4M PILECAP: Lay G4M PILECAP: Ro G4M PILECAP: Ro G4M PILECAP: Ro
BRIDGE 61: PI 61: Pier G4N CH3085180 61: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080150 CH3080160 CH3080160	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Laybilliding layer G4N PILECAP: Formwork erection G4N PILECAP: Reinstreement fixing G4N PILECAP: Final Fix F'workClean & Concrete G4N PILECAP: Remove Formwork & Waterproof		14 3 5 1 1 3 1	14 3 5 1 1 3 1 2	150503 020503 050503 110503 120503 120503 150503 17,0503	31,05,03 05,06,03 11,06,03 11,06,03 12,06,03 14,06,03 18,06,03		G4M PILECAP: Sheet PILECAP: Erosu G4M PILECAP: Cut G4M PILECAP: Lay G4M PILECAP: Ro G4M PILECAP: Ro G4M PILECAP: Ro G4M PILECAP: Ro
BRIDGE 61: PI 61: Pier G4N CH3085180 61: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080150 CH3080160 CH3080170 CH3080180	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excusate & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Laybilliding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Final Fix F'work/Clean & Concrete G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove Formwork & Waterproof		14 3 5 1 1 3 1 2	14 3 3 5 1 1 3 1 2 2	150503 020503 050503 110503 120503 120503 150503 17,0503 190503	31,05,03 05,06,03 11,06,03 11,06,03 12,06,03 14,06,03 16,06,03 18,06,03 20,06,03		G4M PILECAP: Sheet PILECAP: G4M
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080150 CH3080160 CH3080160 CH3080170	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Formwork erection G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Water proof G4N PILECAP: Remove formwork & Water proof G4N PILECAP: Remove the sheet Piles		14 3 5 1 1 3 1 2	14 3 3 5 1 1 3 1 2 2	150503 020503 050503 110503 120503 120503 150503 17,0503	31,05,03 05,06,03 11,06,03 11,06,03 12,06,03 14,06,03 18,06,03		G4M PILECAP: Sheet PILECAP: Erosu G4M PILECAP: Cut G4M PILECAP: Lay G4M PILECAP: Ro G4M PILECAP: Ro G4M PILECAP: Ro G4M PILECAP: Ro
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080150 CH3080160 CH3080170 CH3080180 CH3080180 CH3080180 CH3080180	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excusate & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Laybilliding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Final Fix F'work/Clean & Concrete G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove Formwork & Waterproof		14 3 5 1 1 3 1 2	14 3 3 5 1 1 3 1 2 2	150503 020503 050503 110503 120503 120503 150503 17,0503 190503	31,05,03 05,06,03 11,06,03 11,06,03 12,06,03 14,06,03 16,06,03 18,06,03 20,06,03		G4M PILECAP: Sheet PILECAP: G4M
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080150 CH3080160 CH3080170 CH3080180 CH3080180	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles		14 3 5 1 1 1 2 2 2	14 3 5 1 1 1 3 1 2 2 2	150503 020503 050503 110503 120503 120503 150503 17,0503 190503	31,05,03 05,06,03 11,06,03 11,06,03 12,06,03 14,06,03 16,06,03 18,06,03 20,06,03		G4N PLECAP: Sheet PI G4N PLECAP: Ecosy G4N PLECAP: Cut G4N PLECAP: Ro G4N PLECAP: R
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080150 CH3080160 CH3080170 CH3080180 CH3080180 CH3080180 CH3080180	ER G4N (04M76) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excuste & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove formwork & Water proof G4N PILECAP: Remove formwork & Water proof G4N PILECAP: Remove the sheet Piles Column (Type C4)		14 3 5 1 1 1 2 2 2 2 2 5 5	14 3 5 1 1 1 2 2 2	150503 020503 050503 110503 120503 120503 160503 17,0503 190503	31,05,03 05,06,03 11,05,03 11,05,03 12,05,03 14,05,03 16,05,03 18,05,03 23,05,03		G4M PILECAP: Sheet PILECAP: Cot G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Roman G4M: 2nd Column Lift G4M: 2nd Column Lif
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080150 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3080180	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excuste & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift		14 3 5 1 1 1 2 2 2	14 3 3 5 1 1 1 1 2 2 2 2 2 5 5 5	150503 020503 050503 110503 120503 120503 150503 17,0503 190503 21,0503	31,05,03 05,06,03 11,05,03 11,05,03 12,05,03 14,05,03 16,05,03 23,05,03 23,05,03		G4N PLECAP: Sheet PI G4N PLECAP: Ecosy G4N PLECAP: Cut G4N PLECAP: Ro G4N PLECAP: R
BRIDGE G1: PI G1: Pier G4N CH3086180 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080160 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3080180 CH3080180 CH3086100 CH3086100	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excusse & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Fixal Fix F'work/Clean & Concrete G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 2st Column Lift		14 3 5 1 1 1 2 2 2 2 2 5 5	14 33 55 11 11 33 11 22 22 22 25 55 55	150503 020503 050503 110503 120503 120503 160503 17,0503 190503 21,0503 24,0503 300503	31,05,03 05,06,03 11,05,03 11,05,03 12,05,03 14,05,03 15,05,03 23,05,03 23,05,03 23,05,03 05,07,03		G4M PILECAP: Sheet PILECAP: Cot G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Roman G4M: 2nd Column Lift G4M: 2nd Column Lif
BRIDGE G1: PI G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080110 CH3080130 CH3080140 CH3080150 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3080180 CH3086100 CH3086100 CH30861100 CH30861100 CH3086120	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excase & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Formwork erection G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5	14 3 5 5 1 1 1 1 2 2 2 2 2 2 5 5 5 5 5 5	150503 020503 050503 110503 120503 120503 150503 17,0503 150503 21,0503 24,0503 300503 07,07,03	31,05,03 05,06,03 11,05,03 11,05,03 12,05,03 16,05,03 15,05,03 23,05,03 23,05,03 25,05,03 15,07,03 11,07,03		G4M PILECAP: Sheet PILECAP: Eloav G4M PILECAP: Eloav G4M PILECAP: Cut G4M PILECAP: Ro G4M PILECAP: R G4M PI
BRIDGE G1: P G1: Pier G4N CH3085130 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080140 CH3080160 CH3080160 CH3080170 CH3080180 CH3080180 CH3080180 CH3086120 CH3086120 CH3086120 CH3086122 CH3086122	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sweet Pile driving G4N PILECAP: Excase & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5	14 3 5 5 1 1 1 1 2 2 2 2 2 2 5 5 5 5 5 5	150503 020603 050603 110603 120603 120603 160503 17,0503 21,0603 21,0603 24,0603 07,07,03 1207,03	31/05/03 05/06/03 11/05/03 11/05/03 12/05/03 15/05/03 15/05/03 23/05/03 23/05/03 23/05/03 11/07/03 11/07/03		G4M PILECAP: Sheet PILECAP: CAMPILECAP: Espaid G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Par G4M: 1ctColumn Lift G1 G4M: 2rd Column Lift G1 G4M: 2rd Column Lift G1 G4M: 2rd Column Lift G1
BRIDGE G1: PI G1: Pier G4N CH3080100 G1: Pier G4N CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080160 CH3080160 CH3080160 CH3080180 CH3086180 CH3086120 CH3086125 CH3086125 BRIDGE G1: PI	Bored Pilling G4N: Souto test Pille Cap G4N Pille CAP: Sheet Pile driving G4N Pille CAP: Cat Pile head G4N Pille CAP: Formwork erection G4N Pille CAP: Reinforcement fixing G4N Pille CAP: Reinforcement fixing G4N Pille CAP: Remove Formwork 2 Waterproof G4N Pille CAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5	14 3 5 5 1 1 1 1 2 2 2 2 2 2 5 5 5 5 5 5	150503 020603 050603 110603 120603 120603 160503 17,0503 21,0603 21,0603 24,0603 07,07,03 1207,03	31/05/03 05/06/03 11/05/03 11/05/03 12/05/03 15/05/03 15/05/03 23/05/03 23/05/03 23/05/03 11/07/03 11/07/03		G4M PILECAP: Sheet PILECAP: CAMPILECAP: Espaid G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Par G4M: 1ctColumn Lift G1 G4M: 2rd Column Lift G1 G4M: 2rd Column Lift G1 G4M: 2rd Column Lift G1
BRIDGE G1: PI G1: Pier G4N CH3085130 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080140 CH3080150 CH3086150 CH3086125 CH3086125 BRIDGE G1: PI	Bored Pilling G4N: Souto test Pille Cap G4N: Souto test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Sheet Pile driving G4N PILECAP: Excausite & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Watterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 2sd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 4th Column Lift G4N: 4th Column Lift G4N: 4th Column Lift		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5	14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5	150503 020603 050603 110603 120603 120603 160503 17,0503 21,0603 21,0603 24,0603 07,07,03 1207,03	31/05/03 05/06/03 11/05/03 11/05/03 12/05/03 15/05/03 15/05/03 23/05/03 23/05/03 23/05/03 11/07/03 11/07/03	In ctall Ki	G4M PILECAP: Sheet PILECAP: CAMPILECAP: Espaid G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Par G4M: 1ctColumn Lift G1 G4M: 2rd Column Lift G1 G4M: 2rd Column Lift G1 G4M: 2rd Column Lift G1
BRIDGE G1: PI G1: Pier G4N CH3085130 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080140 CH3080150 CH3086125 CH3086125 BRIDGE G1: PI G1: Pier G4S	Bored Pilling G4N: Soulo test Pille Cap G4N: Soulo test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excausite & shoring support G4N PILECAP: Cut Pile head G4N PILECAP: Layblinding tayer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Water proof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 4th Column Lift G4N: 4th Column Lift ER G4S & PORTAL G4 (04/178) Utilities & Services Diversions Install KHIII-312R (year G4N/S)		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5	14 3 5 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5	15:05:03 02:05:03 05:05:03 11:05:03 12:05:03 12:05:03 15:05:03 17:05:03 19:05:03 21:05:03 21:05:03 30:05:03 07:07:03 12:07:03 12:07:03	31,05,03 05,06,03 11,06,03 12,06,03 14,06,03 16,06,03 20,06,03 23,06,03 23,06,03 11,07,03 11,07,03 23,07,03	-	G4M PILECAP: Sheet PILECAP: G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Ren G4M: G4M PILECAP G4M: G4M PILECAP: Ren G4M PILECAP: Re
BRIDGE G1: PI G1: Pier G4N CH3086180 G1: Pier G4N CH3080100 CH3080110 CH3080130 CH3080140 CH3080140 CH3080160 CH3080160 CH3080160 CH3080160 CH3080160 CH3080180 CH3080180 CH3086120 CH3086125 CH3086125 CH3086125 CH3086125 BRIDGE G1: PIER G4S CHHIGH170 CHHIGH180	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 4th Column Lift ER G4S & PORTAL G4 (04/176) Utilities & Services Diversions Install KHW-312 at Bridge G (lear G4N/S) Remove KHW-312 at Bridge G (lear G4N/S)		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5	14 3 5 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5	15:05:03 02:05:03 05:05:03 11:05:03 12:05:03 12:05:03 15:05:03 17:05:03 19:05:03 21:05:03 21:05:03 12:07:03 12:07:03 12:07:03	31,05,03 05,06,03 11,06,03 12,06,03 14,05,03 16,06,03 20,06,03 23,06,03 23,06,03 11,07,03 11,07,03 17,07,03 23,07,03	-	G4M PILECAP: Sheet PILECAP: G4M PILECAP: Cot G4M PILECAP: Cot G4M PILECAP: Re G4M: Cot
BRIDGE G1: PI G1: Pier G4N CH3080100 CH3080100 CH3080110 CH3080120 CH3080130 CH3080140 CH3080180 CH3086180 CH3086180 CH3086180 CH3086180 CH3086180 CH3086181 CH3086182 CH3086188 BRIDGE G1: PI G1: Pier G4S CHHIGH170	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Remove rection G4N PILECAP: Relationsement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 3rd Column Lift G4N: 3r		14 3 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5	14 3 5 1 1 2 2 2 2 5 5 5 5 5 5	15:05:03 02:05:03 05:05:03 11:05:03 12:05:03 12:05:03 15:05:03 17:05:03 19:05:03 21:05:03 21:05:03 12:07:03 12:07:03 12:07:03	31,05,03 05,06,03 11,06,03 12,06,03 14,05,03 16,06,03 20,06,03 23,06,03 23,06,03 11,07,03 11,07,03 17,07,03 23,07,03	-	G4M PILECAP: Sheet PILE GAP: Eroav G4M PILECAP: Cut G4M PILECAP: Gut G4M PILECAP: Ro G4
BRIDGE G1: PI G1: Pier G4N CH3080180 G1: Pier G4N CH3080100 CH3080110 CH3080110 CH3080140 CH3080140 CH3080160 CH3080160 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3086120 CH3086125 BRIDGE G1: PIER G4S CH10GH170 CH10GH180 G1: Pier G4S CH10GH180 G1: Pier G4S CH10GH180	ER GAN (04/176) Bored Pilling G4N: Sould test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding layer G4N PILECAP: Remove rection G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4N: 5th Co		14 3 5 1 1 1 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5	14 3 5 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5	15:05:03 02:05:03 12:05:03 11:05:03 12:05:03 12:05:03 15:05:03 17:05:03 12:05:03 24:05:03 24:05:03 12:07:03 12:07:03 12:07:03 13:07:03 11:05:03 11:05:03	31,05,03 05,06,03 11,06,03 12,06,03 14,06,03 16,06,03 23,06,03 23,06,03 23,06,03 11,07,03 11,07,03 11,07,03 11,07,03	-	G4M PILECAP: Bheet PILECAP: G100 PILECAP: G1
BRIDGE G1: P G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080110 CH3080140 CH3080140 CH3080150 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3086120 CH3085120 CH3085120 CH3085125 BRIDGE G1: Pier G4S CHHIGH170 CHHIGH180 G1: Pier G4S CH3120100 CH3120110	ER GAN (04/176) Bored Pilling G4N: Solic test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding tayer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4S & PORTAL G4 (04/176) Utilities & Services Diversions Install KHIM-312R (lear G4N/S) Remove KHIM-312 at Bridge G (lear G4N/S) Pile Cap G4S PILECAP: Sheet Pile driving G4S PILECAP: Sheet Pile driving G4S PILECAP: Excausite & shoring support		14 3 5 1 1 1 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5	14 3 5 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5	150503 020503 120503 110503 120503 120503 120503 150503 150503 240503 240503 120703 120703 130703 110503 110503 120703 120703 120703 120703	31,05,03 05,06,03 11,06,03 12,06,03 16,06,03 18,06,03 23,06,03 23,06,03 23,06,03 11,07,03 11,07,03 23,07,03 11,07,03 23,07,03 23,07,03	-	G4M PILECAP: Bheet PILECAP: G103 M PILECAP: G103 M PILECAP: G104 M PILECAP: G1
BRIDGE G1: P G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080110 CH3080140 CH3080140 CH3080140 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3086120 CH3085120 CH3085120 CH3085125 BRIDGE G1: P G1: Pier G4S CHHIGH170 CHHIGH180 G1: Pier G4S CH3120100 CH3120110 CH3120110	Bored Pilling G4N: Sould test Pille Cap G4N: Sould test Pille Cap G4N PILECAP: Sweet Pile driving G4N PILECAP: Sweet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Hayblinding tayer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sweet Piles Column (Type C4) G4N: 1st Column Lift G4N: 2nd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Li		14 3 5 1 1 1 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5	14 33 55 11 11 33 11 22 22 22 55 55 55 55 55 55 55 55 55 55	150503 020603 050603 110603 120603 120603 120603 160603 17,0503 21,0503 21,0503 07,07,03 12,07,03 12,07,03 12,07,03 11,07,03 11,07,03 17,07,03 17,07,03 21,04,03 22,04,03 23,04,03 23,04,03 23,04,03 23,04,03 23,04,03 25,04,03 25,04,03	31,05,03 05,06,03 11,06,03 12,06,03 14,06,03 16,06,03 23,06,03 23,06,03 23,06,03 11,07,03 11,07,03 23,07,03 11,07,03 23,07,03 23,07,03 23,07,03 23,07,03 23,07,03 23,07,03	-	G4M PILECAP: Sheet PILECAP: G4M PILECAP: Cut G4M PILECAP: Cut G4M PILECAP: Ro G4M: 1ctColumn Lift G4M: 2nd Column Lift G4M: 2nd Column Lift G4M: 2nd Column Lift G4M: 2nd Column Lift G4M: 4th Co
BRIDGE G1: P G1: Pier G4N CH3085180 G1: Pier G4N CH3080100 CH3080110 CH3080110 CH3080140 CH3080140 CH3080150 CH3080160 CH3080160 CH3080180 CH3080180 CH3080180 CH3086120 CH3085120 CH3085120 CH3085125 BRIDGE G1: Pier G4S CHHIGH170 CHHIGH180 G1: Pier G4S CH3120100 CH3120110	ER GAN (04/176) Bored Pilling G4N: Solic test Pille Cap G4N PILECAP: Sheet Pile driving G4N PILECAP: Excause & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding tayer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sheet Piles Column (Type C4) G4N: 1st Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 3rd Column Lift G4N: 4th Column Lift G4S & PORTAL G4 (04/176) Utilities & Services Diversions Install KHIM-312R (lear G4N/S) Remove KHIM-312 at Bridge G (lear G4N/S) Pile Cap G4S PILECAP: Sheet Pile driving G4S PILECAP: Sheet Pile driving G4S PILECAP: Excausite & shoring support		14 3 5 1 1 1 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5	14 33 55 11 11 33 11 22 22 22 55 55 55 55 55 55 55 55 55 55	150503 020503 120503 110503 120503 120503 120503 150503 150503 240503 240503 120703 120703 130703 110503 110503 120703 120703 120703 120703	31,05,03 05,06,03 11,06,03 12,06,03 16,06,03 18,06,03 23,06,03 23,06,03 23,06,03 11,07,03 11,07,03 23,07,03 11,07,03 23,07,03 23,07,03	-	G4M PILECAP: Bheet PILECAP: G103 M PILECAP: G103 M PILECAP: G104 M PILECAP: G1
BRIDGE G1: PI G1: Pier G4N CH3080100 CH3080100 CH3080110 CH3080110 CH3080140 CH3086100 CH3086100 CH3086100 CH3086120 CH3086125 BRIDGE G1: PI G1: Pier G4S CHHIGH170 CHHIGH180 G1: Pier G4S CH3120100 CH3120110 CH3120110 CH3120120 CH3120130	Bored Pilling G4N: Sould test Pille Cap G4N: Sould test Pille Cap G4N PILECAP: Sweet Pile druing G4N PILECAP: Excasate & shoring support G4N PILECAP: Cat Pile head G4N PILECAP: Layblinding tayer G4N PILECAP: Reinforcement fixing G4N PILECAP: Reinforcement fixing G4N PILECAP: Remove Formwork & Waterproof G4N PILECAP: Remove the sweet Piles Column (Type C4) G4N: 1st Column Lift G4N: 2nd Column Lift G4N: 3nd Column Lift G4N: 3nd Column Lift G4N: 3nd Column Lift G4N: 4th Column Lift G4N: 3nd		14 3 5 1 1 1 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5	14 3 5 5 1 1 1 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5	150503 020603 050603 110603 120603 120603 120603 160603 17,0503 21,0503 21,0503 07,07,03 12,07,03 12,07,03 12,07,03 17,07,03 17,07,03 17,07,03 21,0403 22,0403 23,0403 23,0403 23,0403 22,0503	31,05,03 05,06,03 11,06,03 11,05,03 12,05,03 16,05,03 18,05,03 23,05,03 23,05,03 11,07,03 11,07,03 23,07,03 11,07,03 23,07,03 11,07,03 23,07,03 24,07,03 25,07,	-	G4W FILECAP: Sheet FILE G4W FILECAP: Cut G4W FILECAP: Cut G4W FILECAP: Ro G4W: Column Lift G4

Activity	Activity	%	Orig	Rem	Early	Early	T or		03
ID	Description	1000	Dur	Dur	Start	Finish	M APR	569650 S0443156 9	<u> </u>
CH3120160	G4S PILECAP: Final Fit F'workClean & Concrete	0	1	1	07/05/03	07.05.03			CAP: Rnal Re Pos
CH3120170	G4S PILE CAP: Remove Formwork & Waterproof	0	2	2	08.05.03	09/05/03		[] G48 PIL	ECAP: Remove Par
CH3120180	G 4S PILE CAP: Backfill	0	2	2	10.05.03	120503		□ 048 PI	LE CAP: Baokfill
CH3120190	G4S PILE CAP: Remote the sheet Piles	0	2	2	13/05/03	140503		[] G48 F	ILE CAP: Remove t
G1: Pier G4S	Column (Type C4)	260		91		189	50		
CH3125100	G4S: 1stColumn Lift	0	5	5	15/05/03	21/05/03	7	EEE 04	8: 1ctCalumn Lift
CH3125110	G4S: 21d Column Lift	0	5	5	22/05/03	27,05,03			G48: 2nd Column Lit
CH3125120	G4S: 3rd Column Lift	0	5	5	28/05/03	020603			G48: Srd Column
CH3125121	G4S: 4th Column Lift	0	5	5	03/06/03	09/05/03			G48: 4th Colum
CH3125122	G4S:5th Column Lift	0	5	5	10.06.03	14.05.03		948 6th Column	unt 🖂
CH3125125	G4S:6th Column Lift	. 0	5	5	16.06.03	20.05.03		G48: 8th Colum	in Lift 🔲
RIDGE G1: PI	IER G5							1	
G1: Pier G5 B	Bored Piling						43	I	
C H3150130	G5: 2nd: Interface core test	100	1	0	15/04/03A	15/04/03A	1 ∎∛	6:2nd:Intertage	pare test
CH3150170	GS: 3rd Interface core test	100	.1	0	16/04/03A	16/04/03A	1.	6: Srd Intertace o	pre test
CH3150180	G5: Sould test	0	1	1	21/04/03	21/04/03		G6: Bania test	
G1: Pier G5 P	ile Cap				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
CH3155100	GS PILECAP: Sheet Pile Driving		2	2	220403	23/04/03	1	G PILECAP:	Sheet Pile Orlving
CH3155110	GS PILE CAP: Excause & Shorting Support	0	3	3	240403	26/04/03			Escavate & Bhoring
CH3155120	GS PILECAP: Cit Pile Head	0	5	5	28/04/03	03.05.03			AP: Cut Pile Head
CH3155130	GS PILECAP: Lay Billiding Layer	0	1	1	03/05/03	03.05.03		I 06 PILE C	AP: Lay Blinding Lay
CH3155140	GS PILE CAP: Formwork Erection	0	1	1	05/05/03	05.05.03		II,06 PILE 0	AP: Formwork Brea
CH3155150	GS PILE CAP: Reinforcement Fixing	0	3	.3	05/05/03	07/05/03		■ G6 PILE	CAP: Reinforcement
CH3155160	GS PILE CAP: Final fix Formwork/Clean & Concrete	0	,1	1	08.05/03	08.05.03		106 PILE	CAP: Rnal 11 Forms
CH315517B	GS PILE CAP: Remove Formwork & Bifum Inous Paint	0	2	2	09/05/03	10.05.03		0.06 PILE	CAP: Remove Form
CH3155180	GS PILE CAP: Backfill	0	2	2	120503	13.05.03		II G6 PIL	E CAP: Backfill
CH3155190	GS PILE CAP: Remove Sheet Piles	0	2	2	140503	15.05.03		B 06 PI	LECAP: Remove Bi
G1: Pier G5 C	Column (Type C6 solid)						63		
C H3160100	G5: 1stColumn Lift	0	5	5	16/05/03	22/05/03	7	06	1 ct Calumn Lift
CH3160110	G5: 21d Column Lift	0	5	5	23/05/03	28.05.03		_	36: 2nd Column Lift
CH3160120	GS: 3rd Column Lift	0	5	5	29/05/03	03/06/03			G6: Srd Column L
CH3160122	GS: 4th Column Lift	0	5	5	05/06/03	10.06.03			G6: 4th Column
CH3160125	G5:5th Column Lift	0	5	5	11/06/03	16/06/03			G6: 6th Calu
G1: Pier G5 C	Prosshead (Type H5)					96	V3		
CH3165100	GS: Erectworking platform & support brackets	0			17/06/03	20,05,03	1	l	■ C6: Breat
CH3165110	GS: Erectsofft formwork	0	5	5	21/06/03	260603		36: Breatcofftta	rmwork 🚃
C H 3165120	G5: ErectSide Panel	0	5	5	27/06/03	03/07/03		G6: Breatt	ide Panel 🚃
CH3165130	GS: Reinforcement fixing	0	5	5	0403/03	09/07/03		G6: Reinfor	oementising
CH316514D	G5: Concreting	0	1	1	10,07,03	10,07,03			G6: Concreting
CH3165150	GS: Remove Side Panel & Clure Cross head	0	3	7	11/07/03	17,07,03	Ģ6∶ Remi	ve Bide Panel &	Cure Croschead 📰
CH3165160	GS: Remove supportbeam & formworks	0	3	.3	18,07,03	21/07/03	96	Remove cuppor	beam & form cork c
RIDGE G1: PI	IER G6								
G1: Pier G6 P	ile Can							I	
CH3190100	G6 PILE CAP: Sheet Pile driving		2	2	16.05.03	17,05,03		n roain	LECAP: Bheet Pile
H3190110	G6 PILE CAP: Excausite & shorting support		3		20.05.03	22.05.03	1		PILE CAP: Endava
CH3190120	G6 PILECAP: Cit Pile lead		5		23/05/03	28.05.03	1		GERIECAP: CutP
CH3190130	G6 PILECAP: Laybliding layer		1		28/05/03	28/05/03		_	GB PILE CAP: Laybi
CH3190140	G6 PILE CAP: Formwork erection		1		29.05/03	29/05/03			GE FILE CAP: Form
CH3190150	G6 PILE CAP: Reinforcement fixing		3		29.05.03	31,05,03	1		GERILE CAP: Rein
CH3190160	G6 PILECAP: Flual ftx Formwork/Clean & Concrete	0	1	1	020603	020603			I Ge PILE CAP: Rn:
CH3190170	G6 PILE CAP: Remove formwork & Waterproof	0	2		03/06/03	05.06.03			■ Ge PILE CAP: R
H3190180	G6 PILE CAP: Backfill	0	2	2	06.06.03	07.06.03			GO PILE CAP: E
	G6 PILE CAP: Remove the sheet Piles	0	2	2	09/06/03	10.06.03			■ GB PILE CAP:
CH3190190	Column (Type C6 solid)		0 1		· ·	nd :			
	ATSTERNOON ONE TO SUID TO THE	T -	5	5	17.06.03	21.06.03	1	G8: 1ct Colum	nn Lift 📺
G1: Pier G6 C	G6: 1stColume Lift				230603	27.06.03		G6: 2nd Ca	
G1: Pier G6 С СН3196100	G6: 1stColumn Lift G6: 2nd Column Lift		5	5					
G1: Pier G6 C CH3196100 CH3196110			5 5	_	28.06.03	04/07/03		G6: 3rd (Calumn Lift
CH3190190 G1: Pier G6 C CH3196100 CH3196110 CH3196120 CH3196122	G5: 2hd Column Lift	0		5		04.07.03 10.07.03			, ,
G1: Pier G6 C CH3196100 CH3196110 CH3196120	G6: 2rd Column Lift G6: 3rd Column Lift	0	5	5	280603			G6: 4	alumn Lift per
G1: Pier G6 C CH3195100 CH3195110 CH3195120 CH3195122 CH3195125	G6: 2nd Column Lift G6: 3rd Column Lift G6: 4th Column Lift	0	5 5	5	28/06/03 05/07/03	10,07,03		G6: 4	Column Lift an In Column Lift an

1	1	1 601	ing sade i	Tagerer	** 200	1 2000	133	2003	3
Activity ID	Activity Description	%	Orig Dur	Rem	Early Start	Early Finish	M APR	MAY JUN	5577073.55
Aller Marie Anna Aller	All Auron and Art of the control of the Art	1 2 3	Dui	DGI	Statt	Titilisti	100100		1111
	IDGE G2 - STAGE 2 WORKS								
BRIDGE G2: PI	NOTE: TO STATE OF THE STATE OF								
G2: Pier G7 Bo		75E 77	8)	y .	99 3	tq 8	4 1		
CH3275110	G7: 1st linte ritace core fest		1		21/04/03	21/04/03	₩	GV: 1 ctintertage gare te ct	
CH3275160	G7: 2nd Bored Pile		5	5	25/04/03	30/01/03	-	GV: 2nd Bared Pile	<u> </u>
CH327517B	G7: 2nd Interface core test	0	1	1	10.05.03	10.05,03	₩	@ GV : 2nd Infertsce (none te cit
CH3275180	G7: Sould test		1	. 1	10.05.03	10.05.03	-	0 GV: Bonlo te ct	
G2: Pier G7 Pi	CONTROL CO	<u> </u>	8 3	y	90 0	toi			
CH3280100	G7 PILECAP: Sheet Pile dribing		14		12/05/03	28/05/03		THE OF PILEO	AP: Bheet Ple
CH3280110	G7 PILE CAP: Excause & shorting support		3	3	29/05/03	31,05,03	\sqcup	© OF PILE	CAP: Escavate
CH3280120	G7 PILECAP:Cat Pile liead		.5		02/06/03	07.06.03		■ G7-PI	LE CAP: Cut PI
CH3280130	G7 PILECAP: Laybliiding layer		1	1	07/06/03	07.06.03	\blacksquare	I GV PI	LE CAP: Laybii
CH3280140	G7 PILE CAP: Formwork erection		1		09/06/03	09/05/03		I GV PI	LE CAP: Forms
CH3280150	G7 PILE CAP: Reinforcement fixing	0	3	3	09/06/03	11.05.03		■ G7 F	ILE CAP: Rein
CH3280160	G7 PILE CAP: Final ffx Formwork/Clean & Concrete	0	1	1	12/06/03	120503	\sqcup	107	FILE CAP: Fina
CH3280170	G7 PILE CAP: Remove Formwork & Bithm hous Paint		2	2	13/06/03	140503			PLECAP: Re
CH3280180	G7 PILECAP: Backfill	0	2	2	16/06/03	17.06.03		GF PILE CAP: Bankfill g	
CH3280190	G7 PILE CAP: Remove Sheet Piles		2	2	18.06.03	19/06/03		100	7 PILECAP: F
G2: Pier G7 Co	olumn (Type C7)	V6) V	5 S	773 	75	96 V			
CH3285100	G7: 1stColume Lift	0	.5	5	20.06.03	25/05/03	1	GV: 1stCalumn Lift =	
CH3285110	G7:2nd Column Lift	0	5	5	260603	02/07/03		GF: 2nd Column Lift	
CH3285120	G7:3rd Column Lift	0	5	5	03/07/03	08/07/03		G7 : Srd Column I	lft 📰
CH3285122	G7: 4th Column Lift	0	5	5	09/07/03	14/07/03		G7 : 4th Calum	n Lift 🚃
CH3285125	G7:Sta Colum a Lift		.5	5	15/07/03	19/07/03		G7 : 6th Coli	ımı Lift 🚃
BRIDGE G2: PI	ER G8 (Type C6/H5 solid)								
G2: Pier G8 Bo	F 17-37-80 P					3			
CH3310100	G8: 1st Bored Pile	90	5	3	08.04.03A	23/04/03	11 —	C\$: 1ct Bared Pile	
CH3310110	G8: 1st line riace core test		1		03/05/03	03/05/03	+-	© GS: 1ct intertage por	n to ct
CH3310160	G8: 2nd Bored Pile		5		290403	05/05/03	-	GE: 2nd Epred Pile	-
CH3310170	G8: 2nd interface core test		1	1	10.05.03	10.05.03	-	(CS: 2nd intertage (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CH3310180	G8: Sould test		- 1	1	10.05.03	10.05.03	-	I GS: Bonio te ct	ILLI BUL
GUX # 2538/5-26408					ideada	Tibbook	-	g Ca. admid & Ct.	+
G2: Pier G8 Pil	Constant Con			y	Lancon .	l morm	4	l I L	.]
CH3315100	G8 PILE CAP: Sheet Pile driving		14		120503	28/05/03	-	38 PILEO	_
CH3315110	G8 PILE CAP: Excauste & shoring support		3		29.05.03	31/05/03	-		CAP: Escavate
CH3315120	G8 PILE CAP: Cat Pile head		.5		020603	07.06.03	-		LE CAP: Cut P
CH3315130	G8 PILE CAP: Layblinding layer		1		07/06/03	07.06.03	-	1,1-1	LE CAP: Laybi
CH3315140	G8 PILE CAP: Formwork erection		1		09/05/03	09/06/03	-	H	LE CAP: Rorm
CH3315150	G8 PILE CAP: Reinforcement fixing		3	3	09/06/03	11/06/03	-		ILE CAP: Rein
CH3315160	G8 PILE CAP: Final ftx Formwork/Clean & Concrete		1	1	120503	120603	-		PILE CAP: Rna
CH3315170	G8 PILE CAP: Remove Formwork & Waterproof		2	2		140603	11-1-1		PILE CAP: Re
CH3315180	G8 PILE CAP: Backfill		2	-2		17.06.03		GS PILE CAP: Bankfill g	
CH3315190	G8 PILE CAP: Remove the sheet Piles		2	.2	18.06.03	19/06/03		100	S PILE CAP: I
	olumn (Type C7)				15.17.1.01		41 1		
СН3320100	G8: 1stColume Lift	0	.5		20.06.03	24/06/03		G8: 1ctCajumn Lift	
CH3320110	G8: 2nd Column Lift	0	5		25,05,03	29.06.03		GS: 2nd Column Lift	
CH3320120	G8: 3rd Column Lift	0	5		30,06,03	01/07/03		GE: End Column Life	
CH3320122	G8: 4th Column Lift		5	5	05/07/03	09/07/03		GE: 4th Column	
CH3320125	G8:Sta Columa Lift		.5	5	10,07,03	15/07/03	\bot	GS: 6th Colum	in lift 📰
0.10022.20	The California Depletor								
1000 20 00000	osshead (Type H5)						U 1		
1003 30 0000000	osshead (Type H5) G8: Erectworking platform & supportbrackets		4		16/07/03	19/07/03	38: Breat	:orking platform & cupport)	огарнеть 🔳
G2: Pier G8 Cr CH3325100	Control of the property of the	0	4	i	1607.03	19/07/03	38: Eneat	:orking platform & cupporti	огарнеть 🔳
G2: Pier G8 Cr CH332S100 BRIDGE G2: PI	G8: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid)		¢	Ł	16,07,03	19/07/03	38: Breat	.corking platform & cupporti	огарнеть 🖪
G2: Pier G8 Cr CH3325100	G8: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid)		5	by :	16/07/03 21/04/03	19.07.03 25.04.03	38: Breat	:oreing platform & supporti	огаонеть 🖪
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo	G8: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid) pred Pilling	9E 9	8	5	Si :		36: Breat	■ Ge: 1st Bored Pile	
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110	GS: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid) ored Piling G9: 1st Bored Pile	78. 7	8	5	21/04/03 05/05/03	25.04.03 05.05.03	38: Erect	■ Ge: 1ct Bored Pile ■ Ge: 1ct intertace oc	
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110 CH3345160	GS: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid) ored Pilling G9: 1st Bored Pile G9: 1st Interface core test G9: 2nd Bored Pile	70% 77 0	5	5	21,04,03 05,05,03 03,05,03	25.04.03 05.05.03 08.05.03	36: Ereof	G6: 1ct Bared Pile G6: 1ct intertace or G6: 2nd Bared Pile	ne te ct
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110 CH3345160 CH3345170	G8: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid) ored Pilling G9: 1st Bored Pile G9: 1st Interface core test G9: 2nd Bored Pile G9: 2nd Bored Pile		5	5	21:04:03 05:05:03 03:05:03 17:05:03	25.04.03 06.05.03 08.05.03 17.05.03	36: Erect	Ge: 1ct Bared Pile [Ge: 1ct intertage of Ge: 2nd Bared Pile [Ge: 2nd intertal	ne te ct
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110 CH3345160 CH3345170 CH3345180	G8: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid) pred Pilling G9: 1st Bored Pile G9: 1st Interface core test G9: 2nd Bored Pile G9: 2nd Bred Pile G9: 2nd Interface core test G9: Solid test		5	5	21,04,03 05,05,03 03,05,03	25.04.03 05.05.03 08.05.03	36: Breat	G6: 1ct Bared Pile G6: 1ct intertace or G6: 2nd Bared Pile	ne te ct
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110 CH3345160 CH3345170 CH3345180 CH3345180	G8: Erectworking platform & supportbrackets ER G9 (Type C6/H5 solid) ored Piling G9: 1st Bored Pile G9: 1st Interface core test G9: 2nd Bored Pile G9: 2nd Bored Pile G9: 2nd Interface core test G9: Sonic test		5 1 5 1 1	5 1 5 1	21/04/03 05/05/03 05/05/03 17/05/03 17/05/03	25/04/03 05/05/03 05/05/03 17/05/03 17/05/03	38: Erec1	Ge: 1ct Bared Pile Ge: 1ct intertace or Ge: 2nd Bared Pile Ge: 2nd Intertal Ge: 6anlo tect	re te ct
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110 CH3345170 CH3345170 CH3345180 G2: Pier G9 Pi CH33351100	GS: Erectworking platform & supportbrackets R G9 (Type C6/H5 solid) ored Pilling G9: 1st Bored Pile G9: 1st Interface core test G9: 2nd Bored Pile G9: 2nd Bored Pile G9: 2nd Interface core test G9: PILE CAP: Sheet Pile driving		5 1 5 1 1	5 1 5 1 1	21/04/03 05/05/03 05/05/03 17/05/03 17/05/03	25.04.03 05.05.03 05.05.03 17.05.03 17.05.03	CS: Breat	Ge: 1ct Bared Pile Ge: 1ct Intertace of Ge: 2nd Bared Pile Ge: 2nd Intertace Ge: 2nd Intertace Ge: 6ania te ct	re te ct se gare te ct E CAP: Sheet I
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345160 CH3345170 CH3345180 G2: Pier G9 Pi CH3380100 CH33801100	GS: Erectworking platform & supportbrackets FR GS (Type C6/H5 solid) ored Pilling GS: 1st Bored Pile GS: 1st Bored Pile GS: 2st Bored Pile GS: 2		5 1 5 1 1 1	5 1 5 1 1	21/04/03 05/05/03 05/05/03 17/05/03 17/05/03 20/05/03 05/05/03	25.04.03 05.05.03 05.05.03 17.05.03 17.05.03 05.05.03		Ge: 1ct Bared Pile Ge: 1ct Intertace or Ge: 2nd Bared Pile Ge: 2nd Intertace Ge: 2nd	re te ct se gare te ct E CAP: Sheet I
G2: Pier G8 Cr CH3325100 BRIDGE G2: PIE G2: Pier G9 Bo CH3345100 CH3345110 CH3345170 CH3345170 CH3345180 G2: Pier G9 Pi CH33351100	GS: Erectworking platform & supportbrackets R G9 (Type C6/H5 solid) ored Pilling G9: 1st Bored Pile G9: 1st Interface core test G9: 2nd Bored Pile G9: 2nd Bored Pile G9: 2nd Interface core test G9: PILE CAP: Sheet Pile driving		5 1 5 1 1	5 1 5 1 1	21/04/03 05/05/03 05/05/03 17/05/03 17/05/03 20/05/03 05/05/03	25.04.03 05.05.03 05.05.03 17.05.03 17.05.03	Ce PILE	Ge: 1ct Bared Pile Ge: 1ct Intertace of Ge: 2nd Bared Pile Ge: 2nd Intertace Ge: 2nd Intertace Ge: 6ania te ct	ine te ct

A 217 21.	1 whome	1 60	l'assi	`E01310	** #asa	1 -2000	· · · · · · · · · · · · · · · · · · ·	20	03	
Activity ID	Activity Description	%	Orig Dur	Rem	Early Start	Early Finish	M APE	R MAY	JUN	JUL
CH3350140	G9 PILE CAP: Formwork erection			1	16/06/03	16.06.03				LE CAP: Ro
CH33950150	G9 PILE CAP: Reinforcement fixing		_	3		18.06.03	+			ILECAP: R
CH3350160	G9 PILE CAP: Final fit: Formwork/Clean & Concrete		1	1	19/06/03	19.06.03	+			FLE CAP: F
CH3350170	G9 PILE CAP: Remove Formwork & Bithm hous Paint		2	2	20,06,03	21/06/03	+			PILECAP:
CH3390180	G9 PILE CAP: Backfill		2		230603	240603	+	GE PILE CAP:		
CH3350190	G9 PILE CAP: Remove the sheet Piles				250603	260603	+	1		# PILECAF
37757 - 389 - YUYCEYAS	300 2000 200000 -	24 2	-		7/2	200000	80	:-		e nie car
CH33955100	olumn (Type C3S) G9: 1stColum Lift	To	5		17,07,03	22/07/03			38:1ctCalumr	. ú .
V 65-12-12-02-02-22-22-03	1		9	9	Пашаво	2201703			se. reconum	
BRIDGE GZ: PII	ER G10 (Type C6/H5 solid)								·	
G2: Pier G10 E							33			
СН3380100	G 10: 1st Bored Pile	0	5	5	25/04/03	30'0''03	4	010:1ct Bo	-	
CH3380110	G 10: 1st line nace core test	0	1	1	10.05.03	10.05.03	4		t intertace our	ne fect
CH3380160	G 10: 21d Bored Pile	0	5	5	0205/03	07.05.03	₩	G10: 2nd		
CH3380170	G 10: 2nd interface core test	0	1	1	16/05/03	16,05,03		0 910:	2nd intertace o	oore tect
CH3380180	G 10: Sould test	0	,1	1	16/05/03	16.05.03		0 910:	Bonio test	
G2: Pier G10 P	Pile Cap	46 4		93	.33	322	803			
CH3385100	G 10 PILE CAP: Sheet Pile driving	0	2	2	27/06/03	28.06.03	910 F	LE CAP: Bhaat P	le driving g	
CH3385110	G 10 PILE CAP: Excausite & shorting support	0	3	3	30,06,03	03/07/03			1	010 PILE
CH3385120	G 10 PILE CAP: Cit Pile lead	0	5	5	04.07.03	09/07/03		G10 PILECAP:	out Pile head	858
CH3385130	G10 PILECAP: Laybilliding layer	0	,1	1	09/07/03	09/07/03		910 PILE CAP: La	y biinding laye	r j
CH3385140	G 10 PILE CAP: Formwork erection	0	1	1	10,07,03	10,07,03		010 PILE CAP: For	mwark erea t a	ın I
CH3385150	G 10 PILE CAP: Reinforcement fixing	0	3	3	10,07,03	12/07/03	91	PILE CAP: Reint	broement 1 sin	10 B
CH3385160	G10 PILE CAP: Final Fix Fiwork/Clean & Concrete	0	1	1	1407/03	14/07/03				I 010
CH338517B	G 10 PILE CAP: Remove Formwork & Bitum hous Paint	0	2	2	15/07/03	16/07/03				B 91
CH3385180	G 10 PILE CAP: Backfill	0	2	2	17,07,03	18/07/03	#	G10	FILE CAP: Bat	okill g
CH3385190	G10 PILE CAP: Remove the sheet Piles	0	2	2	19/07/03	21/07/03	1 0	PILE CAP: Rem	ove the cheet	Hies a
OMETRICT PE	RIDGE ML16 - STAGE 2 WORKS	83	0 0	2.	δį:	68	20			
BRIDGE ML16:	PIER NB43									
	343 Bored Piling									
CH7026100	NB 43: 1st Bored Pile		.5	5	07/05/03	120503		■ N 848 :	1st Bored Pie	,
CH7026110	NB 43: 1st line riace core test		1	1	22/05/03	22/05/03		I HE	48: 1st intere	ace core te
CH7026160	NB 43: 2nd Bored Pile		5	5	13/05/03	17,05,03		■ N B43	: 2nd Bored P	Ale.
CH7026170	NB 43: 2nd linterrace core test	0	1	1	280503	28/05/03			N 648 : 2nd In e	ertade dare
CH7026180	NB43: Sould test	0	1	1	28,05,03	28/05/03			N 642 : Banta k	e cit
ML16: Pier NB	343 Pile Cap						30			
CH7029100	NB43 PILE CAP: Sheet Pile driving	0	2	2	29.05,03	30.05.03	7		NB48 PILE C	AP: Bheet
CH7029110	NB43 PILE CAP: Excauste & shorting support	0	3	3	31/05/03	03/06/03			# B48 PILE	CAP: EIO
CH7029120	NB43 PILECAP: Ckt Pile head	0	5	5	05/06/03	10.06.03			■ N B48 P	LECAP: 0
CH7029130	NB43 PILECAP: Layblinding layer	0	1	1	10.06.03	10.05.03			0 N B48 P	LE CAP; L
CH7029140	NB43 PILE CAP: Formwork erection	0	1	1	11/06/03	11/05/03			N B48 PI	LECAP: I
CH7029150	NB43 PILE CAP: Relatorcement fixing		3	3	11/06/03	13/06/03	11		■ N E42 P	TLE CAP:
CH7029160	NB43 PILECAP: Final Ftx FmWkClean & Concrete		1	1	140603	140603	#		0 M E48 F	PILE CAP:
CH7029170	NB43 PILE CAP: Remove Formwork & Warterproof		2	2		17,06,03	1			PILECAR
CH7029180	NB43 PILE CAP: Backfill	-	_	2		19/06/03	1	B48 FILE CAP: B		
CH7029190	NB43 PILE CAP: Remove the sheet Piles		_		20,06,03	21/06/03	1			48 PILEC
(Q. 1 and 0 0 0 1 and 1 a 1 a 1 a 1 a	Charles - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				1-	·				
ML16: PIER NB	843 Column (Type C3 hollow) NB43: 1stColumn Lift	1 0	5		240603	28.06.03	1.0	N B42 : 1 ct Co	lumn 11# —	
			_			_	+			
CH7032110	NB43: 2xd Column Lift				30,06,03	05/07/03	-		Column Lift gr	
CH7032120	NB43:3rd Column Lift		5		07.07.03	11/07/03	-		rd Column Lift	
CH7032122	NB43: 4th Column Lift			5		17,07,03	-		: 4th Column L	
CH7032123	NB 43: Sta Columa Lift		5	5	18,07,03	23/07/03		NE NE	48:6th Colum	iu riur 🔲
	PIER NB44									
BRIDGE ML16:					1-00					
	344 Bored Piling						11 -			
	844 Bored Piling NB44: 1stBored Pile	60	8	8	17/04/03A	29/04/03		MB44: 1ct Br	red File	
ML16: Pier NB		60	8	8	17,04,03A 09,05,03	29/04/03 09/05/03	╫╌		red Ale ctintertace cor	ne te ct
ML16: Pier NB CH7047100	NB44: 1st Bored Pile		1	1			-	NB44: 1		
ML16: Pier NB CH7047100 CH7047110	NB44: 1st Bored Pile NB44: 1st Interface core test		1	1	09/05/03	09/05/03		N B44: 1	stinfertsce oor	ili i
ML16: Pier NB CH7047100 CH7047110 CH7047140	NB44: 1st Bored Pile NB44: 1st line riace core fest NB44: 2nd Bored Pile	0	1 8 1	1 8	09:05:03 09:05:03	09/05/03 17/05/03		ME44: 1	ctintertage ogr : 2nd Bored P	Alé erboe oore
ML16: Pier NB CH7047100 CH7047110 CH7047140 CH7047150	NB44: 1st Bored Pile NB44: 1st Interface core fest NB44: 2nd Bored Pile NB44: 2nd Interface core fest	0	1 8 1 8	1 8	09.05.03 09.05.03 28.05.03	09/05/03 17/05/03 28/05/03	M E4	ME44: 1	ctintertage oor : 2nd Bored P N 644: 2nd inte	Alé erboe oore
ML16: Pier NB CH7047100 CH7047110 CH7047140 CH7047150 CH7047160	NB44: 1st Bored Pile NB44: 1st Interface core fest NB44: 2nd Bored Pile NB44: 2nd Interface core fest NB44: 3nd Bored Pile		1 8 1 8	1 8	03/05/03 03/05/03 28/05/03 31/05/03	08/05/03 17/05/03 28/05/03 10/05/03	N 84	M B44: 1	ctintertage ogr : 2nd Bored P N B44: 2nd inte IIII N B44: 3r re tect g	Ale erisoe oore rd Bored F
ML16: Pier NB CH7047100 CH7047110 CH7047140 CH7047150 CH7047150 CH7047170	NB44: 1st Bored Pile NB44: 1st Interface core fest NB44: 2nd Bored Pile NB44: 2nd Interface core fest NB44: 3rd Bored Pile NB44: 3rd Interface core fest NB44: 3rd Interface core fest NB44: 3rd Interface core fest	0	1 8 1 8	1 8	09/05/03 09/05/03 28/05/03 31/05/03 19/05/03	09/05/03 17/05/03 28/05/03 10/05/03 19/05/03	N 84	M B44: 1	ctintertage ogr : 2nd Bored P N B44: 2nd inte IIII N B44: 3r re tect g	Alé erboe oore

Activity	Activity	%	Orig	Rem	Early	Early	1 405	2003
ID	Description	-0000	Dur	Dur	Start	Finish	M APR	R MAY JUN JUL
CH7050110	NB44 PILE CAP: Excausite & shoring support	0	3	3	25/05/03	27,06,03		■ NB44 PILEC
C H7050120	NB44 PILECAP: CatPile head	0	5	5	28.06.03	04.07.03	N/	44 PILECAP: Cut Pile head
C H7050130	NB44 PILECAP: Layblinding layer	0	1	1	0407.03	04.07.03	N B4	4 PILECAP: Lay blinding layer g
CH7050140	NB44 PILE CAP: Formwork erection	0	.1	1	05/07/03	05/07/03	N E44	PLECAP: Form work erection
C H7050150	NB44 PILE CAP: Reinforcement fixing	0	3	3	05/07/03	08/07/03	N B44	ILE CAP: Reinturgement 1 sing _
CH7050160	NB 44 PILE CAP: Final Fix FmWkClean & Concrete	0,	1	1	09/07/03	09/07/03		0 M E44 F
CH7050170	NB 44 PILE CAP: Remove Formwork & Waterproof	0	2	2	10,07,03	11/07/03		□ W B44
CH7050180	NB 44 PILE CAP: Backfill	0	2	2	12/07/03	14/07/03		WB44 PILECAP: Bank1II 📋
CH7050190	NB44 PILE CAP: Remove the sheet Piles	0	2	2	15/07/03	16/07/03	N B44	PLECAP: Remove the cheet Plec g
ML16: Pier NE	344 Column (Type C2 hollow)				· · · · · · · · · · · · · · · · · · ·	700		
C H7053100	NB44: 1stColumn Lift	0	5	5	17,07,03	22/07/03	1 !	NB44: 1stCalumn Lift 📺
CONSTRUCT BE	RIDGE ML15 - STAGE 2 WORKS	**	8 9	2)	90	45 ⁸ 8		
BRIDGE ML15:						- /		
						-		
7	343 Bored Piling				lai a i a		4	
CH6912100	SB 43: 1st Bored Pile		8	8	240403	03/05/03	4	B 648: 1ct Bored Pile
CH6912110	SB 43: 1st line riace core test		1	1	13.05,03	13.05.03	4	8 B42: 1ct Intertace core tect
CH6912160	SB 43: 2nd Bored Pile		8	8		25/05/03	4	B E43: 2nd Bored Pile
CH6912170	SB 43: 2nd interrace core test		1		05,05,03	05/05/03	4	8 848 : 2nd Intertace of
CH6912180	SB 43: Sould test		1	1	05,06,03	05/05/03		🛮 8 B48 : Bonio te ct
ML15: Pier SE							41	
CH6915100	S843 PILECAP: Sheet Pile driving		2		06,06,03	07/06/03		■ 8B4S PLECAP: 8he
CH6915110	S843 PILE CAP: Excause & shoring support	0	3		09/06/03	11/05/03		■ 8B48 PILE CAP: E
CH6915120	SB43 PILECAP: Citt Pile liead	0	5	5		17,05,03	8 848 PIL	ECAP: Cut Pile head
CH6915130	SB43 PILECAP: Laybinding layer	0	1	1	17/06/03	17,06,03		■ 884\$ PILE CAP:
CH6915140	SB43 PILE CAP: Formwork erection		1	1	180603	180603		BB48 PILECAP
CH6915150	SB43 PILE CAP: Relatorcement fixing	0	3	3	180603	20.06.03		■ 8B48 PILECAI
CH6915160	SB43 PILECAP: Final Fix FiworkClean & Concrete	0	1	1	21/06/03	21/05/03		■ BB4S PILE CA
CH691517B	SB43 PILE CAP: Remoue Formwork & Warterproof	0	2	2	23/06/03	240503		■ 8 843 PILE C
CH6915180	SB43 PILECAP: Backfill		2	2	250503	260603		8848 PILE CAP: Backfill g
CH6915190	SB43 PILE CAP: Remoue the sheet Piles	0	2	2	27/06/03	280603		■ BE48 PILE (
ML15: Pier SE	343 Column (Type C2A)							
CH6918100	SB43: 1stColumn Lift	0	5	5	30,06,03	05/07/03	7 !	8 B48: 1 ct Column Lift 💼
CH6918110	SB 43: 2nd Column Lift	0	.5	5	07/07/03	11/07/03		8 B43 : 2nd Column Lift 📺
CH6918120	SB43:3rdColume Lift	0	5	5	12/07/03	17,07,03		8 B43: Srd Column Lift 🚃
CH6918122	SB 43: 415 Column Lift	0	5	5	18/07/03	23/07/03		8 848 : 4th Column Lift 📺
BRIDGE ML15:	PIER SB44E							
ML15: Pier SE	844E Bored Piling						1	
CH6933100	SB44E: 1st Bored Pile	70	5	3	120403A	230403	1 🖃	BB44E: 1ct Bored Pile
CH693311B	SB 44E: 1st latertace core test		1	1	03/05/03	030503	#	0 8 644 E: 1 ct Intertage agre te ct
CH6933120	SB44E: 2nd: Bored Pile	-	5	5	240403	29/04/03	1	B 844E: 2nd: Bored Pile
CH6933130	SB 44E: 2nd: Interface core test		1	1	09/05/03	09/05/03	1	8 844 E: 2nd : Infertage gare text
CH6933160	SB 44E: 3rd Bored Pile		5	5		060503	1	8 B44E: 2rd Bored Pile
CH693317B	SB44E: 3rd lute riace core test		1	1	15,05,03	15/05/03	1	8 B44 E: 2rd Intertage core text
CH6933180	SB44E: Sould test	-	1	1	15,05,03	15/05/03	1	8 844 E: Bania te ct
STREET, STREET	844E Pile Cap							
CH6936100	S844E PILECAP: Sheet Pile dribing		2	- 2	16/05/03	17,05,03	41 '	B B44E PILE CAP: Bheet Pile
CH693611B	S844E PILECAP: Excause & shorting support	- 0	3	3	200503	22/05/03	+	BB44E PILECAP: E103 V3
CH693612D	SB44E PILE CAP: Cut Pile lead	0	.5	5		28/05/03	+	BB44E PILE CAP: CutP
CH693613D	S844E PILECAP: Laybliding layer		.3	4	280503	28/05/03	#	BB44E PILE CAP: Cath
CH693614D	SB44E PILE CAP: Layounding layer SB44E PILE CAP: Formwork erection			14	29/05/03	29/05/03	+	BB44E PILE CAP: 18y6
CH693615D			3	1			#	
	SB44E PILE CAP: Relatorcement fixing		3		29.05.03 22.05.03	31,05,03	#	BB44E PILE CAP: Rein
CH6936160 CH6936170	SB44E PILE CAP: Final Fix FmW.Clean & Concrete CB44E BILE CAR: Remove Formwork & Materian room	- 0	2		020603 030603	02/06/03 05/06/03	#	BB44E PLECAP: Rn
3	SB44E PILE CAP: Remove Formwork & Waterproof		2		060603	07/06/03	P DA4E	I BB44E PILE CAP: R
CH6936180	SB44E PILE CAP: Backfill	- 0	_				100442	
CH6936190	SB44E PILE CAP: Remove the sheet Piles	V-3	2	2	09/06/03	10.06.03		BB44EPILECAP:
	344E Column (Type C3 hollow)		-		I	Inne	41 '	
CH6969100	SB44E: 1stColumn Lift		.5		20.05.03	25/05/03	4	8844E: 1ctCalumn Lift
CH6969110	SB44E: 21d Column Lift		5		26.06.03	02/07/03	4	8 E44 E: 2nd Column Lift
LUC MEGGGGGGGG	S844E:3rd Column Lift		5	5	03/07/03	08/07/03		8 B44 E: 3rd Calumn Lift
CH6969120						1		l messe like in the
C H6969122 C H6969123	SB44E: 4th Column Lift SB44E: Sth Column Lift	0	.5	5 5	09/07/03 15/07/03	19/07/03	\perp	8 844 E: 4th Calumn Lift 8 844 E: 6th Calumn Lift 8

T warm	The same of the sa	1 47	ing and i	Species	* \$530	1 2000	35	200	13	
Activity ID	Activity Description	%	Orig Dur	Rem	Early Start	Early Finish	M APE	MAY	JUN	JUL
13 - 25 31	: PIER SB44W & PORTAL SB44	d d	Dui	Dai	Start	11111311	1 1 1			1.1
							1			
CH6961100	844W Bored Piling S844W: 1st Bored Pile	07	8	<u> </u>	15.03.03A	26,04,03	ــــــــــــــــــــــــــــــــــــــ	8 844W: 1ct 8	ared Bla	
CH69611B1	SB4400: 1st Bored Pile	- 10	1	_	21/04/03	21/04/03		8 844W: 1ct Born		
CH6961110	SB4400: 1st late riace core test	0	1		07/05/03	07/05/03	-		ictinfertage ogra	
CH696114D	SB4400: 1st me race core est	0	8	_	020503	10.05.03	-			o mo cit.
CH6961150	SB 44/0: 2nd interface core test		1	_	21/05/03	21/05/03	-		2nd Bored File 44W: 2nd Intertal	
CH6961160	SB 4400: 3rd Bored Pile		8	_	240503	02/06/03	-			
CH696117B	S8 44/0: 3rd Interface core test	0	°	_	120603	120603	D PAAIOL S	d Intertace core t	8844W: 3rd B	area P
	SB4400: Sould test	0	1		120603	120503	B 54449V. 6	U 11 6) 206 UU16		· 4
CH6961180				1	12000	120503	-		■ 8 844VV: 8	ionio 1
_	B44W Pile Cap	46 4	6 -	81	3	(8)	4			
CH6954100	SB4400 PILE CAP: Sheet Pile dribing	0	2		13/06/03	14.05.03	-		. ■ 8 B44W F	
CH6954110	SB 4400 PILE CAP: Excause & shoring support	0	3		16/06/03	18/06/03	!		■ 8 B44W	PILE
CH6954120	SB4400 PILECAP: CetPile lead	0	5	_	19/06/03	24/06/03	8 B44W F	(ECAP: Out Pile		
CH6954130	SB4400 PILECAP: Laybliding layer	0	' 1		240503	240603	4		B E44	
CH695414D	S84400 PILE CAP: Formworkerection	0	1		25,05,03	25.06.03	Ц		■ 8 84	4W PI
CH6954150	SB4400 PILE CAP: Relatorcement fixing	0	3	3	250603	27,06,03	4		■ 8 6×	_
CH6954160	SB4400 PILECAP; Fluid Ftx FmV0kClean & Concrete	0	1	1	28/06/03	28/06/03	Ц		188	44W F
CH695417B	SB4400 PILE CAP: Remoue Fm10k & 00ate rproof	0	2	_	30,06,03	02/07/03	4			B44W
CH6954180	SB 4400 PILE CAP: Backfill	0	2		03/07/03	04/07/03	Ц	BB44W PILEC		
CH695419B	SB4400 PILE CAP: Remove the sheet Piles	0	2	2	05/07/03	arvarvas	₩		-	8 844
ML15: Pier St	844W Column (Type C3/T3(M) hollow)	스캠 스	W.	500	<i>**</i>	şə Şi	1			
CH6957100	SBA400: 1stColumn Lift .	0	5	5	08/07/03	12/07/03		8 B44W:	ictColumn Lift (165
CH6957110	SB4400: 2nd Column Lift	0	5	5	1407/03	18,07,03		8 B44W	: 2nd Column Lif	ft 📋
CH6967120	SB4400: 3rd Column Lift	0	5	5	19/07/03	24/07/03		8 644	W: 2rd Calumn	uft 🖪
ONSTRUCT B	RIDGE ML12									
BRIDGE ML12:	PIED NR24					19				
ML12: Pier NI		- 1			larara	lana em	4			
CH6417100	Sheet Pile driving		2	_	21/04/03	22/04/03	-	Bheet Ale drivi		
CH6417110	Excausite & shorting support	0	3		23/04/03	25/04/03	-	Escavate 2. ch		
CH6417120	CitPile lead		5		25/04/03	02/05/03	-	Cut Pile hea		
CH6417130	La/biliding layer		1	_	020503	02/05/03	-	Lay blinding	-	
CH641714D	Formworkerection	0	<u> </u>	_	030503	03/05/03	-	■ Formwork e		
CH6417150	Relatorcement fixing	0	3		03/05/03	06/05/03	-	Reinforce		
CH6417160	Final fit FormworkClean & Concrete	0	1		07/05/03	07/05/03	-		ormwork/Clean S	
CH6417170	Remove formwork & bitter hours print	0	2		08/05/03	09/05/03	-		formwork & bifur	minou
CH6417180	Backfill	0	2		10,05,03	12/05/03	Н—	■ Baokili		
CH6417190	Remove the sheet Piles		2	2	13/05/03	14/05/03	-	■ Remo	o the cheet File	G
	B31 Column (Type C7/H1B)						1			
CH6420100	1stColumn Lift	0	6		15,05,03	22/05/03	Ц		Calumn Lift	
CH6420110	2nd Column Lift	0	6	6	23/05/03	29/05/03			2nd Calumn (Ift	
CH6420120	3rd Column Lift	0	6		30,05,03	06/06/03			📆 Srd Calumn L	u rt -
CH6420125	4th Column Lift		6	6	07/06/03	13/06/03	₩		4th Colum	ın LIft
ML12: Crossh	nead Between NB31/SB31(Type H1B)					3				
CH6423100	Erectworking platform & support brackets	0	ŧ	4	14/06/03	18/06/03	1		■ Breaton	arkinj
CH6423110	Erectsofft formwork	0	5	5	19/06/03	240603		Breat co fit ton	nwork	
CH6423120	ErectSide Panel	0	5	5	25/06/03	30,06,03		Breat 81	de Panel 🚃	
CH6423130	Relatorcement fixing	0	.5	5	0207/03	07.07.03		Reinford	mentilling 🚃	1
CH6423140	Concretting	0	1	1	08/07/03	08/07/03			Canareting	
CH6423150	Remoue Side Panel & Clure Crosshead	0	28	28	09/07/03	05/08/03	Remo	e Bide Panel & O	ure Croschead	Ç*
CH642317B	Erectworking platform & supportbrackets	0	- 4	4	09/07/03	12/07/03	Breatwo	king platform & cu	pportbrackets (
CH6423180	Erectsorfft formwork	0	.5	5	14/07/03	18/07/03	1	Bre .	at constitutions and	н 🚃
CH6423190	ErectSide Panel	0	5	5	19/07/03	24/07/03	1		Great Bide Par	nel p
BRIDGE ML12:	PIER NB32									
							1			
ML12: Pier NI CH6438180	Backrill		- 1		21/04/03	22/04/03	41	D Pankell		
							#	D Samous the ch		
CH6438190	Remove the sheet Piles		2	L 2	23/04/03	240403	-	C Remove the ch	PETMIEG	
	B32 Column (Type C3/Portal NNB32)				1		4			
CH6441100	1stColuma Lift	0	6	_	25,04,03	02/05/03	Н—	H 1ctCalumn		
CH6441110	2nd Column Lift		6		03/05/03	09/05/03	Н—	2nd Calu	_	
CH6441120	3rd Column Lift				10.05.03	16/05/03	4		olumn Lift	
CH6441125	4th Column Lift	0	6	6	17,05,03	24/05/03	Щ	41	Calumn Lift	

1 www.	T www.	1.50	Last	Garage Sec	l'esa	1 2000	· 3	20	03:	
Activity ID	Activity Description	96	Orig Dur	Rem	Early Start	Early Finish	M APR	MAY	JUN	JUL
CH6441130	Cat Ladder & 6&M Installation		14		26.05.03	11/06/03			Catia	
1	NSB32 Between NB32/SB32(04/173)	10 1	0 3		· ·	**	-			
CH6444100	Erectworking platform & support brackets	1 0	ı	4	120603	15,05,03	1		■ Breo	tworking pla
CH6444110	Erectsoffft formwork		5	5		20,06,03	-	Breat contitum	_	
CH6444120	ErectSide Panel	-	5		21,06,03	25,05,03	+		Panel pa	
CH6444130	Reinforcement/fixing		5		260603	30,06,03	+		enticing m	
CH6444140	Concretting		1		01/07/03	01/07/03	-			Congreting
CH6444150	Remoue Side Panel & Cure Crosshead	-	28		02/07/03	29/07/03	Remove	Bide Panel & Curt	Cro schéad	
CH6444170	Erectworking platform & support brackets	-			02/07/03	05/07/03	1	<u> </u>		■ Breatwo
CH6444180	Erectsofft formwork		5		06.07.03	10,07,03	+	Breat :	afit formwart	_
CH6444190	Erect Side Panel		5		11/07/03	15/07/03	-		reat Bide Pa	
CH6444200	Reinforcement fixing		5	5		20,07,03			Intoroement	
BRIDGE ML12:	0.0000 - 4.012000 -	_	-							
ML12: Pier NE	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		-		lareren	long (etc.)		L _		
CH6459180	Backfill Remove the sheet Blind	0	2		21/04/03 23/04/03	220403	-	Exight	-1	_
CH6459190	Remove the sheet Piles		2	- 2	230003	240403		Bemove the ch	BBT PIBG	
	333 Column (Type C3/H1B)	9: 24		1 955	and an oder				1 :	
C H6462100	1stColumn Lift	0	6		260503	31/05/03	-	-	1 ct Calumn	
CH6462110	2nd Column Lift		6		020603	09/06/03	-		2nd Col	-
CH6462120	3rd Column Lift	0	6	6		16/06/03	4			Calumn Lift
CH6462125	4th Column Lift	0	6	6	17.06/03	23,06,03		\sqcup	= 4	th Calumn L
BRIDGE ML12:	PIER NB34									
ML12: Pier NE	334 Bored Piling						3.5			
CH6477110	1st latertace core test	0	1	1	21/04/03	21/04/03	7	1 ct Intertace co	re te ct	
CH6477130	2nd: Interface core test	0	1	1	22/04/03	22/04/03] 2nd : Intertace o	pre te ct	
CH6477150	3rd: Interface core fest	0	.1	1	25/04/03	25,04,03		Srd : Intertace	oone te at	
CH6477180	Soulcitest	0	1	1	25/04/03	25/04/03		I Bonio test		
ML12: Pier NE	334 Pile Cap		0 3		· ·	w :				
CH6480100	Sheet Pile driving		2	2	26/04/03	28,04,03	-	Bheet Pile dr	lving	
CH6480110	Excausite & shorting support		3		29/04/03	020503		M Endavate 8		oort
CH6480120	Cut Pile head		5	5	03/05/03	08,05,03	1	Cut Pile		
CH6480130	La/biliding lajer		1		08/05/03	08.05.03	+	Lay blind		
CH6480140	Formwork e rection		1	1	09/05/03	09/05/03		Formwor		
CH6480150	Relatorcement fixing		3	.3	09/05/03	120503			pement 1 sing	
CH6480160	Final fit: Formwork/Clean & Concrete		1	1	13/05/03	13,05,03			■ Formwork <i>X</i>	_
CH6480170	Remoue formwork & Wate rproof		2	2	140503	15/05/03	1		ve formwork	
CH6480180	Backfill		2	2	16/05/03	17/05/03		Baok	_	<u> </u>
CH6480190	Remove the sheet Piles	0	2	2	20.05.03	21/05/03			nave the che	et Ples
	334 Column (Type C3/Portal NSB34 04/									
CH6483100	1stColumn Lift		6	6	220503	28.05.03	88	II _	15tCalumn L	
CH6483110	2nd Column Lift		6		290503	050603	-	_	2nd Colum	_
CH6483120	3rd Column Lift		6		060603	120603	-	 '	2nd Color	_
CH6483125	4th Column Lift		6	6		190603	-			Column Lift
CH6483130	Cat Ladder & 58.00 Installation		14		20.06.03	07.07.03	Catt	adder & ES.M in cl	_	_
NO 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	na risti para per artir respuente a recons		1.		1110000	ananas				_
	PIER NB35(M)									
ML12: Pier NE		46 4	9 4	ya .	Inner —	lane: —	80		<u> </u>	
CH6501100	Pile Cap Sheet Pile dribing		2		250403*	25.04.03	-	Pile Cap Shee		_
CH6501110	Pile Cap Excauste & shoring support	0	3		280403	30/01/03	-	Plis Cap Est	_	
CH6501120	Pile Cap Cut Pile liead		5		020503	07/05/03	-		Cut Pile head	_
CH6501130	Pile Cap Laybilliding layer	0	,1		07/05/03	07/05/03	#		Lay blinding I	_
CH6501140	Pile Cap Formwork e rection		1		08.05.03	08/05/03	-		Formwork er	_
CH6501150	Pile Cap Reinforcement fixing	0	3	3	08.05.03	10.05.03	-		Reinforcemi	_
CH6501160	Final fix Formwork/Clean & Concrete	0	1	1	120503	12/05/03			Formwork/C	_
CH6501170	Remoue formwork & Waterproof	0	2	2		14/05/03	1	■ Remo	ve formwork	2 Waterpro
CH6501180	Backfill	0	2	2	15.05.03	16/05/03		■ Back	111	
	Remove the sheet Piles	0	2	2	17,05,03	20.05.03		■ Ren	nove the cher	et Plies
CH6501190				-6	770 3	(C)	30			
Successive of the second	335 Column (Type C7/H3B)									
Successive of the second	335 Column (Type C7/H3B) 1stColumn Lift		6	6	21/05/03	27,05,03	1		ratCalumn Li	ınt
ML12: Pier NE		0	6		21/05/03 28/05/03	27,05,03 03,05,03	1.		stColumn Li	_
ML12: Pier NE CH6504100	1stColumn Lift			6			-		-	n Lift

1 640.44		1 02		HULL	T some	1	V 33		200	3	
Activity ID	Activity Description	%	Orig Dur	Rem	Early Start	Early Finish	M APE	0359030	MAY	JUN	JUL
ML12: Crossh	lead NB35 (Type C3/H3B)	100			Jo 1007-01	14 -43407414				04 000	
C H6807100	Erectworking platform & support brackets		4	4	19/05/03	23/06/03	1			= 8	eatworking (
CH6507110	Erect sofft formwork		5	5	240503	28.06.03	1		Breat contto	пистан 🔲	
C H6507 120	ErectSide Panel	0	5	5	30,05,03	05/07/03			Breat 8	lide Panel (
C H6507 130	Reinforcement fixing	0	5	5	07.07.03	11/07/03			Reinfor	oement1:in	-
CH6507140	Concretting		1	1	1207.03	12/07/03				Conore	ing (
C H6507 150	Remove Side Panel & Cure Cross lead	0	28	- 28	13/07/03	09/08/03	Rem	9 V P	Bide Panel & C	Sure Crasch	pad
BRIDGE ML12:	PIER NB36(M)										
ML12: Pier NE	336 Column (Type C3/T3M hollow)						<:	Ш			
C H6525125	N836: 4th Column Lift	10	6	6	100403A	26/04/03		₽ŀ	528: 4th Colu	mn LIft	
BRIDGE ML12:	DECK STRUCTURE										
ML12: TTA Imp	plementation						<.				
CH6530100	Prepare TTA Drgs (N832 to N834)	Т	43	43	21/04/03*	020603	1			Prepare III	N Dengis (NESS)
CH6530110	Endorse TTA Drgs by the Eng.		7	7	03/06/03	09/06/03	\dagger			■ Endoræ	TTA Dra s by
CH6530120	Apply traffic adulce/gazette votice from TD	0	14	14	10.06.03	230603		П		A A	pply traffic ac
CH6530130	Meeting with RMO		3	.3	240503	26.06.03			Meeting of	th RMO p	
CH6530140	Receive road works adulce	-	2	2	27/06/03	28.06.03		₹ 000	ve road cork	cadvice 0	
C H6530150	Preparation for commencement	-	3	3	29/05/03	01/07/03	Pr	para	ton tor comm	engement (,
CH6530160	implementation of TTA			7	27/05/03	03/07/03		П	Implementati	on of TTA	-
CONSTRUCT BE	RIDGE ML11	80 - 3	8 9		50	QH 3					
BRIDGE ML11:							1				
ML11: Pier SB CH6273120	331 Column (Type C7/H1B) S831:3rd Column Lift	100	-		15/04/03A	21/04/03A	4 • _	. ⊥	4	غوزا	
-		11111	6				-	-	1: Srd Column		
CH6273125	S831: 4th Column Lift			٥	21/04/03	26/04/03		Fï	ES 1: 4th Colu	mu ri#	
BRIDGE ML11:	Daniel and Welling or a reserve to the contraction										
7	332 Column (Type C3/Portal NSB32 hol	9E 9	8 3	y	20	to :	30				
CH6291100	1stColumn Lift	100	6		30,03,03A	19/04/03A		1 ctb	alúmn Lift		
CH6291110	2sd Colema Lift	10	6		20/04/03A	25/04/03	4	-	nd Column Lift	t	
CH6291120	3rd Column Lift	0	6		28/04/03	05/05/03	4	中	Srd Column	иnt	
CH6291125	4th Column Lift		6		06/05/03	120503	4		4th Colu	mn LIft	
CH6291130	Cat Ladder & E&M Installation		14	14	13/05/03	29.05.03		\sqcup		atladder&	ES.M in chall:
BRIDGE ML11:	PIER SB33		78								
ML11: Pier SB	333 Pile Cap	56.	0. 2		0		10				
CH6306140	Formwork erection		1	1	21/04/03	21/04/03		Form	nwark erea t a	п	
CH6306150	Relatorcement fixing	0	3	3	21/04/03	23/04/03		면	Intoroement	elng	
CH6306160	Final fix Formwork/Clean & Concrete	0	1		240403	240403		0 Fin	ial 10 Formwo	rk/Clean & (anare te
CH6306170	Remoue Formwork & Waterproof	0	2	-2	25/04/03	25/04/03		0 9	emave Form:	ork & Water	proof
CH6306180	Backfill	0	2	2	28/04/03	29/04/03		1 4	Each1II		
CH6306190	Remove the sheet Piles		2	2	300703	0205/03		1 4	Remove the	cheet Alec	
ML11: Pier SB	333 Column (Type C3/H1B)						-:-				
СН6309100	1stColumn Lift	0	6	6	03/05/03	09/05/03			1 ot Colum	n Lift	
CH6309110	2nd Column Lift	0	6	6	10.05.03	16/05/03			2nd Co	ılumn LIft	
CH6309120	3rd Column Lift	0	6		17/05/03	24/05/03			DE 270	Column Liff	
CH6309125	4th Column Lift	0	6	6	26/05/03	31/05/03		\Box		4m Calumn	lift.
BRIDGE ML11:	PIER SB34										
ML11: Pier SE	334 TTA Implementation						3				
CH6312150	S834: Preparation for commencement		3	3	21/04/03	23/04/03	1	hek	24: Preparati	on 161° aamm	engement
ML11: Pier SF	334 Bored Piling							П			
CH6321110	SB34: 1st luterface core test	T 0	1	1	21/04/03	21/04/03	1		4: 1st Interts	oe gore terd	
CH6321130			. "				-	•	84: 2nd: Inter		
	SB34: 2nd: Interface core text	_	1	1	22/04/03	22/04/03					[
1	S834: 2nd: Interface core test S834: 3nd: Bored Pile	0		1	22/04/03 07/04/03/A	240403	╫╼	•		d File	
CH6321140 CH6321150	S834: 2nd: Interface core test S834: 3nd: Bored Pile S834: 3nd: linterface core test	_	7	4	22/04/03 07/04/03/A 13/05/03	220403 240403 130503	┞═	•	24: 2rd; Bore	rd Pile rd: intertace	oore test
CH6321140	SB34: 3rd: Bored Pile	90		1	07/04/03A	240403	_	•	24: 2rd; Bore	rd: Infertace	oone te ct
CH6321140 CH6321150 CH6321180	S834: 3rd: Bored Pile S834: 3rd: Interface core test S834: Sould test	90		1	07.04.03A 13.05.03	240403 130503	-	•	24: 3rd : Bore 8624: 3	rd: Infertace	oore test
CH6321140 CH6321150 CH6321180 ML11: Pier SB	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Sould fest 334: Pile Cap	90	7 1	1	07/04/03A 13/05/03 13/05/03	240403 130503 130503		•	24: 2nd : Bore 8624: 2 8624: 6	rd: Infertace Ionio fest	
CH6321140 CH6321150 CH6321180 ML11: Pier SB CH6324100	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Son to fest 334 Pile Cap S834 PILE CAP: Sheet Pile driving	90	7 1 1	1 1 2	07.04.03A 13.05.03 13.05.03	24/04/03 13/05/03 13/05/03		•	24: Srd : Bore 8 524: S 8 524: E	rd: Intertion Ionio test PLECAP: 8	heet Ale dr
CH6321140 CH6321180 CH6321180 ML11: Pier SB CH6324100 CH6324110	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Son to fest 334: Pile Cap S834: Pile CAP: Sheet Pile driving S834: Pile CAP: Execute & shoring support	90	7 1 1 2 3	1 1 2 3	07.04/03A 13/05/03 13/05/03 14/05/03 16/05/03	240403 130503 130503 130503 150503		•	24: 2rd: Bore 8 624: 3 8 624: 6 8 624 6	rd: Infortace Ionio foct PLECAP: 8 I PILECAP:	heet Alle dr Escavate S
CH6321140 CH6321180 CH6321180 ML11: Pier SB CH6324100 CH6324110 CH6324120	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Son to fest S834: Pile Cap S834: Pile CAP: Sheet Pile driving S834: Pile CAP: Executate & shoring support S834: Pile CAP: Cat Pile head	0 0 0	7 1 1	1 1 2 3	07.04.03A 13.05.03 13.05.03 14.05.03 16.05.03 21.05.03	240403 130503 130503 150503 200503 250503		•	24: 2rd: Bore 8 624: 3 8 624: 6 8 624: 6	rd: Intertace Ionio test PLECAP: 8 I PLECAP:	heet Pile dri Elloa vate S P: Cut Pile
CH6321140 CH6321180 CH6321180 ML11: Pier SB CH6324100 CH6324110 CH6324120 CH6324130	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Son to fest S834: Pile Cap S834: Pile CAP: Sheet Pile driving S834: Pile CAP: Excausite & shoring support S834: Pile CAP: Cat Pile head S834: Pile CAP: Layblinding layer	0 0 0 0	7 1 1 2 3	1 1 2 3	07.04/03A 13/05/03 13/05/03 14/05/03 16/05/03 21/05/03 25/05/03	24.04.03 13.05.03 13.05.03 15.05.03 25.05.03 25.05.03		•	24: 2rd: Bore 8 624: 2 8 624: 6 8 624: 6 8 624: 6	rd: Intertace Ionio tect PLECAP: 8 I PLECAP: SE4 PLECA SE4 PLECA	heet Ale dri Excavate 3 P: Cut Ale P: Layblind
CH6321140 CH6321180 CH6321180 ML11: Pier SB CH6324100 CH6324110 CH6324120 CH6324130 CH6324140	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Son to test S834: Pile Cap S834: Pile CAP: Sheet Pile driving S834: Pile CAP: Excausite & shoring support S834: Pile CAP: Cat Pile head S834: Pile CAP: Layblinding layer S834: Pile CAP: Formwork erection	0 0 0 0 0	7 1 1 2 2 3 5	1 1 2 3 5 1	07.04.03A 13.05.03 13.05.03 14.05.03 16.05.03 21.05.03 25.05.03 27.05.03	24.04.03 13.05.03 13.05.03 15.05.03 25.05.03 25.05.03 27.05.03		•	24: 2rd: Bore 8624: 2 8624: 6 8624: 6 8624: 6 8624: 6 8624: 6 8624: 6 8624: 6	rd: Intertace Ionio test PLECAP: 8 PRIECAP: SE4 PRIECA SE4 PRIECA	heet Ale dri Esca vate S P: Cut Ale P: Lay blind VP: Formwo
CH6321140 CH6321180 CH6321180 ML11: Pier SB CH6324100 CH6324110 CH6324120 CH6324130	S834: 3rd: Bored Pile S834: 3rd: Interface core fest S834: Son to fest S834: Pile Cap S834: Pile CAP: Sheet Pile driving S834: Pile CAP: Excausite & shoring support S834: Pile CAP: Cat Pile head S834: Pile CAP: Layblinding layer	0 0 0 0	7 1 1 2 3	1 1 2 3 5 1 1 1 3	07.04/03A 13/05/03 13/05/03 14/05/03 16/05/03 21/05/03 25/05/03	24.04.03 13.05.03 13.05.03 15.05.03 25.05.03 25.05.03		•	24: 2nd: 80m 8:24: 3 8:24: 5 8:24: 5 8:24: 6 8:24: 6 8:34: 6 8	rd: Intertace Ionio tect PLECAP: 8 I PLECAP: SE4 PLECA SE4 PLECA	heet Ale dri Eroa vafe 2 P: Cut Ale P: Lay blind AP: Formwol AP: Reinfor

T www.ss	T terretors	Tass	l'agraeir'	Segments	** ******	1 2000	* 35	2003
Activity ID	Activity Description	%	Orig Dur	Rem	Early Start	Early Finish	M APE	R MAY JUN JUL
CH6324180	SB34 PILECAP: Backfill		10000 N		03/06/03	05,06,03		NEÇAP: Backtii m
CH632419B	SB34 PILE CAP: Remove the sheet Piles	-			06.06.03	07/06/03		☐ 8524 PILE CAP: Ren
200000000000000000000000000000000000000	34 Column (Type C3/Portal NSB34)	24 2	¥ 3	à.	70 S	,e :	0	-
C H6327 100	SB34: 1stColumn Lift	Т	6	6	15/07/03	21/07/03	1	B ES24: 1ct Column Lift
BRIDGE ML11:	2.75.50 A Hose C. 11 A 11/403							
ML11: Pier SE	Charles and the control of							
Сн6342100	Sheet Pile driving	Т	2	2	21/04/03	22/04/03	88	Bheet Ale driving
CH634211B	Excauste & shorting support	+	_		23,04,03	25,04,03	+	Escavate & choring cupport
CH6342120	CitPile lead		5	5	26/04/03	30,04,03	1	Cut Pile head
CH6342130	Laybiliding tajer		1	1	30,04,03	30,04,03		Lay blinding layer
CH6342140	Formwork e rection	0	,1	1	01/05/03	01/05/03) Formwork erection
CH6342150	Reinbroementifoling		3	3	01/05/03	03/05/03		Reinforcement 1 sing
CH6342160	Final fit: Finwork/Clean & Concrete	0	1	1	040503	04/05/03		Rnal 1 Prowork/Clean & Conore te
CH634217B	Remove Formwork & Wate rproof		2	2	05/05/03	06/05/03		Remove formwork & Waterproof
CH6342180	Backfilli	0	2		07/05/03	08.05.03		() Eack1II
CH6342190	Remove the sheet Piles		2	2	09/05/03	10.05.03		@ Remove the cheet Plies
ML11: Pier SE	35 Column (Type C7/H3B)					STATE OF THE STATE	-	
CH6345100	1stColumn Lift	0	_		11/05/03	16.05.03	₩	1 ctColumn Lift
CH6345110	2nd Column Lift	0	_		17/05/03	22/05/03	4	2nd Calumn Lift
CH6345120	3rd Column Lift	0	_		23/05/03	280503	#-	Brd Column Lift
CH6345125	4th Column Lift		6	6	29/05/03	03,05,03		4th Calumi Lift
011101000100100100	ead on SB35 (Type H3B)	P. 30	- 4	0 05			-	
CH6347100	Erectworking platform & support brackets				05/05/03	09/06/03	-	■ Breatworking platfor
CH6347110	Erectsofft formwork	<u> </u>	5	5		14.06.03		Prest contitum work
CH6347120 CH6347130	ErectSide Panel			5	16/06/03 21/06/03	25,05,03	+	Reintproement1sing
CH634714B	Reinforcement fixing Concreting	"	3		27,06,03	27,06,03	+	Congreting
CH6347150	Remove Side Panel & Cyre Cross lead		28		28/06/03	25/07/03	+	U Canare ing
	paragraphic transfer and the second s		20	. 20	200000	Zordindo		
BRIDGE ML11:								
ML11: Pier SE CH6360170	S636: Pile Cap S836: Pile Cap Remoue formwork & Waterproof	100	2	п	15/04/03A	15.04.03A	a .	E28: Pile Cap Remove formwork & Waterp
CH6360180	SB36: Pile Cap Backfill	1 100	2		21/04/03	22/04/03	₩"	1 8 628: Pile Cap Ranktili
CH6360190	SB35: Remove the sheet Piles	+ =	_		23/04/03	240403	+	O BESS: Remove the cheet Piles
B. 65555 (Sec. 95)	36 Column (Type C3/T3M hollow)	24 2	W -		70 3	100	0	
снежани	SB36: 1stColumn Lift	Т	6	- 6	09/06/03	140603	- ∎	28: 1ctColumn Uff 📺
CH6363110	SB35: 2nd Column Lift	+ -	6		16.06.03	21,06,03	+	8 ES 8 : 2nd Column Lift
CH6363120	S836: 3rd Column Lift	-	6		23/06/03	28.06.03	+	8 ES28 : Srd Column Lift
CH6363122	S836: 4th Column Lift		6		30,06,03	07/07/03	1	8628: 4th Column Lift p
CH6363124	S835: Stá Column Lift		6	6	08/07/03	14,07,03		8628: 5th Column Lift
BRIDGE ML11:	DECK STRUCTURE							
ML11: TTA Imp								
CH6365100	Prepare TTA Drgs (S832 to S834)	T 0	43	43	21/04/03*	02/05/03	1	Prepare ΠΑ Org c (8 ES:
CH636511B	Endorse TTA Drgs by the Eng.	<u> </u>	_		03/06/03	09/06/03	#	Endorce TTA Cracby
CH6365120	Apply traffic adulce/gazette votice from TD	0	14	14	10.05.03	23/06/03	1	Apply fratto ac
CH6365130	Meeting with RMO		3	. 3	240603	26/06/03		Meeting with RMO ()
CH6365140	Receive road works adulce	0	2	2	27/06/03	28.06.03		Becelve road work cad vice []
CH6365150	Preparation for commencement		3	3	29/05/03	01/07/03	Pr	paraton tor commencement o
CH6365160	Implementation of TTA	0	7	7	27/06/03	03/07/03		Implementation of TTA
CONSTRUCT BE	RIDGE ML14	80	S 9		90	SS 3		
BRIDGE ML14:								
ML14: Pier NE							75	
CH669314D	Formworkerection	To	1	1	21/04/03	21/04/03		Formwork ereation
CH6693150	Reinforcement fixing	-	_		21/04/03	23/04/03	1	Reintargement 1 sing
C H669316D	Final fix Formwork/Clean & Concrete		_		240403	240403	1	() Final 1 : Formwork/Clean & Conore te
CH669317B	Remove formwork & Waterproof		2		25/04/03	26/04/03	1	Remove form vark 2. Waterproof
CH6693180	Backfill		2		27/04/03	28/04/03	1	() Esokill
CH669319B	Remove the sheet Piles		2	. 2	29/04/03	30,04,03		Remove the cheet Plies
ML14: Pier NE	337 Column (Type C7)	-88 -	44	· ·	20	to .	20	
CH6696100	1stColume Lift		6	6	01/05/03	06/05/03	1	1 ct Calumn Lift
CH669611B	2nd Column Lift		6	6	07/05/03	120503		2nd Calumn Lift
CH6696120	3rd Colum & Lift	0	6	6	13.05.03	18.05.03		Srd Column Lift
CH6696125	4th Column Lift	0	6	6	19/05/03	240503	-	4th Calumn Lift
							_	

** 18/00/2020	14000000	Toron 1	"Risk mader"	(Samuran)		1 2700	× 33	-20	03:	
Activity ID	Activity Description	%	Orig Dur	Rem	Early Start	Early Finish	M APR	MAY	JUN	JUL
CH6696130	Cat Ladder & B&W Installation		14		25/05/03	07/06/03			Catladd	1
BRIDGE ML14:		-						_		
						-				
ML14: Pier NE	Steet Pile Cap	i a	2	2	020503	03.05.03	-	0 Bheet Ale		
CH6714110	Excausite & shorting support		3		050503	07.05.03	H .		& charing a	
CH671412D	Cut Pile lead		- 4		080503	120503	-	Cut Pil	_	рригс
CH6714130	La/biliding layer			\dashv	120503	120503	+		ding layer	
CH6714140	Formwork e rection				130503	13/05/03	+		ork erection	
CH6714150	Reinforcement/ficing		3	- 3	13/05/03	15,05,03	-		roement1 sin	
CH6714160	Final fix FormworkClean & Concrete		1	1	16/05/03	16,05,03	-		1 a Formwork	-
CH6714170	Remove formwork & Waterproof		2	- 2	-	20.05.03	+		na ve formwar	_
CH6714180	Backfill		2		21/05/03	22/05/03	+		DH 111	
CH6714190	Remove the sheet Piles		2		23/05/03	240503	+		emove the ch	est Blac
	22 (23 (24 (24 (24 (24 (24 (24 (24 (24 (24 (24		_		20,000	2,121,00				
BRIDGE ML14:	PSYNCH PLANT CYTATE									
Participation of the second	B39 Bored Piling				I	T			١	
CH6732110	1st latertace core test		.1		21/04/03	21/04/03	+	1 ct intertace co	-	
CH673215D	2nd: Interface core test		1		22/04/03	22/04/03] 2nd : Intertace o	pre-tect	
CH6732180	Soulc test		1	1	21/04/03	21/04/03		Bonio te ct		
ML14: Pier NE	- Carlotte									
CH6735100	Sheet Pile driving	0	2		26/05/03	27/05/03		_	Bheet Pie dri	
CH6735110	Excausite & shorting support		3		28/05/03	30,05,03	\bot		Escavate &	
CH6735120	CutPile head		3		31/05/03	03/06/03			Cut Pile he	_
Снетэетэв	Laybliding layer	0	1		03/06/03	03/06/03	\perp		0 Lay blindin	
CH6735140	Formwork e rection	0	1	1	05/05/03	05/06/03			0 Formwork	ereation.
CH6735150	Reinforcement fixing	0	3	3	05/05/03	07/06/03			☐ Reinforo	ement1 sing
CH6735160	Final fix Formwork/Clean & Concrete	0	1		09/05/03	D9/05/03			Anal 1:	Form::ork/
CH673517B	Remove formwork & Waterproof	0	2	2	10.05.03	11/05/03	-		[] Remov	a tarmwark
CH6735180	Backfill	0	2	2	120603	13/06/03			() Each1	1
CH6735190	Remove the sheet Piles	0	2	2	140503	16/06/03	R	make the cheet i	alec 🗎	
BRIDGE ML14:	PIER NB40									
ML14: Pier NE	840 Pile Cap		en e	es		124 2	53			
CH6756100	Sheet Pile driving	0	2	2	120503	13/05/03	7	0 Bheet	Pile dri ving	
CH6756110	Excauste & shoring support	0	3	3	14/05/03	160503		■ E103	vate & chorte	a cobboit
CH6756120	CitPile lead	0	5	5	17/05/03	23/05/03		m a	t Pile head	
CH6756130	Laybliding layer	0	.1	1	23/05/03	23/05/03		O ta	y blinding lay	er.
CH6796140	Formwork e rection	0	1	1	240503	240503		I R	гтулск өгөо	ton .
CH6796190	Reinforcement fixing	0	3	3	240503	27/05/03			Reinforcemen	t 1 sing
CH6796160	Final fix Formwork/Clean & Concrete	0	1	1	28/05/03	28/05/03		1	Anal 1: Form	:/ork/Clean
CH679617B	Remoue formwork & Waterproof	0	2	2	29/05/03	30.05.03			Remove for	noárk & Wi
CH6796180	Backfill	0	2	2	31/05/03	020603			Baok till	
CH6796190	Remove the sheet Piles	0	2	2	03/06/03	05/05/03			M Remove 1	he cheet Pl
BRIDGE ML14:	PIER NB41	- S	ë i		e);					
ML14: Pier NE	2000 A 120 A 1					,	9			
CH6777100	Sheet Pile driving	1 0	2	2	17.06.03	18.06.03	1		D She	et Pile dri vi
CH6777110	Excausite & shorting support		3		19.06.03	21,06,03	Eio	vale & choring o		21.00
CH6777120	Cut Pile lead		5		23/06/03	27,06,03	+		_	Cut Alle hea
CH6777130	Laybiliding layer		<u> </u>		27,06,03	27,05,03		Laybiin	ding layer g	
CH6777140	Formwork e rection		1		280603	28.06.03			thereation (
CH6777150	Reinforcement fixing		3		280603	02/07/03	-		mentising p	.
CH6777160	Final fix FormworkClean & Concrete		1		03/07/03	03/07/03	Rnal :	∎ Formwork/Clea	_	
CH6777170	Remove formwork & Waterproof		2		0407/03	05/07/03		maye farmwark		•
CH6777180	Backfill		2		OT/OT/O3	08/07/03	1			() Eachti
CH6777190	Remove the sheet Piles		2		09/07/03	10.07.03		Ramous	he cheet Ale	_
1018-503990.000	N. Salasika, Nr. K		-	ئ				13	2	
BRIDGE ML14:					÷					
ML14: Pier G0		A8 A	0 0	1	<u> </u>	34	80			
	Sheet Pile driuing		2		06.06.03	07.06.03	11-		O Bheet Pl	e dri ving
CH6794100		اه ا	3		09/06/03	11,05,03	Eioava	e & charing cupps		
CH6794110	Excausite & shorting support									
СН6794110 СН6794120	Cittile lead	0	5	5	120503	17,06,03			□ Cut	_
CH6794110 CH6794120 CH6794130	Cittille lead Laybliding layer	0	5 1	1	17/06/03	17,06,03			tayt	_
CH6794110 CH6794120 CH6794130 CH6794140	Cit Pik lead Laybliding layer Formwork erection	0	,1 1	1	17,06,03 18,06,03	17.06.03 18.06.03		Formwork er	Layt Poton	Hie head Hinding laye
CH6794110 CH6794120 CH6794130	Cittille lead Laybliding layer	0	5 1 1 3	1 3	17,06,03 18,06,03	17,06,03		Formwork er Reinfordemen	Layt solon liling	_

Activity	Activity	%	Orig	Rem	Early	Early	1 000	2003 MAY JUN JU
ID	Description	36. 3	Dur	Dur	Start	Finish	M APR	<u> MAY JUN JU</u>
CH679417B	Remove formwork & Waterproof	0	2	2	23/06/03	24/05/03	Remo	e tormwork & Waterproof g
CH6794180	Backfill	0	2	2	250603	260603		[] Baokfill
CH6794190	Remove the sheet Piles		2	2	27/06/03	28/06/03		Remove the cheet Plies g
BRIDGE ML14	: PIER G1(M)							
The secretary responsible to the	1(M) Pile Cap							
CH6819100	Sheet Pile driving		2	2	30,06,03	02/07/03	1 1	Bheet Ale driving on
CH6819110	Excausite & shorting support			_	03/07/03	05/07/03	-	Elipa vate & choring support m
CH6819120	Cut Pile lead			_	07/07/03	11/07/03		Cut Pile head
CH6819130	Laybiliding layer				11/07/03	11/07/03	-	Lay blinding layer in
CH6819140	Formwork erection			<u>'</u>	1207/03	12/07/03	-	Formwork ereation
CH6819150	Reinforcement fixing		_	,	1207/03	15/07/03	-	Reinforcement 1 sing
CH6819160	Final fix FormworkClean & Concrete		_	l i	16/07/03	16/07/03	-	inal 11 Formwork/Clean & Congrete
				'	17,07,03	18,07,03	-	Remove form park 2. Waterproof
CH6819170	Remove formwork & Wate proof		_				-	
CH6819180	Backfill			2	19/07/03	21/07/03		Each 111
CONSTRUCT B	RIDGE H1							
BRIDGE H1: P	IER HO							
H1: Pier H0 F	Pile Cap	-34 -	, and	Sec.				
CH4020180	HD: Backrill		2	2	21/04/03	22/04/03	1) HQ: Baok1II
CH4020190	HD: Remove the sheet Piles				23/04/03	240403		O HD: Remove the cheet Plied
BRIDGE H1: P	VI)	78 2			· -	· 3		
H1: Pier H1 F	10 22 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	T =			L	Lore -	4	
CH4050100	H1: Sheet Pile driving			_	11/07/03	12/07/03	\Box	H1: Bheet Pile driving g
CH4050110	H1: Excausite & shorting support	0			14,07,03	16/07/03	4	H1: Escavate & choring cupport (
CH 4050120	H1: Ort Pile liead	0	5	5	17,07,03	22/07/03		H1: Cut Pile head [
BRIDGE H1: P	IER H2							
H1: Pier H2 B	Bored Piling							
CH4075180	Sould test	0	1	1	21/04/03	21/04/03	1	Bonio te ct
CONSTRUCT B	RIDGE H2	145	45	45	3	Total Control	9	
BRIDGE H2: P						- 3		
H2: Pier H5 B		1500		a ast			4	
CH4220110	1st line nace core test	0			21/04/03	21/04/03		1 st Intertace core te st
CH 4220150	2nd: Interface core fest	0			22/04/03	22/04/03) 2nd : Intertace core test
CH 4220180	Sould test	0	,1	1	21/04/03	21/04/03		Bonio te ct
BRIDGE H2: P	IER H6							
Bridge H2: P	ier H6 Bored Piling			11:				
CH4250110	1st line race core test		1	1	21/04/03	21/04/03	1	1 ct Intertage gare te ct
CH4250140	2nd: Bored Pile		5	5	240403	29/04/03		2nd: Bored Pile
CH 4250150	2nd: Interface core test				17/05/03	17,05,03		2nd: Intertage gare test
CH4250180	Soulo test	0			17,05/03	17/05/03		Bonio te ct
BRIDGE H7: P	A Superior Control of							
There are supplied to the	0.00 A VAL Arrayous					2		
H2: Pier H7 E	MANAGE AND	46 4	6 -	91	2	(A)		
CH 4280100	H7: 1st Bored Pile	0	_	5	30'0''03	06/05/03	-	Han H7: 1 ct Bared Pile
CH4280110	H7: 1st latertace core test	0		1	240503	24/05/03	4	H7 : 1 st Infertable core
CH4280140	H7: 2nd: Bored Pile	0		_	120503	16/05/03		H7: 2nd: Bared Pile
CH 4280150	H7: 2nd: Interface core test	0	_		05/06/03	05/06/03	87 : 2nd :	n tertage gare test (
CH 4280180	H7: Sould test	0	1	1	05/06/03	05/06/03		0 H7: Bania test
BRIDGE H2: P	IER H8							
H2: Pier H8 9	SI Pre-Drilling						1	
CH4305110	H8: Prepare & submittble SI report	50	1	4	22/11/02A	240403	1——	HS: Prepare & cubmit the Bi report
CH 4305120	H8: Approual SI report				25/04/03	02/05/03		H HS: Appro val Bi report
Berto S. Jeron Season	100000000000000000000000000000000000000							
H2: Pier H8 E	H8: 1st Bored Pile		-	-	050503	moseri	4	- un. 4-t n4 m
						28,05,03	-	HS: 1ct Bared Pile
CH4310110	H8: 1st life race core test			<u> </u>	28/05/03	28,05,03	\blacksquare	#8: 1ct Intertage oor
CH4310140	H8: 2nd: Bored Pile	0			15.05.03	21,05,03		HS 2nd: Bored Pile
CH4310150	H8: 2nd interface core test				09/06/03	09/06/03	H2: 2n	infertace core text
CH 4310180	H8: Sould test	0	,1	1	09/06/03	09/06/03		HS: Bonio te ct
BRIDGE H2: P	IER H9S (STAGE 3)							
H2: Pier H9S	Utilities & Services Diversions		6	101	.s.			
CH4365104	H9S: Construct Firemain Thrust Blocks & Backfill		2	2	05/05/03	06/05/03	1	@ HBB: Conclinat Aremain Thrus
H2: Pier H9S	SI Pre-Drilling	.0			·	w r		
CH4370110	H9S: Prepare & submittitle Slireport	1 0	4	4	07.03.03A	240403	<u> </u>	HBB: Prepare & cubmitthe Birepor
2				_ •				г т

**	10.40.10.10	Y 1	·	Commen	100 000000	·	N 28	0000
Activity	Activity	96	Orig	Rem	Early	Early	M APE	2003 R MAY JUN JUL
ID CH4370120	Description H9S: Apprount Streport		Dur 6	Dur	Start 25/04/03	Finish 020503	111	I
1	V				200400	шильны		ш я нев: Аррго vai ві герого
H2: Pier H9S	H9S: 1st Bored Pile	1 0	- 4		080503	120503	4	HBB: 1st Bored Pile
CH4375110	H9S: 1st latertage core test		1	1	30,05,03	30.05.03	╫	NABE: 1 of Intertage gare
CH4375140	H9S: 2nd Bored Pile		- 1	- 4	20.05.03	23/05/03	 . 	HBB: 2nd Bored Pile
CH4375150	H9S: 2nd Interface core test		1	1	11/06/03	11/06/03	HB B: 2	d intertace core to ct
CH4375180	H9S: Sould test	 	1	1	11/06/03	11/06/03	1	HBB: Bonio te ct
	ECK STRUCTURE	-		<i>2</i> 7	W.	8		
H2: TTA Imple							68	
CH4394100	Prepare TTA Drgs (H4 to H5)		43	13	18/07/03*	29.08.03	-11	Prepare ITA Drg c (H4 to H6)
	15.75.75 S16.75 S16.75				IGIBIIBO	2,000		
ONSTRUCT BI	VA. 45 (100 A) (100 A) (100 A)							
BRIDGE ML13:								
	337 TTA Implementation							
CH6564100	S837: Prepare TTA Drgs (S837 Cap)		, 13		21/04/03*	03/05/03	₩	BE27: Prepare ΠΑ Drg c (BE27 Cap
CH6564105	Preparation for commencement		3	3	21/04/03	23/04/03		Preparation for commencement
ML13: Pier SE	37 Bored Piling				<u> </u>		2	
CH6573180	Soulc test		1	1	21/04/03	21/04/03	4	Bonio te ct
ML13: Pier SE	337 Pile Cap	76 T		el	VI	rae	200 200	
CH657611B	Excause & shoring support	0	3	3	22/04/03	240403		Escavate & choring cupport
C H6576120	OrtPile lead .		5	5	25/04/03	300003		Cut Pile head
CH6576130	Layblinding layer	0	1		30/01/03	30/01/03		Layblinding layer
CH657614D	Formworkerection	0	1		02/05/03	02/05/03		Formwork erection
CH6576150	Reinforcement fixing	0	3		02/05/03	05/05/03	₩	Reintprogramment 1 sing
CH6576160	Final fix Formwork/Clean & Concrete	0	1	1	06/05/03	06.05.03	₩	I Rnal 1 ⊫ Formwork/Clean & Conore
CH6576170	Remoue formwork & Waterproof		2		07/05/03	08/05/03	₩	☐ Remove formwork & Waterproof
CH6576180	Backfill		2		09/05/03	10.05.03	₩	0 Baokill
CH657619B	Remove the sheet Piles	0	2	2	12/05/03	13/05/03		@ Remove the cheet Alec
BRIDGE ML13:	PIER SB38							
ML13: Pier SE	338 SI Pre-Drilling							
CH659111B	SB38: Prepare & submittble SI report	0		+	29/01/03A	240403		8 622: Prepare 2. cubmit the 81 report
CH6591120	S838: Approual SI report		6	6	25/04/03	02/05/03		📺 8688: Approval Bi report
ML13: Pier SE	338 Bored Piling							
CH6594100	SB38: 1st Bored Pile	100	5		14/04/03A	17/04/03A		8623: 1ct Bored Pile
CH659411B	S838: 1st line nace core test	0	1	1	17/05/03	17/05/03		8623: 1ct Intertage core te ct
CH659417B	S838: 2nd internace core test	0	1	1	20.05.03	20.05.03		8623: 2nd intertace core te c
CH6594180	S836: Sould test		1	1	30/01/03	30/01/03	Ш_	8 622 : Bania te ct
ML13: Pier SE	338 Pile Cap	100	0. 1		Δ			
C H6597 100	S838: Sheet Pile driving	0	2	2	09/05/03	10.06.03	8 623	Bheet Ple driving g
CH659711B	S838: Excauste & shorting support	0	3	.3	11/06/03	13.06,03		■ 8 E23: Escavate 3
C H6597 120	S838: Citt Pile liead		5	5	14/05/03	19/06/03		8633: Cut Pile head 🖂
C H6597 13ID	S838: Laybiliding layer	0	1	1	19/06/03	19/06/03		BESS: Lay bilinding layer . g
CH659714B	S838: Formwork erection	0	1	1	20,05,03	20,06,03	1	622: Formwork erection (
C H6597 15D	S838: Reinforcement fixing	0	3	3	20,05,03	23/06/03	86	82: Peinturgement 1 sing 📋
C H6597 16D	S838: Flual fit Formwork Clean & Concrete		1	1	240603	240603		8 822 : Anal 1
C H6597 17B	S838: Remoue formwork & Waterproof	0	2	-2	250603	26/06/03		0 8 ESS : Remo
C H6597 180	S838: Backfill		2	2	27,06,03	280603		8 ESS: Backfill g
C H6597 190	S838: Remote the sheet Piles	0	2	2	30,06,03	02/07/03	- 8	23: Remove the cheet Placing
BRIDGE ML13:	PIER SB39							
ML13: Pier SE	339 TTA Implementation							
CH6606105	Preparation for commencement		3	. 3	21/04/03	23/04/03	1	Preparation for commencement
ML13: Pier SE	339 Utilities & Services Diversions	p8 -	H	ev .	20	No.	20	
CH6609120	Remote existing LV cable		5	5	21/04/03	25/04/03	1	Remove estating LV cable
ML13: Pier SE	339 Bored Piling	1. 1.			15-	ed.		
CH6615100	S839: 1st Bored Pile		5	5	27/05/03	31/05/03	1	8 828: 1ct Spred Pile
CH6615110	S839: 1st line riace core test		1	1	19/06/03	19/06/03	8 62	: 1 stintertage gare te st g
CH6615160	S839: 2nd Bored Pile		5	5	02/05/03	07/06/03	1	8 829 : 2nd Bored Pl
CH661517D	S839: 2nd interface core test		1	1	25/06/03	25/06/03	81	28: 2nd Intertace core test g
CH6615180	Sould test		1	1	25/05/03	25/06/03	1	O Bania te cit
ML13: Pier SE	\$\cappa_{\cutoff} \tag{\cutoff}	76 Y	8 3	Al .	4	355	23	
CH6618100	Sheet Pile dribing	1 0	2	2	03/07/03	0407/03	1	Bheet Ale driving g
CH6618110	Excauste & shorting support		3		05/07/03	08/07/03	1	Escavate & choring support
CH6618120	CitPile lead		5		09/07/03	1407/03	1	Cut Pile head
			,	·				

Activity	Activity	%	Orig	Rem	Early	Early	× 25	2003
ID	Description	1882	Dur	Dur	Start	Finish	M APR	R MAY JUN JUL
CH6618130	Layblinding layer		1	1	1407/03	14/07/03		Lay blinding layer
CH6618140	Formwork erection		1	1	15/07/03	15/07/03		Formwork ereation g
CH6618150	Reinforcement fixing		3	-3	15,07,03	17,07,03		Reinforcement 1 sing _
CH6618160	Final fix Formwork/Clean & Concrete	0	.1	1	18,07,03	18,07,03		Anal 1: Formwork/Clean & Conorete
CH661817B	Remove formwork & Waterproof	0	2	2	19/07/03	21/07/03		Remove formwork & Waterproof
BRIDGE ML13:	PIER SB40							
ML13: Pier SB	40 Bored Piling						1	
CH663611B	SB 4D: 1st linterrace core test		1	1	21/04/03	21/04/03	ן ון	8640 : 1 ctimertare core te ct
CH6636130	SB 40: 2nd interface core test		1	1	22/04/03	22/04/03] 8 640 : 2nd intertage gare text
CH6636150	SB 4D: 3rd Interface core test		,1	1	28/04/03	28/04/03		0 8 640 : 2rd Intertace core test
CH6636180	Soulchest		1	1	28/04/03	28/04/03		0 Bonio test
ONSTRUCT BE	RIDGE ML15 - STAGE 3 WORKS							
BRIDGE ML15:	PIER SB41							
	41 TTA Implementation						1	
CH6861100	SB41: Prepare TTA Drgs (SB41CAP)		21	21	21/04/03*	11/05/03	41 -	8 841: Prepare TIA Drg 5 (8 841C
CH6861110	Endorse TTA Diras by the Eng.	+ -	7	7		180503	+	Endorce TTA Org dby the Eng.
CH6861120	Apply traffic adulce/gazette notice from TD		14	<u> </u>	19/05/03	01.06.03	#	Apply fraffic ad vice/gas
CH6861130	Meeting with RMO		3		020603	040603	#	Meeting with RMO
CH686114D	Receive road works adulce	<u> </u>	2		050603	06.06.03	Receive	pad work sad vice o
CH6861150	Preparation for commencement	1 3	3		07/06/03	09/06/03	1	Preparation for com
CH6861160	Implementation of TTA	 	7		05/06/03	11/06/03	#	implementation of I
Company Street, Company	41 Bored Piling					-		
CH6870110	1st life race core test		1	1	21/04/03	21.04.03	41	1 ct intertage gare te ct
CH6870160	2nd: Bored Pile	1 80	5		D9/D4/D3A	23/04/03	#=	2nd: Bored Pile
CH6870170	2nd: Interrace core test		1	1	120503	120503	₩=	0 2nd : Intertage gare to st
CH6870180	Soulc test	 	1	1	120503	120503	+	0 Bonio to ct
	17-1-17-17-17-17-17-17-17-17-17-17-17-17							
ONSTRUCT BE								
BRIDGE ML10:							4	
Comment of the Commen	29 SI Pre-Drilling							
CH61531000	Site Investigation		20	20	21/04/03*	14.05.03	4	Bite investigation
CH6153110	Prepare & submittbe SI report	0	4		15/05/03	20.05.03	#	Prepare & cubmit the Bi repo
CH6153120	Approual SI report		. : 6	6	21/05/03	27/05/03		Appro val 81 report
	29 Bored Piling		71		· · · · · ·	-	4	
CH6156100	1st Bored Pile		5	_	28.05.03	02/06/03	#	1ct Bared Pile
CH6156110	1st lutertace core test		,1		20.05.03	20,05,03	4	1 of Interface core te ct
CH6156120	2nd: Bored Pile		5	_	17.06.03	21,05,03	-	2nd: Bored Pil
CH6156130	2nd: Interface core test	0			10.07.03	10,07,03	#	2nd: Infertace core te ct y
CH615614D	3rd: Bored Pile	0	5	5	ගැගැග	11,07,03	_	Srd: Bored Pile
BRIDGE ML10:	PIER NB30(M)						4 '	
ML10: Pier NE	30 Pile Cap							
CH6180100	Sheet Pile driving	100	2		09/04/03A	15/04/03A		heet Ale driving
CH6180110	Excause & shoring support	100	3	0	16/04/03A	20.04.03A		Espavate & choring support
CH6180120	Cut Pile head		5		21/04/03	25/04/03	-	Cut Pile head
CH6180130	Laybinding tayer		1		25/04/03	25/04/03	-	Lay blinding layer
CH6180140	Formworkerection		,1		25/04/03	25/04/03	#	8 Formwork ereption
CH6180150	Reinforcement fixing		3	_	25/04/03	29/04/03	-	Reinturgement 1 sing
CH6180160	Final fix Formwork/Clean & Concrete	0	1	_	30/01/03	30/01/03	-	Rnal 1 Formwork/Clean & Conore te
CH6180170	Remove formwork & bittim hors print	0	2		02/05/03	03/05/03	4	Remove formwork & bituminous prin
CH6180180	Backfilli	0	2	_	05/05/03	06/05/03		■ Eachtill
CH6180190	Remove the sheet Piles		2	2	07/05/03	08/05/03	#	Remove the cheet Pile c
ML10: Pier NE	30 Column (Type C3 hollow)	17.3		or 98	gwrae egy	Upperson and		
CH6183100	1stColumn Lift	0	6	6	09/05/03	15/05/03		1 ot Calumn Lift
CH6183110	2nd Column Lift		6	6		23/05/03		2nd Calumn Lift
1	3rd Column Lift	0	6		24/05/03	30,05,03	4	2rd Column Lift
CH6183120			6	l 6	31/05/03	07/06/03		4th Calumn Lift
1	4th Column Lift		۰		1.5			
CH6183120 CH6183125					· · · · · ·	V0)		
CH6183120 CH6183125	4th Column Lift		5	li, u av	090603	13/06/03		Erect corking pla
CH6183120 CH6183125 ML10: Crossh	ead on NB30/SB30 (Type H1B(M))	10 1		5	09/06/03 14/06/03	13/05/03 20/05/03		Breat continue plan
CH6183120 CH6183125 ML10: Crossh CH6186100	etti Column Lift ead on NB30/SB30 (Type H1B(M)) Erectworking platform & support brackets		5	5				
СН6183120 СН6183125 ML10: Crossh СН6186100 СН6186110	ett Column Lift ead on NB30/SB30 (Type H1B(M)) Erectworking platform & support brackets Erectsorfft formwork	0	5	5 6	14.06.03	20,06,03		Breat confittorm work
CH6183125 CH6183125 ML10: Crossh CH6186100 CH6186110 CH6186120	eth Column Lift ead on NB30/SB30 (Type H1B(M)) Erectworking platform & supportbrackets Erectsoffftformwork ErectSide Panel	0	5 6	5 6 6	140503 21,0503	20.06.03 27.06.03		Breat Bide Panel

Activity ID	Activity Description	%	Orig Dur	Rem Dur	Early Start	Early Finish	M APE	R MAY	O3 JUN	JUL
CH618617B	Erectworking platform & support brackets	0	5		08/07/03	12/07/03		ring platterm & ca		
CH6186180	Erectsofft formwork	0	6	6	1407/03	19/07/03		Brt	ot contituen:	eri 🚃
BRIDGE ML10:	PIER NB28N:									
ML10: Pier NE	B28N Utilities & Services Diversions						9			
CH6111110	NB28N: Drahage diversion (450)	0	32	32	21/04/03	29/05/03		(care) (care)	N E22 N : Drain	age diver
ML10: Pier NE	B28N SI Pre-Drilling						33			
CH6114100	Site Investigation	0	10	10	30,05,03	11/06/03			Bite in c	e chgation
CH6114110	Prepare & submittue SI report		ŧ	4	120603	16/06/03	Prepare			
CH6114120	Approual SI report		6	6	17.06.03	23/06/03	-	Approval Bi	report	
BRIDGE ML10:	PIER NB28S(M)									
CONTRACTOR SAN	B28S Utilities & Services Diversions									
CH6129100	N 828S: Utilities Detection & Trial Pit	0	4		21.04.03	240403	#	MEZZE B: Utilitie	c Celection 2.	Trial Fit
	B28S SI Pre-Drilling									
CH6132100	Site Investigation	0	10		25.04.03	07/05/03	#	Bite Inve		
CH6132110	Prepare & submittie SI report		2		080503	09/05/03	#		2. cubmit the	81 report
CH6132120	Approual SI report		2	2	10.05.03	1205/03		tr ■ Apprio	al Bi report	
	B28S Bored Piling	T =			mo: ==	meser	-			
CH6135100	1st Bored Pile 1st live risce core fest		5		02/06/03	07.06.03	-	ist infertace	no 1st Bore	d File
CH6135110 CH6135120	2 id: Bored Pile	0	,1 5		25.05.03 21.05.03	25.05.03 26.05.03	+	_	ed Pile	
CH6136130	2nd: Bored Prie 2nd: Interface core test		1	1	15/07/03	15/07/03	+		Intertace core	te ct e
CH613614D	3rd: Bored Pile		5	5	11/07/03	16/07/03	+		3rd: Bored F	-
			Ů	,	Tildillo	Totalias				
ONSTRUCT BI	Contraction in the contraction of the contraction o									
BRIDGE ML9: I							60			
	28 SI Pre-Drilling		40	45	ocoum.	merm	41			
CH5919100 CH5919110	SB28: Site Investigation Pre-drilling	0	10		25.04.03 08.05.03	07.05.03 09.05.03	-	8 6228 : 8	- · ·	
CH591912D	S828: Prepare & submittile SI report S828: Approval SI report		2	2		120503	╫		epare 2. cubi Appro val 8i r	
 		76 7	8 8		TEMBOREO .	12/0/00	2		гррги (ат втт	Phui r
CH5922100	28 Bored Piling S828: 1st Bored Pile		5	5	07/06/03	120603	- _{8.}	22: 1st Bored Pl		
CH5922110	SB28: 1st lutertage core test	- 0	1	1	30.06.03	30,06,03	-	E23: 1ct Interta		
CH5922120	S828: 2nd: Bored Pile		. 5	5	26.06.03	02/07/03	-	-	Sored Pile	
CH5922130	SB25; 2nd; Interface core test	0	1	1	19/07/03	19/07/03	#	8 628 : 2nd	: Intertace co	e te ct
CH5922140	S828: 3rd; Bored Pile	0	.5	5	16,07,03	21/07/03	1	86	2: Srd: Borec	Pile 📋
BRIDGE ML9: I	PIER SB29									
ML9: Pier SB2	29 Utilities & Services Diversions				-					
CH5934100	SB29: Utilities Detection & Trial Pit	0	ŧ	. 4	25,04,03	29/04/03	1	B 828 : Utiliti	s Detection S	Trial Fit
ML9: Pier SB2	29 SI Pre-Drilling	-4	м		55	No.				
C H5937 100	Site Investigation	0	10	10	30,04,03	120503	٦.	Bite in	ve chgation	
CH5937110	Prepare & submittue Si report	0	2	2	13/05/03	14/05/03	1	В Регера	re & cubmitt	e 81 repor
CH5937120	Approual SI report	0	2	2	15/05/03	16/05/03		O Appr	oval Bi repor	<u> </u>
ML9: Pier SB2	29 Bored Piling						100			
CH5940100	1st Bored Pile		5	5	120603	17/06/03	1		1 ot	Bored Pile
CH5940110	1st line made core test	0	1	1	05/07/03	05/07/03			tace core te c	-
CH5940120	2nd: Bored Pile	0	5	5	02/07/03	07.07.03		200	: Bored Pile	
BRIDGE ML9: I	PIER SB30 (M)	58 78 7				7.7				
ML9: Pier SB3	30 Column (Type C3 hollow)						20			
CH596411B	2nd Column Lift	100	6		03/04/03A	17/04/03A		end Calumn Lift		
CH596412D	3rd Column Lift	60	. 6	3		23/04/03		2nd Column Lif		
CH5964125	4th Colema Lift	0	6	6	240403	300003		4th Calumn	lift	
ONSTRUCT BI	RIDGE EC						4.			
BRIDGE EC: P	IER E20									
	TTA Implementation	100	e.	0:1	.v.	139	80			
CH1345100	Prepare TTA Drgs (Drahage & EZDCap)	0	21	21	21/04/03*	11/05/03	1	Prepan	ΠΑ Drais (Dr	alnage & I
CH1345110	Endorse TTA Drgs by the Eng.	0		7	12/05/03	18/05/03	1		orce ITA Drg c	
CH1345120	Apply traffic adulce/gazette votice from TD	0	14	14	19.05.03	01/06/03			Apply traffic	ad vlos/ga
CH1345130	Meeting with RMO	0	3	3	02/06/03	040603			⊞ Meeting ⇔t	h RMO
CH1345140	Receive road works adulce	0	2	2	05/06/03	06/06/03	Receive	coad work clad viol	0	
CH1345150	Preparation for commencement	0	3	3	07/06/03	09/06/03			☐ Prepara	ton tor oor
CH1345160	Implementation of TTA		-		05/05/03	11/06/03			- Inneles	entation of

Activity	Activity	%	Orig	Rem	Early	Early	T vee	2003
ID	Description	Also A	Dur	Dur	Start	Finish	M APE	R MAY JUN JUL
EC: Pier E20	Utilities & Services Diversions				10 - 0000000 -	*1 - 2001 (1001 (
CH1348100	Utilities detection & trial pit excauation		4	4	120503	16/06/03	٦.	□ Utilite s de teati
CH1348110	Diralhage disersion (450)	0	30	30	17/06/03	22/07/03	1	alnage diversion (460)
CH1348120	(Matermali diversion (1505.V)		30	30	17,06,03	22/07/03	Water	ain diversion (160 8.V)
BRIDGE EC: AL	BUTMENT E (E21(M)A)							
	E TTA Implementation							
CH1366100	Prepare TTA Drgs (Draikage & E21 Cap)		21	21	21/04/03	11/05/03	600	Prepare TTA Drg s (Drainage & I
CH136611B	Endorse TTA Drgs by the Eng.		7	7	120503	18/05/03	+	Endonce TTA Org dby the En
CH1366120	Apply traffic adulce/gazette notice from TD		14		190503	01/06/03	+	Apply fraffig ad vice/pa
CH1366130	Meeting with RMO		3		020603	040603	#	■ Meeting with RMO
CH136614D	Receibe road works adulce		2		050603	06.06.03	Regelve	pad work dad vide o
CH1366150	Preparation for commencement		3		07.06.03	09/06/03	-	☐ Preparation for our
CH1366160	Implementation of TTA		7		05.06.03	11/06/03	#	Implementation of
2000 11 05 05	E Utilities & Services Diversions	4 3			2/3	(8)		
CH1369100	Utilities detection & trial pit excausition				120603	160603	-11	utilite's defeati
CH136911B	Dirahage ditersion (45D)		30	- 30	17,06,03	22/07/03	₩.,	ainage diversion (460)
			3U	JU.	III/DS/D3	2201703	<u> </u>	amage dropt dum (440)
	L ROAD WORKS						100	
BRIDGE G1: PI	IER G3 - STAGE 1A							
Pier G3 Utiliti	es, Services & Roadworks	755 7		y	20	100	20	
CH6040150	G3: Road Relistatment for Lane Opening	0	ŧ	ŧ	22/04/03	25/04/03	1	CC: Road Rein datment for Lane Openi
REALIGNMENT	OF HING WAH STREET W. E/B (HWW E/B)							
HWW E/B: TT								
CH8400170	Prepare TTA Drg (for gellypipe)		44	44	21/04/03	03/06/03	82	Prepare TIA Drg (for
CH8400180	Endorse TTA Drgs by the Eng.		7		040603	10.06.03	#	■ Endorce ΠA Drog o
CH8400190	Apply traffic adulce/gazette notice from TD		14	14	11/06/03	240603	#	Apply taffo
СНВ400200	Meeting with RMO		3		250603	27/06/03	#	Meeting with RMO 🖂
CH8400210	Receibe road works adulce		2		28.06.03	29.06.03	1	Regel ve road work clad vice in
CH8400220	Preparation for commencement		3		30,06,03	02/07/03	P	paration for commencement
CH8400230	Implementation of TTA	0	7	7	28/06/03	0407/03	#	Implementation of TTA
CH8400240	Prepare TTA Drg (for cross road cable)		43	43	21/04/03	020603	#	Prepare TIA Drg (for o
CH8400250	Endorse TTA Drgs by the Eng.		7	7	03/06/03	09/06/03	#	■ Endoræ πA Org s
CH8400260	Apply traffic adulce/gazette notice from TD		14	16	10.06.03	230603	#	Apply fraffic
CH8400270	Meeting with RMO	0	Э	3	2406/03	260603	#	Meeting (4th RMO m
CH8400280	Receilue road works adulce	0	2	2	27/06/03	28.06.03	#	Receive road work dad vice 0
CH8400290	Preparation for commencement	0	3	3	29.06.03	01/07/03	Pr	paration for commencement in
СН8400300	Implementation of TTA	0	7	7	27/06/03	D3/07/03	1	Implementation of TTA
HWW E/B: HV	/ Power Supply Civil Provision							
CH8420100	4x11KV cable Installation	0	36	35	0407.03	13/08/03	1	4 i 1 HV cable in stallation
CH8420110	extV cable installation		36		0407.03	13/08/03	#	4 stV cable in stallation
HWW E/B: W	eter Mains	1. " 1.		.1	17-			
CH8430100	installation of proposed 2500 HWM	15	50	ஏ	19/02/03A	20.06.03	ــــــــــــــــــــــــــــــــــــــ	in challation of
CH8430110	Pressure & sample test	10	14		21/06/03	08/07/03		Pre-coure & cample te ct
CH8430120	Connection to existing		- 1		09/07/03	12/07/03	-	Connection to existing
The second secon	THE STREET STREE					1.23,100	1	
	lecommunications Civil Provision	75. 7		y	1006672	nser en	سير ا	nt NTC dunden Houselt
CH8440100	Construct NTTC dicting/drawpit		14		19.06.03	05.07.03	Can can	ot #ITC duoting/drawpit
CH8440110	Construct CATV dicting/drawpit	O	14	14	ගැගැය	22/07/03	23	Someware Court and angula Chit
11.100.100.100.100.100.100.100.100.100.	SS Civil Provision	-			1		-	
CH8455100	Construct TCSS ducting/drawpit	0	20	20	25/05/03	18/06/03		Con druot TCB
HWW E/B: Sti	reet Lighting						×20	
CH8450100	Construct street light ducting/drawpit	0	14	. 14	080503	240503		Construct streetlightdus
HWW E/B: Ro	oad Signs, Markings & Bollards	784 7	i .	y		Tip:	20	
CH8465100	Sign board foundation construction	0	30	30	28/05/03	03/07/03	1	Bign bo
CH8465110	Sign board steel frame erection	0	7	7	0407.03	11/07/03		ign board cleel tame erection
REALIGNMENT	OF HING WAH STREET W. W/B (HWW W/B)					707		
HWW W/B: T							2.	
CH8500170	Prepare TTA Drg		43	43	21/04/03*	02/06/03	1	Prepare TIA Drg
CH8500180	Endorse TTA Drgs by the Eng.		7		030603	09/06/03	1	Bidor ce TTA Drg c
CH8500190	Apply traffic adulce/gazette notice from TD		14		10.06.03	23,06,03	1	Apply traffic
СН8800200	Meeting with RMO		3		240603	260603	+	Meeting with RMO m
CH8500210	Receive road works adulce		2		27.06.03	28/06/03	+	Receive road work dad vice D
CH8800220	Preparation for commencement		3		290603	01/07/03	Pr	paration for commencement
CH8800230	Implementation of TTA		7		27/06/03	03/07/03	 ''	Implementation of TTA
	Indiana and an inter-		'			and the		

Activity	Activity	%	Orig	Rem	Early	Early	T 222	2003
ID	Description	1909/	Dur	Dur	Start	Finish	M APR	MAY JUN JUL
HWW W/B: 0)rainage	10 11			0 - 0000000-	** * - 2004***********************************		
CH8515115	Manhole construction		30	30	21/04/03	27/05/03	1	Vanhole con chucton
CH8515120	Excauation & getly pipe Installation	0	40	40	15.05.03	03/07/03		E E E E E E E E E E E E E E E E E E E
C H8515130	Girliypit his taltation	0	30	30	10.06.03	15/07/03		Guily pitin claifation
HWW W/B: H	IV Power Supply Civil Provision						200	
CH8520140	4x11KV cable Installation		35	35	21/04/03	02/06/03	7	4 a 1 1kV pable in chila
CH8520150	4xLV cable installation		35	35	21/04/03	02/06/03	1	4 i LV pable in dalla to
HWW W/B· T	elecommunications Civil Provision				>	100		
CH8540220	Construct NTTC dicting/drampit	1 0	14	14	080503	240503	-	Concinuet NTIC due ling/o
CH8540230	Construct CATV ducting/drawpit		14	14	260503	11/06/03		Conchust CATV
CH8540240	Construct HKTC dueting & drawpit		14	14	120603	27/06/03	#	Construct
CH8540250	Construct HCL ducting/drawpit		14	14	28/06/03	15/07/03	α	n struct HCL ducting/drawpit
HWWW W/B: S	Street Lighting	- to 10		15	>			
С назави	Construct street light ducting/drampit	1 0	14	14	21/04/03	07/05/03	-	Construct streetlightquoting/dr
CHHIGH110	Relocation of switch room U/W2		30		05.05.03	10.06.03	-	Relocation of cut
CHHIGH120	Remove KHW-330 at Lai Po Rd Silp 2		21		15/05/03	10.06.03	-	Roma ve KHM-880
	SOS ES DICTORIO SERVICIO CALLETTORIO SOLUTIVO CAL						-	15may names
HWWW W/B: N CH8555270	Road Carriageway Works Backfill	1 01	5	اء	16/07/03	21,07,03	80	Eaph1II _
3	AL.	"	٥	٥	IONII ALIJ	ZIAIIAD		Edun sil .
	Road Signs, Markings & Bollards	11		1 100000		la ese		
C H8565350	Sign board foundation construction		30	$\overline{}$	21/04/03	27,05,03	-	Bign board toundation o
C H8565360	Sign board steel frame erection		7	7.	28.05.03	05/06/03		Bign board cleel fra
REALIGNMENT	T OF HING WAH SLIP1 (HWS1)							
HW\$1: TTA's	A S						88	
СН870001000	Prepare TTA Drg	0	43	63	21/04/03*	02/06/03		Prepare TA Drg
CH87000110	Endorse TTA Digs by the Eng.		7	7	03/05/03	09/06/03		Endoræ ΠΑ Drg o
CH87000120	Apply traffic adulce/gazette votice from TD	0	14	14	10.06.03	23/06/03		Apply traffic
CH8700130	Meeting with RMO		3	.3	240503	26/06/03		Meeting with RMO g
CH8700140	Receive road works adulce	0	2	2	27/05/03	28/06/03		Receive road work dad vice [
CH8700150	Preparation for commencement		3	3	29.05.03	01/07/03	Pr	paration for commencement ()
CH8700160	Implementation of TTA	0	7	7	27/05/03	03/07/03		implementation of TTA
REALIGNMENT	FOF HING WAH SLIP2 (HWS2)	- X- X	9	37 3	E.	E ⁵ .		
HWS2: TTA's			73				15	
CH8800105	Preparation for commencement	1 0	3	3	21/04/03	23/04/03	1	Preparation for commencement
CH8800110	Prepare TTA Drg	1 -	43		21/04/03*	02/06/03		Prepare TIA Org
CH8800120	Endorse TTA Drgs by the Eng.		7		03.06.03	09/06/03	1	■ Endoræ ∏A Drg o
CH8800130	Apply traffic adulce/gazette notice from TD		14		10.06.03	23/06/03		Apply traffic
CH8800140	Meeting with RMO		3		240603	26/06/03		Meeting (4th RMO (
CH8800150	Receive road works adulce		2		27.06.03	28/06/03		Receive road works advice in
CH8800160	Preparation for commencement	 	3	-	29.06.03	01/07/03	Pr	paration for commencement m
79	3947		7		·	100		1
HWS2: Drain CH8815100	Manhok construction	T of	30	an l	13/05/03	180603	-	Manhole con s
							+	Manhole con c
CH8815110 CH8815120	Excustion & guily pipe Installation Cultivoit les failation		40 30		07/06/03 02/07/03	24/07/03 05/08/03	-	Guily pitin dallation
No. and National Assessment	Gullypit installation		Ju	Ju	LIZALI ALIS	пололо		Guny pittin dana lun
HWS2: Water		48 4				Lance -	80	
CH8830100	Installation of proposed 19001	<u> </u>	15		240403	12/05/03	-	in deliation of proposed 160 Ci
CH8830110	Pressure & sample test	<u> </u>	14		13,05,03	29/05/03	-	Pre soure & cample to
CH8830120	Connection to existing		4	4	30,05,03	03/06/03	-	Canneation to exict
	COLLEGE AND ADDRESS OF THE PARTY OF THE PART						10.5 m	
HWS2: Street	Lighting		_			29/05/03	H	Con chuat cheetiighta
HWS2: Street	Constructs treet light ducting Air ampit		14	14	13.05.03	2465465		
HWS2: Street Сн 8840140			14	14	13.05.03	ZMBMD	00	
HWS2: Street ८ मळक्ष्याक्य HWS2: Road	Constructs treet light drotting/drawpit		14 30		13/05/03 30/05/03	05/07/03	5/3	
HWS2: Street CH8840140 HWS2: Road CH3885100	Constructstreet light dicting/drawpit Signs, Markings & Bollands	48 49	. H.	30	·	186	NG	
HWS2: Street CH8840140 HWS2: Road CH3885100 CH3885110	Constructstreet light ducting drawpit Signs , Markings & Bollands Sign board foundation construction Sign board steel frame erection		30	30	30,05,03	05/07/03		Bign b
HWS2: Street CH8840140 HWS2: Road CH3885100 CH3885110 CH3885110	Constructstreet light ducting drawpit Signs , Markings & Bollands Sign board foundation construction Sign board steel frame erection		30	30	30,05,03	05/07/03		Bign b
HWS2: Street CH8840140 HWS2: Road CH3865100 CH3865110 REALIGNED S 3005	Constructstreet light dicting/drampit Signs , Markings & Bollands Sign board for idation construction Sign board steel frame erection LIP 3 (\$3) a		30	30 7	30,05,03 07,07,03	05/07/03 14/07/03		Bign board cheel frame erection
HWS2: Street CH3840140 HWS2: Road CH3865100 CH3865110 REALIGNED S 3005 CHHIGH130	Constructstreet light ducting drawpit Signs , Markings & Bollands Sign board foundation construction Sign board steel frame erection		30	30 7	30,05,03	05/07/03		Bign board cheel frame erection
HWS2: Street CH3840140 HWS2: Road CH3865100 CH3865110 REALIGNED S 3005 CHHIGH130 S3: TTA's	Constructstreet light ducting/drawpit Signs , Markings & Bollands Sign board for idation construction Sign board steel frame erection LIP 3 (S3) UCR (G2): Remove KHW-331 at Hing Wai Slip 3		30 7 21	30 7 21	30,05,03 07,07,03 15,05,03	05:07:03 14:07:03 10:05:03		Bign board cleel trame erection LCR(G4): Remov
HWS2: Street CH3840140 HWS2: Road CH3865100 CH3865110 (EALIGNED S 3005 CHHIGH130 S3: TTA's CH8900120	Constructstreet light ducting/drawpit Signs , Markings & Bollands Sign board for idation construction Sign board steel frame erection LIP 3 (S3) LCR (G2): Remove IAHM-331 at Hing Wah Slip 3 Apply traffic adulos/gazette notice from TD		30 7 21	30 7 21	30,05,03 07,07,03 15,05,03 27,03,02A	05:07:03 14:07:03 10:06:03		Bign board cleel trame erection LCR (CQ): Remov
HWS2: Street CH8840140 HWS2: Road CH3866100 CH3866110 REALIGNED S 3005 CHHIGH130 S3: TTA's CH8800120 CH8900130	Constructstreet light ducting Atrawpit Signs , Markings & Bollands Sign board for idation construction Sign board steel frame erection LIP 3 (S3) LCR (G2): Remove KHM-331 at Hing Wah Silp 3 Apply traffic adulte/gazette notice from TD Meeting with RMO		30 7 21 14 3	30 7 21 14 3	30,05,03 07,07,03 15,05,03 27,03,02A 05,05,03	10.05.03 14.07.03 10.05.03 04.05.03		Bign board cheef frame erection LOR (SQ): Remove Apply traffic advice/gazette notice
HWS2: Street CH8840140 HWS2: Road CH3865100 CH3865110 REALIGNED S 3005 CHHIGH130 S3: TTA's CH8800120 CH8800130 CH8800140	Constructstreet light ducting Atrawpit Signs , Markings & Bollands Sign board for dation construction Sign board steel frame erection LIP 3 (S3) LCR (G2): Remove IAHM-331 at Hing Wah Slip 3 Apply traffic adulte/gazette notice from TD Meeting with RIMO Receive road works adulte		30 7 21 14 3	30 7 21 14 3	30,05,03 07,07,03 15,05,03 27,03,02A 05,05,03 08,05,03	05/07/03 14/07/03 10/05/03 04/05/03 07/05/03 08/05/03		Apply traffic ad vice/ga zette notice Meeting with FMO Receive road work cap vice
HWS2: Street CH8840140 HWS2: Road CH3865100 CH3865110 REALIGNED S 3005 CHHIGH130 S3: TTA's CH8800120 CH8800130	Constructstreet light ducting Atrawpit Signs , Markings & Bollands Sign board for idation construction Sign board steel frame erection LIP 3 (S3) LCR (G2): Remove KHM-331 at Hing Wah Silp 3 Apply traffic adulte/gazette notice from TD Meeting with RMO		30 7 21 14 3	30 7 21 14 3 2	30,05,03 07,07,03 15,05,03 27,03,02A 05,05,03	10.05.03 14.07.03 10.05.03 04.05.03		Bign board cheef frame erection LOR (SQ): Remove Apply traffic ad vice/gazette notice

Activity	Activity	%	Orig	Rem	Early	Early	Y 75	2003
ID	Description	, ru	Dur	Dur	Start	Finish	M APR	NAY JUN JUL
S3: HV Power	Supply Civil Provision	A9 A	e e	:	s:	40 - 400 - 400 - 400 - 400 585		
CH8920100	kxLV cable installation		60	60	15/05/03	26/07/03	1	0.0
S3: Street Lig	phting	100 1		· · · · · · · · · · · · · · · · · · ·	Zamani saka	100 (100 (100 (100 (100 (100 (100 (100		
СИНІСН160	Relocation of switch room (U/W1)	0	30	30	05/05/03	10.06.03]	Relocation of cylich
STAGE 1A: REA	LIGNMENT OF LIN CHEUNG ROAD (LCR)							
LCR TTA Phas	se 3: 2nd Fast Lane Closure						9	
CH3007117	LCR TTA PIG: Stage 1A Works Complete	0	0			27/05/03]	♦ LCR πA PhS: Stage 1A V
СН30007118	LCR TTA Ph3: Ditration of Phase 3 TTA	8	2021	301	17/09/02A	27/05/03	-	LCR TTA PhS: Duration of
LCR TTA Phas	se 4: Slow Lane Closure at H9S	46 4	8 8		33	38	57 575	
CH3008104	LCR TTA Ph 4: Meeting with RMO		3	3	27/ 09/0 2A	23/04/03		LCRITA Ph4: Meeting with RMO
CH3008106	LC R TTA Ph4: Receive road works adulce	0	3	3	240403	26/04/03		CRITA Ph4: Receive road work cadv
CH30038108	LCR TTA PN4: Preparation for TTA Phase 4	0	5		27/04/03	01/05/03		LORITA Ph4: Preparation for ITA Ph
CH3008110	LCR TTA PN4: Implementation of TTA		2		020503	03/05/03	4	☐ LCRΠA Pt 4: Implementation of ΠΑ
CH3008111	LCR TTA Ph & Works Complete		0	<u></u>		07/05/03		♦ LCR TTA Ph4 Works dample to
CH3008112	LC R TTA PN4: Direction of Phase 4 TTA		5"	5*	020503	07/05/03		LCR ΠΑ Ph4: Duration of Phace 4
2-1-10-10-10-10-10-10-10-10-10-10-10-10-1	se 5: 3rd Slow Lane Closure						41 !	
CH3009104	LCR TTA PIS: Meeting with RMO		3		27/09/02A	23/04/03		LCRITA Ph6: Meeting with RMO
CH3009106	LCR TTA PNS: Receive road works adulte		7		240403	30,04,03		LOR TIA Phá: Receive road work cad
CH3009108	LCR TTA PNS: Preparation for TTA Phase 5		3		01.05.03 28.05.03	03/05/03		I LOR ΠΑ Pi6: Preparation for ΠΑ Pi I LOR ΠΑ Pi6: Preparation for ΠΑ Pi
CH3009110 CH3009112	LCR TTA PhS: Implementation of TTA LCR TTA PhS: Digration of Phase S TTA		2 53*		280503 280503	29.05.03	-	■ LOR TTA Ph6 Implement
	275.1259.2379.0379.250.200.200.200		23	33	2010/103	30/01/03	-	() () () () () () () () () ()
garage construction.	ties, Services & Roadworks	1 5	- 1	-	mou m	moumi	4 - 1	l
CH3005130 CH3005140	LCR (G2): Excausition for Retaining Wall Footing		1		28/04/03 29/04/03	28,04,03	+	I LCR (32): Esba vation for Retaining W LCR (32): Lay Retaining Wall Blinding
CH3005150	LCR (G2): Lay Retaining Wall Billiding Concrete LCR (G2): Rebar Restaining Wall Foother Foothing			_	30,0403	30,04,03	╫─	LCR (G2): Rebar Reafaining Wall Foot
CH3005160	LCR (G2): Formwork for footbig				020503	020503	-	LCR (G2): Formwork for fooling
CH3005170	LCR (G2):Concreting		1		03/05/03	03/05/03	+	LCR(G2): Congreting
CH3005180	LCR (G2): Formwork for retailing wall		1		05/05/03	05/05/03	+	© LCR (G2): Formwork for refaining or
CH3005190	LCR (G2): Relinforcement for retaining wall		1		06.05.03	06/05/03	-	LCR (G2): Reintbroement for retain
снашеги	LCR (G2): Final Fixing for Retaining Wall		2	2	07/05/03	08/05/03		■ LCR (G2): Anal Raing for Refainin
CH3005210	LCR (G2): Concrete Retaining (Mail		.1	1	09/05/03	09/05/03	#	LCR (G2): Congrete Retaining Wal
C H3005220	LCR (G2): Remove formwork & Waterproof		2	2	10.05.03	12/05/03	1	■ LCR (GQ): Remove formwork & 4
С Н 3005230	LC R (G2): Backfill	0	1	1	13/05/03	13/05/03		I LCR (CZ): Baokfill
C H3005240	LCR (G2): Install deflector barrier	100	8	0	10/04/03A	16/04/03A	-	CR (32): In ciall deflector barrier
Pier H9N Utili	ities, Services & Roadworks						3	
CH 4332180	LCR (H9N): Formwork for retaining wall	100	3	0	15/04/03A	17/04/03A	1 ∎'	CR (HBN): Formwork for retaining wall
CH4332190	LCR (H9N): Reinforcement for retaining wall	100	2	0	18/04/03A	19/04/03A	1	LCR (HBM): Reinforcement for retaining wa
CH4332200	LCR (H9N): final fixing for retaining wall	100	2	0	19/04/03A	19/04/03A		LOR (HBM): final fising for refaining wall
CH 4332210	LCR (H9N):Concretting	100	1	0	2000.03A	20/04/03A	4	LCR (HBM): Congreting
CH4332220	LCR (H9N):Strike Formwork & Waterproof		2		21/04/03	22/04/03		LCR(HBN): Birthe Formwork & Waterpro
CH4332230	LC R (H9N): Backfill		1		23/04/03	23/04/03		I LCR (HBN): Backfill
CH4332250	LC R (H9N): Road Relistatment for Lake Opening		6		240403	29/04/03		LOR (HBM): Road Rein datment for Lan
CH4332280	Remoual of Temporary Hoarding		4		21/04/03	240403	-	Removal of Temporary Hoarding
CREESUNGISTING TAB	ilities, Services & Roadworks	1 1				lune: —:	4	
CH6885180	LCR (SB42): Reinforcement for retaining wall	100	.1		15/04/03A	16/04/03A	-	CR (8 B42): Reinforcement for retaining wa
CH6885190	LCR (SB42): that fixing for retaining wall	100	2		17/04/03A	18/04/03A	₩-	LOR (8 842): final fising for retaining wall
CH6888200	LCR (SB42): Concreting	100	1		19/04/03A	19/04/03A	₩"	LCR (8 B42): Concreting
C H6885210	LCR (SB42): Strike Formwork & Waterproof LCR (SB42): Backfill		2		23,04,03	24,04,03	-	LICR (8 B42): Birthe Formwork & Waterp
CH6888220	WO TO TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE		.1	1	25.04.03	25,04,03	-	LCR (8 B42): Backfill
	ilities, Services & Roadworks	48 4			anaver.	me.c.		
CH6999130	LCR (NB42): Excausition for retaining storting		- 1		28/04/03 29/04/03	28,04,03		I LCR (NB42): Escavation tir retaining
CH699914D CH699915D	LCR (NB k2): Laying billeding concrete LCR (NB k2): Rebarrior stoding		1		290403 300403	29.04.03 30.04.03	#	I LCR (NB42): Laying blinding concrete LCR (NB42): Rebar for footing
C H699916D	LCR (NB42): Formwork for tooting				020503	02/05/03	-	LCR (MB42): Remarks to tooling
CH6999170	LCR (NB42): Concreting				030503	D3/05/03	#	I LCR (NB42): Congreting
CH699918D	LCR (NB42): Formwork for retaining wall				050503	05/05/03	1	I LOR (# B42): Formwork for refaining
C H6999190	LCR (NB42): Reinforcement for retaining wall		1		060603	06/05/03	1	LCR (MB42): Reinforcement for ref
C H6999200	LCR (NB42): that titing for retaining wall		2		07/05/03	08/05/03	1	□ LCR (NB42): final fising for refaint
					09/05/03	09/05/03	1	LCR (NB42): Canarating
CH6999210	[LCM (NB42):Concreting		11					
	LCR (NB k2): Concreting LCR (NB k2): Strike Formwork & Waterproof		2		10.05.03	12/05/03	+	
C H6999210			1 2			_		LOR (NB42): Birthe Formwork & LOR (NB42): Back10

Activity	Activity	%	Orig	Rem	Early	Early	2003 M APR MAY JUN JUL
ID	Description	A8 A	Dur	Dur	Start	Finish	M APR MAY JUN JUL
Pier G3, Utili	ties, Services & Roadworks			A.C D		120	
С Н 70000160	LCR (G3): Reinforcement for retaining wall	0	1	1	03.05.03	03/05/03	0 LCR (GS): Reintbroement for retain
CH7000170	LCR (G3): thrat titing for retaining wall	0	2	2	050503	06/05/03	@ LCR (GS): final fising for refaining
C H70000180	LCR (G3):Coloreting	0	1	1	07/05/03	07/05/03	[LCR(G8); Congreting
CH7000190	LCR (G3): Strike Formwork & Waterproof	0	2	2	08.05.03	09/05/03	[] LCR (GS): Birthe Formwork & V
СН70000200	LCR (G3): Backfill	0	1	1	10.05.03	10.05.03	[] LCR (GS): Bankfill
LCR: Stage 1	A Sub-surface Drainage				· · · · · · · · · · · · · · · · · · ·	NO E	
CH9115100	LC R Slow Lane: Construct III H's 10.17-19	30	15	15	09/04/03A	17/06/03	LOR Blow Lan
CH9115110	LC R Slow Lane: Excauste & Lay Girlly Pipe	30	10	10	09/04/03A	23/06/03	LOR Blow L
CH9115120	LCR Slow Lane: Install Girlly Traps	0	8	8	20,06,03	28.06.03	CR Blov Lane: In dall Gully Traps
CH9115121	LCR Slow Lane: Realign U-channel in Verge	0	8	8	30,05,03	09/06/03	LOR Blog Lane : F
CH9155100	LC R Slow Lane: Backfill	0	5	5	30,06,03	05/07/03	LOR Blow Lane: Baokfill
CH9155101	LCR Fast Lane: Construct MH's 10.16/18/20	0		4	14/05/03	17.05.03	■ LCR Fact Lane : Con chuot N
LCR: Street I	Lighting	_					
CHHIGH140	LCR Slow Lane Side: Install KH NI-325R	80	14	14	16/04/03A	16/06/03	LOR Blow Land
CHHIGH141	LCR Slow Lane: Construct PL Draw Pits & Ducts	0	7	7	09/05/03	16/06/03	LOR Blow Land
CHHIGH142	LCR Slow Lane: Slew PL/H III Cables to Re-alignment	0	5	5	17.06.03	21/06/03	E LOR Blow La
СИНЮ Н150	LC R Slow Lane Side: Remove KH M-325	0	2	2	23/05/03*	240603	D LCR Blow
СИНІСН193	LCR Slow Lane Verge: Reinstate Street Lighting	0	3	3	05/05/03	07.05.03	☐ LCR Blov Lane Verge: Rein dat
LCR: Road 0	Carriageway Works	A80 A	6 4	W1	.X	139	87
CH9155110	LC R Slow Lane: Road Kerb Laying	0	8	8	07.07.03	15/07/03	LeR Blow Lane: Road Kerb Laying
CH9155130	LCR Slow Lane: Backfill Compaction & Sub-base	0	3	3	16,07,03	18/07/03	
CH9155140	LCR Slow Lane: 8 fbm hous Pauling	0	7	7	19/07/03	26/07/03	LOR Blow Lane: Situminous Paving
CH9155155	LCR Fast Lane: Road Kerb Laying	0	,4	- 4	140503	17,05,03	■ LCR FactLane: Road Kerb
CH9155156	LCR Fast Lane: Backfill Compaction & Sub-base	0	2	2	20,05,03	21/05/03	■ LCR Fact Lane: Backfill C
CH9155157	LCR Fast Lane: Bithminous Paulog	0	3	3	22/05/03	240503	■ LCR Fact Lane : Bitumino
CH9155158	LCR Fast Lane: Road Markings		2	2	26/05/03	27/05/03	■ LCR Fact Lane: Road W

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/m³)
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 29th March to 28th April 2003

Environmental Monitoring Schedule between 29-March and 28-April 2003

Sur	nday	Monda	y	Tuesda	ay	Wednes	day	Thurso	lay	Friday		Saturday	
												1hr-TSP	29-Mar
Noise _{PH}	30-Mar		31-Mar		1-Apr	Noise _{Evening}	2-Apr	24hrs-TSP		1hr-TSP Noise	4-Apr		5-Apr
	6-Apr	24hrs-TSP	7-Apr	1hr-TSP Noise	8-Apr	Noise _{Evening}	9-Apr	24hrs-TSP	10-Apr	1hr-TSP	11-Apr		12-Apr
Noise _{PH}	13-Apr		14-Apr	Noise _{Evening}	15-Apr	24hrs-TSP	16-Apr	1hr-TSP Noise	17-Apr	Noise _{PH}	18-Apr		19-Apr
	20-Apr		21-Apr	24hrs-TSP	22-Apr	1hr-TSP Noise Noise _{Evening}	23-Apr		24-Apr		25-Apr		26-Apr
		24hrs-TSP Noise _{Evening}	28-Apr										

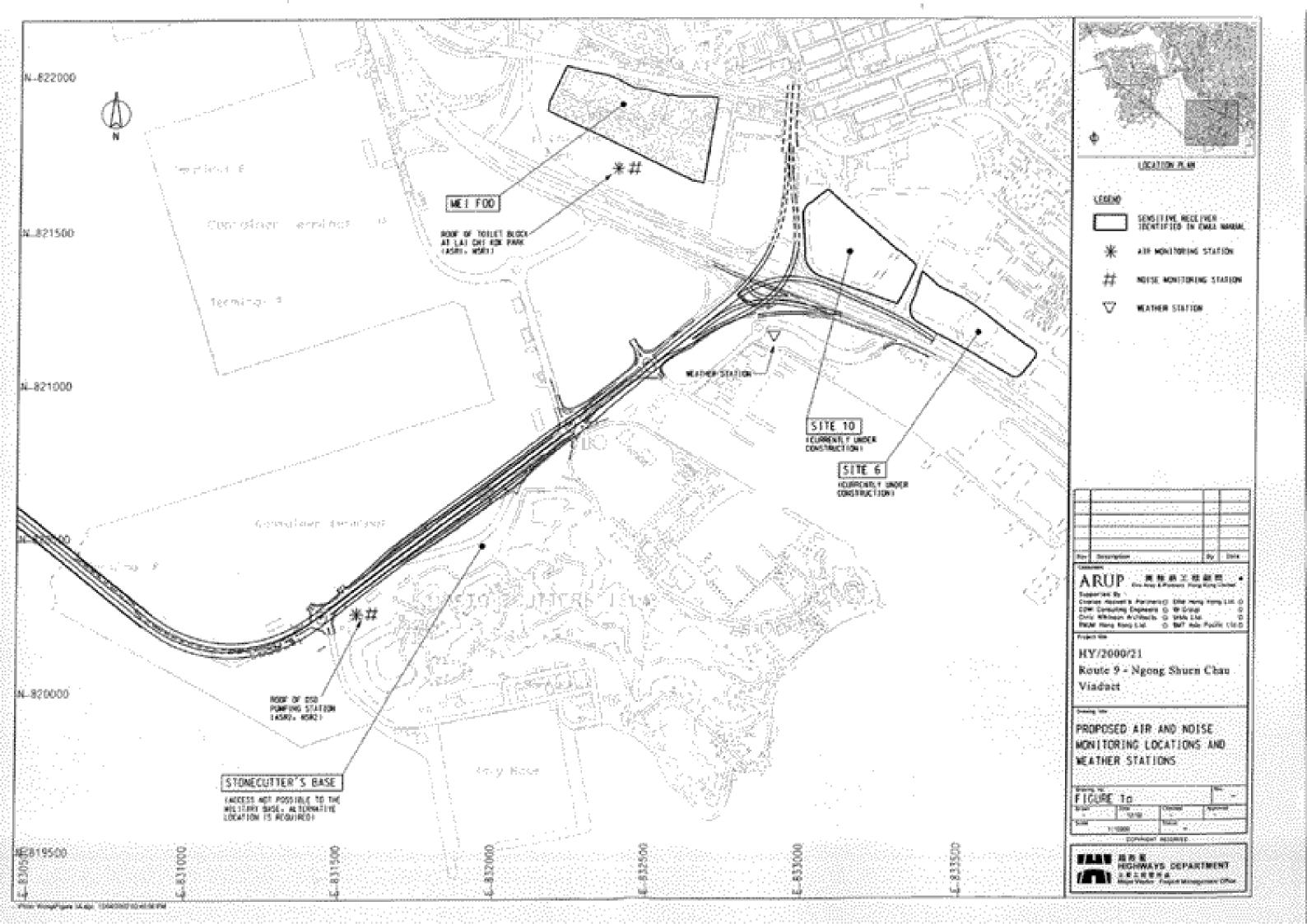
1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

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

 $\begin{tabular}{lll} Noise & Leq_{30} measurement at NSR1 and NSR2 during 07:00~19:00. \\ Noise_{Evening} & 6 \times Leq_5 measurement at NSR1 during 19:00~23:00. \\ Noise_{Night} & 4 \times Leq_5 measurement at NSR1 during 23:00~07:00 of next day. \\ \end{tabular}$

Noise_{PH} 6 x Leq₅ measurement at NSR1 during 07:00~19:00.

Appendix F Locations of Monitoring Locations



Appendix G1 Calibration Certificates for HVS

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

21-Mar-03	Next Calibration Date	21-May-03
ASR1	Equipment no.	E.HV\$.01
Amb	ient Condition	
	Pressure, Pa (mmHg)	763.5
	ASR1	ASR1 Equipment no. Ambient Condition

Orifice Transfer Standard Information				
Equipment no.	E.CAL.01			
Slope, mo	1.5507	Intercept, co	-0.00514	
Last Calibration Date	7-May-02	Next Calibration Date	7-May-03	
mo x Q_{std} + co = [Δ O x {Pa/760} x (298/Ta)] ^{1,2} Q_{std} = {[Δ O x (Pa/760} x (298/Ta)] ^{1,2} - co} / mo				

Calibration Point	Orifice Manometer	Orifice Q _{ski} (CMM)	HVS Manometer	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}
	Reading, ∆O (inch)	x-axis	Reading, ΔH (inch)	y-axis
1	6.3	1.64	7.0	2.68
2	5.2	1,49	5.9	2.46
3	4.5	1.39	5.1	2.29
4	3.5	1.23	4.0	2.03
5	2.7	1.08	3.0	1.75

By Liner Regression of y on x

Stope, mh =

1.6337

Intercept, ch =

0.0110

*Correction Coefficient, A = Calibration Result:

0.9992 ACCEPT

_
Date: 2
Date: <u>₹₹3 - 03</u>

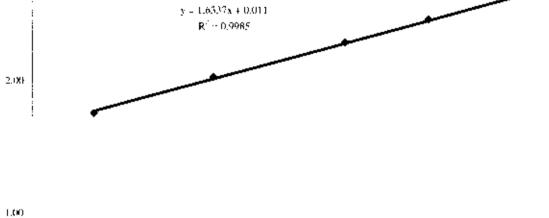
^{*} tf the Correlation Goefficient, B. is < 0.9900. Checking and Recalibration are require





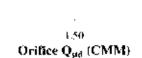
3.00 -















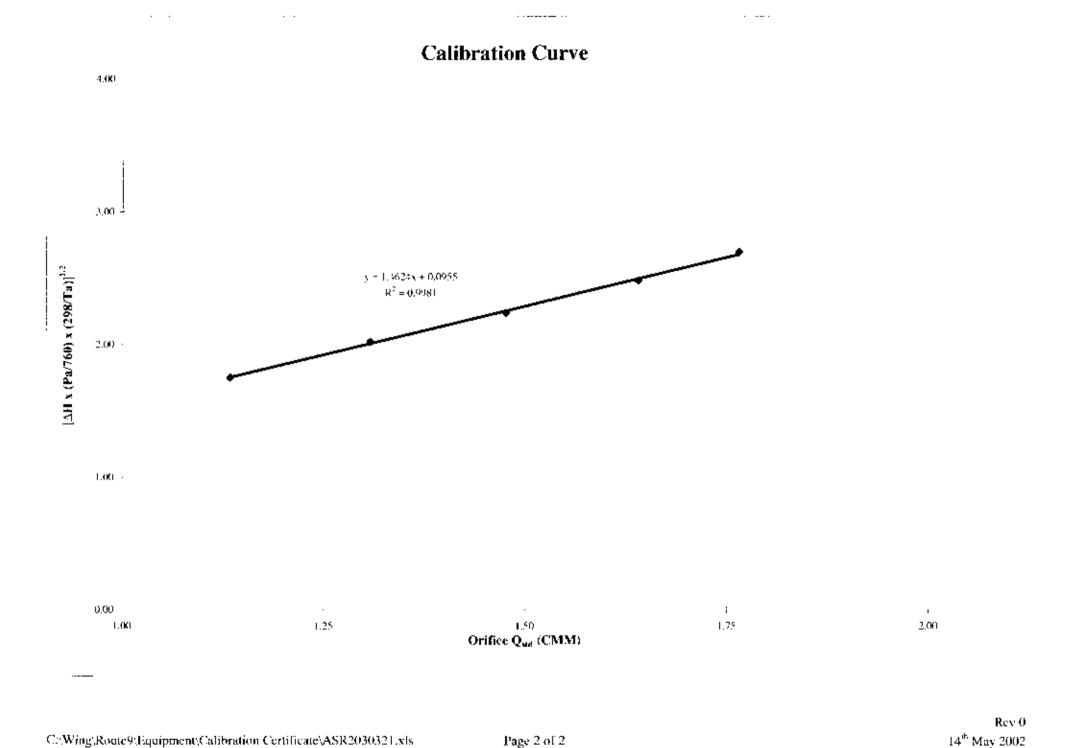
ARUP

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

Calibration Date	21-Mar-03		Next Calibration Date	21-May-03
Station	ASR2		Equipment no.	E.HVS.02
		Ambient Condition		
Temperature, Ta (K)	292.3	· · · · · · · · · · · · · · · · · · ·	Pressure, Pa (mmHg)	763.4
<u> </u>	Ori	fice Transfer Standard Inf	ormation	
Equipment no.	E,CAL.01			
Slope, mo	1.5507		Intercept, co	-0.00514
Last Calibration Date	7-May-02		Next Calibration Date	7-May-03
•	mo :	$\times Q_{sid} + co = [\triangle O \times (Pa/760) \times (Pa/760)]$	(298/Ta)] ^{1/2}	
	Q _{std}	$= \{ [AO \times (Pa/760) \times (298/Ta)]^{1} $	² - co} / mo	
Calibration Point	Orifice Manameter	Orifice Q _{ski} (CMM)	HVS Manometer	[ΔH x (Pa/760) x (298/Ta)] ¹
	Reading, ∆O (inch)	x-axis	Reading, ΔH (inch)	y-axis
1	7.3	1.77	7.1	2.70
2	6.3	1.64	6.0	2.48
3	5.1	1.48	4.9	2.24
4	4.0	1.31	4.0	2.02
5	3.0	1.13	3.0	1.75
By Liner Regression of y on >	,			
Slope, mh =	1.4624	Intercept, ch =	0.0955	
Correction Coefficient, R =		The copin on a	0.0000	
Calibration Result:	ACCEPT			
	< 0.9900 Checking and Recalibration	are require.		
Remark:				
Calibrated By:	فيهوا	Date: 2833-3		
	₹ 19			

Checked By: __

Date:



Appendix G2 Calibration Certificates for Weather Station

FUGRO TECHNICAL SERVICES LIMITED

MateriaLab Division. Fugro Development Centre.

Report No.: 030079CA30287

Fax 5 Lok Yi Street, 17 M.S. Castle Peak Road. É-mail i matlab@fugro.com.sk Tai Lam, Tuen Mun, N.T., Hong Kong. Website: www.fugro.com

Materia

Page 1 of 1

PERFORMANCE CHECK OF WEATHER STATION

. +852-2450 B233

: +852-2450 61**38**

Client Supplied Information

Client : China Harbour Engineering Co. (Group)

Project : Calibration Services Details of Unit Under Test, UUT

> : Weather Station Description

> > (1 Anemometer,

Tel

2 Barometer,

3 Thermometer)

Serial No.

: 1 4.3400.40.000,

2 022,1001.0002.p12.2.1.00,

3 200640,11,101,114162,131

: Thies CLIMA Manufacturer

Laboratory Information

Details of Equipment Used

: 1. Anemometer, Description

2. Barometer,

3. Thermometer

Equipment ID : 1. T-105-1,

2. S/N: 30974,

3, R-007-10

Test Date: 10-Feb-2003

Ambient Temperature: 21°C

Test Location: Hing Wah Street West Method Used : By Direct Comparison

Calibration Results

Function	Reference Value	UUT Reading	Error (%)
Anemometer	4.42 km/h	4.47 km/h	+1.1
Barometer	1016.5 mbar	1015 mbar	-0.1
Thermometer	21.2°C	21.1°C	-0.5

Remarks

- The equipment being used in this calibration is traceable to recognized National Standards.
- 2. The weather vane has been adjusted with regards to a reference line as provided by the client.

Checked by : Listing Checked Date : 20-2-2003 Certified by : 120 Stanley



FUGRO TECHNICAL SERVICES LIMITED

MateriaLab Division, Fugro Development Centre, 5 Lok Y. Street 17 M.S. Castle Peak Road. Tai Lam, Tuen Mun, N.T., Hong Kong,

Tel · +852-2450 8233 . 4852-2450 6138 Fax E-mai : matlab@fugro.com.hk Website: www.fugro.com

MateriaLab

Report No.: 030079CA30279(1)

Page 1 of 1

REPORT ON CALIBRATION OF THERMOMETER

Client Supplied Information

Client : China Harbour Engineering Co. (Group)

Project : Calibration Services

Calibration Item -

: Temperature indicator Description

Equipment ID.: CH-TD-01

Next calibration date: 10-Feb-2004

Laboratory Information

Calibrating Equipment -

: Platinum thermometer Description

Equipment ID: R-053-3

Date of Calibration: 10-Feb-2003

Ambient Temperature: 21°C

Calibration location: Calibration Laboratory of MateriaLab

Method used : In-house Method R-C-076

Calibration Results :

(All values are in the unit of °C.)

Test le	mperature	5.0	20.0	35.0
Equipment under test	Indicated temperature	5.0	20.0	34.9
	Correction	0.0	0.0	+0.1

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The discrimination of the equipment under test is 0.1°C.

Checked by: <u>fddie Weng</u> Date: 13-2-2003 Certified by: <u>KTXWW</u> Date: <u>War San Date</u>: Stanley K. T. Leung

CA-R-9 (14/04/99)



FUGRO TECHNICAL SERVICES LIMITED

MateriaLab Division, Fugro Development Centro, 5 Lok Yi Street, 17 M.S. Castle Peak Road. Taj Lam, Tuen Mun, N.T., Hong Kong. Tei +852-2450-8233
Fax +852-2450-6138
E-mail : mattab@fugro.com.hk
Website : www.fugro.com

MateriaLab

Report No.: 030079CA30279

Page 1 of 1

REPORT ON CALIBRATION OF ANEMOMETER

Client Supplied Information

Client : China Harbour Engineering Co. (Group)

Project: Calibration Services
Details of Unit Under Test, UUT

Description : Anemometer
Manufacturer : Thies CLIMA

Model No. : 0502095

Serial No. : 4.3400.40.000

Equipment ID : CH-AM-01

Next Calibration Date : 8-Feb-2004

Laboratory Information

Details of Reference Equipment

Description : Reference Anemometer

Equipment ID : T-105-1

Date of Calibration : 8-Feb-2003

Ambient Temperature : 25 ± 1°C

Calibration Location : Calibration Lab of MateriaLab

Method Used : By Direct Comparison

Calibration Results

Test Point —	Average Va	lue (km/h)	Error	Error in
	Reference	ŢŲŪŢ	(km/h)	percentage (%)
1	20.29	18.62	-1.67	-8.2
2	49.86	51.26	+1.40	+2.8
<u> </u>	90.14	93.62	+3.48	+3.9

Remark

The equipment being used in this calibration is traceable to recognized National Standards.

Checked by: Ellie Champ Date: 14-2-2003 Certified by: KT Volume Date: 15-3, 15-3 Stanley K. T./Leung



Appendix G3

Calibration Certificates for High Volume Orifice Calibrator



TISCH ENVIRONMENTAL, INC. 145 South Mixel Ave. VILLAGE OF CLEVES, OH 45002 513,467,9000 877.263.7610 TOLL PREE 513.467.9009 FAY WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

Date - Ma Operator	ay 07, 2002 Tisch	833620 0491	Ta (K) - Pa (mm) -	293 - 751.84		
PLATE OR VDC #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H20 (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00	1.2640 0.9660 0.8830 0.8210 0.6200	4.2 7.0 8.4 9.7 16.7	1.50 2.50 3.00 3.50 6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		٧a	(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 slop intercept coefficie	(b) = ent (r) =	1.55070 -0.00514 0.99978		Qa slope intercept coefficie	(b) =	0.97102 -0.00320 0.99978
y axis =	SQRT (H2O (Pa/760) (298/:	ra)]	y axis =	SQRT[H2O(T	?a/Pa)]

CALCULATIONS

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

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

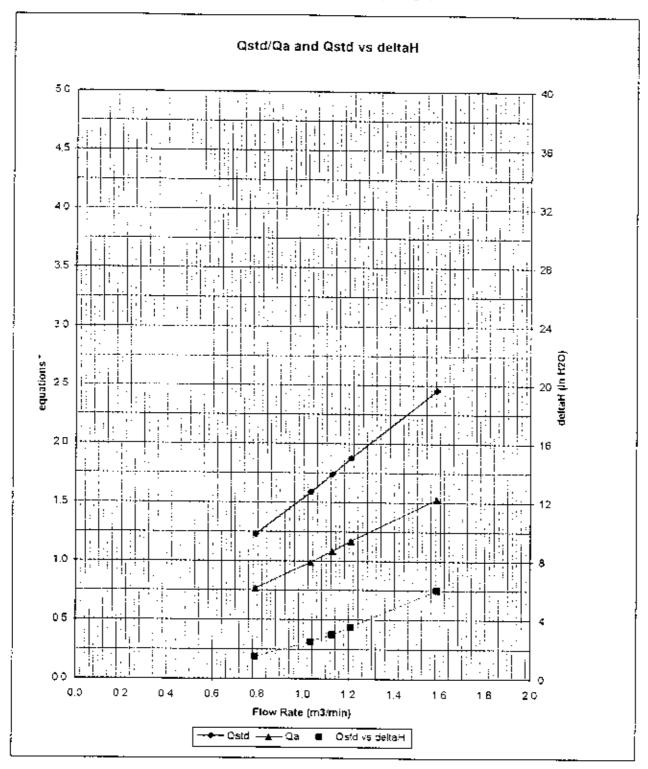
For subsequent flow rate calculations:

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



TISCH ENVIRONMENTAL, [AC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 FOLL FREE 513.467.9009 FAX WWW.YISCH-SNV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Ostd series:

$$\sqrt{\Delta H \left(\frac{Ps}{Pstd}\right) \left(\frac{Tstd}{Ts}\right)}$$

#0491

Qa series:

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

Appendix G4

Calibration Certificates for Sound Level Meter and Calibrator

Certificate No.: C030478

Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Meter

Manufacturer: Cesva

Model No.: SC-30

Serial No.: T215622

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C030478.

The equipment is supplied by

Co. Name: HONKEI TECHNOLOGY

Address: Rm. 2012, 20/F., Ho King Comm. Centre, 2-16 Fa Yuen St., Mongkok, Kowloon

Date of Issue 10 February 2003

Certified by the HC Chan

DICESVA S.L.

Calibration laboratory

CERTIFICATE OF VERIFICATION

NUMBER:	ሲጣ (ሲሲጣጣጣ
INL HOLER C	-02/00379

DICESVA S.L.

Calibration laboratory

Villar, 20 08041 BARGELONA 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

Xavier Sola Gimeno

DICESVA S.L.

Calibration (aboratory)

CERTIFICATE OF VERIFICATION

NUMBER:	02/00382
TIONING CIV.	

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

Xavier Solà Gimeno

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

Xavier Solà Gimeno

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		T						
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 proposal Resubmit proposals if problem still not under control Stop the relevant portion of work 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 operati Change working technique	nced equipment eens	

Appendix I

Implementation Status of Environmental Protection Requirements

Appendix I: Implementation Status of Environmental Protection Requirement

	Environmental Protection Measures	Timing	Implementation Stages*			
Activities			29/12/02 to 28/1/03	29/1/02 to 28/2/03	1/3/03 to 28/3/03	29/3/02 to 28/4/03
Landscape and visual	Erection, painting and maintenance of site hoardings around works and storage areas.	Throughout the	V	V	√	V
	Restrictions on the height of material/spoil stockpiles.	construction period	V	$\sqrt{}$	V	V
	Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.	- penou	N/A	N/A	N/A	N/A
	Avoidance of chunam or shotcreting slope treatments.		√	√	V	V
	Conservation of topsoil where practical.		V	V	V	V
	Site litter patrols and regular site waste collection.		A	A	A	A
	Maintenance of planting.		√	A	A	A
Ecological Impact	Minimise damage outside works areas		V	V	√	V
Construction:			1			
Material Storage	Covers for dusty stockpiles	Throughout the	A	A	•	A
Vehicle movement	Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.	construction period	A	A	A	A
Plant maintenance	All plant shall be maintained to prevent any undue air emissions.		V	A	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.		V	V	V	V
Plant maintenance	All plant shall be maintained to prevent any undue noise nuisance.		V	V	V	A

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

	Environmental Protection Measures	Timing	Implementation Stages*			
Activities			29/12/02 to 28/1/03	29/1/02 to 28/2/03	1/3/03 to 28/3/03	29/3/02 to 28/4/03
Wheel wash	All wheel wash water shall be diverted to a sediment pit.	Throughout the construction	√ (Not all, in progress)	(Not all, in progress)	√ (Not all, in progress)	(Not all, in progress
Concrete Truck Washout	All concrete trucks shall wash out into a lined pit.	period	(Not all)	(Not all, in progress)	(Not all)	(Not all, in progress)
Surface water diversion	All clean surface water shall be diverted around the site.		√ (Not all)	(Not all, in progress)	√ (Not all)	(Not all, in progress)
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.		√ (In progress)	(Not all, in progress)	√ (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.		√ (Not all)	A	A	A
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	V	V	V
Excavation works	Excavation works shall avoid sensitive areas.	Throughout the excavation work period	V	V	V	V
Material, plant movement & fuel can refilling.	Any fuel or oil spills shall be excavated and disposed of.	Throughout the construction	A	V	V	V
Generators	All generators shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.	period	A	V	V	√

N/A = Not Applicable

✓ = Implemented

 \blacktriangle = Rectified

	Environmental Protection Measures	Timing	Implementation Stages*			
Activities			29/12/02 to 28/1/03			
Material containers	All empty bags and containers shall be collected for disposal.	Throughout the	A	V	V	V
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.	construction period	V	A	A	A
Neighborhood nuisance	All complaints regarding construction works shall be relayed to the Environmental Team.		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	√
Legal requirements	Different types of waste should be segregated, stored, transported and disposed of in accordance with the relevant legislative requirements and guidelines		√ (in progress)	$\sqrt{}$ (in progress)	(in progress)	√ (in progress)
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.		√ (in progress)	$\sqrt{\frac{1}{\text{(in progress)}}}$	√ (in progress)	√ (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.		√ (in progress)	V	V	V
Record of wastes	Records of quantities of wastes generated, recycled and disposed (with locations) should be properly kept.		√ (in progress)	$\sqrt{\frac{1}{100}}$ (in progress)	√ (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.		√ (in progress)	√ (in progress)	√ (in progress)	√ (in progress)

N/A = Not Applicable

✓ = Implemented

 \blacktriangle = Rectified

Appendix J

1-hour and 24-hour TSP Monitoring Result

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
29-Mar-03	9:41	78.60	1.30	1.30	1.30	102.31	2.6225	2.6444	214.1
29-Mar-03	11:00	41.40	1.30	1.30	1.30	53.83	2.6257	2.6378	224.8
29-Mar-03	11:44	70.80	1.30	1.30	1.30	92.04	2.6217	2.6383	180.4
4-Apr-03	9:41	54.00	1.29	1.28	1.28	69.36	2.6284	2.6404	173.0
4-Apr-03	10:32	54.00	1.29	1.28	1.29	69.40	2.6465	2.6587	175.8
4-Apr-03	11:30	83.40	1.29	1.29	1.29	107.64	2.6289	2.6591	280.6
8-Apr-03	9:43	56.40	1.30	1.29	1.30	73.07	2.7817	2.7857	54.7
8-Apr-03	10:41	54.60	1.29	1.29	1.29	70.56	2.7862	2.8070	294.8
8-Apr-03	11:43	102.60	1.29	1.29	1.29	132.46	2.7827	2.8001	131.4
11-Apr-03	9:38	54.00	1.30	1.30	1.30	70.15	2.7955	2.8098	203.8
11-Apr-03	10:36	54.60	1.30	1.30	1.30	70.87	2.7908	2.8053	204.6
11-Apr-03	11:33	87.00	1.30	1.29	1.29	112.55	2.7999	2.8215	191.9
17-Apr-03	9:41	54.60	1.30	1.29	1.30	70.72	2.7999	2.8172	244.6
17-Apr-03	10:37	55.80	1.29	1.28	1.29	71.76	2.7964	2.8128	228.5
17-Apr-03	11:35	71.40	1.29	1.27	1.28	91.59	2.8169	2.8332	178.0
23-Apr-03	9:38	54.60	1.29	1.29	1.29	70.35	2.8025	2.8170	206.1
23-Apr-03	10:35	57.60	1.29	1.28	1.29	74.04	2.8038	2.8203	222.9
23-Apr-03	11:35	79.80	1.28	1.28	1.28	102.36	2.7825	2.8028	198.3

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/m³
3-Apr-03	0:00	1425.60	1.30	1.29	1.30	1848.18	2.6180	2.7513	72.1
7-Apr-03	0:00	1426.20	1.29	1.30	1.29	1843.77	2.6368	2.8369	108.5
10-Apr-03	0:00	1429.80	1.29	1.30	1.30	1852.37	2.7859	2.9014	62.4
16-Apr-03	0:00	1417.20	1.29	1.30	1.29	1833.01	2.7932	3.0045	115.3
22-Apr-03	0:00	1427.40	1.29	1.29	1.29	1838.90	2.8006	3.0038	110.5
28-Apr-03	0:00	1437.60	1.27	1.29	1.28	1836.89	2.7656	2.9580	104.7

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
31-Mar-03	8:55	49.20	1.40	1.40	1.40	68.98	2.6185	2.6360	253.7
31-Mar-03	9:46	63.60	1.40	1.40	1.40	89.11	2.6324	2.6543	245.8
31-Mar-03	10:51	49.80	1.40	1.41	1.41	70.08	2.6386	2.6540	219.7
4-Apr-03	9:17	54.60	1.43	1.43	1.43	78.23	2.6254	2.6355	129.1
4-Apr-03	10:13	52.20	1.39	1.39	1.39	72.33	2.6349	2.6465	160.4
4-Apr-03	11:13	69.60	1.43	1.43	1.43	99.66	2.6289	2.6591	303.0
8-Apr-03	9:23	54.00	1.31	1.31	1.31	70.59	2.6498	2.6695	279.1
8-Apr-03	10:19	73.20	1.44	1.43	1.43	104.98	2.7820	2.8150	314.3
8-Apr-03	11:36	70.20	1.42	1.42	1.42	99.44	2.7741	2.8052	312.7
11-Apr-03	9:19	54.60	1.44	1.44	1.44	78.71	2.7918	2.8032	144.8
11-Apr-03	10:15	54.60	1.43	1.42	1.42	77.80	2.8024	2.8170	187.7
11-Apr-03	11:11	60.60	1.42	1.42	1.42	86.03	2.7865	2.8024	184.8
17-Apr-03	9:19	64.20	1.44	1.44	1.44	92.24	2.7968	2.8135	181.0
17-Apr-03	10:25	53.40	1.44	1.45	1.44	77.03	2.7991	2.8126	175.3
17-Apr-03	11:20	50.40	1.45	1.43	1.44	72.49	2.8133	2.8265	182.1
23-Apr-03	9:11	60.00	1.45	1.44	1.44	86.68	2.9242	2.9451	241.1
23-Apr-03	10:13	67.80	1.44	1.42	1.43	97.14	2.7899	2.8113	220.3
23-Apr-03	11:18	51.60	1.42	1.44	1.43	73.79	2.8031	2.8235	276.5

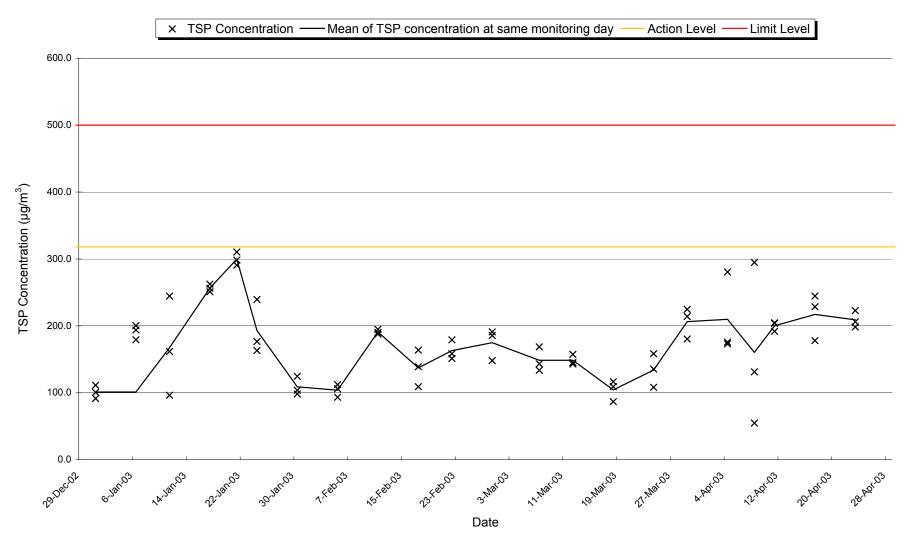
The Summary of 24-hrs TSP Concentration (µg/m³) at Stonecutters Base (ASR2)

Date	Sampling Time	Elapsed Time (min)	Initial Standard Flow Rate (m³/min)	Final Standard Flow Rate (m ³ /min)	Averaged Standard Flow Rate (m³/min)	Total Standard Volume (m³)	Initial Filter Weight (q)	Final Filter Weight	TSP Concentration µg/m³
3-Apr-03	0:00	1444.20	1.41	1.42	1.42	2043.86	2.6227	2.8916	131.6
7-Apr-03	0:00	1432.20	1.41	1.42	1.42	2032.29	2.6131	2.8143	99.0
10-Apr-03	0:00	1445.40	1.42	1.41	1.41	2043.90	2.7874	2.8879	49.2
16-Apr-03	0:00	1444.80	1.43	1.44	1.43	2073.04	2.7782	2.9884	101.4
22-Apr-03	0:00	1447.20	1.43	1.43	1.43	2068.45	2.7934	2.9575	79.3
28-Apr-03	0:00	1438.20	1.42	1.41	1.42	2040.54	2.7685	2.9508	89.3

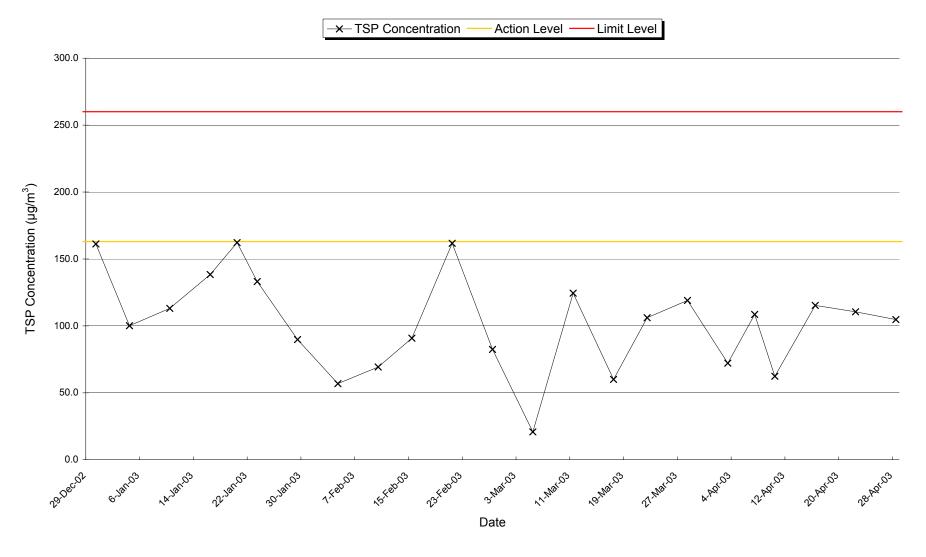
Appendix K

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

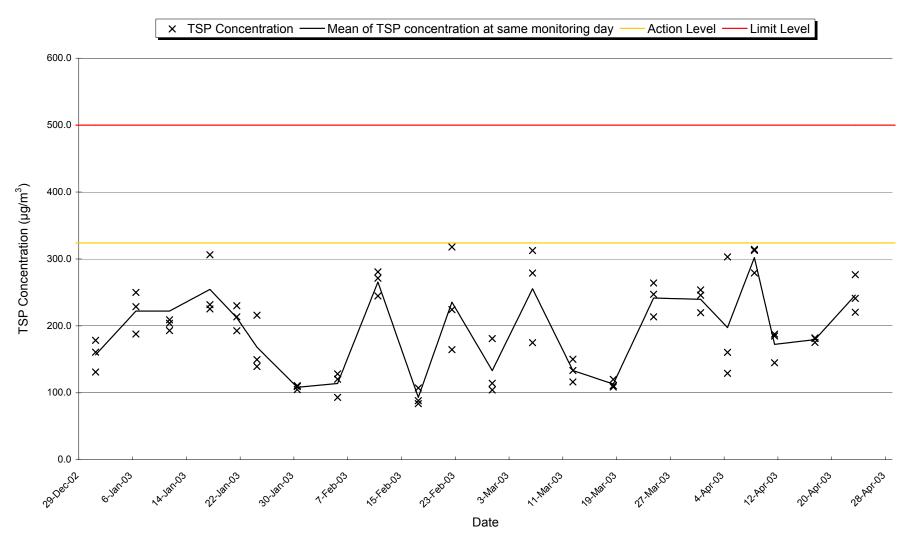
1 hr TSP Concentration (µg/m³) at Mei Foo Sun Chuen (ASR1)



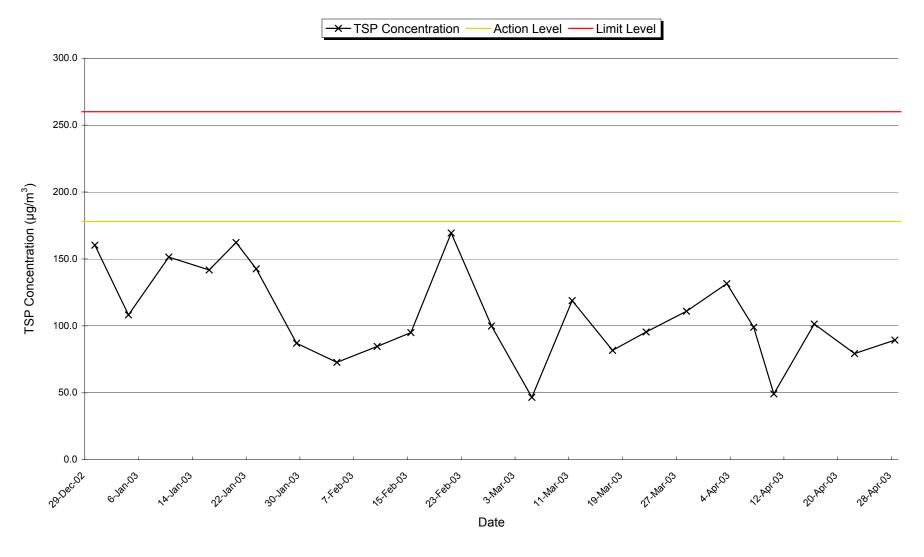
24 hrs TSP Concentration (µg/m³) at Mei Foo Sun Chuen (ASR1)



1 hr TSP Concentration (μg/m³) at Stonecutter's Base (ASR2)



24 hrs TSP Concentration (µg/m³) at Stonecutter's Base (ASR2)



Appendix L Wind Data Monitoring Results

Appendix L: Wind Data Monitoring Result

Wind Speed during Impact Noise Monitoring

		Wind Sp	eed m/s
Date	Time	Mean	Max
30-Mar-03	16:21~16:51	2.6	2.9
2-Apr-03	20:03~20:33	0.0	0.0
4-Apr-03	13:50~14:20	0.1	0.7
4-Apr-03	14:30~15:00	0.4	1.0
8-Apr-03	09:58~10:28	0.0	0.0
8-Apr-03	13:01~13:31	2.0	2.6
9-Apr-03	20:03~20:33	4.6	5.4
13-Apr-03	15:00~15:30	0.8	1.1
15-Apr-03	21:00~21:30	3.0	3.5
17-Apr-03	14:15~14:45	2.9	3.7
17-Apr-03	15:02~15:32	3.4	3.5
18-Apr-03	14:32~15:02	2.6	3.4
23-Apr-03	09:02~09:32	0.9	1.1
23-Apr-03	14:09~14:39	2.2	3.5
23-Apr-03	19:55~20:25	0.0	0.0

Appendix L: Wind Data Monitoring Result

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

Date							Win	d Directi	on (Deg	ree)						
	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
29-Mar-03	0	0	0	2	83	203	0	0	0	0	0	0	0	0	0	0
31-Mar-03	0	0	11	26	35	30	13	5	7	15	18	0	0	0	0	0
3-Apr-03	0	0	0	0	0	0	18	34	10	5	6	0	7	0	0	0
4-Apr-03	3	0	8	28	47	13	9	2	0	2	1	0	3	5	14	1
7-Apr-03	0	0	0	38	82	44	0	0	0	0	0	0	0	0	0	0
8-Apr-03	0	0	0	0	9	126	20	0	0	0	0	2	21	0	0	0
10-Apr-03	0	0	0	6	30	232	19	0	0	0	0	0	0	0	0	0
11-Apr-03	0	0	18	64	107	72	0	0	0	0	0	0	0	0	0	0
16-Apr-03	0	0	0	0	2	273	13	0	0	0	0	0	0	0	0	0
17-Apr-03	0	0	0	4	62	211	2	0	0	0	0	0	0	0	0	0
22-Apr-03	0	0	0	0	29	114	26	2	0	3	32	5	37	0	0	0
23-Apr-03	0	0	0	0	4	13	17	1	1	13	86	9	3	0	0	0
28-Apr-03	0	0	0	0	34	238	16	0	0	0	0	0	0	0	0	0

Appendix M1

Noise Monitoring Results for Normal Hour

The Summary of Day-time Leq₃₀ 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)	
4-Apr-03	14:30	30	62.2	63.7	59.5	75.0	
8-Apr-03	13:01	30	62.4	63.8	60.9	75.0	
17-Apr-03	15:02	30	63.6	65.7	60.6	75.0	
23-Apr-03	9:02	30	63.5	64.8	61.8	75.0	

The Summary of Day-time Leq_{30} Level at Stonecutters Base (NSR 2)

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level
		min	dB(A)	dB(A)	dB(A)	dB(A)
4-Apr-03	13:50	30	74.9	77.5	68.7	75.0
8-Apr-03	9:58	30	71.9	74.2	66.6	75.0
17-Apr-03	14:15	30	74.8	78.5	68.1	75.0
23-Apr-03	14:09	30	74.9	77.5	65.0	75.0

Appendix M2

Noise Monitoring Results for Restricted Hour

The Summary of Evening-time Leq₅ Level at Mei Foo Sun Chuen (NSR 1)

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level	Area	PME Opreate	ed
		min	dB(A)	dB(A)	dB(A)	dB(A)		Description	No.
2-Apr-03	20:03	5	60.8	61.9	57.8	70.0			
2-Apr-03	20:08	5	59.8	61.5	57.5	70.0			
2-Apr-03	20:13	5	59.6	60.9	57.0	70.0	SA6b	Backhoe	1
2-Apr-03	20:18	5	59.3	60.7	57.4	70.0		BG piling rig	1
2-Apr-03	20:23	5	59.4	61.4	57.1	70.0			
2-Apr-03	20:28	5	64.7	61.6	57.2	70.0			
9-Apr-03	20:03	5	60.8	62.8	58.5	70.0			
9-Apr-03	20:08	5	60.5	62.4	58.3	70.0			
9-Apr-03	20:13	5	61.5	63.2	58.2	70.0	SA6b	Backhoe	1
9-Apr-03	20:18	5	61.9	63.9	58.3	70.0			
9-Apr-03	20:23	5	59.9	61.3	58.0	70.0			
9-Apr-03	20:28	5	60.4	62.0	58.7	70.0			
15-Apr-03	21:00	5	61.3	63.6	57.8	70.0			
15-Apr-03	21:05	5	58.5	60.1	56.8	70.0	SA6b	BG piling rig	1
15-Apr-03	21:10	5	59.5	61.6	57.1	70.0			
15-Apr-03	21:15	5	58.8	60.6	56.7	70.0	SA14	Generator	1
15-Apr-03	21:20	5	58.7	60.2	56.1	70.0			
15-Apr-03	21:25	5	58.7	60.2	57.0	70.0			
23-Apr-03	19:55	5	60.8	62.2	59.1	70.0			
23-Apr-03	20:00	5	61.1	62.4	59.6	70.0	SA6b	Generator	1
23-Apr-03	20:05	5	61.0	62.3	59.5	70.0			
23-Apr-03	20:10	5	60.5	61.7	59.2	70.0	SA11	Mobile crane	1
23-Apr-03	20:15	5	60.3	61.9	58.0	70.0			
23-Apr-03	20:20	5	60.7	62.1	59.1	70.0			

SA6a: (From roundabout CP3/CP4 to Pier NB/SB35) SA6b: (Pier NB36 to NB40, SB36 to SB36, H0 to H4)

The Summary of Public Holiday Leq₅ Level at Mei Foo Sun Chuen (NSR 1)

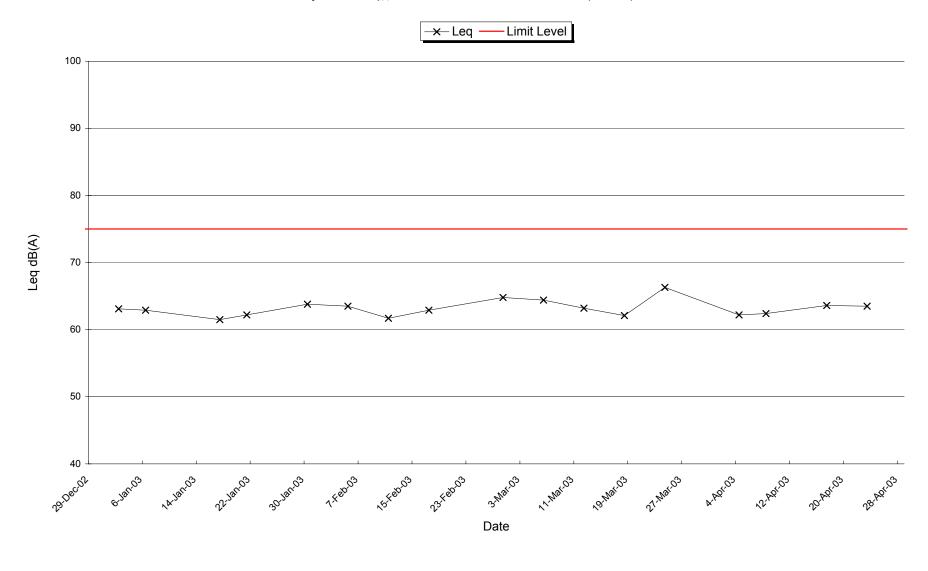
Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level	Area	PME Opreate	∍d
		min	dB(A)	dB(A)	dB(A)	dB(A)		Description	No.
30-Mar-03	16:21	5	58.8	60.7	56.3	70.0			
30-Mar-03	16:26	5	63.0	66.0	57.9	70.0	SA6a	Mobile crane	1
30-Mar-03	16:31	5	67.1	68.4	58.3	70.0			
30-Mar-03	16:36	5	63.4	66.8	57.9	70.0	SA14	Mobile crane	1
30-Mar-03	16:41	5	64.9	68.1	59.1	70.0			
30-Mar-03	16:46	5	63.5	66.7	56.8	70.0			
13-Apr-03	15:00	5	63.2	64.8	60.7	70.0			
13-Apr-03	15:05	5	62.4	64.0	60.6	70.0	SA6b	Backhoe	1
13-Apr-03	15:10	5	61.9	62.9	59.9	70.0			
13-Apr-03	15:15	5	62.0	63.6	60.1	70.0	SA14	Generator	1
13-Apr-03	15:20	5	63.0	65.5	60.1	70.0			
13-Apr-03	15:25	5	64.1	66.0	61.5	70.0			
18-Apr-03	14:32	5	60.1	61.2	58.4	70.0	SA6a	Mobile crane	1
18-Apr-03	14:37	5	59.9	61.6	57.5	70.0		Backhoe	1
18-Apr-03	14:42	5	60.1	61.4	58.5	70.0			
18-Apr-03	14:47	5	61.3	62.4	59.0	70.0	SA6b	BG piling rig	1
18-Apr-03	14:52	5	60.4	61.7	58.6	70.0		Backhoe	1
18-Apr-03	14:57	5	59.9	61.1	58.6	70.0			

SA6a: (From roundabout CP3/CP4 to Pier NB/SB35) SA6b: (Pier NB36 to NB40, SB36 to SB36, H0 to H4)

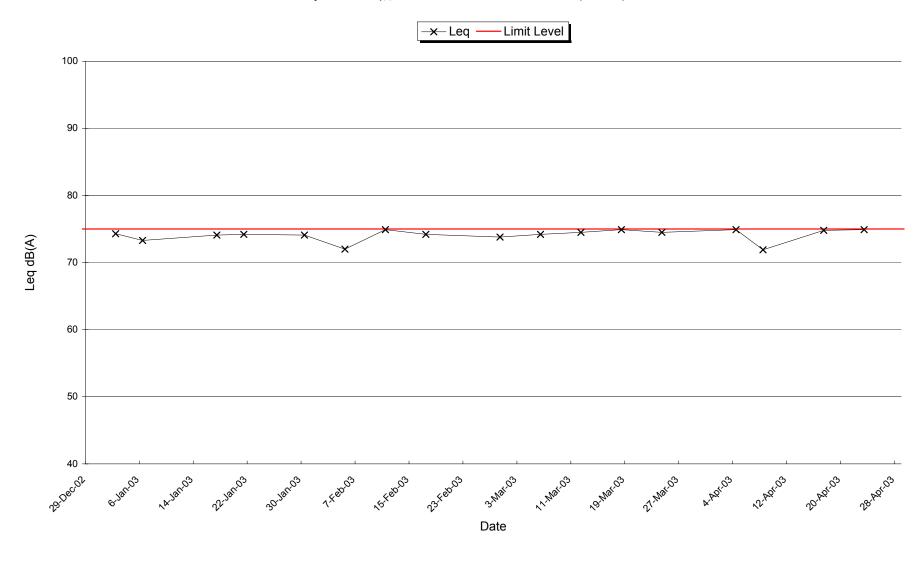
Appendix N1

Graphical Presentation of Noise Monitoring Results for Normal Hour

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



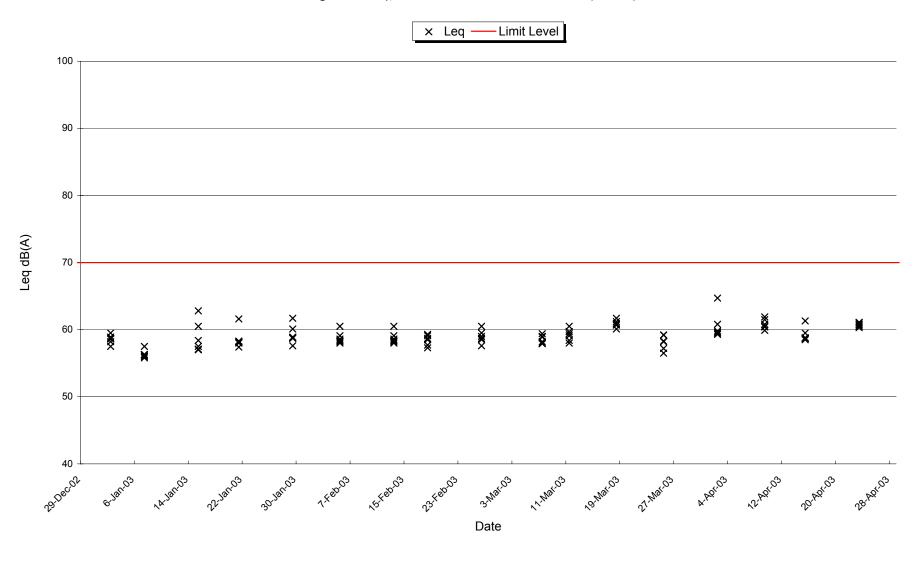
Day-time Leq₃₀ Level at Stonecutters Base (NSR2)



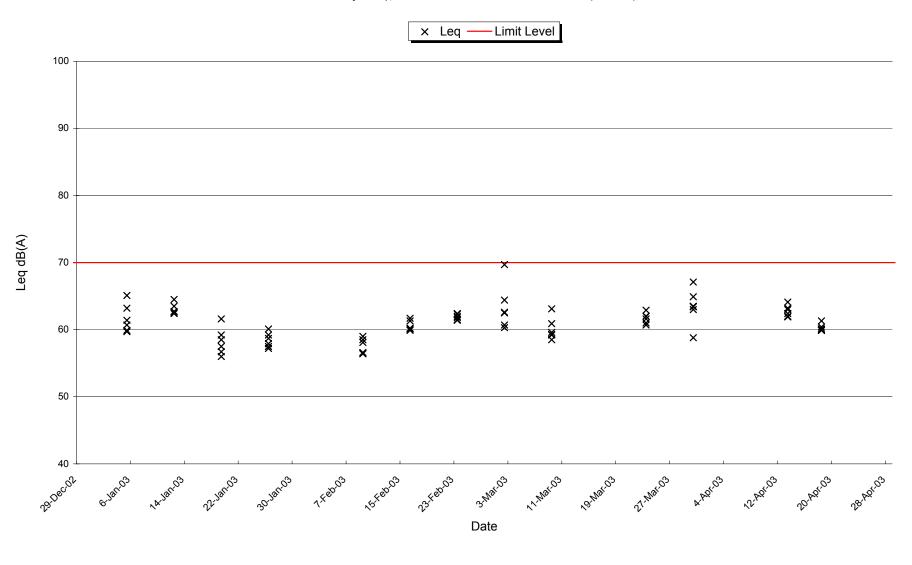
Appendix N2

Graphical Presentation of Noise Monitoring Results for Restricted Hour

Evening-time Leq₅ Level at Mei Foo Sun Chuen (NSR1)



Public Holiday Leq₅ Level at Mei Foo Sun Chuen (NSR1)



Appendix O1 Environmental Complaint Log Book

Appendix O1-Summary of Previous Complaints Details

Case No	Date of Received	Date of Complaint	Complainant's information	Detail's of complaint	Recommended Mitigation Measures	Follow-up Action	Status/Remarks	
E2002-01	19-Aug-02	19-Aug-02	Complaint from ICC and subsequently 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- 02. Suspect not due to	Clear up the illegal dumping on site.	CHEC and RSS report that the illegal dumping were found within the site boundary in a.m. on 19-Aug-02. CHEC cleared up the soil and waste in p.m. on 19-Aug-02. Investigations were undertaken by ET	Closed. Follow-up phone call to complainant on 20-Aug-02. The complainant was satisfied to our prompt action.	
				the Project's work.		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	The Complaint was referred by EPD on 23-Sept-02.	Noise and vibration at the complainant's office generated from the piling works at the site between Hing Wah Street West and Lai Po Road.	Several vibration measures were implemented since 27 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.		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.		
EC2002-03	15-Oct-02	15-Oct-02	Complaint from ICC and subsequently referred by HyD on 15-Oct-02.	boundary fence. The fenced area was a vacant Government Land maintained by District Land Officer (DLO), Kwai Tsing. The stack of grass was generated from grass cutting which was conducted by the sub-	by RSS on 15, 16 and 18	Follow-up phone call to complainant on 21-Oct-02. The complainant was satisfied with our prompt action.	Closed. A comprehensive letter has been send to the complainant on 22 October 2002.	

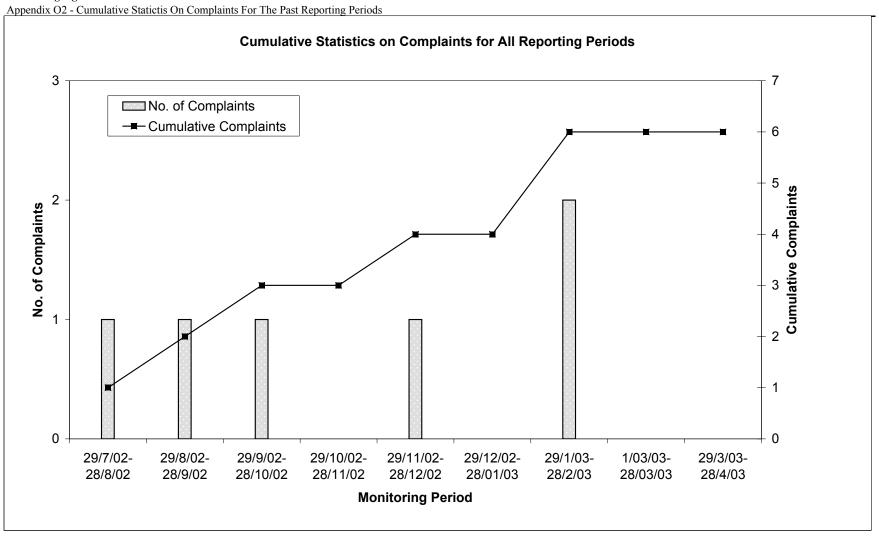
Case No	Date of Received	Date of Complaint	Complainant's information	Detail's of complaint	Recommended Mitigation Measures	Follow-up Action	Status/Remarks
EC2002-04	13-Dec-02	10-Dec-02	DLO and referred	Refuse and overgrown weeds were found within the site GLA-TNK 1215 (P1-SA15).	All refuse and overgrown grass should be cleared as soon as possible.	Investigation was carried out by RSS on 16-Dec-02. GLA-TNK 1215 was only part of complaint area. The area was found free of refuse and the overgrown weeds were being cleared.	Reply letter to HyD was sent on 19-Dec-02.
						It was observed that most of the overgrown grass has been cleared on 18-Dec-02.	
						Overgrown grass within the complaint area allocated to HyD has been completely cleared on 20-Dec-02.	
EC2003-01	9-Feb-03	9-Feb-03	Complaint was forwarded by CHEC on 9-Feb- 03	Soil / debris was deposited on the public road between the site entrance area P1-SA15 and the roundabout.	Clear up the soil/debris deposited on the concerned area and wheel washing facilities should be provided and used by all vehicles before leaving the site.	at P1-SA15, no wheel washing activities could be conducted by	A follow-up phone call was made to the complainant on 12 February 2003. The complainant was satisfied to our prompt action and emphasized that he did not expect any written reply relating to this issue.
EC2003-02	20-Feb-03	19-Feb-03	Complaint from ICC and subsequently referred by HyD on 20-Feb-03	A significant amount of debris / soil was deposited by vehicles leaving the site exits at P1-SA6 (next to Pier SB36) and P1-SA8 (next to Pier NB41) and causing a nuisance along Lai Po Road.	Clear up the soil/debris deposited on the concerned area and wheel washing facilities should be provided and used by all vehicles before leaving the site.	Lai Po Road were completely cleared up by CHEC in the afternoon on 20-Feb-03. Furthermore, CHEC has	A follow-up phone call was made to the complainant on 21 February 2003. The complainant was satisfied to our prompt action and emphasized that he did not expect any written reply relating to this issue.

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 29th April 2003 to 28th May 2003

Environmental Monitoring Schedule between 29-April and 28-May 2003

Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
			29-Apr 1hr-TSP Noise Noise _{Evening} Noise _{Night}	30-Арі	1-May	2-May	3-May 24hrs-TSP	
Noise _{PH}	4-May	5-May 1hr-TSP Noise Noise _{Evening} Noise _{Night}		7-May	/ 8-May	9-May 24hrs-TSP	10-May 1hr-TSP	
Noise _{PH}	11-May		/ 13-May	14-May	24hrs-TSP	16-May 1hr-TSP Noise Noise _{Evening} Noise _{Night}	17-May	
Noise _{PH}	18-May	19-May	, 20-May	21-May 24hrs-TSP	1hr-TSP Noise Noise _{Evening} Noise _{Night}		24-May	
Noise _{PH}	25-May		27-May 24hrs-TSP	28-May 1hr-TSP Noise Noise _{Evening} Noise _{Night}				

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.

Noise_{Evening} 6 x Leq₅ will be measurement at NSR1 during 19:00~23:00 (if construction activities are undertaken).

Noise_{Night} 4 x Leq_s will be measurement at NSR1 during 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-May and 28-June 2003

Sunday	Monday	Monday		Tuesday		Thursday		Friday		Saturday	
							29-May		30-May		31-May
1 Noise _{PH}	un 24hrs-TSP		3-J 1hr-TSP Noise Noise _{Evening} Noise _{Night}	lun	4-Jun		5-Jun		6-Jun	24hrs-TSP	7-Jun
8-0 Noise _{PH}	un 1hr-TSP Noise NoiseEvening NoiseNight	9-Jun		lun	11-Jun		12-Jun	24hrs-TSP	13-Jun	1hr-TSP	14-Jun
15-c Noise _{PH}	un	16-Jun	17-J	lun	18-Jun	24hrs-TSP		1hr-TSP Noise Noise _{Evening} Noise _{Night}	20-Jun		21-Jun
Noise _{PH}		23-Jun	24-J		25-Jun 24hrs-TSP	1hr-TSP Noise Noise _{Evening} Noise _{Night}	26-Jun		27-Jun		28-Jun

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.

Noise_{Evening} 6 x Leq₅ will be measurement at NSR1 during 19:00~23:00 (if construction activities are undertaken).

Noise_{Night} 4 x Leq_s will be measurement at NSR1 during 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-June and 28-July 2003

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Ju	n 30-Jun 24hrs-TSP		2-Jul 1hr-TSP Noise Noise _{Evening} Noise _{Night}	3-Jul	4-Jul	5-Jul 24hrs-TSP
6-Ju Noise _{PH}	Il 7-Jul 1hr-TSP Noise Noise _{Evening} Noise _{Night}			10-Jul	11-Jul 24hrs-TSP	12-Jul 1hr-TSP
13-Ju Noise _{PH}	ıl 14-Jul	15-Jul	16-Jul	24hrs-TSP	18-Jul 1hr-TSP Noise Noise _{Evening} Noise _{Night}	19-Jul
20-Ju Noise _{PH}	ıl 21-Jul	22-Jul	24hrs-TSP	24-Jul 1hr-TSP Noise Noise _{Evening} Noise _{Night}		26-Jul
Noise _{PH}	28-Jul					

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.

Noise_{Evening} 6 x Leq₅ will be measurement at NSR1 during 19:00~23:00 (if construction activities are undertaken).

Noise_{Night} 4 x Leq_s will be measurement at NSR1 during 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).