Highways Department

Agreement No. CE 20/2009 (EP)

Environmental Team for the Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

(Stage 1)
Between Island House Interchange and
Tai Hang - Investigation

Monthly EM&A Report for February 2014

[03/2014]

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> 14 March 2014 By Fax (2805 5028) and Post

Attn.: Mr. James Penny

Dear Sir.

Widening of Tolo Highway between Island House Interchange and Tai Hang Environmental Permit (EP) No.: EP-324/2008/A Condition 3.3 - Submission of Monthly EM&A Report for February 2014 (Stage 1)

We refer to the captioned Monthly EM&A Report received on 12 and 14 March 2014 submitted by Environmental Team (ET) via email. Pursuant to EP Condition 3.3, I hereby verify the Monthly EM&A Report for February 2014 (Stage 1) for the Project.

Yours faithfully

for MOTT MACDONALD HONG KONG LIMITED

Terence Kong

Independent Environmental Checker

HyD - Mr. Raymond T W Kong / Mr. Dennis Wong / Mr. William Chiang C.C. (Fax: 2761 4864)

(Fax: 2317 7609)

ETL, AECOM – Mr. Y T Tang

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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is governed by an Environmental Permit (EP-324/2008)(EP) issued by EPD on 23 December 2008. Subsequently, EPD issued a Variation of Environmental Permit (EP-324/2008/A) (VEP) on 31 January 2012.

The Project aims to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). The construction works of Stage 1 were commenced on 23 November 2009 and will tentatively be completed in April 2014. This report focuses on Stage 1 of the Project only.

The construction phase of Stage 1 under the EP and the Environmental Monitoring and Audit (EM&A) programme for Stage 1 of the Project commenced on 23 November 2009. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 and 28 February 2014.

As informed by the Contract 1 Contractor (China State Construction Engineering (Hong Kong) Ltd.), construction activities in the reporting period were:-

- Temporary shoring, sheetpiling and excavation
- At-grade road construction
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier panels installation
- Asphalt laying
- Installation of Drainage Pipes

The construction works carried out by the Contract 2 Contractor (Gammon Construction Ltd.) in the reporting period were:-

- Condition survey of existing structures
- Setting up the temporary traffic arrangement
- Excavation of trial trenches to locate existing utilities
- Construction of haul road
- Construction of concrete profile barrier and beam barrier
- Construction of Pilecap / Spread footing of noise barriers / semi-noise enclosures
- Slope works, including installation of soil nails
- Noise barrier construction
- Modification of existing bridge structures
- Entrusted watermains works
- Sewer Installation
- Road and drainage works
- Landscaping works

Reporting Change

There was no reporting change required in the reporting month.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting month.



Breaches of Action and Limit Levels for Noise

No Action Level exceedance of construction noise was recorded in the reporting month since no noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting month.

No Limit Level exceedance of construction noise was recorded in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

One (1) noise-related complaint was received on 27 February 2014 and followed up by the Environmental Team in February 2014. The complaint is still under investigation as of the end of February 2014 and the investigation result will be reported in the next Monthly EM&A Report (March 2014).

No notification of summons and successful prosecution was received in the reporting month.

Future Key Issues

Key issues to be considered in the coming month included:-

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Site runoff should be properly collected and treated prior to discharge;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Suppress dust generated from excavation, breaking and drilling activities, haul road traffic and grout mixing;
- Quieter powered mechanical equipment should be used;
- Closely check and replace the sound insulation materials wrapped at the concrete breaker tip regularly;
- Better scheduling of construction works to minimize noise nuisance; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Background

- 1.1.1. Tolo Highway and Fanling Highway are expressways in the North East New Territories connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 9, which links other major strategic routes to Shenzhen. At present, this section of Route 9 is dual 3-lane carriageway. However, at several major interchanges along this section of Route 9, the highway is only dual-2 lane. Severe congestion is a frequent occurrence during peak periods, particularly in the Kowloon bound direction.
- 1.1.2. The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.
- 1.1.3. The Project is a designated project and is governed by an Environmental Permit (EP-324/2008)(EP) issued by EPD on 23 December 2008. Subsequently, EPD issued a Variation of Environmental Permit (EP-324/2008/A) (VEP) on 31 January 2012.
- 1.1.4. The scope of the Project comprises mainly:-
 - (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
 - (ii) Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads:
 - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). The construction works of Stage 1 commenced on 23 November 2009 and will tentatively be completed in April 2014; while the construction works of Stage 2 commenced on 21 November 2013. This report focuses on Stage 1 of the Project only.
- 1.1.6. The construction works for Stage 1 of the Project will be implemented under 2 works contracts (Contract 1 and Contract 2). Contract 1 covers the section of Tolo Highway between Island House Interchange and Ma Wo, Contract 2 covers the section of Tolo Highway between Ma Wo and Tai Hang.
- 1.1.7. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for the Contracts).
- 1.1.8. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of Contract 1 of Stage 1 of the Project, while Gammon Construction Limited (GCL) was commissioned as the Contractor of Contract 2 of Stage 1 of the Project.
- 1.1.9. AECOM Asia Co. Ltd. was employed by HyD as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for Stage 1 of the Project and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contracts.
- 1.1.10. The construction phase of Stage 1 under the EP commenced on 23 November 2009.
- 1.1.11. According to the updated EM&A Manual of Stage 1 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 1 of the Project commenced on 23 November 2009.



1.2 Scope of Report

1.2.1 This is the fifty-second monthly EM&A Report under the Agreement No. CE 20/2009 (EP) - Widening of Tolo Highway between Island House Interchange and Tai Hang – Investigation. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for Stage 1 of the Project in February 2014.

1.3 Project Organization

1.3.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Party Position		Telephone	Fax
ER of Stage 1, Contract 1 Chief Resident Engineer /TOLO1 Veatch Joint Venture)		James Tsang	9038 8797	26674000
ER of Stage 1, Contract 2 Chief Resident Engineer /TOLO2 Veatch Joint Venture)		Paul Appleton	9097 5833	2653 2348
IEC of Stage 1 (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Terence Kong	2828 5919	2827 1823
Contractor of Stage 1, Contract 1	Site Agent	Eddie Tang	9863 7686	2667 5666
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2667 5666
	Environmental emeer	M L Lam	9489 4641	2667 5666
	Site Agent	John Chan	3126 1202	2559 3410
Contractor of		Thomson Chang	9213 6569	2559 3410
Stage 1, Contract 2 (Gammon Construction Limited)	Environmental Officer	Crispin Ao 9223 87	9223 8773	2559 3410
	Environmental Officer	Jason Cheng	9837 9323	2559 3410
		Jimmy Tsang	9720 9738	2559 3410

Party	Position	Name	Telephone	Fax
ET of Stage 1 (AECOM Asia Company Limited)	ET Leader	Y T Tang	3922 9393	3922 9797

1.4 Summary of Construction Works

- 1.4.1 The construction phase of Stage 1 under the EP commenced on 23 November 2009.
- 1.4.2 Details of the construction works carried out by the Contract 1 Contractor (China State Construction Engineering (Hong Kong) Ltd.) in this reporting period are listed below:-
 - Temporary shoring, sheetpiling and excavation
 - At-grade road construction
 - Retaining wall construction
 - Noise barrier footing construction
 - Noise barrier panels installation
 - Asphalt laying
 - Installation of Drainage Pipes
- 1.4.3 Details of the construction works carried out by the Contract 2 Contractor (Gammon Construction Ltd.) in this reporting period are listed below:-
 - Condition survey of existing structures
 - Setting up the temporary traffic arrangement
 - Excavation of trial trenches to locate existing utilities
 - Construction of haul road
 - Construction of concrete profile barrier and beam barrier
 - Construction of Pilecap / Spread footing of noise barriers / semi-noise enclosures
 - Slope works, including installation of soil nails
 - Noise barrier construction
 - Modification of existing bridge structures
 - Entrusted watermains works
 - Sewer Installation
 - Road and drainage works
 - Landscaping works
- 1.4.4 The Construction Programmes are shown in Appendix B.
- 1.4.5 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.
- 1.4.6 The environmental mitigation measures implementation schedule are presented in Appendix C.

1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, water quality, noise, waste management, ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
 - All monitoring parameters;
 - Monitoring schedules for the reporting month and forthcoming months;
 - Action and Limit levels for all environmental parameters:
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project EIA study final report; and
 - Environmental requirement in contract documents.



2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at 4 air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

Table 2.1 Air Quality Monitoring Equipment

Equipment	Brand and Model	
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)	
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170 & GMW-2310)	

2.3 Monitoring Locations

- 2.3.1 Monitoring locations AM2 and AM3 were set up at the proposed locations in accordance with updated EM&A Manual. However, for monitoring locations: Dynasty View and Tai Po Garden, proposed in the updated EM&A Manual, as approval could not be obtained from the owner's corporation of the premises, baseline and impact air quality monitoring was conducted at 13 Ha Wun Yiu (AM1) and Tai Kwong Secondary School (AM4) respectively. The monitoring station at 13 Ha Wun Yiu (AM1) was relocated to Fan Sin Temple, 3 Sheung Wun Yiu (AM1A) in February 2010. Also, the monitoring station at Tai Kwong Secondary School (AM4) was relocated to 168 Shek Kwu Lung Village (AM4A) in September 2011.
- 2.3.2 Figure 2.1 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Impact Air Quality Monitoring Stations

Monitoring Station Location		Description	
AM1A	3 Sheung Wun Yiu	Ground floor at the boundary outside Fa Sin Temple	
AM2	12 Shan Tong New Village	Ground floor outside the premises	
AM3	Riverain Bayside	Roof of the switch room	
AM4A 168 Shek Kwu Lung Village		Roof of the switch room	



2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration		
1-hour TSP	Three times every 6 days while the highest dust impact was expected		
24-hour TSP	Once every 6 days		

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
 - (v) No furnace or incinerator flues nearby.
 - (vi) Airflow around the sampler was unrestricted.
 - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (viii) A secured supply of electricity was obtained to operate the samplers.
 - (ix) The sampler was located more than 20 meters from any dripline.
 - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.

(b) Preparation of Filter Papers

- (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
- (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
- (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

- (i) The power supply was checked to ensure the HVS works properly.
- (ii) The filter holder and the area surrounding the filter were cleaned.
- (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
- (vi) Then the shelter lid was closed and was secured with the aluminum strip.



- (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- (viii) A new flow rate record sheet was set into the flow recorder.
- On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
- (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
- (xi) The initial elapsed time was recorded.
- (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
- (xiii) The final elapsed time was recorded.
- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

- (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
- (iii) Calibration certificate of the HVSs are provided in Appendix E.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.

(b) Maintenance and Calibration

- (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
- (ii) 1-hour validation checking of the TSP meter against HVS is carried out yearly at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for environmental monitoring in February 2014 is provided in Appendix F.

2.7 Monitoring Results

2.7.1 The baseline condition of air quality in the Project site was reviewed in October and November 2009. A baseline monitoring of air quality, in terms of 1-hour Total Suspended Particulates (TSP) and 24-hour TSP, was carried out from 20 October 2009 to 4 November 2009 for 14 days. The baseline monitoring report was submitted by ETL and approved by the ER and the IEC on 9 November 2009. Action Levels for air quality were established and are summarized in Table 2.4, Table 2.5 and Appendix D.

2.8 Results and Observations

2.8.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4 Summary of 1-hour TSP Monitoring Results in the Reporting Period

	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM1A	76.7	70.8 – 82.4	302.1	500
AM2	77.2	71.1 – 84.2	301.9	500
AM3	77.0	70.1 – 83.1	301.9	500
AM4A	77.4	69.8 – 84.6	302.3	500

Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM1A	35.6	24.5 – 47.8	176.6	260
AM2	29.8	5.2 – 42.0	178.6	260
AM3	50.2	45.7 – 58.9	193.1	260
AM4A	36.2	28.3 – 47.0	198.5	260

Remarks: Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

- 2.8.2 The major dust source in the reporting period included construction activities from Stage 1 of the Project, as well as nearby traffic emissions.
- 2.8.3 All 1-hour and 24-hour TSP results were below the Action and Limit Level at all monitoring locations in the reporting month.
- 2.8.4 The event action plan is annexed in Appendix J.
- 2.8.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from Hong Kong Observatory Sha Tin and Tai Mei Tuk Automatic Weather Station. As some of the weather data in February 2014 from the Tai Mei Tuk Automatic Weather Station were missing, the weather data from Tai Po Automatic Weather Station in February 2014 are included in Appendix H for supplementary purpose.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of Stage 1 of the Project. The Action and Limit level of the noise monitoring is provided in Appendix D.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Table 3.1 Noise Monitoring Equipment

Equipment Brand and Model Integrated Sound Level Meter Rion NL-31 / B&K 2238 / B&K 2250-L Acoustic Calibrator Rion NC-73	Brand and Model
Integrated Sound Level Meter	Rion NL-31 / B&K 2238 / B&K 2250-L
Acoustic Calibrator	Rion NC-73

3.3 Monitoring Locations

- 3.3.1 Monitoring stations NM3, NM6 and NM7 were set up at the proposed locations in accordance with updated EM&A Manual. However, for monitoring locations: Tai Po Garden (NM1), Dynasty View (NM2), Hong Kong Teachers' Association Lee Heng Kwei Secondary School (NM4) and Grand Palisades (NM5), proposed in the updated EM&A Manual, impact noise monitoring was conducted at alternative monitoring locations, as approval of access could not be obtained from the owner's corporation of the premises or the principal of the education institutes. The monitoring station at Tai Kwong Secondary School (NM1) was relocated to 168 Shek Kwu Lung Village (NM1A) in September 2011.
- 3.3.2 Figure 2.1 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
NM1A	168 Shek Kwu Lung Village	1m from the exterior wall of the village house
NM2	38 Ha Wun Yiu	1.2m from the ground floor free-field of the village house
NM3	Wong Shiu Chi Middle School	1m from the exterior of the roof top façade of the New Wing
NM4	Uptown Plaza	1m from the exterior of the roof top façade of Block 4
NM5	The Paragon	1m from the exterior of the roof top façade of the club house
NM6	PLK Tin Ka Ping Primary School	1.2m ground floor free-field near the entrance
NM7	Riverain Bayside	1m from the exterior of the roof façade of the switch room



3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. $L_{\rm eq},L_{\rm 10}$ and $L_{\rm 90}$ would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) Façade measurements were made at all monitoring locations, except monitoring stations NM2 and NM6.
- (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at NM2 and NM6.
- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30\text{-minutes})}$ during non-restricted hours i.e. 07:00-1900 on normal weekdays; $L_{eq(5\text{-minutes})}$ during restricted hours i.e. 19:00-23:00 and 23:00-07:00 of normal weekdays, whole day of Sundays and Public Holidays
- (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) 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.
- (f) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for environmental monitoring in February 2014 is provided in Appendix F.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

Table 3.4 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eg (30 mins)}	L _{eg (30 mins)}	L _{eg (30 mins)}
NM1A	62.3	60.4 - 64.1	75
NM2	65.0	63.2 – 67.9	75
NM3	61.5	58.4 – 63.9	70/65#
NM4	64.2	62.0 - 65.7	75
NM5	61.7	59.9 – 63.7	75
NM6	63.0*	62.7 – 63.1*	70#
NM7	59.3	54.6 – 61.4	75

^{*+3}dB(A) Facade correction included

- 3.7.2 No noise complaint related to 0700 1900 hours on normal weekdays was received and followed up by the Environmental Team in the reporting period. Hence, no Action Level exceedance was recorded.
- 3.7.3 No noise monitoring result exceeding the Limit Level was recorded at all monitoring stations in the reporting month.
- 3.7.4 Major noise sources during the noise monitoring included construction activities of Stage 1 of the Project and nearby traffic noise and general school activities.
- 3.7.5 The event action plan is annexed in Appendix J.



[#] Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

ENVIRONMENTAL SITE INSPECTION AND AUDIT 4

4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for Stage 1 of the Project. In the reporting month, 5 site inspections were carried out on 5, 12, 19 and 26 February 2014 for Contract 1 of the Project, and 4 site inspections for Contract 2 of the Project were carried out on 6, 13, 20 and 27 February 2014.
- 4.1.2 The environmental site inspections summaries are provided in Appendix K.
- 4.1.3 Particular observations during the site inspections for Contract 1 are described below:

Air Quality

4.1.4 No adverse observation was identified in the reporting month.

Noise

4.1.5 No adverse observation was identified in the reporting month.

Water Quality

4.1.6 No adverse observation was identified in the reporting month.

Chemical and Waste Management

4.1.7 The Contractor was reminded to clear the general refuse under the bridge.

Landscape and Visual Impact

4.1.8 The Contractor was reminded to fence off retained trees under Bridge 10A for maximum protection.

Miscellaneous

- 4.1.9 No adverse observation was identified in the reporting month.
- 4.1.10 Particular observations and reminder during the site inspections for Contract 2 are described below:

Air Quality

4.1.11 No adverse observation was identified in the reporting month.

Noise

4.1.12 No adverse observation was identified in the reporting month.

Water Quality

4.1.13 Oil leakage was observed under the generator. The Contractor was reminded to close the knob of the drip tray and clear the oil stain on the ground. Moreover, the drip tray should be cleared and kept tidy.

Chemical and Waste Management



- 4.1.14 Chemical containers were found under Bridge R15a. The Contractor was reminded to provide drip tray or storage the containers properly.
- 4.1.15 The Contractor was reminded to provide a drip tray to hold the oil drums or remove the oil drums.
- 4.1.16 The Contractor was reminded to label chemical containers.

Landscape and Visual Impact

4.1.17 No adverse observation was identified in the reporting month.

Miscellaneous

4.1.18 The Contractor was reminded to clear the stagnant water inside the waste skip to prevent mosquito breeding.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contract 1 Contractor (CSHK) and the Contract 2 Contractor (GCL) are registered as chemical waste producers for Stage 1 of the Project. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 4.2.2 As advised by the Contract 1 Contractor (CSHK), 109m³ of inert C&D materials was disposed of to the public fill at Tuen Mun 38 (of which 0m³ was broken concrete), while 20m³ of general refuse was disposed of at the NENT landfill. 114kg of paper/cardboard packaging, 3,773kg of plastics and 0kg of metals were collected by recycling contractors in the reporting month. 1,143m³ and 370m³ of inert C&D materials were reused on site and reused in NENT for backfilling purpose respectively. 0kg of chemical waste was collected by the licensed contractor in the reporting period.
- 4.2.3 As advised by the Contract 2 Contractor (GCL), 150m³ of inert C&D materials was disposed of to Tuen Mun 38 and 225m³ of general refuse was disposed of to the NENT landfill in the reporting period. No paper/cardboard packaging, plastics or metals was collected by the recycling contractors in the reporting month. 0m³ and 260m³ of inert C&D materials were reused on site and reused in other projects respectively Besides, no chemical waste was collected by the licensed contractor in the reporting period.
- 4.2.4 The Contract 1 Contractor (CSHK) and the Contract 2 Contractor (GCL) are advised to maintain on site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

4.3 Environmental Licenses and Permits

4.3.1 The environmental licenses and permits for Stage 1 of the Project and valid in the reporting month is summarized in Table 4.1.

Table 4.1 Summary of Environmental Licensing and Permit Status

Statutory	License/ Permit	License or	Valid Period				License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder			
EIAO WPCO -	Environmental Permit	EP- 324/2008/A	31/01/2012	N/A	HyD	Tolo Highway/Fanling Highway between Island House Interchange and Ma Wo		
	Discharge License (Office)	WT00005096 -2009	03/12/2009	31/12/2014	CSHK	Discharge at Site Office		
WDCC	Discharge License (Site)	WT00005445 -2009	15/12/2009	31/12/2014	CSHK	Discharge of Construction Runoff		
WPCO	Discharge License (Office)	WT00006782 -2010	25/06/2010	30/06/2015	GCL	Discharge at Site Office		
	Discharge License (Site)	Permit No. From To	GCL	Discharge of Construction Runoff				
WDO	Chemical Waste		25/09/2009	N/A	Permit Holder Holder	Chemical waste produced in Contract HY/2008/09		
Discharge License (Site) Chemical Waste Producer Registration Billing Account			18/05/2010	N/A	GCL	Chemical waste produced in Contract HY/2009/08		
WDO	Billing Account for Disposal of	7009328	08/09/2009	N/A	CSHK	Waste disposal in Contract HY/2008/09		
WBO				N/A	GCL	Waste disposal in Contract HY/2009/08		
			02/10/2013 01/04/2014		CSHK	Modification of Sign Gantry_G11, G13, G70, G73, G74, G75 & G76		
	Construction		14/12/2013	23/02/2014	CSHK	Road Paving on Tolo Highway between Ma Wo and NLKRB (Shatin Bound)		
NCO	Noise Permit		02/01/2014	31/03/2014	CSHK	Construction works next to MTRC's tracks protection zone		
		GW- RN0801-13	28/12/2013	23/02/2014	CSHK	Road Marking Alternation at Tolo Highway at Island House Interchange		



Statutory	Statutory License/ Reference Permit		Valid	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
		GW- RN0807-13	29/12/2013	23/02/2014	сѕнк	Road pavement for Slip Road from Tolo Highway to Tai Po Road near Yuen Chau Tsai (Fanling Bound)
		GW- RN0810-13	31/12/2013	23/02/2014	CSHK	Road Paving Reconstruction on Slip Road from Tai Po Road-Yuen Chau Tsai
		GW- RN0812-13	03/01/2014	25/03/2014	CSHK	Sign Gantry at Tolo Highway between Yuen Chau Tsai and Ma Wo
		GW- RN0815-13	04/01/2014	23/02/2014	СЅНК	Road Marking Alternation at Tolo Highway between Ma Wo and The Paragon (Fanling Bound)
		GW- RN0819-13	06/01/2014	28/02/2014	CSHK	Road Pavement at Island House on Normal Weekdays
		GW- RN0822-13	11/01/2014	23/02/2014	СЅНК	Road Paving on Tolo Highway between Grand Dynasty and The Paragon (Shatin Bound)
		GW- RN0016-14	16/01/2014	28/02/2014	СЅНК	Road pavement for Slip Road from Tolo Highway to Tai Po Road near Yuen Chau Tsai (Fanling Bound)
		GW- RN0025-14	17/01/2014	28/02/2014	СЅНК	Road Pavement at Tolo Highway between Wan Tau Tong Estate and Tai Po Road (Shatin Bound)
		GW- RN0030-14	21/01/2014	28/02/2014	CSHK	Installation of Sign Gantries G18
		GW- RN0031-14	23/01/2014	01/03/2014	СЅНК	Road Resurfacing on Tolo Highway between Ma Wo and Tai Po Road (Fanling Bound)
		GW- RN0039-14	27/01/2014	26/07/2014	CSHK	Construction wroks at Island House Interchange
		GW- RN0058-14	29/01/2014	01/03/2014	CSHK	Modification of Sign Gantries_G13-17, 66-68 & 70

Statutory Reference	License/	License or	Valid l	Period	License/ Permit	Remarks			
Reference	Permit	Permit No.	From	То	Holder				
		GW- RN0064-14	29/01/2014	01/03/2014	CSHK	Installation of Noise Barrier on Kwong Fuk West Viaduct			
		GW- RN0530-13	03/10/2013	02/02/2014	GCL	Renewal of GW- RN0194-13 Tolo Highway near Tai Po Tau Raw Water Pumping Station			
		GW- RN0695-13	17/11/2013	12/05/2014	GCL	General work and asphalt paving at Tolo Highway near Shek Kwu Lung and Ma Wo (CH18.1 - 19.2)			
		GW- RN0758-13	12/12/2013	27/02/2014	GCL	General Works at a section of Tolo Highway near Parc Versailles			
		GW- RN0785-13	28/12/2013	27/02/2014	GCL	Stitching Construction at Section of Tolo Highway (Shatin Bound) CH19 to CH18.8A			
		GW- RN0786-13	19/12/2013	11/06/2014	GCL	Renewal of GW- RN0484-13 Tolo Highway and Fanling Highway near Tai Po Tai Wo Road, Lam Kam Interchange & Tai Wo Service Road West			
		GW- RN0795-13	24/12/2013	27/02/2014	GCL	Erection of Sign Gantry at Tolo Highway (Fanling Bound) CH19.9 to CH20.1 near Lam Kam Interchange			
		GW- RN0817-13	04/01/2014	28/02/2014	GCL	Renewal of GW- RN0637-13 Erection of Sign Gantry at a section of Tai Po Tai Wo Road Uphill to Tolo Highway Northbound near Shek Kwu Lung			
		GW- RN0006-14	12/01/2014	23/02/2014	GCL	Lane Shifting at Tolo Highway CH19.8 - 17.95A near Ma Wo			
		GW- RN0018-14	15/01/2014	28/02/2014	GCL	Lane Shifting Works and Modification of Road Marking at			



Statutory Reference	License/ Permit	License or Permit No.		Period	License/ Permit	Remarks
			From	То	Holder	
						Tolo Highway CH19.9 to CH20.3B
		GW- RN0022-14	17/01/2014	29/03/2014	GCL	Installation of Sign Gantry G26 at Tolo Highway (Fanling Bound) CH19.55 to CH19.65B
		GW- RN0023-14	18/01/2014	28/02/2014	GCL	Installation of Sign Gantry G25 at Tolo Highway (Fanling Bound) CH19.3 to CH19.5B
		GW- RN0037-14	28/01/2014	12/04/2014	GCL	Erection of Sign Gantry G29 at Lam Kam Flyover (Fanling Bound) from CH21.0 to CH21.2B
		GW- RN0052-14	26/01/2014	23/02/2014	GCL	Road Sections of Tolo Highway (South Bound) between Shek Kwu Lung and Dynasty View, Tai Po, New Territories
		GW- RN0057-14	29/01/2014	28/02/2014	GCL	Tolo Highway (Fanling Bound) near Mun Shue Hang, Tai Po, New Territories

4.4 Implementation Status of Environmental Mitigation Measures

- 4.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 4.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 4.5.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 4.5.2 For construction noise, no Action and Limit Level exceedance was recorded at all monitoring stations in the reporting period.



4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 4.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 4.1.
- 4.6.2 One (1) noise-related complaint was received on 27 February 2014 and followed up by the Environmental Team in February 2014. The complaint is still under investigation as of the end of February 2014 and the investigation result will be reported in the next Monthly EM&A Report (March 2014).
- 4.6.3 The details of the complaint are as follows:
 - EPD referred a follow-up complaint from a resident of Ma Wo on 27 February 2014. The complainant said that the Contractor caused serious noise nuisance at non-restricted hours.
- 4.6.4 No new notification of summons and prosecution was received in the reporting period.
- 4.6.5 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Month

- 5.1.1 The major construction works for Contract 1 in March 2014 will be:-
 - Temporary shoring, sheetpiling and excavation
 - Retaining wall construction
 - Noise barrier footing construction
 - Noise barrier installation
 - Asphalt laying
 - Installation of drainage pipes
- 5.1.2 The major construction works for Contract 2 in March 2014 will be:-
 - Condition survey of existing structures
 - Setting up the temporary traffic arrangement
 - Excavation of trial trenches to locate existing utilities
 - Construction of haul road
 - Construction of concrete profile barrier and beam barrier
 - Construction of Pilecap / Spread footing of Noise Barrier / Semi Noise Enclosure
 - Slope works, including installation of soil nails
 - Noise barrier construction
 - Modification of existing bridge structures
 - Entrusted watermains works
 - Sewer Installation
 - Road and drainage works
 - Landscaping works

5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in March 2014:-
 - Properly store and label oils and chemicals on site;
 - Chemical, chemical waste and waste management;
 - Collection of construction waste should be carried out regularly;
 - Site runoff should be properly collected and treated prior to discharge;
 - Properly maintain all drainage facilities and wheel washing facilities on site;
 - Exposed slopes should be covered up properly if no temporary work will be conducted;
 - Suppress dust generated from excavation, breaking and drilling activities, haul road traffic and grout mixing process;
 - Quieter powered mechanical equipment should be used;
 - Closely check and replace the sound insulation materials wrapped at the concrete breaker tip regularly;
 - Better scheduling of construction works to minimize noise nuisance; and
 - Tree protective measures for all retained trees should be well maintained.

5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in March 2014 is provided in Appendix F.



CONCLUSIONS AND RECOMMENDATIONS 6

6.1 Conclusions

- 6.1.1 The construction phase and EM&A programme of Stage 1 of the project commenced on 23 November 2009.
- 6.1.2 1-hour TSP, 24-hour TSP and noise monitoring were carried out in the reporting period.
- 6.1.3 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.4 No Action and Limit Level exceedance for construction noise was recorded at all monitoring stations in the reporting month.
- 6.1.5 Environmental site inspection was carried out 8 times in February 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- One (1) noise-related complaint was received on 27 February 2014 and followed up by the 6.1.6 Environmental Team in February 2014. The complaint is still under investigation as of the end of February 2014 and the investigation result will be reported in the next Monthly EM&A Report (March 2014).
- 6.1.7 No new notification of summons and prosecution was received in the reporting period.

6.2 Recommendations

6.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:-

Air Quality Impact

- The soil stockpiles should be properly covered.
- The grouting station should be properly sheltered as one of the dust control measures

Construction Noise Impact

- Properly erect the temporary noise barriers in accordance with the Environmental Permit requirement.
- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Sound insulation materials shall be wrapped at the breaker tip for concrete breaking works.

Water Quality Impact

- Preventive measures should be implemented to avoid the spread of mud trails on the public road.
- Silty effluent should be treated/desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
- Stagnant water accumulated within works area should be removed.

Chemical and Waste Management



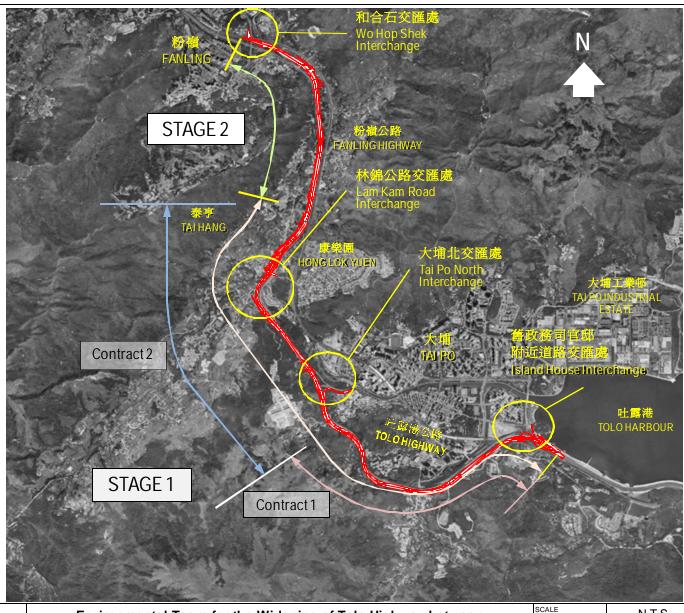
- C&D materials and wastes, general refuse should be sorted properly and removed timely.
- All chemical containers and oil drums should be properly stored.
- All plants and vehicles on site should be properly maintained to prevent oil leakage.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil leakage.
- Oil stains on soil surface and empty chemical containers should be cleared and disposed of as chemical waste.
- Drip tray should be provided to prevent oil leakage.
- Only the recycling materials should be dumped into the appropriate recycling bins.

Landscape and Visual Impact

• All retained trees should be properly fenced off at the works area.



FIGURES



AECOM

Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation

General Project Layout Plan

SCALE

N.T.S.

DATE

Dec-09

CHECK

ENFL

DRAWN

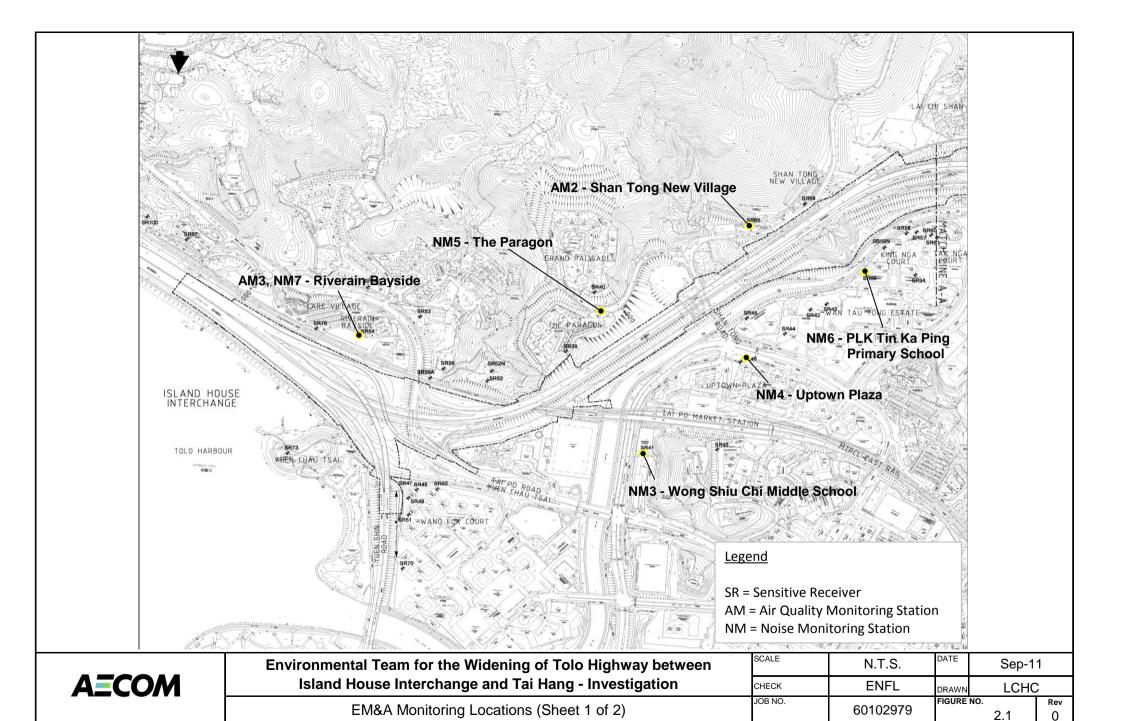
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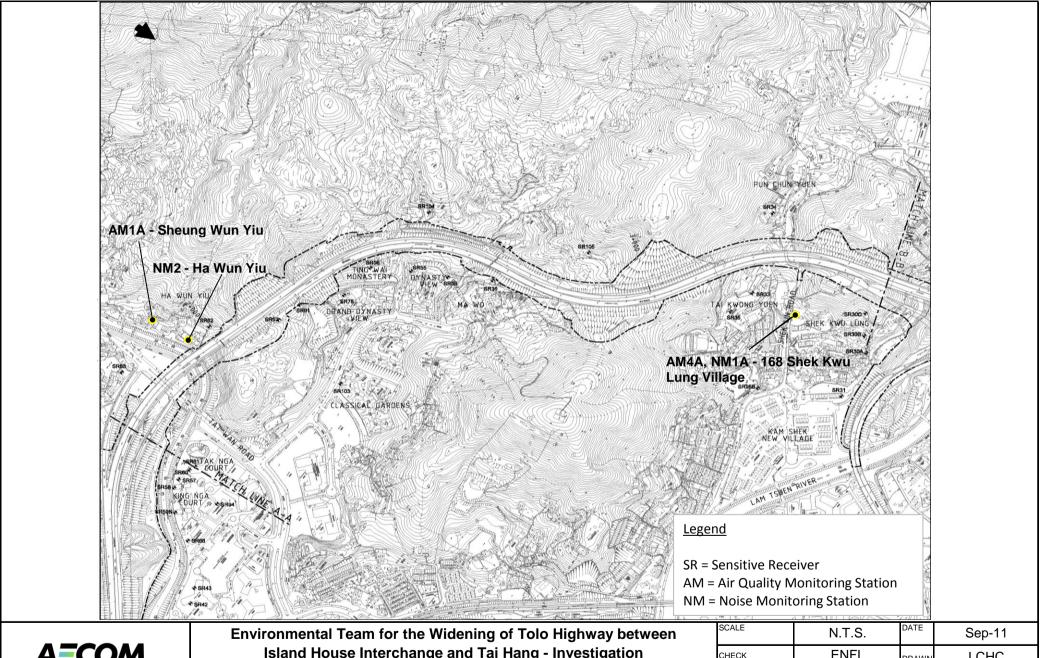
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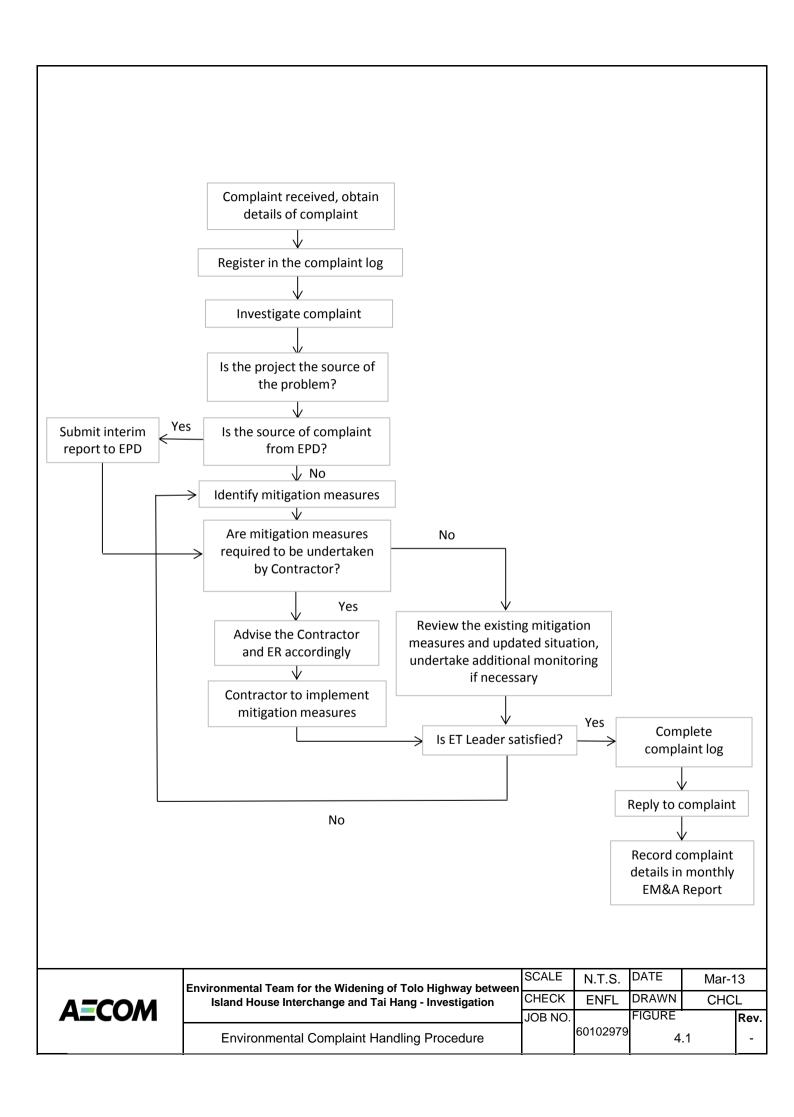
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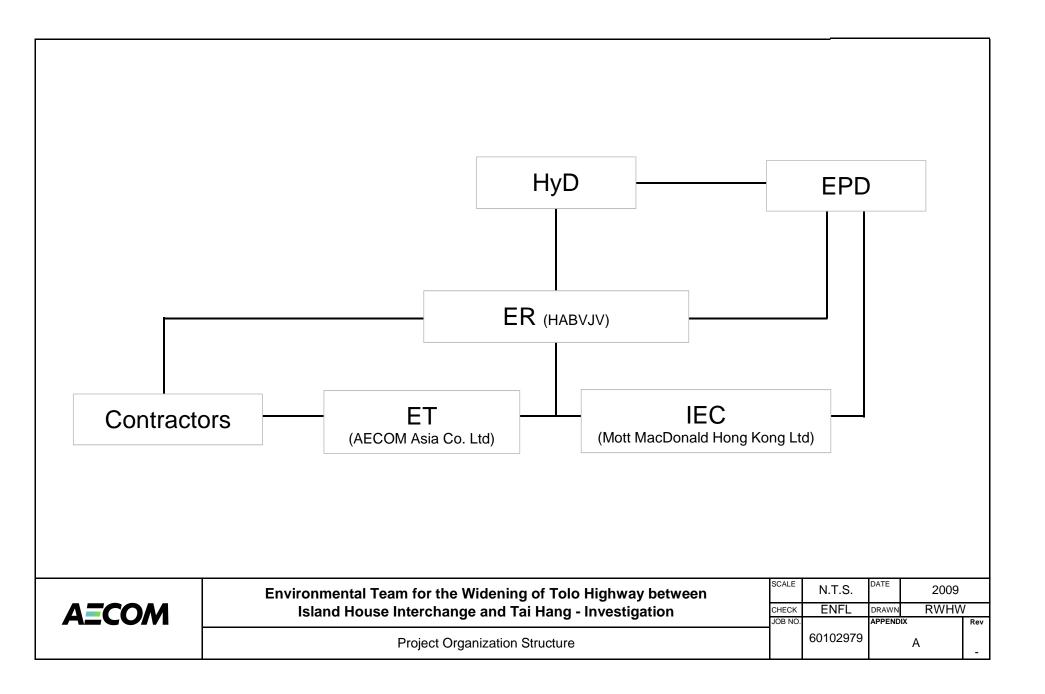


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Island House Interchange and Tai Hang - Investigation **ENFL** CHECK LCHC DRAWN JOB NO. FIGURE NO. Rev 60102979 EM&A Monitoring Locations (Sheet 2 of 2) 2.1 0



APPENDIX A PROJECT ORGANIZATION STRUCTURE



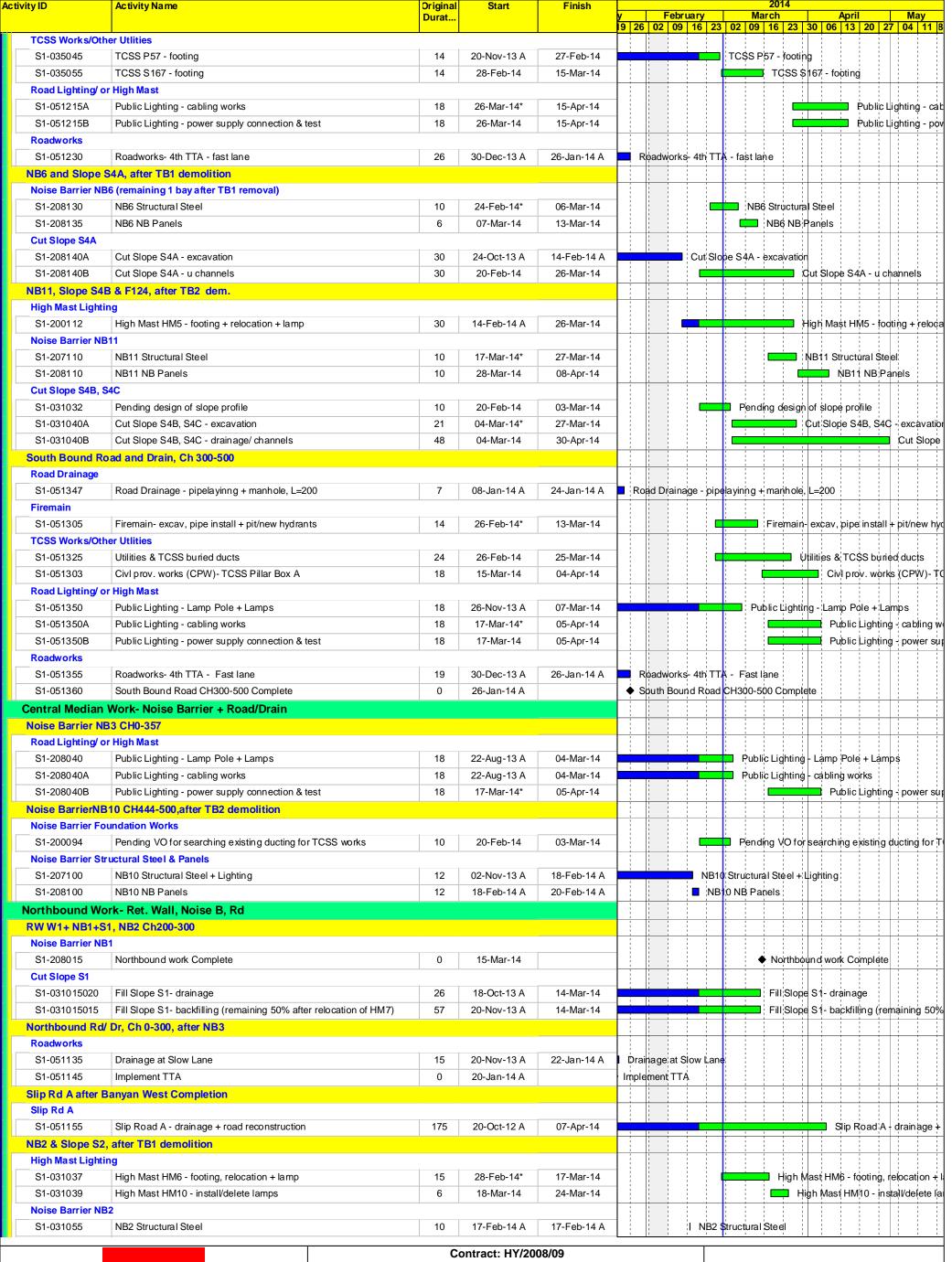
APPENDIX B CONSTRUCTION PROGRAMMES

vity ID	Activity Name	Original Durat	Start	Finish	V	Feb	ruary			2014 March		April		Ma	av
		Durat			9 26			23		09 16 23	30 06		20 27		11
KEY DATES										1 1					
Section Comple															
Section Complete	tion Date														L
Key Date		1													
KD-300900	KD9 Section 9 Area SA1, 3 to 9A Road Maintenance (1580)	0		23-Feb-14*			1	▶ KI	09 Se	ction 9 Are	11 1	1 1	1 1	1 1	1
KD-300200	KD2 Section 2 Areas SA8,SA9 + SA9A Work (1052d)	0		31-Mar-14*						1 1	♦ KD2	Section	n 2 Area	1 1	1
KD-300600	KD6 Section 6 Remainder Landscape Softwork (1355d)	0		03-May-14*	-		1 1			1 1	1 1	1 1		♦ KD)6 S
SOFT LANDS	CAPE IN SA1: SECT. 5 WORKS									1 1					
Landscaping W	orks									1 1					
Landscape Work	ks														
									į						
S5-212800	Areas SA1 Irrigation + Landscape Soft Works	30	01-May-14	30-May-14					i	1 1		<u> </u>			
REMAINDER	OF SOFT LANDSCAPE: SECT. 6 WORKS														
Landscaping W	orks									1 1		1 1			
Landscape Work	ks				-							1 1	-		-
										1 1		1 1			
S6-212800	Remainder Irrigation + Landscape Soft Works	30	03-Apr-14	03-May-14						1 1		1 1	1	Re	mai
REMAINDER	OF ESTABLISHMENT WORKS: SECT. 8 WORK	S		,						1 1					
Establishment V					1					1 1	1 1	1 1			
	Establishment Works				-					1 1	1 1	1 1		1 1	1
<u> </u>					-				-	1 1	1 1	1 1			-
S8-214800	Remainder - Establishment Works	365	03-May-14	03-May-15	1										
ROUTINE MAI	INTENANCE: SECT. 9 WORKS								-			1			
Road Maintenan								-	- 1			1 !		+	-
	nance of Road Network													-	-
- Noutifie Mainten	iance of Road Network						1 1		1		1 1	+ +		-	-
S9-100000	Road Maintenance of Road Network	1401	22-Feb-10 A	23-Feb-14*				l R	; oad M	ainte nance	of Road	Netwo	ork		
	H 500: SECT. 1 WORKS											1 1			-
							-		- !			-		-	-
	: Kwong Fuk West				+							+ +			-
Noise Barrier at	Kwong Fuk West Viaduct						+ 1			1 1	1 1	+ +		-	-
	Pier Head (incl. all cast-in item)-PC5A(Tradition formwork)	9	21-Oct-13 A	22-Feb-14	- !			Dia	r Has	ad (incl. all	cact_in ite	m)-PC	5Δ(Trac	dition	for
S1-180700A	KFWV structural steel, (bay 1-5)	18	09-Apr-14	01-May-14	-			' '	1100	au (iiroi. air		,,,,,, C.	i	KFV	1
S1-180700A	KFWV structural steel, (bay 1-3)	26	09-Apr-14	12-May-14	1				į			1 1		IXIE V	/ ₁ v v
S1-180800	KFWV Panel Installation, (bay 1-5)	14	03-Apr-14 02-May-14	19-May-14	-				į						7
S1-180820	KFWV Panel Installation, (bay 5-7)	26	13-May-14	12-Jun-14	-										F
TCSS Works/Oth		20	10-Way-14	12-5011-14	+ -					1 1	1 1	1 1		-	-
S1-180905	Civl prov. works (CPW)-TCSS Pillar Box B	18	15-Mar-14	04-Apr-14	-						Ci	ivl prov	. works	(CP)	; W)-
TCSS Works			10 1101	5 1 1 pr 1 1					-			1 1		1	-/
New Sign Gantry	v Construction				-		1 1		+			+ +			
G18 (VO205 Slip					-				- :			+ +			
GS1810	G18 Footing construction besides Slip road	25	20-Nov-13 A	22-Jan-14 A	G18	Footing	constr	uction	n bė:	sidės Slip r	oad				
GS1802	VO341 - Reconstruct existing drain pipe at G18 LHS footing	20	27-Dec-13 A	15-Mar-14	-				-	VO 34	1 - Recor	nstruct	existing	drai	¦ n pi
GS1790	Erect column besides slip road & Gantry Beam	4	23-Jan-14 A	24-Jan-14 A	■ Er	ct colum	n bes	ides	slip	oad & Gan	1 1	1 !			
GS1860	Design information by Engineer for existing NB modification availabe	0	20-Feb-14				•	Des	ign i n	formation b	y Engine	er for e	xisting	NB m	odi
GS1870	Existing NB modiifcation	14	17-Mar-14	01-Apr-14	1 !						11 7	i i	3 modiif	i i	
Existing Sign Ga	antry Modification			1								11			
G19 (VO: New Ga	antry Modification without drawing)			-								1 1			
GS2650	Carry out Sign Gantry modification (LCS, TCSS etc)-New Gantry	14	20-Feb-14	07-Mar-14			i 📥			Carry out S	ign Gant	ry mod	ification	ı (LC	S, T
GS2660	Speed Enforcement Cameria installation	2	08-Mar-14	10-Mar-14	1 :				ė	Speed E	nforceme	nt Can	neria ins	talla	tion
GS2670	VSLS and VDS installation	2	11-Mar-14	12-Mar-14	1 :					■ VSLS a	nd VDS i	nstallat	tion		
TCSS E&M Work	ks & Handover									1 1					
									- !	1 1			i		
S1-700075	T&C - Lighting	20	16-Apr-14	12-May-14								<u> </u>			<u> </u>
S1-700080	T&C - power supply system to TCSS	20	16-Apr-14	12-May-14					_ :			<u></u>	_		<u> </u>
Southbound Wo	ork- Ret. Wall, Noise B, Rd								- 1						
NB6, and Slope	S4														
High Mast Lightin	ng									1 1					
S1-203068	Install/delete lamps at high mast HM2 & HM3	18	20-Feb-14	12-Mar-14					_	Install/c	elete lam	ps at h	igh mas	st HM	/12 8
Noise Barrier NB	36									1 1					
S1-207055	NB production period	10	10-Apr-13 A	22-Feb-14				N	1	uction peri	i 1 i i i				
S1-207060	NB6 Structural Steel	6	24-Feb-14	01-Mar-14					- 1	Structura	11 1				
S1-208060	NB6 NB Panels	5	03-Mar-14	07-Mar-14	ļ					NB6 NB P	anels	1 1		<u> </u>	-
Road Lighting/ or					1					i i					
S1-700050	Cabling works for utilities/Lighting	20	20-Feb-14	14-Mar-14	1		=		-	Cablin	gworksf	i i	1 7	i - i	i
S1-203067	Relocate pillar box for high mast HM1 - HM10	18	15-Mar-14	04-Apr-14	1						i i	- 1	pillar b	1 1	1
S1-700070	Pillar Box + MCB Board installation	18	15-Mar-14	04-Apr-14					- 1	1 1	Pi	ııar Box	x + MCE	3 Boa	ird
Cut Slope S4	0.10		4- 6												
	Cut Slope S4 - drainage/ u channels	20	15-Oct-13 A	14-Mar-14					- 1	Cut SI	ope S4 -	drain aç	ge/ µ ch	anne	IS +
S1-031060B										1 1	- 1 i		: 1		
S1-031060B	n, Ch 0-300, after NB3									1 1		<u>.i. i.</u>		<u>i i</u>	<u>: </u>
S1-031060B	n, Ch 0-300, after NB3	r	ontract: HY/20	08/09			<u> </u>			1 1	11 1	<u> </u>			



Between Island House Interchange and Fanling

(Stage 1 - Between Island House Interchange and Ma Wo)



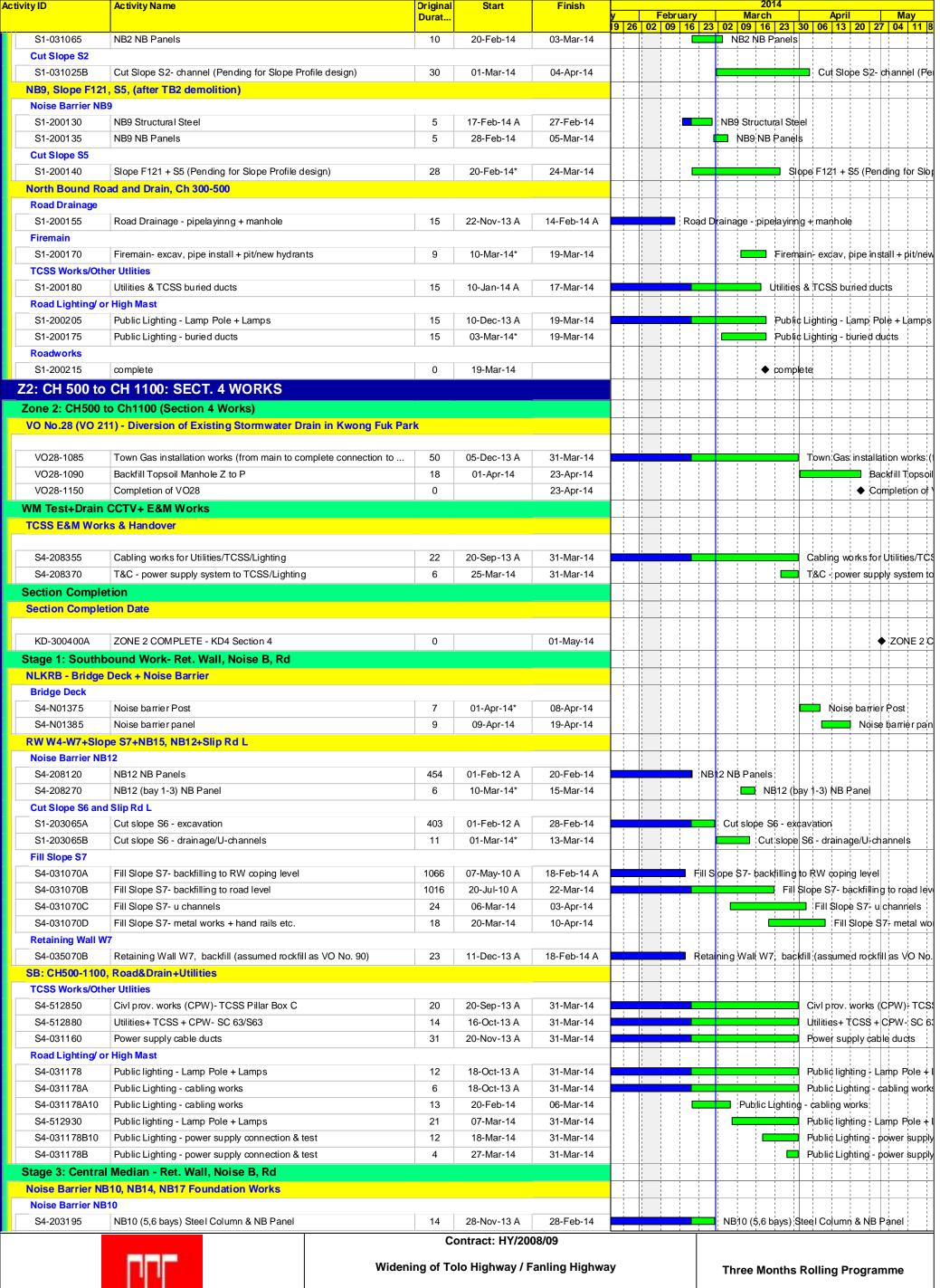


Widening of Tolo Highway / Fanling Highway

Between Island House Interchange and Fanling

(Stage 1 - Between Island House Interchange and Ma Wo)

Three Months Rolling Programme for the Period of 21 Feb 2014 to 20 May 2014

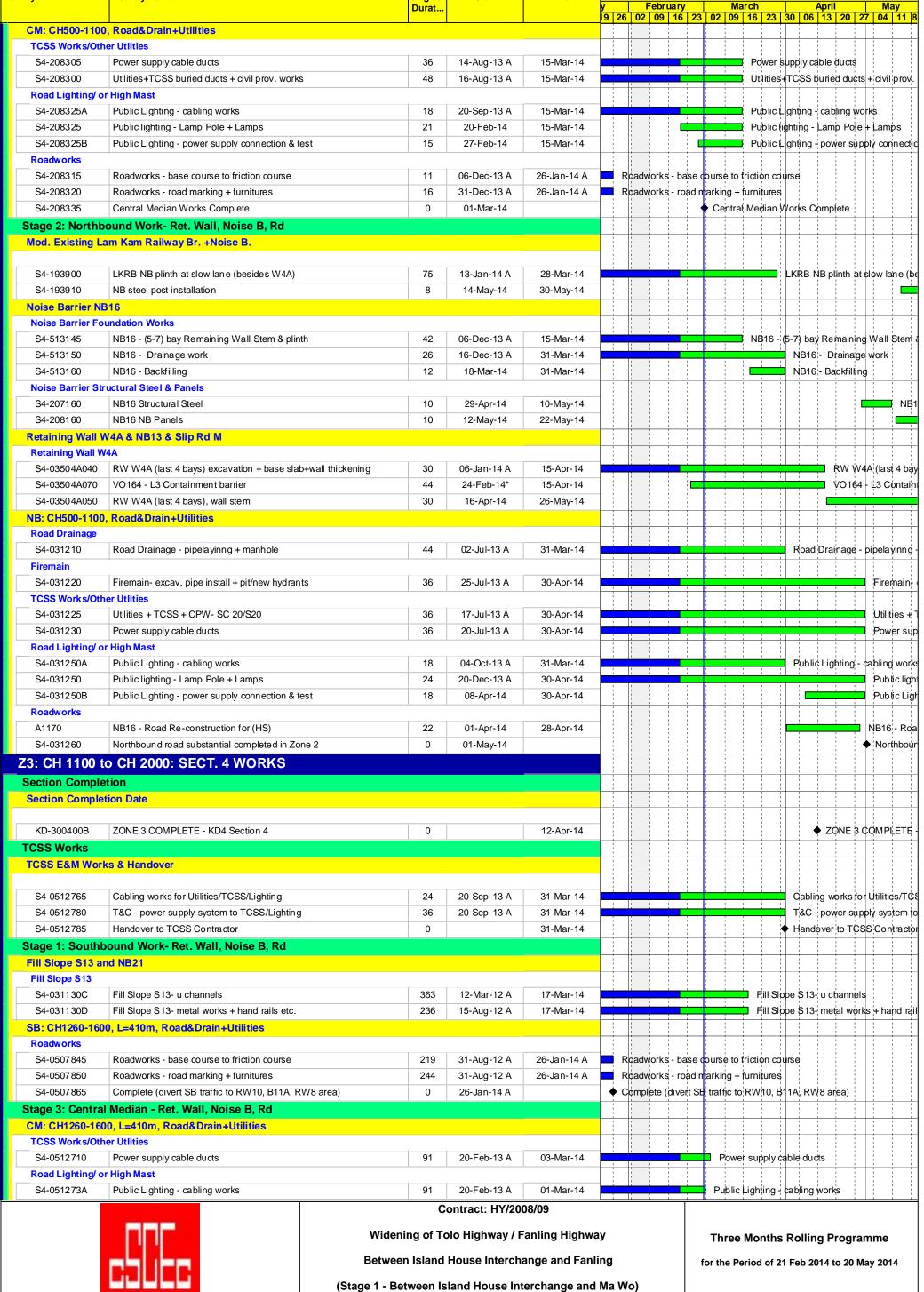




Between Island House Interchange and Fanling

for the Period of 21 Feb 2014 to 20 May 2014

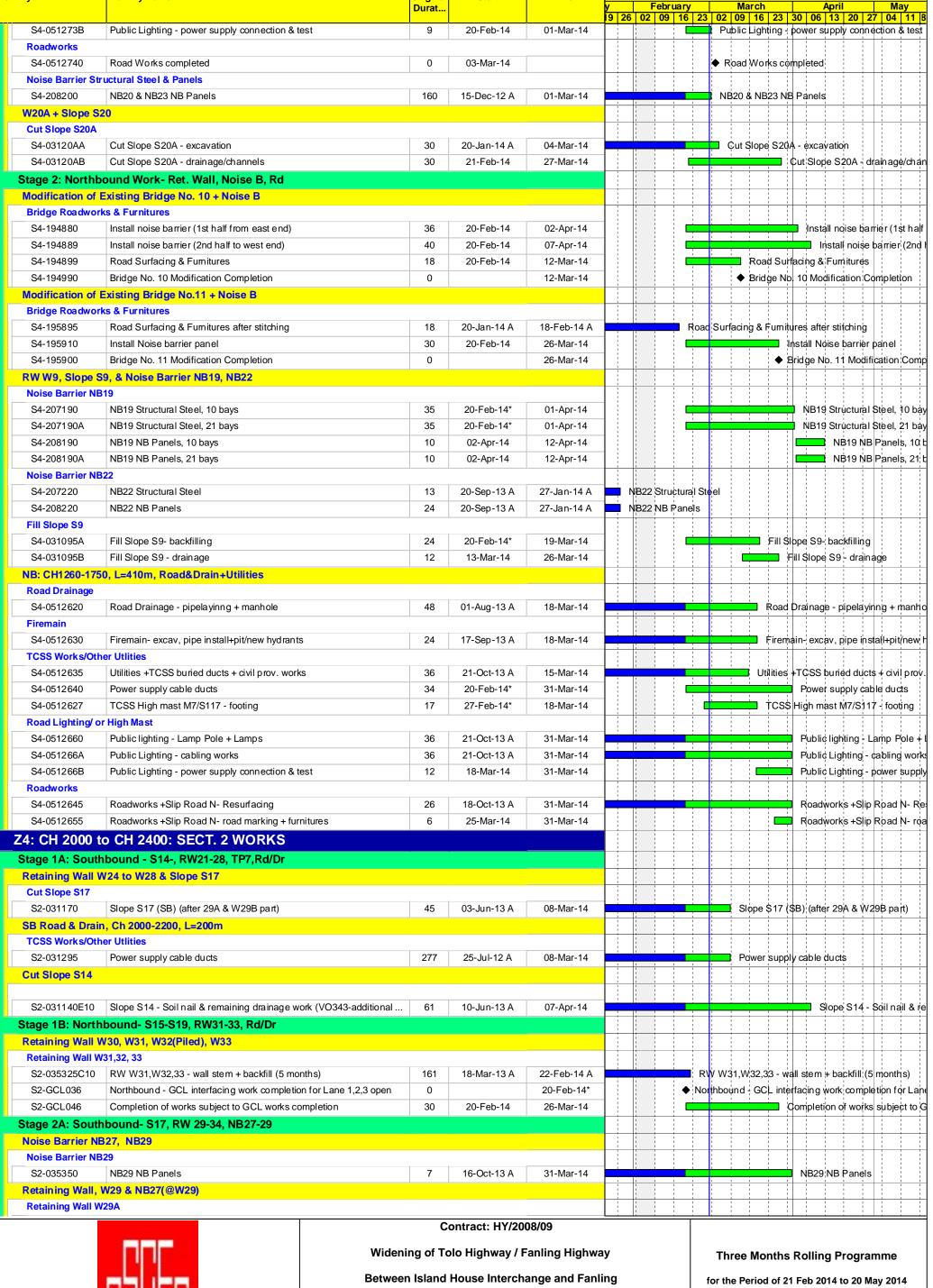
(Stage 1 - Between Island House Interchange and Ma Wo)



Original



Activity Name



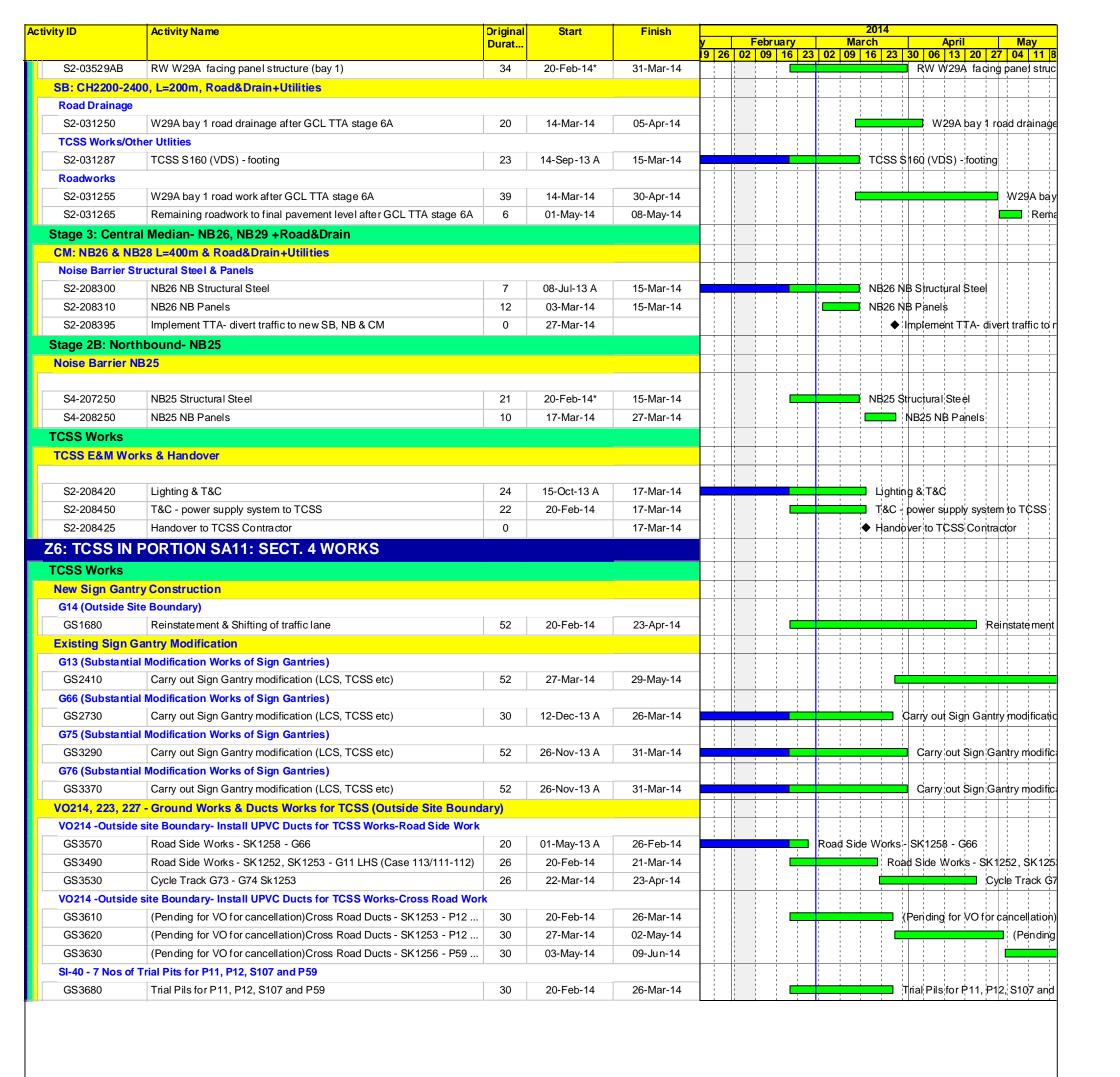
Original



Activity ID

Activity Name

(Stage 1 - Between Island House Interchange and Ma Wo)





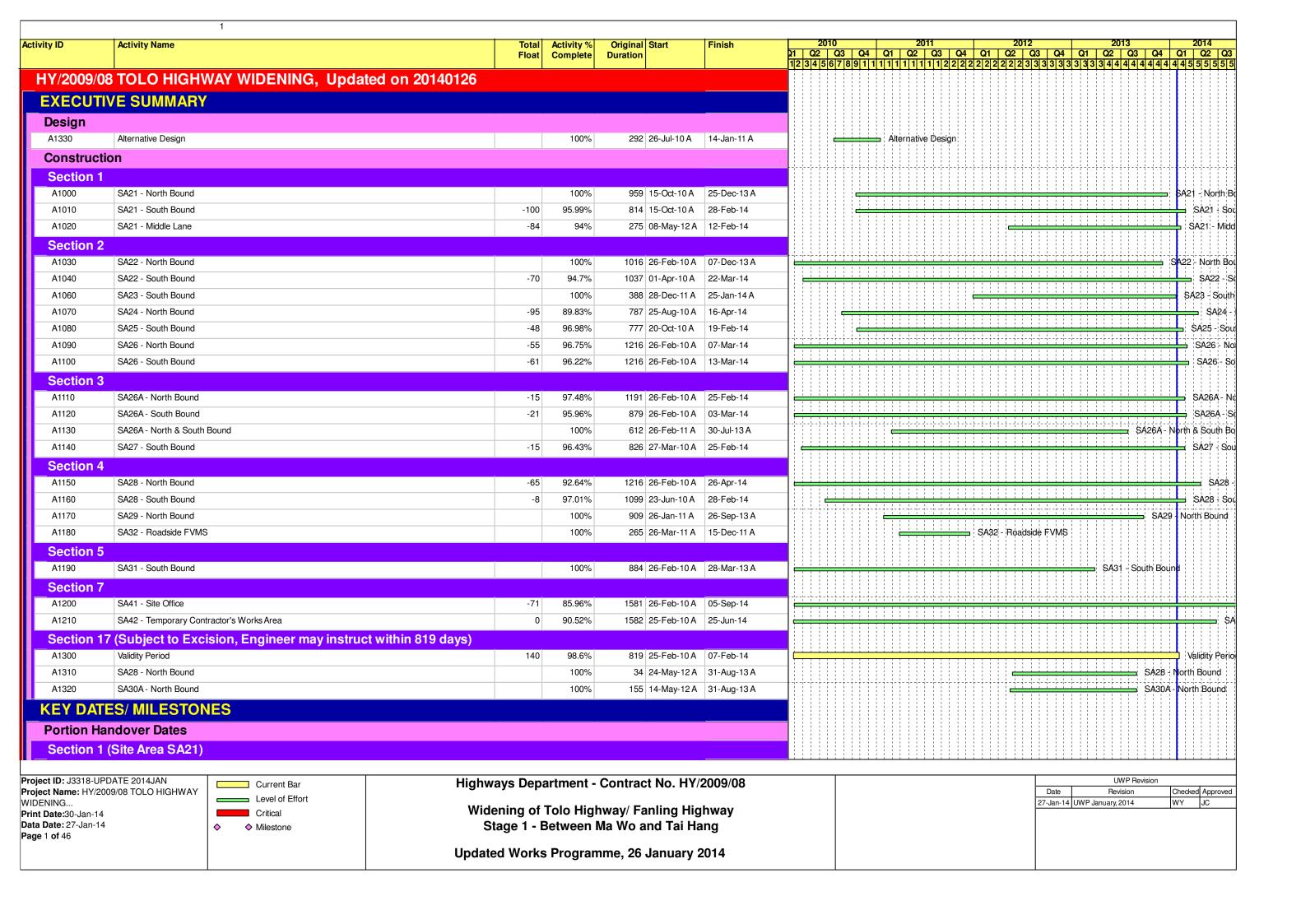
Contract: HY/2008/09

Widening of Tolo Highway / Fanling Highway

Between Island House Interchange and Fanling

(Stage 1 - Between Island House Interchange and Ma Wo)

Three Months Rolling Programme for the Period of 21 Feb 2014 to 20 May 2014



		2						
Activity ID		Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1	2014 Q2 Q3
			Float				<u> </u>	5 5 5 5 5
PHSA		Possession of SA21 (Day365)		100%	0 16-Jul-10 A		Possession of SA21 (Day365)	
		(Site Area SA26A and SA 27)						
PHSA		Possession of SA26A (Day0)		100%	0 26-Feb-10 A		Possession of SA26A (Day0)	
PHSA	2700	Possession of SA27 (Day 90)		100%	0 26-Mar-10 A		♦ Possession of SA27 (Day 90)	
Sect	ion 2	(Site Area SA22, SA23, SA24, SA25 and SA26)						
PHSA	2200	Possession of SA22 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA22 (Day0)	
PHSA	2300	Possession of SA23 (Day180)		100%	0 04-May-10 A		♦ Possession of \$A23 (Day180)	
PHSA	2400	Possession of SA24 (Day180)		100%	0 04-May-10 A		♦ Possession of \$A24 (Day180)	
PHSA	2500	Possession of SA25 (Day270)		100%	0 04-May-10 A		♦ Possession of \$A25 (Day270)	
PHSA	2600	Possession of SA26 (Day0)		100%	0 26-Feb-10 A		Possession of \$A26 (Day0)	
Sect	ion 4	(Site Area SA28, SA29 and SA32)						
PHSA	2800	Possession of SA28 (Day0)		100%	0 26-Feb-10 A		♦ Possessipn of SA28 (Day0)	
PHSA	2900	Possession of SA29 (Day270)		100%	0 27-Jul-10 A		Possession of SA29 (Day270)	
PHSA	3200	Possession of SA32 (Day365)		100%	0 25-Feb-11 A		♦ Possession of SA32 (Day365)	
Sect	ion 5	(Site Area SA31)						
PHSA	3100	Possession of SA31 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA31 (Day0)	
Sect	ion 7	(All Works Except Works Included in Other Sections)		<u>'</u>				
PHSA	4100	Possession of SA41 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA41 (Day0)	
PHSA	4200	Possession of SA42 (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A42 (Day0)	
PHSA	4300	Possession of SA43 (Day90)		100%	0 04-May-10 A		♦ Possession of \$A43 (Day90)	
Sect	ion 8	(Estiblishment Works in Site Area SA21)						
PHSA	2110	Possession of SA21 (Day1217)	-214	0%	0 27-Jan-14			ossession o
Secti	on 9	(Estiblishment Works in Site Area SA22, SA23, SA24, SA25 and S	SA26)					
PHSA		Possession of SA22 (Day1217)	-214	0%	0 27-Jan-14		♦ Po	ossession o
PHSA	2310	Possession of SA23 (Day1217)	-214	0%	0 27-Jan-14			ossession o
PHSA	2420	Possession of SA24 (Day1217)	-214	0%	0 27-Jan-14			ossession o
PHSA	2510	Possession of SA25 (Day1217)	-214	0%	0 27-Jan-14		♦ Po	ossession o
PHSA	2610	Possession of SA26 (Day1217)	-214	0%	0 27-Jan-14			ossession o
Secti	on 10	0 (Estiblishment Works in Site Area SA26A and SA27)						
PHSA		Possession of SA26A (Day1217)	-214	0%	0 27-Jan-14		♦ Pc	ossession o
PHSA	2710	Possession of SA27 (Day1217)	-214	0%	0 27-Jan-14			ossession o
Sect	on 11	(Estiblishment Works in Site Area SA28 and SA29)						
PHSA		Possession of SA28 (Day1217)	-214	0%	0 27-Jan-14		♦ Pc	ossession o
PHSA	2910	Possession of SA29 (Day1217)	-214	0%	0 27-Jan-14			ossession o
Sect	on 12	2 (Estiblishment Works in Site Area SA30 and SA30A)						
PHSA		Possession of SA30 (Day1217)	-214	0%	0 27-Jan-14		♦ Po	ossession o
PHSA		Possession of SA30A (Day1217)	-214		0 27-Jan-14			ossession o
Sect	on 13	3 (Remainder of Estiblishment Works)						
PHSA		Possession of SA31 (Day1217)	-178	0%	0 27-Jan-14*		♦ Pc	ossession o
PHSA		Possession of SA32 (Day1217)	-178		0 27-Jan-14*			ossession o
PHSA		Possession of SA41 (Day1217)	-178		0 27-Jan-14*		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	ossession o
PHSA		Possession of SA42 (Day1217)	-178		0 27-Jan-14*			ossession o
PHSA		Possession of SA43 (Day1217)	-178		0 27-Jan-14*		; : : : : : : : : : : : : : : : : : : :	ossession o
Sect	on 14	4 Comprises Routine Maintenance of Road Network in Site Area	SA21 to S	A31)				
PHSA		Possession of SA21 for Routine Maintenance (Day365)		100%	0 16-Jul-10 A		♦ Possession of SA21 for Routine Maintenance (Day365)	
PHSA		Possession of SA22 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA22 for Routine Maintenance (Day0)	
	-							

	3					
Activity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2014 01 Q2 Q3 Q4 Q1 Q3 Q3 Q4 Q
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q2 Q3 <
PHSA2330	Possession of SA23 for Routine Maintenance (Day180)		100%	0 04-May-10 A		♦ Possession of \$A23 for Routine Maintenance (Day180)
PHSA2430	Possession of SA24 for Routine Maintenance (Day180)		100%	0 04-May-10 A		♦ Possession of \$A24 for Routine Maintenance (Day180)
PHSA2530	Possession of SA25 for Routine Maintenance (Day270)		100%	0 04-May-10 A		♦ Possession of SA25 for Routine Maintenance (Day270)
PHSA2630	Possession of SA26 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA26 for Routine Maintenance (Day0)
PHSA26A3	Possession of SA26A for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A26A for Routine Maintenance (Day0)
PHSA2730	Possession of SA27 for Routine Maintenance (Day90)		100%	0 26-Mar-10 A		♦ Possession of SA27 for Routine Maintenance (Day90)
PHSA2830	Possession of SA28 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		Possession of SA28 for Routine Maintenance (Day0)
PHSA2930	Possession of SA29 for Routine Maintenance (Day270)		100%	0 27-Jul-10 A		Possession of SA29 for Routine Maintenance (Day270)
PHSA3060	Possession of SA30 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A30 for Routine Maintenance (Day0)
PHSA30A4	Possession of SA30A for Routine Maintenance (Day180)		100%	0 27-Jul-10 A		♦ Possession of \$A30A for Routine Maintenance (Day180)
PHSA3130	Possession of SA31 for Routine Maintenance		100%	0 26-Feb-10 A		Possession of SA31 for Routine Maintenance
Section 17	(Subject to Excision and Instruct by Engineer within 819 days)					
PHSA3030	Earliest Date to Possession of SA30		100%	0 26-Feb-10 A		♦ Earliest Date to Possession of SA30
PHSA30A3	Earliest Date to Possession of SA30A		100%	0 27-Jul-10 A		♦ Earliest Date to Possession of SA30A
Key Dates ((include EOT GCL submitted and awarded upto Aug 2013)	,	,			
HDS01000	KD1: Completion of Section 1 - (Day1216) - Overall Completion of Works	-100	0%	0	28-Feb-14*	♦ KD1: Co
HDS01100	KD1: Completion of Section 1 - (Day1216) - Substantial Completion for Road Opening	-71	0%	0	30-Jan-14*	→ KD1: Com
HDS02000	KD2: Completion of Section 2 - (Day1216) - Overall Completion of Works	-95	0%	0	16-Apr-14*	—————————————————————————————————————
HDS02100	KD2: Completion of Section 2 - (Day1216) - Substantial Completion for Road Opening	-70	0%	0	22-Mar-14*	♦ KD2; C
HDS03000	KD3: Completion of Section 3 - (Day1216) - Overall Completion of Works	-59	0%	0	10-Apr-14*	♦ KD3:
HDS03100	KD3: Completion of Section 3 - (Day1216) - Substantial Completion for Road Opening	-17	0%	0	28-Feb-14*	→ KD3: Co
HDS04000	KD4: Completion of Section 4 - (Day1216) - Overall Completion of Works	-65	0%	0	26-Apr-14*	—————————————————————————————————————
HDS04100	KD4: Completion of Section 4 - (Day1216) - Substantial Completion for Road Opening	-8	0%	0	28-Feb-14*	♦ KD4: Ço
HDS05000	KD5: Completion of Section 5 - (Day884)		100%	0	28-Mar-13 A	♦ KD5; Completion of Section 5 - (I
HDS07000	KD7: Completion of Section 7 - (Day1581)	0	0%	0	25-Jun-14*	——————————————————————————————————————
HDS08000	KD8: Completion of Section 8 - (Day1581)	0	0%	0	25-Jun-14*	
HDS09000	KD9: Completion of Section 9 - (Day1581)	0	0%	0	25-Jun-14*	
HDS10000	KD10: Completion of Section 10 - (Day1581)	0	0%	0	25-Jun-14*	—— :::::::::::::::::::::::::::::::::::
HDS11000	KD11: Completion of Section 11 - (Day1581)	0	0%	0	25-Jun-14*	——
HDS12000	KD12: Completion of Section 12 - (Day1581)	0	0%	0	25-Jun-14*	—
HDS13000	KD13: Completion of Section 13 - (Day1581)	0	0%	0	25-Jun-14*	- · · · · · · · · · · · · · · · · · ·
HDS14000	KD14: Completion of Section 14 - (Day1581)	0	0%	0	25-Jun-14*	— ::::::::::::::::::::::::::::::::::::
HDS17000	KD17: Latest Date to Compl of Section 17 - (Day397) Subject to Excision		100%	0	31-Aug-13 A	♦ KD17: Latest Date to
Ш				<u> </u>	or rieg retr	
	BUBMISSION					
Alternative	Design					
Ground In	vestigation & Reporting					
AD000010	Ground Investigation for Alternative Design		100%	54 22-Mar-10 A	29-May-10 A	Ground Investigation for Alternative Design
AD000020	Report of Ground Investigation		100%	56 12-Apr-10 A	18-Jun-10 A	Report of Ground Investigation
Package A	ND1: W56B					
AD000110	AD1 - Design Period		100%	80 29-Mar-10 A	08-Jul-10 A	AD1 - Design Period
AD000120	AD1 - Full Package to ICE for Certification		100%	20 09-Jul-10 A	31-Jul-10 A	□ AD1: - Full Package to ICE for Certification
AD000130	AD1 - Approval by ER/CLIENT/CEDD (GEO)		100%	101 09-Jul-10 A	06-Nov-10 A	AD1 - Approval by ER/CLIENT/CEDD (GEO)
Package A						
AD000210	AD2 - Design Period		100%	72 14-Apr-10 A	10-Jul-10 A	AD2 - Design Period
AD000210	AD2 - Full Package to ICE for Certification		100%	44 12-Jul-10 A	31-Aug-10 A	AD2 - Full Package to ICE for Certification
AD000220	AD2 - Approval by ER/CLIENT/CEDD (GEO)		100%	172 26-Nov-10 A		AD2:- Approval by ER/CLIENT/CEDD (GEO)
7,0000230	THE THE TOUR OF LITTOLD (ALO)		100 /0	172 20-110V-10 A	20 Αρι- Η Α	τος επιστημιστού (ΔΕΟ)

	4						
Activity ID	Activity Name	Total	Activity %	Original		Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3
		Float	Complete	Duration	l e		12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
Package A	D3: W69						
AD000310	AD3 - Design Period		100%	75	03-May-10 A	31-Jul-10 A	АФЗ - Design Period
AD000320	AD3 - Full Package to ICE for Certification		100%	57	02-Aug-10 A	08-Oct-10 A	AD3 - Full Package to ICE for Certification
AD000330	AD3 - Approval by ER/CLIENT/CEDD (GEO)		100%	100	02-Aug-10 A	29-Nov-10 A	AD3 - Approval by ER/CLIENT/CEDD (GEO)
Package A	D4: W38						
AD000410	AD4 - Design Period		100%	78	09-Jun-10 A	09-Sep-10 A	AD4 - Design Period
AD000420	AD4 - Full Package to ICE for Certification		100%		10-Sep-10 A		AD4 - Full Package to ICE for Certification
AD000430	AD4 - Approval by ER/CLIENT/CEDD (GEO)		100%	54	11-Nov-10 A	15-Jan-11 A	AD4 - Approval by ER/CLIENT/CEDD (GEO)
Package A	D5 (Noise Barrier Foundation): NB38, NB39, NB41 & NB43						
AD000510	AD5 - Design Period		100%	98	21-Jul-10 A	22-Oct-10 A	AD5 - Design Period
AD000520	AD5 - Full Package to ICE for Certification		100%	51	23-Oct-10 A	22-Dec-10 A	AD5 - Full Package to ICE for Certification
AD000530	AD5 - Approval by ER/CLIENT/CEDD (GEO)		100%	74	18-Oct-10 A	14-Jan-11 A	AD5 ÷ Approval by ER/CLIENT/CEDD; (GEO)
MATERIAL	LS PROCUREMENT						
Major Mater	rials (Detail shall refer to supplementary information)						
Water Worl	• • • • • • • • • • • • • • • • • • • •						
MA001010	Place Order		100%	0	31-Aug-10 A		♦ Place Order
MA001030	Fabrication, Manufacturing & Delivery		100%	900	31-Aug-10 A	31-Aug-12 A	Fabrication, Manufacturing & Delivery
Vehicular F	Parapet SSD161						
MA001050	Place Order		100%	0	26-May-11 A		♦ Place Order
MA001060	Fabrication, Manufacturing & Delivery		100%		26-May-11 A	24-Aug-12 A	Fabrication, Manufacturing & Delivery
Bearing							
MA001070	Place Order		100%	0	31-Jul-10 A		♦ Place Order
MA001080	Fabrication, Manufacturing & Delivery		100%		31-Jul-10 A	05-Aug-12 A	Fabrication, Manufacturing & Delivery
Movement							
MA001090	Place Order		100%	0	31-Aug-10 A		♦ Place Order
MA001100	Fabrication, Manufacturing & Delivery		100%		31-Aug-10 A	31-Aug-12 A	Fabrication, Manufacturing & Delivery
CONSTRI	JCTION PHASE						
	es & General Requirement						
Preliminari							
	<i>ıbmissions</i>						
PR000000	Commencement of Works		100%		26-Feb-10 A		♦ Commencement of Works
PR001000	Site Establishment		100%		26-Feb-10 A	25-May-10 A	Site Establishment
PR001010	Effect required Insurances		100%		26-Feb-10 A	04 May 10 A	♦ Effect required Insurances
PR001030	Erect Contractor's Office Compound Submit Site Organization Chart		100%		26-Feb-10 A	04-May-10 A	Erect Contractor's Office Compound
PR001040 PR001050	Submit Site Organization Chart Submit Site Layout Plan		100%		26-Feb-10 A 26-Feb-10 A	10-Mar-10 A 03-Mar-10 A	Submit Site Organization Chart Submit Site Layout Plan
PR001050	Prepare/Submit Initial Works Programme		100%		26-Feb-10 A	03-Mar-10 A	Prepare/Submit Initial Works Programme
PR001000	Approval on Initial Works Programme		100%		04-Mar-10 A	02-Apr-10 A	□ Approval on Initial Works Programme
PR001080	Prepare/Submit Detailed Works Programme		100%			30-May-10 A	Prepare/Submit Detailed Works Programme
PR001090	Prepare/Submit First 3-month Programme		100%		26-Feb-10 A	10-Mar-10 A	☐ Prepare/Submit First 3-month Programme:
PR001100	Submit initial 12-month Pgr for Rou. Maint. Work		100%		26-Feb-10 A	10-Mar-10 A	Submit initial 12-month Pgr for Rou. Maint. Work
PR001110	Submit Rolling 3month Routine Maint. Program		100%		26-Feb-10 A	10-Mar-10 A	Submit Rolling/3month Routine Maint. Program
PR001170	Prepare/Submit Subcon Management Plan (SMP)		100%		26-Feb-10 A		☐ Prepare/Submit Subcon Management Plan (SMP)
PR001200	Submit Interface Management Plan		100%		26-Feb-10 A	25-Apr-10 A	Şubmit Interface Management Plan
PR001242	Application of Expressway Permit		100%		⁷ 26-Feb-10 A	03-Mar-10 A	Application of Expressway Permit
PR001244	Approval of Expressway Permit		100%	21	04-Mar-10 A	24-Mar-10 A	☐ Approval of Expressway Permit

Notivity ID	Astivity Name	Taket Assista	0/ 0-1-1-1	Ctort	Einich	2010 2011 2012 2013 2014
Activity ID	Activity Name	Total Activity Float Comple			Finish	01 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
PR001246	Issurance of Excavation Permit form Hyd	10	1% 7	26-Feb-10 A	03-Mar-10 A	12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2
PR001256	Complete All General Submission		0% 0	20100107	30-May-10 A	♦ Complete All General Submission
	Submission	10	776		oo way To A	V Somplete All General Custinission
PR001250	Submit Draft Traffic Management Contingency	10)% 45	26-Feb-10 A	10-Apr-10 A	Submit Draft Traffic Management Contingency
PR001260	Submit Sch of Const Seg/TTA in Prin Agreement			26-Feb-10 A	· ·	Submit Sch of Const Seq/TTA in Prin Agreement
PR001270	Submit TIA/TTA to ER, TD, HKPF etc for Approval					Submit TIA/TTA to ER, TD, HKPF etc for Approval
PR001280	Prepare/Submit Sch of Util Arrangement				·	Prépare/Submit Sch of Util Arrangement
PR001290	Prepare/Submit Conc Mix Design and Trial Test				05-May-10 A	Prepare/Submit Conc Mix Design and Trial Test
PR001290	Perform Slope / Topographic Survey			26-Feb-10 A	-	Perform Slope / Topographic Survey
PR001310	Perform Natural Terrain Survey			01-Jan-11 A	19-Jul-11 A	Perform Natural Terrain Survey
PR001310	·				29-Jun-10 A	
	Perform Tree Survey					Perform Tree Survey
PR001330	Perform Existing Structural Survey				-	Perform Existing Structural Survey
PR001340	Install Geotechnical Instrumentation				25-May-10 A	Install Geotechnical Instrumentation
PR001350	Design for Temporary Noise Barrier			26-Feb-10 A		Design for Temporary Noise Barrier
PR001360	Approval for Temporary Noise Barrier			26-Jun-10 A		Approval for Temporary Noise Barrier
PR001370	Design for Irrigation System			26-Feb-10 A		Design for Irrigation System
PR001380	Approval for Irrigation System			26-Feb-11 A		Approval for Irrigation System
PR001385	Detail review of the natural terrain hazard assessment by GEO			26-Oct-11 A	23-Jan-12 A	Detail review of the natural terrain hazard assessment by GEO
PR001390	Design for Permanent Debris Catch Fence	10		26-Oct-11 A	23-Jan-12 A	Design for Permanent Debris Catch Fence
PR001400	Approval for Debris Catch Fence System Design	10		24-Jan-12 A	22-Feb-12 A	Approval for Debris Catch Fence System Design
PR001410	Temporary Works Design	10	0% 200	26-Feb-10 A	·	Temporary Works Design
PR001420	Complete All Technical Submission	10	0%		22-Feb-12 A	♦ Complete All Technical Submission
Specialist (Consultants					
PR001220	Nominate/Submit Horticulturist for Approval	10)% 45	26-Feb-10 A	10-Apr-10 A	Nominate/Submit Horticulturist for Approval
PR001230	Nominate/Submit IIC (Highway Structures)	10)% 45	26-Feb-10 A	10-Apr-10 A	☐ Nominate/Submit IIC (Highway Structures)
PR001240	Nominate/Submit Traffic Consultant for Approval	10)% 7	26-Feb-10 A	03-Mar-10 A	■ Nominate/Submit Traffic Consultant for Approval
PR001440	Complete Engagement of Specialist Consultants	10	0%		10-Apr-10 A	♦ Complete Engagement of Specialist Consultants
QSHE Sub	mission					
PR001120	Prepare/Submit Quality Plan	10)% 28	26-Feb-10 A	24-Mar-10 A	☐ Prepare/Submit Quality Plan:
PR001130	Prepare/Submit Draft Health & Safety Plan	10)% 14	26-Feb-10 A	10-Mar-10 A	Prepare/Submit Draft Health & Safety Plan
PR001140	Prepare/Submit Final Health & Safety Plan	10)% 35	26-Feb-10 A	31-Mar-10 A	Prepare/Submit Final Health & Safety Plan
PR001150	Prepare/Submit Draft Env Management Plan	10)% 21	26-Feb-10 A	17-Mar-10 A	☐ Prepare/Submit Draft Env Management Plan
PR001160	Prepare/Submit Final Env Management Plan	10)% 45	26-Feb-10 A	10-Apr-10 A	Prepare/Submit Final Env Management Plan
PR001180	Submit Site Management Plan for Trip Ticket Sys	10)% 45	26-Feb-10 A	10-Apr-10 A	Submit Site Management Plan for Trip Ticket Sys
PR001430	Complete All QSHE Submission	10	0% 0		10-Apr-10 A	Complete All QSHE Submission
Variation O	rders				'	
VO000010	VO. 1: Revised layout of Piles, NLKP5	10	0% 0	17-Jun-10 A		♦ VO. 1: Revised layout of Piles, NLKP5
VO000020	VO. 2: Fencing Detaills Along Site Boundaries of SA29	10	0% 0	20-Aug-10 A		♦ VO. 2: Fencing Detaills Along Site Boundaries of SA29
VO000030	VO. 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)	10	0% 0	17-Sep-10 A		♦ VO, 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)
VO000040	VO. 4: Revised Setting Out Plan of Slip Road W in SA28 & SA31	10	0% 0	15-Sep-10 A		♦ VO. 4: Revised Setting Out Plan of Slip Road W in SA28 & SA31
VO000050	VO. 5: Revised Setting Out Plan of Slip Road W in Site Area SA30	10	0% 0	15-Sep-10 A		♦ VO. 5: Revised Setting Out Plan of Slip Road W in Site Area SA30
VO000060	VO. 6: Bridge 15A Pilecap Sleeving Details			19-Oct-10 A		♦ VO. 6: Bridge 15A/Pilecap Sleeving Details
VO000070	VO. 7: Modification of Noise Barrier Footing for NB42 & NB44	10		14-Dec-10 A		♦ VO. 7: Modification of Noise Barrier Footing for NB42 & NB44
VO000080	VO. 8: Revised Layout of Southen Trunk Sewer			15-Dec-10 A		♦ VO, 8: Revised Layout of Southen Trunk Sewer
VO000090	VO. 9: Relocation and Deletion of Access Door at Noise Barrier			04-Jan-11 A		♦ VO.9: Relocation and Deletion of Access Door at Noise Barrier
VO000100	VO. 10: Fencing details along Site Boundaries of Section subject to Excision			04-Jan-11 A		♦ VO.10: Fencing detalls along Site Boundaries of Section subject to Excision
VO000110	VO. 11: Fencing details along Site Boundaries of Section subject to Excision	10		04-Jan-11 A		♦ VO. 11: Fending details along Site Boundaries of Section subject to Excision
VO000110	vo. 11. Feriding details along Site Boundaries of Section subject to Excision	10	J70 0	04-Jan-11 A		VVV. II. Feriding details along Site Boundaries of Section subject to Excision

ctivity ID	Activity Name	Total Activity	6 Original Start	Finish 2010	
		Float Complet		Q1 Q2 Q3 Q	
VO000120	VO. 12: Fencing for Former Lot 1308 S.B in D.D.6	100%		1 2 3 4 5 6 7 8 9 1	1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2
VO000130	VO. 13: Relocation of Existing HKCG HP600mm Gasmains at Slip Road T	100%			VO. 13: Relocation of Existing HKCG HP600mm Gasmains at Slip Road T
VO000140	VO. 14: Revised Layout of Police Observation Platform at CH3700	100%		+	♦ VO. 14: Revised Layout of Police Observation Platform at CH3700
VO000150	VO. 15: Revised Layout of Slope S28	100%		+	♦ VO 15: Revised Layout of Slope S28
VO000160	VO. 16: Additional Packaging Requirement for Mulch Delivered to LCSD	100%	6 0 25-Jan-11 A	+	♦ VQ. 16: Additional Packaging Requirement for Mulch Delivered to LCSD
VO000170	VO. 17: Revised Bridge 12B and Temp Reinstatement at Existing Bridge 12	100%	6 0 30-Apr-11 A	+	♦ VO. 17: Revised Bridge 12B and Temp Reinstatement at Existing Bridge 12
VO000180	VO. 18: Delivered 5 cubic meters of Mulch to EPD	100%	6 0 15-Feb-11 A	 	♦ VO. 18: Delivered 5 cubic meters of Mulch to EPD
VO000190	VO. 19: Protection for Existing HKCG HP 600mm Gasmain at Slip Rd T	100%	6 0 07-Mar-11 A		♦ VO.19: Protection for Existing HKCG HP 600mm Gasmain at Slip RdT
VO000200	VO. 20: Revised Fire Mains alignment Plan	100%	6 0 31-Mar-11 A		♦ VQ. 20: Revised Fire Mains alignment Plan
VO000210	VO. 21: Reinforced Earth Walls at Bridge 18AAbutment	100%	6 0 07-Sep-11 A		♦ VO. 21: Reinforced Earth Walls at Bridge 18AAbutment
VO000220	VO. 22: Revised Layout of Proposed Lighting and Meter Box at Ma Wo Subway (TP9)	100%	6 0 15-Apr-11 A	†	VO: 22: Revised Layout of Proposed Lighting and Meter, Box at Ma Wd Subway (TP9)
VO000230	VO. 23: Provision of Drainage at Noise Barriers 41 & 42	1009	6 0 20-Apr-11 A		♦ VO. 23: Provision of Drainage at Noise Barriers 41 & 42
VO000250	VO. 25: Construction of Cross Road Ducts and Traffic Signal Drawpits	100%	6 0 27-Apr-11 A		♦ VO. 25: Construction of Cross Road Ducts and Traffic Signal Drawpits
VO000260	VO. 26: Permanent Diversion of Existing DN80 WSD Watermain at MA Wo Subway (TP9)	100%	6 0 03-May-11 A		♦ VO. 26: Permanent Diversion of Existing DN80 WSD Watermain at MA Wo Subway
VO000270	VO. 27: Temp. Access and Lighting for Inspection on Bridge 13 Deck Interior	100%	6 0 16-May-11 A		♦ VO, 27: Temp, Access and Lighting for Inspection on Bridge 13 Deck Interior
VO000280	VO. 28: Provision of Hoarding at Site Boundary of SA22 and SA25	100%	6 0 11-May-11 A	†	♦ VO. 28: Provision of Hoarding at Site Boundary of SA22; and SA25
VO000300	VO. 30: Removal of dead trees under LKB	100%	6 0 05-Jul-11 A		♦ VO.30: Removal of dead trees under LKB
VO000310	VO. 31: Fencing for Former Lot 1308S.B. in D.D.6	100%	6 0 27-Jul-11 A		♦ VO. 31: Fencing for Former Lot 1308S.B. in D.D.6
VO000330	VO. 33: Drainage Details at W48	100%	6 0 03-Aug-11 A		♦ VQ. 33: Drainage Details at W48
VO000350	VO. 35: Revised Southern Trunk Sewer Manholes Schedule	100%	6 0 14-Oct-11 A		♦ VO; 35: Revised Southern Trunk Sewer Manholes Schedule
VO000360	VO. 36: Slip Road R road drainage details	100%	6 0 17-Oct-11 A		♦ VO. 36: Slip Road R road drainage details
VO000370	VO. 37: Bridge 12A, 13A, LB1, 2, 3 - Pilecaps Sleeving Details	100%	6 0 18-Nov-11 A		♦ VO. 37: Bridge 12A, 13A, LB1, 2, 3 - Pilecaps \$leeving Details
VO000380	VO. 38: Bridge 18A - Reforced earth walls at West Abutment & associated slope works	100%	6 0 03-Dec-11 A		♦ 'VO. 38: Bridge 18A'-Reforced earth walls at West Abutment & associa
VO000390	VO. 39: Bridge 12A - Revised Foundation for North Abutment	100%	0 03-Dec-11 A		♦ VO. 39: Bridge 12A - Revised Foundation for North Abutment
VO000400	VO. 40: New Lam Kam Road Flyover - Revised drainage arrangement for bridge deck	100%	6 0 30-Nov-11 A		🔷 VO. 40: New Lam Kam Road Flyover - Revised drainage arrangemen
VO000410	VO. 41: 450mm Diameter U-channel flap valve behind noise barrier NB42	100%	0 01-Dec-11 A		♦ VÓ. 41: 450mm Diameter U-channel flap valve behind noise barrier N
VO000430	VO. 43: 450mm Diameter U-channel flap valve behind noise barrier NB42	100%	6 0 12-Jan-12 A		♦ VO. 43: 450mm Diameter U-channel flap valve behind noise barriel
VO000440	VO. 44: Bridge 15A - Revised drainage arrangement for bridge deck	100%	6 0 12-Jan-12 A		♦ VO. 44: Bridge 15A - Revised drainage arrangement for bridge ded
VO000450	VO. 45: Details of drainage arrangement at Tai Po Tai Wo Road Link Bridge 1 & Bridge B13A	100%	0 31-Jan-12 A		♦ VO. 45: Details of drainage arrangement at Tai Po Tai Wo Road L
VO000460	VO. 46: Modification of noise barrier footing for NB44	100%	0 13-Feb-12 A		♦ VO. 46: Modification of noise parrier footing for NB44
VO000520	VO. 52: Construction of cross road ducts & traffic signal drawpits at proposed crossing point of Tai Wo Service Road Wes	1009	6 0 10-Apr-12 A		♦ VO. 52: Construction of cross road ducts & traffic signal draw
VO000530	VO. 53: Bridge 18A - Concrete Plinths for PCCW cables ducts	100%	6 0 20-Apr-12 A		♦ VQ. 53; Bridge 18A - Concrete Plinths for P¢CW cables due
VO000550	VO. 55: Provision of drainage at retaining wall W71 and Bridge B18A	100%	6 0 18-Apr-12 A		♦ VO. 55: Provision of drainage at retaining wall W71 and Brid
VO000590	VO. 59: Relocation of Existing WSD pumping station (PS106) gate at Hong Lok Yuen Road	100%	6 0 23-Apr-12 A		♦ VO. 59: Relocation of Existing WSD pumping station (PS10)
VO000620	VO. 62: Revised Metal Cover Details for Bridge Deck Soffit Access	100%	6 0 29-May-12 A		♦ VQ. 62: Revised Metal Cover Details for Bridge Deck Sof
VO000650	VO. 65:Details of additional Vehicular Access Gate for Lot 412 at Tai Wo Servise Road west	100%	6 0 09-Jul-12 A		♦ VO. 65:Details of additional Vehicular Access Gate for
VO000660	VO. 66: Revised Foundation Details of Noise Barriers NB36	100%	6 0 19-Jul-12 A		♦ VO. 66; Revised Foundation Details of Noise Barriers
VO000690	VO. 69: Revised Lighting Layout at Ma Wo Subway TP9	100%	6 0 01-Aug-12 A		♦ VO. 69: Revised Lighting Layout at Ma Wo Subway
VO000700	VO. 70: Provision of Digital callipers	100%	6 0 10-Aug-12 A		♦ VO. 70: Provision of Digital callipers
VO000710	VO. 71: Details of Typical Section for Slip Road R Verge at AUE Wall	100%	6 0 20-Aug-12 A		♦ VO. 71. Details of Typical Section for \$lip Road R V
VO000720	VO. 72: New Lam Kam Road Flyover - revised North and South Ramps Retaining Wall	100%	0 06-Sep-12 A		♦ VO. 72: New Lam Kam Road Flyover - revised No
VO000730	VO. 73: Revised Sign Gantry Details of G23A, G24, G25, G26, G27, G28, G29, G56, G57, G58, G59, G60, G60A, G101	1009	0 11-Sep-12 A		♦ VO: 73: Revised Sign Gantry Details of G23A, G2
VO000740	VO. 74: Bridge 12A South Abutment - Slope Reinstatement Works	100%	6 0 18-Sep-12 A		♦ VO. 74: Bridge 12A Şouth Abutment - Slope Rein
VO000750	VO. 75: Modification of Existing Air Valve Chamber at Slip Road W	100%	6 0 14-Sep-12 A		♦ VO, 75: Modification of Existing Air Valve Chambe
VO000760	VO. 76: Conduct Resistograph and Tomography Assessment to the Internal Decay of Important Tree T13076 at LKR Intercharge	1009	0 19-Sep-12 A		♦ VO. 76: Conduct Resistograph and Tomography

ctivity ID	Activity Name	Total Ac	ctivity %	Original Start	Finish	2010	0		2011	2012 2013 2014
, <i>1</i> D	Activity Name		omplete	Duration	THISH	Q1 Q2	Q3 Q4	Q1 C	02 Q3 Q4 Q1	Q2 Q3 Q4 Q1 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q3 Q3 Q4
VO000770	VO. 77: Provision of Cable Duct for Power Supply in Site Area SA28 and SA31		100%	0 17-Oct-12 A		123456	I lola I	<u> </u>	11111222222	2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4
VO000780	VO. 78: Bridge 18A Revised CLP Concrete Cable Trough Details		100%	0 22-Oct-12 A						♦ VO. 78: Bridge 18A Revised CLP Concrete C
VO000790	VO. 79: Bridge 18A East Abutment - Reinforced Concrete Wall (Bay3)		100%	0 14-Nov-12 A						♦ VO, 79: Bridge 18A East Abulment - Reinfo
VO000800	VO. 80: Removal and Storage of Remaining Parts of Existing Speed Camera No. W05, W06 at NB and W10 at SB		100%	0 03-Dec-12 A						♦ VO. 80: Removal and Storage of Remaini
VO000810	VO. 81: Details of Maintenance Access of Noise Barrier NB41 and NB42 along Tai Wo Service Road West		100%	0 04-Jan-13 A						♦ VO. 81: Details of Maintenance Access (
VO000820	VO. 82: Irrigation System Along the Vehicular Access to Wai Tau Tsuen		100%	0 04-Feb-13 A						♦ VO.82: Irrigation System Along the V
VO000830	VO. 83: Stormwater Drainage System MN18.1 to MN18.11 in Front of Retaining Wall W56B		100%	0 08-Feb-13 A				. 4 - 4 - 4 - 4 - 4		♦ VO. 83: Stormwater Drainage Systen
VO000840	VO. 84: Removal and Storage of Remaining Parts of Existing Speed Enforcement Camera No. TO06 at Tolo Highway Southbound		100%	0 08-Feb-13 A						♦ VO. 84: Removal and Storage of Rer
VO000860	VO. 86: Provision of Verge Tubular Railing Adjacent to Retaining Wall W67		100%	0 12-Apr-13 A						♦ VO. 86: Provision of Verge Tubul
VO000870	VO. 87: Existing Retaining Wall at Tai Po Tai Wo Road - Modification Works		100%	0 19-Apr-13 A						♦ VO. 87: Existing Retaining Wall
VO000880	VO. 88: Additional Hospital Sign Plate for Existing Directional Signs DSX01A and DSX05B		100%	0 10-May-13 A						♦ VO. 88: Additional Hospital Sign
VO000890	VO. 89: Change of Material of Southern Trunk Sewer Pipes between manhole		100%	0 10-May-13 A				4-4-4-4		♦ VO.89: Change of Material of
VO000900	VO. 90: Revised Southern Trunk Sewer Details		100%	0 10-May-13 A						♦ VO 90: Revised Southern Tru
VO000910	VO. 91: Nosing Details at South Abutment of Bridge 13A - Modification Works		100%	0 02-Jul-13 A						♦ VQ. 91: Nosing Details at S
VO000920	VO. 92: Revised Noise Barrier Footing fro NB30 Bay 1		100%	0 14-Jun-13 A						♦ VO. 92: Revised Noise Barri
VO000930	VO. 93: Irrigation System for the Shrub Planting Area Adjacent to Fanling Highway		100%	0 13-Jun-13 A						♦ VO. 93: Irrigation System for
VO000940	VO. 94: Irrigation System for the Shrub Planting Area Adjacent to Lam Kam Road Interchange with connection to Firemain		100%	0 11-Jun-13 A						♦ VO. 94: Irrigation System for
VO000950	VO. 95: Revised Sign Gantry G101 Details		100%	0 07-Jun-13 A						♦ VO. 95: Revised Sign Gantry
VO000970	VO. 97: Provision of Stormwater Drainage System for the Wai Tau Tsuen Access Raod Behind W74		100%	0 13-Jun-13 A						♦ VO. 97: Provision of Stormw
VO000980	VO. 98: Revised Sign Gantry G101 Sign Face DS T8(B) Details		100%	0 11-Jun-13 A						♦ VO. 98: Revised Sign Gantry
VO000990	VO. 99: Revised Sign Gantry G59 Details		100%	0 11-Jun-13 A						♦ VO. 99: Revised Sign Gantry
VO001000	VO. 100: Revised Sign Gantry G58 Details		100%	0 11-Jun-13 A						♦ VO 100: Revised \$ign Gant
VO001010	VO. 101: Existing Bridges 12&13 - Revised Detail of the Strengthening Beam of the Stitching Slab		100%	0 02-Jul-13 A						♦ VO. 101: Existing Bridges 1
VO001030	VO. 103: Parapet Wall PW1 - Revised Drainage and Miscellaneous Details		100%	0 03-Jul-13 A						♦ V0. 103: Parapet Wall PW
VO001040	VO. 104: Revised Alignment and Layout of Noise Barrier NB38		100%	0 26-Jun-13 A						♦ VO. 104: Revised Alighmen
VO001050	VO. 105: Additional Precast Concrete Cover for Catchpit No. CP1.1		100%	0 02-Jul-13 A						♦ VQ. 105 Additional Preças
VO001060	VO. 106: Revised Details fo Retaining Wall No. W71 and Slope S43 at CH0.00 to CH4.00		100%	0 02-Jul-13 A						♦ VQ. 106; Revised Details fo
VO001070	VO. 107: Revised Alignment of U-Channel at Interface of Retaining Wall W66 and Slope S38		100%	0 02-Jul-13 A						♦ VO. 107: Revised Alignmer
VO001080	VO. 108: Revision for Proposed Cut Slope S31A		100%	0 11-Jul-13 A						♦ VO. 108: Revision for Prop
VO001090	VO. 109: Revision for Proposed Cut Slope S45		100%	0 19-Jul-13 A						♦ VO. 109: Revisión for Pro
VO001100	VO. 110: Revised Base Plate Details of Noise Barrier NB38		100%	0 19-Aug-13 A						♦ VO. 110: Revised Base
Milestones	of Temporary Traffic Arrangement									
TTA000	TTA Stage 0 - Divert the traffic to new Slip Road J & K		100%	0 07-Oct-12 A						♦ TTA Stage 0 - Divert the traffic to new Slip Ro
TTA010	TTA Stage 1 - divert the traffic to new bridge 18a		100%	0 23-Jun-13 A						♦ TTA Stage 1 divert the tra
TTA050	TTA Stage 5 - Full enclorsure of Tai Wo Road (CH3350 - CH3540)		100%	0 27-Sep-12 A						♦ TTA Stage 5 - Full enclorsure of Tai Wo Road:
TTA060	TTA Stage 6 - Open the new Northbound but reserve one lane & close the existing Northbound		100%	0 25-Feb-12 A						TTA Stage 6 + Open the new Northbound but reserve one land
TTA070	TTA Stage 7 - Close the existing southbound and temporary divert the traffic to the existing Northbound		100%	0 25-Feb-12 A						TTA Stage 7 - Close the existing southbound and temporary d
TTA090	TTA Stage 9 - NLK Open the new Northbound but reserve one lane & close the existing Northbound	-21	0%	0 27-Jan-14						♦ TTA Stage 9
TTA110	TTA Stage 11 - Open the new LB2 and link up the LB1 & LB3	-24	0%	0 13-Feb-14						♦ TTA Stage
						1::::::	1 1 1 1 1	1 1 1 1 1		

100%

0 06-Feb-12 A 18-Feb-12 A

Backfilling

S21N2130

Backfilling

	9				1	0040
Activity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q3 Q4 Q1 Q1 Q1 Q1 Q1 Q1 Q1
S21N2140	Backfilling behind W36 and drainage works	-58	95%	70 04-Mar-13 A	30-Jan-14	12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2
Retaining V	Vall W38 (AD4)					
S21N2210	Pre-drilling		100%	24 26-Feb-11 A	25-Mar-11 A	☐ Pre-drilling
S21N2220	Prepare Piling Platform for W38		100%	30 26-Feb-11 A	01-Apr-11 A	Prepare Piling Platform for W38
S21N2225	COD: Mobilization of 1 no. rig from W56B to W38 for piling work		100%	60 14-Mar-11 A	27-Jun-11 A	COD: Mobilization of 1; no. rig from W56B to W38 for pilling work
S21N2230	Pile for W38 (2 rig)		100%	141 26-Mar-11 A	22-Jun-11 A	Pile for W38 (2 rig)
S21N2231	Installation of Piles - Stage 1 (CH2470-2545)		100%	69 26-Mar-11 A	22-Jun-11 A	Installation of Piles - Stage 1 (CH2470-2545)
S21N2232	Installation of Piles - Stage 2 (Remain)		100%	72 12-Apr-11 A	22-Jun-11 A	Installation of Piles - Stage 2 (Remain)
S21N2240	Retaining Wall & Drainage W38		100%	230 27-Jun-11 A	24-Dec-12 A	Retaining Wall & Drainage W38
S21N2242	Excavation to +54.5mPD		100%	60 27-Jun-11 A	05-Sep-11 A	Excavation to +54.5mPD
S21N2244	Excavation to formation		100%	60 26-Sep-11 A	06-Dec-11 A	Excavation to formation
S21N2250	Construction of Base & Wall - Stage 1 (CH2470 - 2520)		100%	75 07-Dec-11 A	31-Jan-12 A	Construction of Base & Wall - Stage 1 (CH2470 - 2520)
S21N2252	Backfilling to road formation - Stage 1 (CH2470 - 2520)		100%	50 21-Jan-12 A	18-Feb-12 A	□ Backfilling to road formation - Stage 1 (CH2470 - 2520)
S21N2254	Construction of Base & Wall - Stage 2 (Ch2520 - 2600)		100%	75 20-Feb-12 A	29-Sep-12 A	Construction of Base & Wall - Stage 2 (Ch2520
S21N2256	Backfilling to formation level - Stage 2 (CH2520 - 2600)		100%	30 01-Oct-12 A	24-Dec-12 A	Backfilling to formation level - Stage 2 (C
S21N2266	Backfilling behind W38 and drainage works		100%	70 04-Mar-13 A	14-Dec-13 A	Backfilling; behin
Retaining V	Wall W39 (CDS 3)					
S21N2302	Clearing & Prepare Piling Platform & Pre-drilling for W39		100%	10 27-Jun-11 A	09-Jul-11 A	Clearing & Prepare Piling Platform & Pre-drilling for W39
S21N2304	Piling Works		100%	36 03-Oct-11 A	14-Nov-11 A	Piling Works
S21N2306	Sheet Pile/ Excavate & Construct W39		100%	75 20-Aug-12 A	01-Dec-12 A	Sheet Pile/ Excavate & Construct W39
S21N2307	Opencut Excavation		100%	7 20-Aug-12 A	03-Sep-12 A	□ Opencut; Excavation
S21N2308	Construction of W39 Structure		100%	50 04-Sep-12 A	21-Nov-12 A	Construction of W39 Structure
S21N2309	Backfilling		100%	12 26-Nov-12 A	01-Dec-12 A	■ Backfilling
S21N2319	Backfilling behind W39 and drainage works	-58	95%	70 04-Mar-13 A	30-Jan-14	Backfilling be
Retaining V	Wall W40 (CSD 3)					
	Clearing & Prepare Piling Platform & Pre-drilling for W40		100%	12 03-Oct-11 A	17-Oct-11 A	🗓 Clearing & Prepare Piling Platform & Pre-drilling for W40
S21N2314	Excavation for W40		100%	12 20-Aug-12 A	06-Sep-12 A	Excavation for W40
S21N2316	Construct W40		100%	40 07-Sep-12 A	13-Oct-12 A	. ☐ Construct;W40
S21N2326	Backfilling		100%	11 20-Dec-12 A	29-Dec-12 A	□ Bạckfiling
S21N2336	Backfilling behind W40 and drainage works	-58	95%	70 04-Mar-13 A	30-Jan-14	Backfilling be
Retaining V	Vall W41A					
S21N2400	Sheet Pile/Excavate & Construct W41A		100%	72 26-Sep-11 A	25-Nov-11 A	Sheet Pile/Excavate & Construct W41A
S21N2410	Opencut Excavation		100%	7 26-Sep-11 A	04-Oct-11 A	☐ Opendut Excavation
S21N2420	Construction of W41A Structure		100%	47 05-Oct-11 A	31-Oct-11 A	□ Construction of W41A Structure
S21N2430	Backfilling		100%	18 01-Nov-11 A	25-Nov-11 A	Backfilling Backfilling
Retaining V	Vall W41B			<u> </u>		
S21N2618	Sheet Pile/Excavate & Construct W41B		100%	71 26-Sep-11 A	25-Nov-11 A	Sheet Pile/Excavate & Construct W41B:
S21N2628	Opencut Excavation		100%	7 26-Sep-11 A	04-Oct-11 A	☐ Opendut Excavation
S21N2648	Construction of W41B Structure		100%	47 05-Oct-11 A	31-Oct-11 A	□ Construction of W41B Structure
S21N2658	Backfilling		100%	17 01-Nov-11 A	25-Nov-11 A	□ Backfilling
Retaining V	Nall W45-48/A			<u> </u>		
S21N2316 S21N2326 S21N2336 Retaining V S21N2400 S21N2410 S21N2420 S21N2430 Retaining V S21N2618 S21N2628 S21N2648 S21N2658 Retaining V S21N2500 S21N2520 S21N2520 S21N2530 S21N2550	Sheet Pile/Excavate & Construct W45-48/A		100%	174 01-Mar-11 A	11-Jan-13 A	Sheet Pile/Excavate & Construct W45-4
S21N2510	Opencut Excavation (W45, W46 & W47)		100%	36 12-Oct-11 A	23-Nov-11 A	Opeńcut Excavation (W45, W46 & W47)
S21N2520	Opencut Excavation (W48, W48A)		100%	18 01-Mar-11 A	31-Mar-11 A	☐ Opencut Excavation (W48, W48A)
S21N2530	Construction of RW Structure (W47)		100%	75 01-Mar-12 A	25-Aug-12 A	Construction of RW Structure (W47)
S21N2540	Construction of RW Structure (W48)		100%	45 13-Apr-12 A	19-Nov-12 A	Construction of RW Structure (W.48)
S21N2550	Construction of RW Structure (W48A)		100%	60 01-Apr-11 A	06-May-11 A	☐ Construction of RW Structure (W48A)
S21N2560	Backfilling W47, W48 & W48A		100%	40 28-Aug-12 A	11-Jan-13 A	Backfilling W47, W48 & W48A
				<u> </u>		

		10							
Activity ID		Activity Name	Total Float		Original Duration		Finish		2010
SO.	1112570	Construction of RW Structure (W45)		100%			04-Jun-12 A	1234	
		<u> </u>							Construction of RW Structure (W45) Construction of RW Structure (W46)
	1N2580	Construction of RW Structure (W46)		100%			26-May-12 A		
		Backfilling W45 & W46		100%		28-Aug-12 A			Backfilling W45 & W46
		Backfilling behind W45 to W48 and drainage works	-58	95%	70	04-Mar-13 A	30-Jan-14		Backfilling bel
	aining W						1		
	1N2604	Clearing & Prepare Piling Platform & Pre-drilling for W49		100%		20-Nov-10 A			Clearing & Prepare Piling Platform & Pre-drilling for W49
	1N2610	Sheet Pile/Excavate & Construct W49		100%		26-Mar-11 A			Sheet Pile/Excavate;&Construct W49
		Opencut Excavation		100%		26-Mar-11 A	' ' '		☐ Opencut Excavation
	1N2630	Construction of W49 Structure		100%		08-Mar-11 A			Construction of W49 Structure
S2 ⁻		Backfilling		100%		22-Aug-11 A			Backfilling
		Backfilling behind W49 and drainage works		100%	70	04-Mar-13 A	25-Nov-13 A		Backfilling behind)
Roa	d Re-Co	nstruction Works, Roadworks & Drainage		,					
S21	N4000	Road works Slow Lane (Ch2400 ~ 2650)		100%	20	14-Dec-12 A	04-Jan-13 A		☐ Road works Slow Lane (Ch2400 ~ 2650)
S21	N4010	Road works Slow Lane (Ch2650 ~ 2840)		100%	20	10-Jan-13 A	11-Apr-13 A		Road works Slow Lane (Ch2650 ~
S21	N4100	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-57	98.65%	133	06-Aug-11 A	28-Jan-14		Roadworks, t
S21	N4110	Removal of existing paving		100%	25	06-Aug-11 A	13-Jul-13 A		Removal of existing paving
S21	N4120	Drainages (incl. VO 33 : Drainage details at W48)		100%	25	06-Aug-12 A	05-Apr-13 A		Drainages (incl. VO 33 : Drainage (
S21	N4130	Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Watermain at Ma WO Subway TP9)	-56	95%	25	08-Jul-13 A	28-Jan-14		Utilities (incl.)
S21	N4135	Road Surface (Stage 1: CH2400 - CH2520)		100%	75	26-Dec-11 A	24-Feb-12 A		Road Şurface (Stage 1: CH2400 - CH2520)
S21	N4140	Road Surface (Stage 2 : CH2520 - CH2840)		100%	75	08-Jan-13 A	14-Dec-13 A		Road Surface (S
S21	N4141	Road Construction Works (CH2600 - CH3000) for traffic diversion stage 4B-1		100%	75	10-Jan-13 A	04-May-13 A		Road Construction Works (CH26
S21	N4142	Road Construction Works (Fast Lane) for C1/ C2 Interface stage 6B		100%	40	21-Jan-13 A	11-May-13 A		Road Construction Works (Fast
S21	N4143	Road Construction Works (Mid Lane) for C1/ C2 Interface stage 7B		100%	28	13-May-13 A	09-Jun-13 A		☐ Road Construction Works (Mil
S21	N4144	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 8B		100%	27	10-Jun-13 A	06-Jul-13 A		☐ Rọad Cọnstruction Works (\$
S21	N4145	Road Construction Works for C1/ C2 Interface Final stage	-57	95%	36	08-Jul-13 A	28-Jan-14		Road Constru
S21	N4150	Shift lane for C1/ C2 Interface (Stage 1)		100%	0	27-Feb-12 A			♦ Shift lane for C1/C2 Interface (Stage 1)
S21	N4152	Shift lane for C1/C2 interface (Stage 2: North Bound along W38 to W46)		100%	0	20-Jan-13 A			♦ \$hift lane for C1/ C2 interface (Stage 2:
S21	N4153	Shift lane for (CH2600 - CH3000) stage 4B-1		100%	0	05-May-13 A			♦ Shift lane for (CH2600 - CH3000
S21	N4155	Shift lane for C1/ C2 Interface stage 6B		100%	0	12-May-13 A			Shift lane for C1 C2 Interface st
S21	N4156	Shift lane for C1/ C2 Interface stage 7B		100%	0	09-Jun-13 A			♦ Shift lane for 01/ 02 Interface
S21	N4157	Shift lane for C1/ C2 Interface stage 8B		100%	0	07-Jul-13 A			Shift lane for C1/, C2 Interfac
S21	N4160	Shift lane for C1/ C2 interface Final stage	-57	0%	0	28-Jan-14			Shift lane for
Nois	se Barrie	ers & Road Barriers							
Noi	se Barrie	er NB31							
S2	1N3010	NB31 (CH 0-183.6, W39 - W49)		100%	80	07-Nov-12 A	17-Jan-13 A		NB31 (CH 0-183.6, W39 - W49)
S2	1N3060	NB31 : Excavation and Footing (Bay 1-4)		100%	24	07-Nov-12 A	05-Jan-13 A		NB31: Excavation and Footing (Bay:1-4)
S2	1N3070	NB31 : Excavation and Footing (Bay 5 - 7)		100%	24	01-Dec-12 A	08-Jan-13 A		NB31: Excavation and Footing (Bay 5:-7
S2	1N3080	NB31 : Erecting H-Column		100%	18	02-Jan-13 A	10-Jan-13 A		1 NB31: Erecting H-Column
S2°	1N3090	NB31 (CH 90-183.6) : Installation Panel		100%	18	11-Jan-13 A	17-Jan-13 A		■ NB31 (CH 90-183.6) :Installation Panel
S2°		Remaining NB31 Installation of Panel	-55	98.01%		27-Jun-13 A	27-Jan-14		Remaining N
Traf		rol & Survelance System							
		TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)		100%	50	10-Jan-13 A	07-Sep-13 A	-	:TC\$S (Gantry G23A) (i
Land	dscapin	<u> </u>					<u> </u>		
	-	Landscaping Works	-73	50%	25	02-Nov-13 A	19-Feb-14		Landscapini
	th Bou								
	liminarie								
		Site Clearance/Access Rd		100%	48	15-Oct-10 A	10-Dec-10 A	-	⇒ Site Clearance/Access Rd
						1			

	11	.1			0040		2011 2012 2013									0044	
Activity ID	Activity Name Tot	,	Original Start Duration	Finish	2010 21 Q2 Q3 1 2 3 4 5 6 7	3 Q4	Q1 C	2011 02 Q3	Q4	Q1 Q	2012 2 Q3	Q4	Q1	Q2	Q3 Q	14 Q	2014 Q1 Q2 Q
S21S0010	Site Clearance	100%	36 15-Oct-10 A	26-Nov-10 A	1234567		Site Clear		2 2 2 2	2 2 2 2 2	2 2 3 3	3 3 3	3 3 3 3	3 4 4	4 4 4 4	1444	455555
S21S0030	Access Road	100%	34 02-Nov-10 A			1 1 1 1	Access F	1 1 1 1									
		10078	04 02 NOV 10 A	10 Bec 10 A			Access	ioau									
Slopewo S21S5000	Slopeworks Fill(S26) 8	0 97.19%	40 25-Mar-13 A	28- lan-14									<u> </u>				Slopeworks
S21S5000	Slopeworks Fill(S26) - Lower +50mPD	100%	15 25-Mar-13 A						<u></u>						lopoworks		26) - Lower
S21S5010	Slopeworks Fill(S26) - Lower +50mPD		23 13-May-13 A	· ·										اد ا	opeworks	1.1	Slopeworks
S21S5100	Slopeworks Fill(S27)	100%	120 09-Jan-13 A														Slopeworks
S21S5100 S21S5110			60 09-Jan-13 A										T Clo	اعاماها	Les E 11/00	1 1	wer +50mPD
	Slopeworks Fill (S27) - Lower +50mPD	100%											1 30	pewori	KS FIII(547	7 1	
S21S5120	Slopeworks Fill(S27) - Lower +55mPD	100%	60 18-Jan-13 A	25-Jan-14 A													Slopeworks
	of Culverts	1000/	00 00 Dec 10 A	00 Fab 40 A													(TD0) D
S21S1100	Extension of Box Culvert (TP9), Downstream	100%	60 20-Dec-12 A									: : : :	1 1 1	1 1 1 1		1 1	(TP9), Dow
S21S5130	Temporary Water Diversion	100%	12 20-Dec-12 A												Water Di	1 1	
S21S5140	· ·	100%	48 29-Dec-12 A	06-Feb-13 A										onstru	ction of Ba	ise Slak	b, Wall & To
	tion of Retaining Wall																
	Wall W50		_														
	Sheet Pile/Excavate & Construct W50 (w/SP)	100%	215 21-May-12 A	·									1 1 1	1 1 1 1		<cayate< td=""><td>e & Construc</td></cayate<>	e & Construc
	Sheet Pile & ELS Works	100%	24 21-May-12 A	<u> </u>							1 1 1	Shee	t Pile &				
	Construction of W50 Structure	100%	75 02-Jan-13 A											1 1 1 1		W50 S	Structure
S21S203	Backfilling	100%	50 20-Mar-13 A	23-Apr-13 A							.] .] .]			□ Ba	ckfilling		
Retaining	Wall W51-56 (CSD 3)																
S21S210	Sheet Pile / Excavate & Construct W51-56 (w/SP)	100%	216 25-Feb-11 A	27-Dec-12 A			-				111		■ Shee	et Pile /	Excavate	. & Con	nstruct W51
S21S2110	Sheet Pile & ELS Works (W51)	100%	24 25-Feb-11 A	11-May-11 A				Sheet F	ile & EL	S Works	(W51)						
S21S212	Construction of W51 Structure	100%	42 19-Apr-11 A	14-Jun-11 A				Cons	truction	of W51	Structur	е					
S21S213	Sheet Pile & ELS Works (W52 & W53)	100%	24 28-Jul-11 A	16-Sep-11 A					Sheet	Pile & El	_\$ Worl	ks (W52	& W53	3)			
S21S214	Construction of W52 & W53 Structure	100%	42 17-Oct-11 A	05-Dec-11 A						Construc	tion of V	V52 & V	V53 Stri	ucture			
S21S215	Backfilling of W51, W52 & W53	100%	24 17-Jan-12 A	27-Dec-12 A							1 1 1		Back	filling c	of W51, W	/52 & V	N53
S21S216	Sheet Pile & ELS Works (W54, 55 & 56)	100%	24 17-Feb-12 A	03-Mar-12 A						☐ Sh	eet Pile	& ELS \	Works (W54, 5	55 & 56)		
S21S217	Construction of W54, 55 & 56 Structure	100%	75 15-Feb-12 A	06-Jul-12 A							<u> </u>	onstruct	tion of V	V54, 5	5 & 56 Str	ucture	
S21S218	Backfilling of W54, 55 & 56	100%	30 02-Aug-12 A	27-Dec-12 A									Back	dilling d	of W54, 55	5 & 56	
S21S219	Backfilling behind W51 to W56 and drainage works	100%	70 04-Mar-13 A	25-Nov-13 A									<u> </u>			」 Bacl	kfilling behin
Retaining	Wall W51A(CSD 3)		'	'													
S21S216	Excavate to cut-off level	100%	8 17-Jan-11 A	25-Jan-11 A			I Exca	ate to cut	off leve	4							
S21S216	Capping/Walling for W51A	100%	18 12-Jul-11 A	01-Aug-11 A				С	apping/\	Nalling to	or W51 <i>A</i>	i					
S21S216	Backfilling Backfilling	100%	30 28-Dec-11 A	04-Feb-12 A						Back	filling						
Retaining	Wall W35A, (CSD 2)																
S21S221	Construction of W35A (w/MP)	100%	198 13-Apr-12 A	05-Dec-12 A						 			Consti	ruction	of W35A	(w/MP))
S21S221	Removal of existing concrete structure at W35A	100%	35 13-Apr-12 A	03-Jul-12 A							<mark>—</mark> R	emoval	of existi	ng con	crete stru	cture at	t W35A
S21S221	Mini Piles for W35A (8 nos.)	100%	30 25-Jul-12 A	14-Aug-12 A								Mini Pi	les for V	V35A (8 nos.)		
S21S223	Excavation and tie back installation	100%	25 15-Aug-12 A	09-Oct-12 A								<u></u> Ex	cavation	and ti	e back ins	stallatio	'n
S21S224	Capping/Walling for W35A	100%	40 10-Oct-12 A	24-Nov-12 A		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4-4-4-4-4						Cappin	g/Wall	ng for W	35A	
S21S225	Backfilling	100%	6 29-Nov-12 A	05-Dec-12 A									Backfil	llinig :			
Road Re-	construction Works, Roadworks & Drainage																
S21S3895	Roadwork (South Bound slow lane along W35A)	100%	6 06-Dec-12 A	09-Dec-12 A								,	Road	work (S	South Bou	ınd slov	w lane along
S21S3896	Roadwork (South Bound slow lane along W50 - W56)	100%	30 01-Feb-13 A										1 1 1	'		1 1	Bound slow
S21S3900	Roadworks, Drainages & Utilities (CH 2400 - 2840)		150 25-Jan-13 A	·													Roadworks
S21S4001	Removal of Existing Paving	100%	40 25-Jan-13 A													1 1	Removal of
\$21\$2176 \$21\$2186 \$21\$2166 \$21\$2166 \$21\$2166 \$21\$2166 \$21\$2216 \$21\$2217 \$21\$2217 \$21\$22217 \$21\$22216	Drainages (incl. VO33: Drainage details at W48)		30 14-Sep-13 A													1 1	Drainages
S21S4003	,	9 90%	30 27-Jul-13 A	04-Feb-14												1 1	Utilities (ind
52101000		- 0070	25 2. 001 1071			<u> </u>	<u> </u>	1111	<u> </u>		111		<u> </u>		1 1 1 1		

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	12				1	0040	0010
	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 21 Q2 Q3 Q4 Q1 Q2 Q3 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 2 2	2012 2013 2014
S21S4010	Road Surface (CH2400 - CH2840)	-58	90%	65 04-Mar-13 A	06-Feb-14		Road Surfac
S21S4011	Road Construction Works (Fast Lane) for C1/ C2 Interface stage 4A		100%	40 21-Jan-13 A	13-Apr-13 A		Road Construction Works (Fast L
S21S4012	Road Construction Works (Mid Lane) for C1/ C2 Interface stage 5A		100%	27 15-Apr-13 A	25-May-13 A		Road Construction Works (Mid
S21S4013	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 6A		100%	39 27-May-13 A	30-Jun-13 A		☐ Road Construction Works (S
S21S4014	Road Construction Works for C1/ C2 Interface Final stage	-58	93%	45 02-Jul-13 A	30-Jan-14		Road Constr
S21S4030	Shift lane for C1/ C2 interface (South Bound along W35A)		100%	0 09-Dec-12 A			Shift lane for C1/ C2 interface (South Boun
S21S4031	Shift lane for C1/ C2 Interface stage 4A		100%	0 14-Apr-13 A			♦ Shift lane for C1/ C2:Interface state
S21S4032	Shift lane for C1/ C2 Interface stage 5A		100%	0 26-May-13 A			♦ Shift lane for C1/C2 Interface:
S21S4033	Shift lane for C1/ C2 Interface stage 6A		100%	0 30-Jun-13 A			♦ Shift lane for C1/C2 Interfac
S21S4050	Shift lane for C1/ C2 interface (Final stage)	-58	0%	0 30-Jan-14			♦ Shift lane for
Noise Barrie	ers		<u> </u>		J.		
Noise Barrie	er NB29						
S21S3010	NB29A (CH 0-62.3) on W35A (incl. VO 9: Construction of double leaf access door for noise barrier)		100%	20 01-Aug-13 A	07-Dec-13 A		NB29A (CH 0-62
S21S3011	NB29A (CH 0-62.3) on W35A - Erecting H-Column		100%	10 01-Aug-13 A	14-Sep-13 A		□ NB29A(CH:0-62.3) on
S21S3012	NB29A (CH 0-62.3) on W35A - Installing Panel		100%	10 27-Aug-13 A	07-Dec-13 A		NB29A (CH 0-62
Noise barrie	er NB30						
S21S3020	NB30 (CH 0-201.9) (incl. VO 9: Construction of double leaf access door for noise barrier)	-55	99.52%	104 01-Aug-12 A	27-Jan-14		NB30 (CH 0-
S21S3021	NB30 - Excavation and Footing (bay 1 - bay 3)		100%	75 01-Aug-12 A	22-Nov-12 A		NB30 - Excavation and Footing (bay 1 - bay
S21S3026	NB30 - Excavation and Footing (bay 13 - bay 15)		100%	25 02-May-13 A	14-Jun-13 A		NB30 - Excavation and Footin
	NB30 - Excavation and Footing (bay 4 - bay 12)		100%	45 02-Jul-13 A	18-Sep-13 A		NB30 - Excavation and
	NB30 : Erecting H-Column		100%	10 16-Sep-13 A	•		NB80 : Erecting H-
	NB30 : Installing Panel	-55	95%	10 17-Oct-13 A			NB30 : Install
Noise Barrie	-					 ::::::::::::::::::::::::::::::::::	
	NB33 (CH 0-143) (incl. VO 9: Construction of double leaf access door for noise barrier)		100%	102 01-Sep-12 A	09-Nov-13 A	 :::::::::::::::::::::::::::::::::::	NB\$3 (CH 0-1/43)
	NB33 : Excavation, construction of Footing & Backfilling (bay 3 - bay 13)		100%	75 01-Sep-12 A		—	NB33: Excavation, construction of Footin
	NB33 : Erecting H-Column (bay 3 - bay 13)		100%	15 14-Jan-13 A		—	I NB33 : Erecting H-Column (bay 3 - bay
	NB33 : Installing Panel (bay 3 - bay 13)		100%	12 25-Jan-13 A			□ NB33 ; Installing Panel (bay 3 - bay 1
	NB33 : Excavation, construction of Footing & Backfilling (bay 1 - bay 2)		100%	15 07-Mar-13 A		—	□ NB33 : Excavation, construction of F
	NB33 : Erecting H-Column (bay 1 - bay 2)		100%	7 26-Apr-13 A		—	NB33 : Erecting H-Column (bay
	NB33 : Installing Panel (bay 1 - bay 2)		100%	7 17-Oct-13 A		—	□ NB33: Installing Pa
			100 /6	7 17-001-13 A	09-N0V-13 A		Li Hybou. Ilistalling i a
	rol & Survelance System TCSS (Gantry G60A) (incl. VO73 Revised Sign Gantry Details)	-58	90%	30 02-Jul-13 A	20 lan 14		T¢\$S(Gantr
		-36	90 /6	30 02-3ul-13 A	25-Jan-14		1033 (Qanii
Landscaping S21S6000	Landscaping Works	90	30%	35 26-Nov-13 A	29 Eab 14		Landscapir
		-80	30%	35 26-NOV-13 A	20-Feb-14		Landstapii
Middle Lane							
	nstruction Works	00	00.040/	05 00 54 40 5	10 Feb 14		Banking to
	Roadworks, Drainage & Utilities (CH 2400 - 2840)	-66	82.31%	65 08-May-12 A			Roadworks,
	Removal of Central barrier & Roadmark		100%	25 08-May-12 A			Removal of Central barrier & F
	Removal of Existing Paving		100%	25 18-May-12 A	06-Jun-13 A		Removal of Existing Paving
Noise Barrie							
	er NB32, G23A & G60A			=	05.5 1 15.5		
	Excavate to cut-off level (Stage 1: Bay 1 - Bay 2)		100%	7 31-Jan-13 A			Excavate to cut+off level (Stage 1: Ba
	Construction for NB32 (Stage 1: Bay 1 - Bay 2)		100%	15 25-Feb-13 A			☐ Construction for NB32 (Stage 1: Ba
	Excavate to cut-off level (Stage 2: Bay 3 - Bay 26)		100%	15 18-May-13 A			Excavate to cut-off level (
	Construction for NB32 (Stage 2: Bay 3 - Bay 26 with G23A and G60A)		100%	50 31-May-13 A		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Construction for NB32
	Erecting H-Column, NB32		100%	20 05-Sep-13 A	·		☐ Erecting H-Column, N
S21M394	Installing Panel & Road Barrier, NB32		100%	30 05-Sep-13 A	25-Dec-13 A		nstalling Panel

Activity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2014
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q4 Q1 Q2 Q3 Q4 Q1 Q4 Q1 Q4
S21M400	Backfilling (Stage 1: Bay 1 - Bay 2)		100%	10 18-Mar-13 A	20-Apr-13 A	Backfilling (Stage 1: Bay 1 + Bay 2
S21M401	Backfilling (Stage 2: Bay 3 - Bay 26)	-66	90%	20 15-Jul-13 A	28-Jan-14	Backfilling (St
S21M403	Road Lighting Works	-66	85%	10 29-Apr-13 A	30-Jan-14	Road Lighting
S21M404	Remaining Roadworks & Road Surfacing	-66	80%	40 03-Oct-13 A	12-Feb-14	Remaining F
Ready For	Pre-Handover Retaining Wall of Section 1					
HRW0010	Ready For Pre-Handover Retaining Wall W35, W36, W38, W39, W40, W44, W45, W46, W47, W48, W49	-62	0%	7 27-Jan-14	06-Feb-14	I Ready For P
HRW0011	Ready For Pre-Handover Retaining Wall W35A, W50, W51, W52, W53, W54, W55, W56	-62	0%	7 27-Jan-14	06-Feb-14	■ Ready For P
Section 2						
Site Area S	SA22					
PHSA2220	Possession of SA22 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA22 (Day0)
SA220000	Site Area SA22 Works Period (incl. VO 28: Provision of hoarding at site boundry of SA 22)	96	95.48%	1216 26-Feb-10 A	22-Mar-14	Site Area
SA220010	Site Area SA22 Works Completion	96	0%	0	22-Mar-14	♦ Şitê Arêa
SA220020	Temporary Traffic Management (Detail shall refer to supplementary information)	96	94.42%	985 25-Feb-10 A	22-Mar-14	temporar
SA220030	Overall Utilities Diversion (Detail shall refer to supplementary information)	96	94.42%	985 25-Feb-10 A	22-Mar-14	Overall:Ut
North Bou	ınd					
Preliminari						
S22N0000	Site Clearance/Access Rd (W56A&W56B)		100%	90 26-Feb-10 A	18-Jun-10 A	Site Clearance/Access Rd (W56A&W56B)
S22N0001	Site Clearance - Stage 1 (Near W56A)		100%	30 26-Feb-10 A		Site Clearance - Stage 1 (Near W56A)
S22N0002	Access Road - Stage 1 (Near W56A)		100%	30 22-Mar-10 A	29-Apr-10 A	Access Road - Stage 1 (Near W56A)
S22N0003	Site Clearance - Stage 2 (Near W56B)		100%	30 19-Apr-10 A	<u>'</u>	Site Clearance - Stage 2 (Near W56B)
S22N0004	Access Road - Stage 2 (Near W56B)		100%	30 13-May-10 A	•	Access Road - Stage 2 (Near W56B)
S22N0030	Erection of Temp Safety Fence (N/B ch2840-3150)		100%	60 10-May-10 A		Erection of Temp Safety Fence (N/B ch2840-3150)
S22N0040	Erection of Temp Safety Fence (N/B ch2840-3000)		100%	30 10-May-10 A		Erection of Temp Safety Fence (N/B ch2840-3000)
S22N0050	Erection of Temp Safety Fence (N/B ch3000-3150)		100%	30 15-Jun-10 A		Erection of Temp Safety Fence (NI/B ch3000-3150)
Slopework			10070	30 10 00.11 1071	2. 6067.	
S22N5000	Slopeworks Cut & U-Channel/Berm (S29-sn), C4		100%	421 22-Jul-10 A	17-Dec-11 A	Slopeworks Cut & U-Channel/Berm (\$29-sn), C4
\$22N5010	Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)		100%	12 22-Jul-10 A		□ Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)
S22N5020	Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)		100%	12 26-Mar-11 A	-	Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS);
S22N5040	Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)		100%	50 19-Aug-10 A	· ·	Slopeworks (\$29) & U+Channel/Berm - Stage 2 (Cutslope)
S22N5050	Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)		100%	21 02-Apr-11 A		Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)
S22N5070	Slopeworks (S29) & U-Channel/Berm - Stage 3 (Cutslope)		100%	28 21-Oct-10 A	13-Nov-10 A	Slopeworks (\$29) & U-Channel/Berm - Stage 3 (Cutslope)
S22N5080	Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)		100%	36 27-Jun-11 A	08-Aug-11 A	Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)
S22N5100	Slopeworks (S29) & U-Channel/Berm - Stage 4 (Cutslope)		100%	36 26-Oct-11 A		Slopeworks (S29) & U-Channel/Berm : Stage 4 (Cutslope)
S22N5110	Slopeworks (S29) - Stage 4 (Soil Nail Installation : EFGH)		100%	36 07-Nov-11 A		Slopeworks (S29) - Stage 4 (Soil Nail Installation ::EFGH)
S22N5130	Slopeworks (S29) & U-Channel/Berm - Stage 5 (Cutslope)		100%	36 03-Jan-13 A		Slopeworks (S29) & U-Channel/Berm -
S22N5140	Slopeworks (S29) - Stage 5 (Soil Nail Installation : ABCD)		100%	36 21-Nov-11 A		Slopeworks (S29) - Stage 5 (Soil Nail Inst
S22N5140	Slopeworks (S29) & U-Channel/Berm - Stage 6 (Cutslope)		100%	36 22-Apr-13 A		Slopeworks (S29) &
Construction			10078	00 22 Apr 10 A	15 001 15 A	Giopowinis (GEV) it is
Potoining V	on of Retaining Wall Wall W56A, (CSD 1)					
S22NI2154	Excavate to cut-off level (Stage 1, Bay 1 - 5)		100%	60 20-Apr-11 A	06 Jul 11 A	Excavate to cut-off level (Stage 1, Bay 1 - 5)
022IN2104	, , , ,					
522IN2155	Excavate to cut-off level (Stage 2, Bay 5 - 9)		100%	50 26-Sep-11 A		Excavate to cut-off level (Stage 2, Bay 5 - 9)
S22N2160			100%	141 05-Jul-11 A	19-Dec-11 A	Base Slab for W56A
S22N2165	, , ,		100%	50 05-Jul-11 A	17-Sep-11 A	Base Stab for W56A (Stage 1), South
	, 5 h		100%	56 04-Jun-12 A	14-Jul-12 A	Base Slab for W56A (Stage 2), North
			100%	172 11-Aug-11 A		Wall Stem
S22N2171	Wall Stem (Bay 1e & 1f)		100%	25 11-Aug-11 A	23-Sep-11 A	Wall Stem (Bay 1e & 1f)

Activity ID	Activity Name		Antivity of	Original Chart	Einich	2010 2011 2012 2013 2014						
Activity ID	Tourney Humo	Total Float		Original Start Duration	Finish	11 Q2 Q3 Q4 Q1 Q2 Q3						
S22N2173	Wall Stem (Bay 1c & 1d, 1a & 1b, 1g)		100%	25 26-Sep-11 A	26-Oct-11 A	12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2						
	Wall Stem (Bay 2a, 2bnb, 2b)		100%	· ·	13-Oct-12 A	Wall Stem (Bay 2a, 2bhb, 2b)						
	Wall Stem (Bay 2c, 2d)		100%	30 06-Aug-12 A								
	Wall Stem (Bay 3)		100%	25 31-Aug-12 A		Wall Stem (Bay 3)						
	Backfilling		100%	30 19-Nov-12 A		Backfilling						
	Wall W56B (AD 1)		10078	30 13 NOV 12 A	20 0411 1074	The state of the s						
	Prepare Piling Platform for W56B		100%	37 02-Oct-10 A	11-Feb-11 A	Prepare Piling Platform for W56B						
	Pre-drilling for W56B		100%		15-Nov-10 A	Pre-drilling for W56B						
	Pipe Pile for W56B		100%	98 20-Nov-10 A		Pipe Pife for W56B						
S22N2241	Pipe Pile for W56B - Stage 1		100%	75 20-Nov-10 A		Pipe Pile for W56B - Stage 1						
	Pipe Pile for W56B - Stage 2		100%	75 31-Jan-11 A		Pipe Pile for W56B - Stage 2						
S22N2242 S22N2250			100%	276 17-Sep-11 A	<u> </u>	Construction of W56B						
S22N2250			100%	75 17-Sep-11 A	·	Excavation (W56B), upper						
	Excavation (W56B), upper			60 06-Jan-12 A								
S22N2252	<u>``</u>		100%		•	Excavation (W56B), Middle						
S22N2254	· · · · · ·		100%	60 11-May-12 A	·	Excavation (W56B), bottom						
S22N2260			100%	25 27-Jul-12 A	10-Sep-12 A	Base Slab (W56B), (Bay 1+3)						
S22N2262			100%	60 27-Sep-12 A		Base Slab (W56B), (Bay 4 + 8)						
S22N2264	, , , , , , , , , , , , , , , , , , ,		100%	35 27-Jul-12 A	13-Oct-12 A	Base Slab (W56B), (Bay 9, 10 & 12A):						
S22N2270			100%	75 01-Nov-12 A	·	Wall Stem (W56B) (Bay 1 - 3, 1						
S22N2274	, , , , , , , , , , , , , , , , , , ,		100%	75 12-Nov-12 A		Wall Stem (W56B) (Bay 4 - 8, 1						
S22N2276			100%	75 24-Nov-12 A	·	Wall Stem (W56B) (Bay 9 - 10,						
S22N2290			100%	15 10-Jan-13 A		□ Backfilling (Bay 1 to Bay 3)						
	Backfilling (Bay 4 to Bay 10)		100%	30 14-Jan-13 A	05-Mar-13 A	Backfilling (Bay 4 to Bay 10)						
	s & Drainage											
S22N4000	Roadworks, Drainages & Utilities (CH 2840 - 3140)		100%	129 15-Jan-13 A		Hoadworks, DI						
S22N4010	Roadworks Stage 1 (CH 2840 - 3000)		100%	30 15-Jan-13 A		Roadworks Stage 1 (CH 2840 -						
S22N4030	Drainages Stage 1 (CH2840 - 3000)		100%	30 15-Jan-13 A	05-Mar-13 A	Drainages/Stage/1/(CH2840 - 300						
S22N4040	Road Surface Works		100%	30 21-Mar-13 A	23-Apr-13 A	□ Road Surfface Works						
S22N4042	Roadworks Stage 2 (CH3000 - 3140)		100%	30 18-Mar-13 A	30-Jul-13 A	Roadworks Stage 2 (CF						
S22N4044	Drainages Stage 2 (CH3000 - 3140)		100%	30 20-Feb-13 A	11-Apr-13 A	Drainages Stage 2 (¢H3b0b ÷ 3						
S22N4046	Road Surface Works		100%	30 17-May-13 A	18-Aug-13 A	Road Surface Works						
S22N4048	Road Construction Works Remain Fast Lane (along CH2840 - 3140)		100%	50 25-Nov-13 A	07-Dec-13 A	☐ Road Construc						
Noise Barı	riers											
Noise Bar	rier NB31A											
S22N3020	NB31A (CH 0-21.9) on W56A (incl. VO 9: Construction of double leaf access door for noise barrier)		100%	74 15-Oct-12 A	22-Nov-12 A	NB31A(CH 0-21.9) on W56A (ind. VO 9:						
S22N3021	NB31A (CH 0-21.9) on W56A : Erecting H-Column		100%	38 15-Oct-12 A	19-Oct-12 A	■ NB31A(CH 0-21.9) pn W56A Erecting H-C						
S22N3022	NB31A (CH 0-21.9) on W56A: Installing Panel		100%	36 22-Oct-12 A	22-Nov-12 A	□ NB31A(CH 0-21.9) on W56A: Installing F						
South Bo	und			<u> </u>	<u> </u>							
Preliminar												
S22S0000	Site Clearance/Access Rd		100%	84 01-Apr-10 A	16-Jul-10 A	Site Clearance/Access Rd						
S22S0010	Site Clearance		100%	72 01-Apr-10 A	02-Jul-10 A	Site Clearance						
S22S0020	Access Road		100%	72 20-Apr-10 A	16-Jul-10 A	Access Road						
Slopeworl				<u> </u>								
S22S5000	Slopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Slope S28)		100%	198 21-Oct-10 A	17-Aug-11 A	Slopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Slope S28)						
S22S5010	Slopeworks Cut(S28) - Stage 1 (Cutslope)		100%		16-Nov-10 A	☐ Slopeworks Cut(S28) - Stage 1 (Cutstope)						
S22S5030	Slopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)		100%	23 17-Nov-10 A		Slopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)						
S22S5040	Slopeworks Cut(S28) - Stage 2 (Cutslope)		100%	37 11-Dec-10 A		Slopeworks Cut(\$28) - Stage 2 (Cutslope)						
52255.0			. 30 /0	3 300 1071								

A - 4 !-	ity ID	Activity Name	Total	,	Original Start	Cinich	2010 2011 2012 2013 2014						
Activ	תו וט		Total Float		Original Start Duration	Finish	11 Q2 Q3 Q4 Q1 Q2 Q3						
	S22S5060	Slopeworks Cut(S28) - Stage 2 (Soil Nail Installation : EFGH)		100%	37 08-Feb-11 A	23-Mar-11 Δ	12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2						
Н	S22S5070	Slopeworks Cut(S28) - Stage 3 (Cutslope)		100%	36 06-Jul-11 A	17-Aug-11 A	Slopewbrks;Cut(S28) - Stage 3 (Cutslope)						
1	S22S5070 S22S5090	Slopeworks Cut(S28) - Stage 3 (Soil Nail Installation : ABCD)		100%	36 20-Aug-11 A	04-Oct-11 A	Slopeworks Cut(S28) - Stage 3 (Soil Nail Installation : ABQD)						
	S22S5100	Slope Reinstatement Works (Bridge 12B)	-61		25 27-Jan-14	27-Feb-14	Slope Rei						
			-01	0 /6	25 27-0411-14	27-1 60-14	Slope ne						
Ш		on of Retaining Wall /all RWB12B				_							
Ш		Pre-drilling for RWB12B		100%	24 16-Jul-10 A	12-Aug-10 A	☐ Pre-drilling for RWB12B						
Ш	S22S2110 S22S2120	Piles for RWB12B			116 13-Aug-10 A								
ш		Excavate to cut-off level		100%			Piles for RWB12B						
Ш	S22S2130	1 11 11 11 11 11 11 11 11 11 11 11 11 1		100%	60 26-Jan-11 A	09-Apr-11 A	Excavate to cut-off level						
Ш	S22S2140	Capping/Walling for Bay 1-2, RWB12B		100%	60 28-Mar-11 A		Capping/Walling for Bay 1-2, RWB12B						
Ш		Capping/Walling for Bay 3-6, RWB12B		100%	75 11-May-12 A	·	Capping/Walling for Bay 3-6, RW 12B						
Ш	S22S2150	Backfilling		100%	60 04-Sep-12 A	22-Jun-13 A	Backfilling						
Ш.		nstruction Works, Roadworks & Drainage											
	S22S4000	Road Re-construction Works (CH 2840 - 3450)	-57		185 06-May-13 A		Road R						
	S22S4405	Road and Drainages Works for Fast Lane (CH2840 - 3000)	-56		45 06-May-13 A		Rọad ạnd t						
	S22S4410	Road Surface Works for Fast Lane (CH2840 - 3000)	-56		12 26-Nov-13 A	1 11	Road Surfa						
	S22S4415	Road Re-Construction Works for Mid 2 Lane (CH2840 - 3000)	-49	70%	24 20-Dec-13 A	11-Feb-14	Road Re-G						
Ш	S22S4420	Road and Drainages Works for Fast and Mid Lane (CH3000 - 3450)	-56	20%	18 26-Nov-13 A	19-Feb-14	Road and						
Ш	S22S4425	Road Surface Works for Fast Lane and Mid Lane (CH3000 - 3450)	-56	0%	10 19-Feb-14	03-Mar-14	■ Road Su						
Ш	S22S4430	Road and Drainages Works for Slow Lane (CH2840 - 3450)	-56	0%	10 03-Mar-14	14-Mar-14	III Road;an						
Ш	S22S4435	Road Surface Works for Slow Lane (CH3000 - 3450)	-56	0%	7 14-Mar-14	22-Mar-14	. □ Road S						
Ш	S22S4440	Road Construction Works Remaining Works (along CH2840 - 3450)	-57	0%	12 10-Mar-14	22-Mar-14	la Road C						
	S22S4500	Roadworks for Realignment of Existing Shek Lin Road	-55	0%	18 28-Feb-14	20-Mar-14	■ Roadwo						
	Traffic Cont	rol & Survelance System											
Ш	S22S4820	TCSS - (Gantry 60) (incl. VO73 Revised Sign Gantry Details)	-56	60%	50 16-Sep-13 A	22-Mar-14	toss-						
Ш	Modification	n of Existing Bridge 12											
Ш	S22S1300	Demolish Existing Parapet & Stitching Works for bridge 12 & 12B (incl. VO3 & VO29)	-51	44.29%	70 16-Sep-13 A	15-Mar-14	Demolis						
Ш	S22S1315	VO 3: Existing Bridge 12 pile cap construction		100%	30 17-Sep-10 A	15-Feb-11 A	VO 3: Existing Bridge 12 pile cap construction						
Ш	S22S1322	Removal of Existing Steel Barrier and Surface	-24	85%	8 22-Jul-13 A	28-Jan-14	Removal of						
	S22S1323	Stitching Works of Existing Bridge Decks B12 and B12B	-24	80%	20 08-Aug-13 A	05-Feb-14	Stitching W						
	S22S1324	Road Surface of B12B for TW Slip Road	-24	0%	7 05-Feb-14	13-Feb-14	I Road Surf						
	S22S1326	Removal of existing central barrier along B12 and Erection breaking platform	-57	70%	12 16-Sep-13 A	30-Jan-14	Removal of						
	S22S1328	Breaking the existing stitch of B12 and condition survey	-57	50%	18 14-Dec-13 A	08-Feb-14	Breaking th						
Ш	S22S1329	Removal M.J and Replacement M.J	-57	50%	8 26-Nov-13 A	13-Feb-14	Removal N						
	S22S1331	Stitching Works for B12	-57	0%	20 14-Feb-14	08-Mar-14	Stitching.						
Ш	S22S1332	Road Surface Works	-51	0%	6 10-Mar-14	15-Mar-14	.∎ Road Si						
Ш	Landscapin	ig	I		<u> </u>								
	S22S6000	Landscaping Works	-61	20%	30 23-Sep-13 A	27-Mar-14	Laindsc						
	Site Area S	A23											
	PHSA2320	Possession of SA23 (Day180)		100%	0 04-May-10 A		♦ Possession of \$A23 (Day180)						
	SA230000	Site Area SA23 Works Period		100%	586 16-Jul-10 A	25-Jan-14 A	Site Area S/						
	SA230010	Site Area SA23 Works Completion	151		0	27-Jan-14	♦ Siţe Area S						
	South Bou	· ·											
	Preliminario												
	S23S0000	Site Clearance / Site Access		100%	144 28-Dec-11 A	24-Aug-13 A	Site Clearance / Site Ad						
	S23S0000 S23S1000	Site Clearance		100%	72 28-Dec-11 A	-	Site Clearance						
	S23S1000	Site Access		100%	72 28-Dec-11 A								
	02002000	OILO MODOS		10076	12 20-Dec-12 A	24-7uy-13 A	Site Access:						

		<u> </u>				
ctivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2
Slopeworks						
S21N2638	Slopeworks Fill (S27)		100%	99 29-Nov-12 A	24-Jan-13 A	Sløpeworks Fill (\$27)
	Slopeworks Fill (S27) - Stage 1, +45mPD		100%	33 29-Nov-12 A		Slopeworks Fill (\$27) - Stage 1, +45mPD
	Slopeworks Fill (S27) - Stage 2, +50mPD		100%	33 08-Dec-12 A		☐ Slopeworks Fill (S27) - Stage 2, +50mPl
	Slopeworks Fill (S27) - Stage 3, +55mPD		100%	33 04-Jan-13 A		☐ Slopeworks Fill (S27) - \$tage 3, +55m
Landscapin	<u> </u>		10078	00 04 0an 10 A	24 0an 10 A	μ σιφρινοία τη φιαχέ ο, τορτί
	Landscaping Works		100%	50 23-Sep-13 A	25lan-14 A	Landscapino
			10070	20 Ccp 1071	20 0411 1471	
Site Area S						
PHSA2410	Possession of SA24 (Day180)		100%	0 04-May-10 A		♦ Possession of \$A24 (Day180)
SA240000	Site Area SA24 Works Period	-95		788 04-May-10 A	·	Sité Ar
SA240010	Site Area SA24 Works Completion	71	0%	0	16-Apr-14	⇒ Şitê Ar
North Boul	nd					
Preliminarie						
S24N0000	Site Clearance/Access Rd		100%	89 25-Aug-10 A	09-Dec-10 A	Site Clearance/Access Rd
S24N0010	Site Clearance		100%	72 25-Aug-10 A	19-Nov-10 A	Şite Clearance
S24N0020	Access Road		100%	72 07-Sep-10 A	09-Dec-10 A	Access Road
Slopeworks		,		'		
S24N5000	Slopeworks Cut(S31A)		100%	150 01-Jun-11 A	25-Nov-11 A	Slopeworks Cut(S31A)
S24N5010	Slopeworks Cut (S31A) & Soil Nail : Stage 1 (Upper +80mPD)		100%	60 01-Jun-11 A	06-Aug-11 A	Slopeworks Cut (S31A) & Soil Nail : Stage 1 (Upper +80mPD)
S24N5020	Slopeworks Cut (S31A) & Soil Nail : Stage 2 (Lower +72mPD)		100%	60 08-Aug-11 A	22-Oct-11 A	\$lopeworks Cut (\$31A) & Soil Nail ; Stage 2 (Lower +72mPD)
S24N5030	Slopeworks Cut (S31A) : Shortcreting		100%	30 24-Oct-11 A	25-Nov-11 A	Slopeworks Gut (\$31A); Shortcreting
S24N5810	Erect Scaffolding & Soil Nail Installation (Area 4)		100%	60 19-Mar-13 A	08-May-13 A	Erect Scaffolding & Spil, Nail, Ins
S24N5831	Slope Reinstatement Works (Bridge 12ASA incl. VO74)	-77	80%	75 30-Apr-13 A	15-Feb-14	Slope Rein
Constructio	n of Retaining Wall					
	/all W56B-2 (Bay 12) (AD)					
	Prepare Piling Platform for W56B-2		100%	24 02-Oct-10 A	07-Feb-11 A	Prepare Piling Platform for W56B-2
	Pre-drilling for W56B-2		100%	18 28-Oct-10 A	18-Nov-10 A	☐ Pre-drilling for W56B-2
	Retaining Wall W56B-2		100%	255 21-Jan-11 A		Retaining Wall W56B+2:
	Piles for W56B-2 (Stage 2)		100%	75 21-Jan-11 A		Piles for W56B-2 (Stage 2)
S24N2150	Excavation, upper		100%	75 26-Sep-11 A	·	Excavation, upper
			100%	60 26-Sep-11 A		Excavation, Middle
S24N2155	Excavation, Bottom		100%	75 11-May-12 A	-	Excavation, Bottom
	Construction of Base Slab (Bay 12)		100%		25-Aug-12 A	☐ Construction of Base \$lab (Bay 12)
	Retaining Wall Structure (Bay 12B)		100%		23-Nov-12 A	Retaining Wall Structure (Bay 12B)
	Drainage & Backfilling W56B-2			75 27-Feb-13 A		Retaining wai structure (Bay 12B) Drainage & Backfilling W56B-
			100%	75 27-FED-13 A	ZZ-IVIQY- I 3 A	hiamage, ∞ bagkılılıng i Məbb-
Retaining W			4000/	05 00 5 40 5	47 Aug 40 A	
	Construction of W57A		100%	35 26-Jun-13 A		Construction of W57A
	Construction of Structure W57A (W57B - bay1 to bay2)		100%	20 26-Jun-13 A		Construction of Structure
S24N2203			100%	7 22-Jul-13 A	17-Aug-13 A	□ Ba¢kfilling
	/all W57B (AD 2)					
	Prepare Piling Platform for W57B		100%	18 11-Jan-11 A		□ Prepare Piling Platform for W57B
	Pre-drill for W57B		100%	20 01-Apr-11 A	-	10 Pre-drill for W57B
	Piles for W57B		100%	45 01-Apr-11 A	·	Piles for W57B
S24N2340	Excavate at W57B		100%	75 26-May-11 A	23-Aug-11 A	Excavate at W57B
S24N2360	Retaining Wall W57B		100%	75 19-Apr-12 A	11-Dec-12 A	Retaining Wall W57B
S24N2370	Backfilling & Drainage W57B		100%	60 25-Jan-13 A	17-Aug-13 A	Backfilling & Drainage V
Potaining W	all W57C, (CSD 2)					

rity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2014							
,		Float		Duration		1 Q2 Q3 Q4 Q1 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3							
S24N2402	Pre-drilling for W57C		100%	20 26-Mar-11 A	19-Apr-11 A	□ Pre-drilling for W5/7C							
S24N2404	Piles for W57C		100%	45 01-Apr-11 A	14-May-11 A	Piles for W57C							
S24N2407	Excavate to cut-off level		100%	75 26-May-11 A	23-Aug-11 A	Excavate to cut-off level							
S24N2408	Retaining Wall, W57C		100%	75 19-Apr-12 A	13-Dec-12 A	Retaining Wall, W57C							
S24N2420	Backfilling & Drainage for W57C		100%	54 25-Jan-13 A	17-Aug-13 A	Backfilling & Draina							
Retaining W	all RWB12A	'	·	,	'								
S24N1500	Piling & Construct RWB12A		100%	195 04-Jun-11 A	31-Jan-12 A	Piling & Construct RWB12A							
S24N1510	Piling of RWB12A, Stage 1 (28/34 nos)		100%	60 04-Jun-11 A	31-Aug-11 A	Piling of RWB12A, Stage 1 (28/34 hos)							
S24N1515	Piling of RWB12A, Stage 2 (6nos)		100%	24 01-Sep-11 A	23-Sep-11 A	□ Piling of RWB12A, Stage 2 (6nos)							
S24N1517	Piles Load Test		100%	36 26-Nov-11 A	10-Jan-12 A	Piles Load Test							
S24N1520	Construction of Base Slab, RWB12A		100%	60 23-Apr-12 A	17-Apr-13 A	Construction of Base Slab, F							
S24N1522	Construction of Wall, RWB12A		100%	40 18-Apr-13 A	07-Jun-13 A	Construction of Wall, RV							
S24N1530	Backfilling		100%	20 09-May-13 A	25-Jun-13 A	□ Backfilling							
S24N1540	Construction the wing slab of RWB12A		100%	30 16-Sep-13 A	09-Nov-13 A	Construction							
Roadworks	, Drainage & Utilities	<u>'</u>		<u> </u>									
S24N4000	Roadworks, Drainages & Utilities (ch3140-3400, exclude B12A)		100%	109 19-Aug-13 A	07-Dec-13 A	Roadworks							
S24N4015	Road and Drainage Works		100%	10 19-Aug-13 A	14-Sep-13 A	☐ Road and Draina							
S24N4025	Road Surface Works for Mid and Slow Lane		100%	14 27-Aug-13 A	14-Sep-13 A	□ Road Surface W							
S24N4026	TTA - Stage 4B-3		100%	0	14-Sep-13 A	♦ TTA - Stage 4B-3							
S24N4035	Road Construction Fast Lane and Remaining Works (along CH3140 - 3400)		100%	50 26-Oct-13 A	07-Dec-13 A	—							
Landscapin	la di												
	Landscaping Works	-77	0%	50 17-Feb-14	16-Apr-14								
Site Area S	A25												
PHSA2520	Possession of SA25 (Day270)		100%	0 04-May-10 A		♦ Possession of SA25 (Day270)							
SA250000	Site Area SA25 Works Period (incl, Provision of hoarding at site boundary of SA25)	118		770 04-May-10 A	01-Mar-14	'Site 'A							
SA250010	Site Area SA25 Works Completion	118		0	01-Mar-14	♦ Site A							
SA250020	Temporary Traffic Management (Detail shall refer to supplementary information)	95		765 04-May-10 A		Tem;							
SA250030	Overall Utility Diversion (Detail shall refer to supplementary information)	95		765 04-May-10 A		Over							
		30	30.07 70	700 04 May 1071	OT WAT 14								
South Bou													
S25S0000	Site Clearance/Access Rd (ch3400-3600)		100%	97 20-Oct-10 A	16-Feb-11 A	Site Clearance/Access Rd (ch3400-3600)							
	, ,		100%	75 20-Oct-10 A	18-Jan-11 A	Site Clearance (ch3400-3600)							
S25S0010	Site Clearance (ch3400-3600)					Access:Road (ch3400-3600)							
S25S0020	Access Road (ch3400-3600)		100%	75 15-Nov-10 A	16-Feb-IIA	Access Hoad (ch3400-3600)							
Slopeworks			1000/	CO 15 OH 10 A	10 Nov. 10 A	(N. 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-							
S25S5000	Slopeworks Fill (S30A)		100%	60 15-Oct-12 A	10-Nov-12 A	□ Slopeworks Fiff(S30A)							
S25S5010	Slopeworks Fill (S30A) - Stage 1: +53.5mPD		100%	30 15-Oct-12 A	30-Oct-12 A	Slopeworks Fill (\$30A) - Stage 1: +53.5							
S25S5020	Slopeworks Fill (S30A) - Stage 2: 55.8mPD		100%	30 31-Oct-12 A	10-Nov-12 A	Slopeworks Fill (S30A). Stage 2: 55.8r							
S25S5110	Slope Reinstatement Works (Bridge 13A)	-38		25 26-Sep-13 A		Slope:							
S25S5140	Slope Reinstatement Works (Bridge LB1)	-38		25 26-Sep-13 A		Slópé							
S25S5150	Slope Reinstatement Works (S30A)	-38	65%	25 28-Sep-13 A	01-Mar-14	Slope							
	on of Retaining Wall												
	/all W58B, (CSD 2)				1								
	Site Formation		100%	25 01-Nov-10 A		☐ Site Formation							
S25S2030	Excavate to cut-off level		100%	10 01-Nov-10 A		Excavate to cut-off level							
	Construction of Structure W58B		100%	75 13-May-11 A		Construction of Structure W58B							
S25S2060	Backfilling		100%	45 05-Nov-12 A	08-Feb-13 A	Backfilling							

Activity ID	Astivity Name	Total		Onicina	I Ctort	Einich	2010 2011 2012 2013 2014							
Activity ID	Activity Name	Float				Finish	Q1 Q2 Q3 Q4 Q1 Q2 (Q3 Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3 Q4	Q1 Q2 Q3				
S25S4000	Roadworks, Drainages & Utilities (CH 3400 - 3600)	121			27-Feb-13 A	27-Jan-14	123456789111111111	1 2 2 2 2 2 2 2 2 2 3 3	3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4	445555555 Roadworks, I				
S25S4025	Road Works for Mid and Slow Lane	121	100%			03-Jun-13 A	—		Road Works	for Mid and Slow				
S25S4030	Drainages Works		100%		0 04-Mar-13 A		— :::::::::::::::::::::::::::::::::::::		Drainages Work	1 1 1 1 1 1 1 1 1				
S25S4040	Road Surface for Mid and Slow Lane		100%		31-May-13 A	<u>'</u>	— :::::::::::::::::::::::::::::::::::::			ce for Mid and Slo				
S25S4060	Removal of existing central barrier and forming temporary road (CH 3350 - CH 3550)		100%		2 24-Jun-13 A	09-Jul-13 A	—[:::::::::::::::::::::::::::::::::::::			of existing central t				
S25S4070	Road Construction and Remaining Works (along CH 3400 - 3600)	-15			27-Jul-13 A	29-Jan-14				Road Constri				
S25S4200	Slip Road H	10	100%		27-Aug-13 A		— :::::::::::::::::::::::::::::::::::::			Slip Road H				
	riers & Road Barriers		10070		27 Aug 1071	11 200 1071				Gilp 10aci				
Noise Bar						_								
\$25\$3000			100%	95	13-Nov-12 A	04-Feb-13 A			Construct Noise Barr	ier & Beam Barrie				
S25S3010	·		100%		6 13-Nov-12 A				NB34 : Foundation Wo					
S25S3020			100%		6 23-Jan-13 A		—[:::::::::::::::::::::::::::::::::::::		NB34: Installation of	: 1 : : : : : : 1				
	ntrol & Survelance System		10076	30	25 0an 15 A	041 65 10 A			i i i i i i i i i i i i i i i i i i i					
	TCSS - Stage 1 (Bridge 13A)		100%	30	0 08-Δpr-13 Δ	25-May-13 A			TCSS - Stage	e 1 (Bridge 13A)				
			100 /6	30	00-Apr-13 A	25-Way-15 A			i Goo Glage	; (blidge 19A)				
Site Area			40001		00 5-1-10		hard the state of							
PHSA2620	Possession of SA26 (Day0)		100%		26-Feb-10 A	40.0444	Possession of \$A26 (Day0)			dula				
SA260000	Site Area SA26 Works Period	-61			26-Feb-10 A	13-Mar-14				Site Area				
SA260010	Site Area SA26 Works Completion	-61				13-Mar-14				Site Area \$				
SA260020	Temporary Traffic Management (Detail shall refer to supplementary information)	-49			26-Feb-10 A	13-Mar-14				Temporari				
SA260030	Overall Utility Diversion (Detail shall refer to supplementary information)	-49			26-Feb-10 A	13-Mar-14				Overall Uti				
SA260040	Additional work to existing ball valves, HKCG	-64	0%	52	27-Jan-14	31-Mar-14				Additiona				
North Bot														
Preliminar						_								
S26N0000	Site Clearance/Access Rd (Tai Wo Road)		100%		26-Feb-10 A		Site Clearance/Access							
S26N0010	Site Clearance (Tai Wo Road)		100%			31-May-10 A	Site Clearance (Tai Wo Roa							
S26N0020	Access Road (Tai Wo Road)		100%	75	01-Jun-10 A	28-Aug-10 A	Access Road (Tai Wo	Road)						
Slopeworl														
S26N5000	Slopeworks Cut(S31A-sn)		100%		01-Jun-11 A			Slopeworks Cut(S						
S26N5010	Slopeworks Cut(S31A-sn) - Stage 1 (Upper +65mPD)		100%			06-Aug-11 A			- Stage 1 (Upper +65mPD)					
S26N5020	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)		100%		08-Aug-11 A				A-sn) - \$tage 2 (Middle +60mPD)	Ju J u Ju Ju Ju Ju Ju Ju Ju Ju Ju J				
S26N5030	Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)		100%		24-Oct-11 A	25-Nov-11 A		Slopeworks Cut(S	31A-sn) - Stage 3 (Lower +55mP[))				
S26N5040	Remaining Works of S31A	-29	70%	40	27-Jul-13 A	19-Feb-14				Remaining \				
	ion of Retaining Wall													
Retaining														
	Excavate & Construct W59 (w/SP)		100%			22-Mar-13 A			Excavate & Consti	uct W59 (w/SP)				
S26N2002	·		100%		01-Mar-12 A			W5	9: Base Slab of Bay 1-3					
S26N2004			100%		02-Jul-12 A	24-Dec-12 A			W59: Wall of Bay 1-3					
S26N2006	·		100%	56	19-Apr-12 A	12-Jan-13 A			W59: Base Slab & Wal					
S26N2008	·		100%		· .	09-Jul-12 A			/59: Excavation + Soil Nail for Bay					
S26N2012			100%		16-Jul-12 A	24-Dec-12 A			W59: Base Slab of Bay					
S26N2014	•		100%	75	27-Aug-12 A	02-Feb-13 A			W59: Wall of Bay 4-8					
S26N2020	Backfilling		100%	24	23-Apr-12 A	22-Mar-13 A			Backfilling					
Roadwork	s, Drainage & Utilities													
S26N4000	Roadworks, Drainages & Utilities (ch3400-3720)	-23	87.72%	92	29-Jul-13 A	12-Feb-14				Roadworks,				
S26N4035	Removal of existing paving	-43	60%	7	⁷ 29-Jul-13 A	29-Jan-14				Removal of e				
S26N4055	Road and Drainage Works for Slow and Mid Lane	-43	90%	25	27-Jul-13 A	05-Feb-14				Road and Dr				
S26N4065	Road Surface for Slow and Mid Lane	-43	90%	10	27-Aug-13 A	06-Feb-14				Road Surfac				

ctivity ID	Activity Name	Float	Activity % Complete	Origina Duration		Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
000111			-			10.5.1.1.	12345678911111111111222222222223333333333344444444
S26N4075	Road Construction Fast Lane and Remaining Works (along CH3400 - 3720)	-23	90%	50	26-Oct-13 A	12-Feb-14	Road Coris
Traffic Con	ntrol & Survelance System						
S26N4810	TCSS - (15m High mast M9), (SEC Poles SC24/ S24) & (Gantry 24) (incl. VO73 Revised Sign Gantry Details)	-31	65%	40	0 08-Jul-13 A	21-Feb-14	TCSS+(15
Modification	on of Existing Bridge						
Modificatio	on of Existing Bridge 13						
S26N1200	VO 27: Temporary access and lighting for inspection on Bridge Deck interior of Existing Bridge 13		100%	10	02-Jan-12 A	17-Jan-12 A	UO 27: Temporary access and lighting for inspection on Bridge De
S26N1210	Construction of Temporary Pier supports & Installation of Jacks	-44	76.49%	134	4 22-Jul-13 A	07-Mar-14	Construct
S26N1260	Removal of existing central barrier along B13, Erection breaking platform and re-construction of existing parapet		100%	14	4 22-Jul-13 A	25-Sep-13 A	Removal of existing o
S26N1270	Breaking the existing stitch of B13 and conditional survey		100%	25	5 27-Jul-13 A	04-Nov-13 A	Breaking the existing
S26N1330	Removal existing M.J, Bridge Jacking and replacement bearing & M.J		100%	35	5 27-Jul-13 A	23-Nov-13 A	Removal existing
S26N1340	TTA - Stage 4B-4	121	0%	C)	27-Jan-14	→ TTA- Stage
S26N1350	Stitch Works for B13 (Rebar and Formwork)		100%	35	5 07-Sep-13 A	25-Nov-13 A	Stitch Works for I
S26N1355	· · · · · · · · · · · · · · · · · · ·		100%			11-Jan-14 A	□ Stitch; Works f
	Road Surfacing and Road Diversion	-44	10%		5 13-Jan-14 A		Road Sur
Landscapii							
S26N6040	Landscaping Works (CH3400 - 3720)	-43	50%	50	16-Sep-13 A	07-Mar-14	Landscajo
South Bou		.0	0070		, 10 Cop 1071	or mar r	
<u> </u>							
Preliminari S26S0000	Site Clearance/Access Rd (Tai Wo Road)	1	100%	100	00 Feb 10 A	04-Aug-10 A	Site Clearance/Access Rd (Tai Wo Road)
	· · · · · · · · · · · · · · · · · · ·					-	
S26S10	Site Clearance (Tai Wo Road)		100%		_	05-Jun-10 A	Site Clearance (Tai Wo Road)
S26S20	Access Rd (Tai Wo Road)		100%	80	29-Apr-10 A	04-Aug-10 A	Access Rd (Taj Wo Road)
Slopework		40	F0.000/		4 40 E-1-40 A	40 5-1-44	
S26S5000	Slopeworks Fill(S32)	-49	58.33%		18-Feb-13 A		Slopeworks
S26S5010	Slopeworks Fill (S32) - Stage 1 (Lower +42mPD)		100%			30-May-13 A	Slopeworks Fill (S32) - Stage
S26S5020	Slopeworks Fill (S32) - Stage 2 (Upper +45mPD)	-49	60%		08-Jun-13 A		Slopeworks
S26S5110	Slope Reinstatement Works (besides LB3)	-27	37.5%		1 04-Mar-13 A		Slope Rein
S26S5120	Slope Reinstatement Works (besides LB3) - Lower: below +24mPD	-27	70%		04-Mar-13 A		Slope Reins
S26S5130	Slope Reinstatement Works (besides LB3) - Upper: above +24mPD	-27	55%	20	27-Aug-13 A	15-Feb-14	Slope Rein
<u> </u>	on of Retaining Wall						
Retaining V	Wall RWTW1, (CSD 1)						
S26S1289	Pre-drilling for RWTW1 part 1		100%	11	1 26-May-11 A	08-Jun-11 A	☐ Pre-drilling for RWTW1 part 1
S26S1290	Construct RWTW1N & RWTW1S		100%	325	5 26-Nov-11 A	25-Sep-13 A	Constr <mark>u</mark> ct RWTW1N
S26S1391	Temp. Working Platform		100%	30	26-Nov-11 A	17-Dec-11 A	☐ Temp. Working Platform
S26S1392	Construction of Structure (mini piles)		100%	60	04-Jan-12 A	31-Jan-12 A	☐ Construction of Structure (mini piles)
S26S1394	Construction of Structure (part 1, Half of North & South RW)		100%	50	29-Dec-11 A	17-Feb-12 A	Construction of Structure (part 1, Half of North & South RW)
S26S1395	Backfilling (part 1, Half of North & South RW)		100%	30	18-Feb-12 A	23-Feb-13 A	Backfilling (part 1. Half of North & So
S26S1401	ELS Works, Excavation and Protection Existing Gas Main		100%	20	25-Mar-13 A	21-Jun-13 A	ELS Works, Excavation and
S26S1402	Construction of Structure (part 2, Remaining RW)		100%	35	5 19-Apr-13 A	17-Jul-13 A	Construction of Structure (
S26S1403	Backfilling (part 2, Remaining RW)		100%	15	5 21-Jun-13 A	11-Sep-13 A	Backfilling (part 2, Ren
S26S1404	Roadworks		100%	18	3 15-Aug-13 A	25-Sep-13 A	
Retaining V	Wall RWTW2, (CSD 1)	-					
\$26\$5120 \$26\$5130 Construction Retaining to the second s	Pre-drilling for RWTW2		100%	12	2 12-Jan-11 A	25-Jan-11 A	□ Pre-drilling for RWTW2
S26S1380	Piling/Excavate & Construct RWTW2		100%	609	9 26-May-11 A	25-Sep-13 A	Piling/Excavate & Cor
S26S1381	Minipile Piling works, Stage 1 (Half Bay 1)		100%			24-Sep-11 A	Minipile Piling works, Stage 1 (Half Bay 1)
S26S1382			100%			04-Jun-12 A	Piling platform for Stage 2 (Bay 2-4)
S26S1383			100%			08-Aug-12 A	Minipile piling works, stage 2 (31 nps.)
32381000	F - 1 F - 100 C - 100 C - (- 1 - 1 - 1 - 1)		. 50 /5		5 : 55:: 1 2 /(The state of the Assert Service Servic

		20							
Activity	ID	Activity Name	Total Float		Original Start Duration	Finish	21 (2010 Q2 Q3 4 5 6 7	2011 2012 2013 2014 3 Q4 Q1 Q2 Q3 Q4 Q1 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q3
	S26S1384	Base slab of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	75 26-Nov-11 A	10-Nov-12 A		1 1 1	Base slab of RWTW2 (stage 1 & 2: half Ba
	S26S1386	Wall of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	48 12-Nov-12 A	22-Jan-13 A			Wall of RWTW2 (stage 1 & 2: half Ba)
	S26S1520	Construction of Remain of RWTW2 (stage 3: Remaining Half Bay 1, Connection to LB2)		100%	50 18-Feb-13 A	04-Jun-13 A	-111		Construction of Remain of R
	S26S1530	Backfilling of RWTW2		100%	20 02-May-13 A	18-Jun-13 A			□ Backfilling of RWTW2
	S26S1540	Roadworks		100%	20 22-Aug-13 A	25-Sep-13 A			. □ Roadworks
1	Retaining W	all RWTW3, (VO)			J.	1			
	S26S1389	Pre-drilling for RWTW3		100%	12 28-Dec-10 A	11-Jan-11 A			☐ Pre-drilling for RWTW3
	S26S1390	Piling/Excavate & Construct RWTW3		100%	708 01-Aug-11 A	25-Sep-13 A			Piling/Excavate & Co
	S26S1591	Piling for RWTW3		100%	24 01-Aug-11 A	23-Sep-11 A			Piling for RWTW3
	S26S1592	ELS Works & Excavation		100%	24 28-Dec-11 A	28-Jan-12 A			☐ EĻS Works & Excavation
	S26S1593	VO 51.1: Modification works of ELS		100%	20 03-Jul-12 A	31-Jul-12 A			□ VO 51.1: Modification works of ELS
	S26S1596	VO 51.1: Construction RWTW Base Slab (Bay2-8)		100%	60 20-Aug-12 A	10-Nov-12 A			VO 51.1: Construction RWTW Base Slab (I
	S26S1598	VO 51.1: Construction RWTW Wall Stem (Bay 2-8)		100%	60 17-Sep-12 A	14-Jan-13 A	-		VO 51.1: Construction RWTW Wall St
	S26S1600	VO 51.1: Temporary cut to slope toe		100%	25 22-Jan-13 A				VO 51.1: Temporary cut to slope
	S26S1602	VO 51.1: Rockfill Slope (Bay 1 -Bay 7)		100%	40 13-Apr-13 A	· ·			VO 51.1: Rockfill Slope (Ba
	S26S1604	VO 51.1: Construction RWTW3 (Bay 1)		100%	40 12-Nov-12 A				□ VO:51.1: Canstruction RWTW3 (Bay 1)
	S26S1606	VO 51.1: Remaining Rockfill below LB3	119		20 19-Jun-13 A				VO 51:1: R
		VO 51.1: Roadworks	113	100%	30 26-Jun-13 A				VO 51 1∶Roadworks
	Retaining W			10078	30 20-00H-13 A	25-3ер-13 А			w G 311 in Galwon
Ш		Construction of RWTW 3A		100%	168 01-Oct-12 A	25-Sep-13 A			Construction of RW
		ELS works RWTW3A				15-Nov-12 A			ELS works RWTW3A
				100%	32 01-Oct-12 A				
		Excavation works RWTW 3A		100%	25 16-Nov-12 A				□ Excavation works RWTW 3A
		RC wall construction RWTW 3A		100%	70 26-Nov-12 A	· ·			RC wall construction RWTW 3
		Backfill RWTW 3A		100%	20 06-May-13 A				□ Backfill RWT W 3A
		Roadworks		100%	30 26-Jun-13 A	25-Sep-13 A			Roadworks
		all W60 & W61A (CSD 2)	1						
		Pre-drilling for W60 & W61A		100%	7 06-May-11 A		-111		Pre-drilling for W60.& W61A
	S26S2030	Mini Piles for W60 & W61A		100%	30 15-Jun-11 A				Mini Piles for W60 & W61 A
	S26S2040	Excavation		100%	50 19-Apr-12 A				Excavation
	S26S2050	Construct Cap & Wall		100%	52 06-Jun-12 A	31-Aug-12 A			Construct Cap & Wall
	S26S2060	Backfilling		100%	30 04-Sep-12 A	10-Apr-13 A			Backfilling:
	Temporary I	Bridge bet. RWTW2 & RWTW1							
	S26S2520	TTA Stage 5		100%	0 27-Sep-12 A				♦ TTAStage 5
	Road Re-co	nstruction Works, Roadworks, Drainage & Utilities							
	S26S4000	Roadworks, Drainages & Utilities (Landing between B13A & B15A within CH 3600 - 3720)		100%	62 18-Feb-13 A	21-Jun-13 A			Roadworks; Drainages & U
	S26S4002	Removal of existing paving of landing area		100%	12 18-Feb-13 A	09-Apr-13 A			Removal of existing paving of lan
	S26S4005	Road Works		100%	25 10-Apr-13 A	31-May-13 A			Road Works:
Ш	S26S4006	Drainages Works		100%	15 23-Apr-13 A	30-May-13 A			☐ Drainages Works
	S26S4010	Road Surface Works (incl. VO14: Revised Layout of Police Observation Platform at CH3700)		100%	10 01-Jun-13 A	21-Jun-13 A			☐ Road Surface Works (incl.)
	Noise Barrie	ers & Road Barriers							
	Noise Barrie								
	_	Construct Noise Barrier & Beam Barrier, NB35		100%	60 15-Mar-13 A	18-Jun-13 A			Construct Noise Barrier & B
	S26S3010	Construct Noise Barrier : foundation Works. NB35		100%	30 15-Mar-13 A				Construct Noise Barrier: found
		Construct Noise Barrier : Installation of H-coulmn & Panel NB35		100%	7 17-May-13 A		-		□ Construct Noise Barrier In
		Remaining Works of NB35	-49		10 27-Aug-13 A				Remaining:
		rol & Survelance System		30,0					
	S26S4800	TCSS		100%	57 12-Mar-13 A	10-Aug-13 A			TCSS
	S26S4810	TCSS - Stage 1 (LB1) (VSLS Pole P55)		100%	30 12-Mar-13 A	_			TCS\$ Stage 1 (LB
	0200 4 010	1000 Olage I (LDI) (VOLOT OIE 100)		100%	00 12-181d1-10 A	21-0ep-13 A			Jage I (LD

	1				1		2010			0044			0040		00.	10		0014
ctivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	21 Q2	2010 Q3	Q4	Q1 (2011 Q2 Q3	Q4	Q1	2012 Q2 Q3	Q4 Q ² 3 3 3 3 3	20 ⁻ 1 Q2	Q3 Q4	Q1	2014 Q2 (
S26S4820	TCSS - Stage 1 (LB2)		100%	15 15-Jul-13 A	20-Aug-13 A	112 3 4	3 0 1	19111	<u> </u>	<u> </u>			2233	<u> </u>		TCS:		
S26S4830	TCSS - Stage 1 (LB3), (Gantry G101) (incl. VO73 Revised Sign Gantry Details)		100%	30 10-Jun-13 A	10-Aug-13 A											TC\$5	- Stage	e 1 (LB3)
Landscapir	ng			<u> </u>														
S26S6000	Landscaping Works	-49	38.33%	60 26-Nov-13 A	13-Mar-14													Landsc
S26S6010	Landscaping Works - Stage 1, East of B13A	-49	10%	30 26-Nov-13 A	13-Mar-14			1 - 1 - 1 - 1 1 1 1 1 1						!!! <u>-</u>		-		Landsc
S26S6040	Landscaping Works - Stage 2, West of B13A	-49	10%	30 26-Nov-13 A	13-Mar-14													Landsc
Middle Lar	ne																	
	onstruction Works, Roadworks & Drainage																	
S26S4014	Removal of existing paving (CH3400 - CH3720)		100%	25 26-Aug-13 A	13-Sep-13 A											□ Re	moval o	of existing
S26S4019	Road Works and Surface Works (CH3400 - 3720)		100%	30 26-Aug-13 A	13-Sep-13 A									\		□ Ro	ad Worl	rks and Su
Constructi	ion of Bridge 12B																	
S22S1310	Construction of Bridge 12B		100%	367 15-Apr-10 A	20-Jul-13 A											- Constri	uction of	of Bridge 1
			10070	1071011071	20 001 1071											Jongar		Pilago
Preparatol S22S1210	ry and Enabling Works Prepare Piling Platform		100%	38 15-Apr-10 A	31-May-10 A		Prop	ro Dilin	g Platfor	m								
S22S1210 S22S1220	Pre-drilling Works		100%	26 15-Apr-10 A			i . i . i .	lling Wo	-1-1-1-	[11] 								
			100%	20 13-Apr-10 A	13-iviay-10 A		ı ı e-ul	ming vv¢	יי עס									
	ion Works of Bridge 12B		4.000/	00 04 1 40 4	40 Av. 40 A			3.11.11.1		/D40000								
S22S1230	Socketed H-Pile (B12BP8)		100%				1 1 1	1 1 1 1	1 1 1	(B12BP8			toton	ho\				
S22S1250	Modify Pile caps & Additional Foundation (B12BP8)		100%	101 02-Jul-10 A	30-Oct-10 A		1 1 1	i i i i	i i i	i i i i i		Founda	tion (B12B	P8) : : :				
S22S1251	Excavation & ELS Works		100%	36 02-Jul-10 A	12-Aug-10 A		; <mark></mark> ;	=xcavatı +-+-+-	on & Է∟ 	S Works		 			<u> </u>			4444
S22S1260	VO 17.1: Modify Pilecap of Bridge 12, Pier 5, 6 & 7 (Deleted)		100%	48 18-May-12 A	-								1 1 1 1 1	1: Modify I	1 1 1 1 1	1 1 1	: : : :	1 1 1 1
S22S1270	VO 17.1: Modify Pilecap of Bridge 12, Pier 8 (Deleted)		100%	48 18-May-12 A										1: Modify I	Pilecap of	Bridge 12	Pier 8	(Deleted)
S22S1280	VO 17.2: Piling for C9		100%	24 26-Jul-11 A	20-Aug-11 A						VO 17.2	1 1 1 7						
S22S1290	VO 17.2: Piling for C10		100%	20 26-Sep-11 A							Ŭ VO	i i i i	ng for C10					
S22S1340	VO 17.2: Pilecap construction of C9		100%	60 06-Mar-12 A						 		; ; ; 		2. Pilecap				
S22S1350	VO 17.2: Pilecap construction of C10		100%	54 01-Jun-12 A										VO 17.2: P	1 1 1 1 1	1 1 1 1	: 1 : :	
S22S1400	VO 17.2: Backfilling & Site Formation		100%	24 11-May-12 A												ackfilling &		1 1 1 1
S22S1410	VO 17.2: Pier Construction of C9 & C10		100%	94 01-Jun-12 A	20-Sep-12 A									VO 17.2:	1 1 1 1 1	1 1 1 1		210
S22S1420	VO 17.2: Pier Construction of C9		100%	60 01-Jun-12 A	31-Jul-12 A									0 17.2: Pie	1 1 1 1 1	i i i i	i i i	
S22S1430	VO 17.2: Pier Construction of C10		100%	75 28-Aug-12 A	13-Oct-12 A									UO 17.		nstruction	of C10	
S22S1440	Construction of 12B North Abutment		100%	75 26-Aug-11 A	31-Oct-11 A						<u> </u>	onstructi	on of 12B N	orth Abutr	nent			
S22S1450	VO 17.2: Deck Construction (Bearings, Drainage & MJ inculded)		100%	179 20-Dec-12 A	20-Jul-13 A									 	<u>: </u>	■ VO 17.	2: Deck	Construc
S22S1460	VO 17.2: Scaffolding & Falsework		100%	35 20-Dec-12 A	28-Mar-13 A										UO 1	7.2: Scaffo	lding &	Falsewor
S22S1470	VO 17.2: Deck Formwork, Steel Fixing and Concreting - C9 - C10 (Stage 1)		100%	65 14-Mar-13 A	12-Jul-13 A											J VO 17.2	: Þeck	Formwor
S22S1480	VO 17.2: Deck Formwork, Steel Fixing and Concreting - NA to C9 (Stage 2)		100%	65 23-Mar-13 A	12-Jul-13 A											VO 17.2	: Deck	Formwor
S22S1500	Stressing		100%	5 15-Jul-13 A	20-Jul-13 A	7		T-T-3-i					, - , - , - , - , - , - , - , - , - , -		-	Stressi	ng	
S22S1520	Parapet (Steel Barrier)	-51	95%	15 15-Aug-13 A	27-Jan-14												F	Parapet (S
S22S1540	Road surface & road work	-51	0%	14 27-Jan-14	15-Feb-14												•	Road sur
Construct	ion of Bridge 12A																	
S24S1280	Construction of Bridge 12A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills)		100%	451 25-Aug-10 A	14-Sep-13 A		-		1 1 1							Co	nstructio	on of Brid
																		-1-1-1-1
	ry and Enabling Works									, , , ===="(
S24N1210	Site Clearance		100%	42 25-Aug-10 A			1 1 1	1 1 1 1	Clearar	icė :								
S24N1220	Haul Road		100%	42 25-Aug-10 A			- i i i	1 1 1 1	ıl Road									
S24N1230	Gas main Diversion, HKCG		100%	55 25-Aug-10 A	· ·		- i i i	1 1 1 1	i i i	Gas ma		sion, HK	CG					
S24N1240	11 KV Cable Diversion		100%	55 25-Aug-10 A	30-Oct-10 A			1.1.1.1.1		le Diversi				. , , , , , , , , , , , , , , , , , , ,				
S24N1250	Telephone Cable Diversion		100%	55 25-Aug-10 A	30-Oct-10 A			Te	lephone	Cable Di	version							
Substructi	ure and Pier Construction						-111	1111	1111									

Activity ID	Assirida Nome		Anti-day 0/	Original Chart	Einich	2010 2011 2012 2013 2014							
Activity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3							
South Abut	tment					1234567891111111111222222222233333333334444444444							
S24N1260	Piling-South Abutment		100%	29 15-Oct-10 A	19-Jan-11 A	Piling-South Abutment							
S24N1261	Preparing piling platform		100%	18 15-Oct-10 A	05-Nov-10 A	□ Prepairing piling platform							
S24N1262	Pre-drilling		100%		05-Nov-10 A	□ Pre-drilling							
S24N1263	Piling (21nos)		100%	43 27-Nov-10 A		Piling (21pos)							
S24N1310	Excavation & Cap-South Abutment		100%	35 04-May-11 A		Excavation & Cap-South Abutment							
S24N1310	Pier & backfill, South Abutment		100%	36 27-Jun-11 A		Pier & backfill, South Abutment							
	FIEL & DACKIIII, SOUTH ADUTHERT		100%	36 27-Juli-11 A	17-Aug-11 A	Fiel & backiii, South Abuthert							
Pier 1	Diling Diay 1 (45 page)		1000/	20 00 May 11 A	07 Apr 11 A	Piling-Pier 1 (15nos)							
S24N1270	Piling-Pier 1 (15nos)		100%	30 02-Mar-11 A	·								
S24N1320	Cap-Pier 1 & Backfill		100%	36 23-May-11 A		Cap-Pier 1 & Backfill							
S24N1370	Pier 1 (Pierhead included)		100%	96 26-Sep-11 A	17-Dec-11 A	Pier 1 (Pierhead included)							
Pier 2													
S24N1280	Piling-Pier 2 (15nos)		100%	38 02-Aug-10 A	-	Piling-Pier 2 (15hos):							
S24N1330	Cap-Pier 2 & Backfill		100%	38 20-Nov-10 A		Çap-Pier 2 & Backfill							
S24N1380	Pier 2 (Pierhead included)		100%	96 14-Apr-11 A	12-Aug-11 A	Pier 2 (Pierhead included)							
Pier 3													
S24N1290	Piling-Pier 3 (15nos)		100%	38 16-Feb-11 A	27-Apr-11 A	Piling-Pier 3 (15nos)							
S24N1340	Cap-Pier 3 & Backfill		100%	32 26-May-11 A	04-Jul-11 A	Cap-Pier 3 & Backfill							
S24N1390	Pier 3 (pierhead included)		100%	96 11-Jul-11 A	02-Nov-11 A	Pier 3 (pierhead induded)							
North Abut	ment												
S24N1300	Pre-drilling & Preparation for Piling (incl. VO 39: Revised Foundation for North Abutment)		100%	24 26-May-11 A	23-Jun-11 A	Pre-drilling & Preparation for Piling (incl. VO:39: Revised Foundation for North A							
S24N1302	ELS for North abutment		100%	75 19-Jan-12 A	07-Nov-12 A	ELS for North abutment							
S24N1350	Cap-North Abutment		100%	25 08-Nov-12 A	20-Nov-12 A	□ Cap-North Abutment							
S24N1400	Abutment, Drainage & backfill, North Abutment		100%	75 21-Nov-12 A	25-Jun-13 A	Abutment, Drainage & bao							
Decking a	nd Finishing												
S24N1410	Deck-South Abutment to Pier 1		100%	62 07-Dec-11 A	26-Apr-12 A	Deck-South Abutment; to Pier 1							
S24N1420	Deck-Pier 1 to Pier 2		100%	75 23-Apr-12 A	30-Aug-12 A	Deck-Pier 1 to Pier 2							
S24N1430	Deck-Pier 2 to Pier 3		100%	75 02-Jun-12 A	22-Dec-12 A	Deck-Pier 2 to Pier 3							
S24N1434	Erection of Falsework		100%	25 29-Dec-12 A	22-Jan-13 A	□ Erection of Falsework							
S24N1440	Deck-Pier 3 to North Abutment		100%	60 22-Jan-13 A	30-Apr-13 A	Deck-Pier 3 to North Abutment							
S24N1444	Dismantling of Falsework		100%	25 14-May-13 A	· ·								
S24N1450	Parapet (icl, precast concrete skin)		100%	21 18-Feb-13 A		Parapet (id), predast cond							
S24N1457	Erecting Railing (Short Column and barrier)		100%	10 13-Aug-13 A		☐ Erecting Railing (Sho							
S24N1463	Noise Barrier (Erecting H-Column and Panel)		100%	15 06-Jun-13 A	· ·	Noise Barrier (Erecti							
S24N1470	Road Lighting		100%	12 27-Aug-13 A		□ Road;Lighting;							
S24N1480	Surfacing		100%	12 30-Jul-13 A	11-Sep-13 A	Surfacing							
S24N1490	Inspection and Handover of Bridge 12A		100%	3 12-Sep-13 A	<u> </u>	I Inspection and Hand							
	-		100 /6	3 12 36p-13 A	17 OCP 10 A	i inspection and rand							
<u> </u>	ion of Bridge LB2		10001	044 40 6 44 6	05.0 45.5	Construction of Brid							
S26S1200	Construction of Bridge LB2 (incl. VO29 & 37: revised piling details and pile caps sleeving detaills)		100%	641 16-Apr-11 A	25-Sep-13 A	Construction of Brid							
	ry and Enabling Works												
S26S1205	Gas main Diversion at East Abutment (No Connection)		100%	15 24-Jan-13 A		Gas main Diversion at East Abutme							
S26S1215	Temporary Traffic Arrangement for Piling Work		100%	75 28-Dec-11 A	04-Jun-12 A	Temporary Traffic Arrangement for Piling Work							
Substructi	ure and Pier Construction												
TW4													
S26S1203	Excavation and lateral support		100%	20 05-Mar-12 A	30-Jun-12 A	Excavation; and lateral support;							
S26S1204	Coring and backfill for Piling works		100%	75 02-Jul-12 A	28-Jul-12 A	☐ Coring and backfill for Piling works							
S26S1212	Piling-TW4 (20)		100%	49 30-Jul-12 A	17-Oct-12 A	Piling-TW4 (20)							
		,		1.	'								

	23		Activity %			2010 2011 2012 2013 2014							
Activity ID	Activity Name	Total Float		Original Start Duration	Finish	2010 2011 2012 2013							
		Float						89111111111122222222233	3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5 5 5 5				
S26S1217	Pile Load Test (1 Tension & 2 compression)		100%		22-Nov-12 A				☐ Pile Load Test (1 Tension & 2 compression)				
S26S1222	Cap-TW4 & Backfill		100%	35 23-Nov-12 A					Cap-TW4 & Backfill				
S26S1225	Pier-TW4 Pier		100%	35 06-Feb-13 A	16-Mar-13 A				Pier-TW4 Pier				
TW5													
S26S1206	Els, coring and backfill for Piling works		100%	30 19-Jun-12 A					Els, coring and backfill for Piling works				
S26S1210	Piling-TW5 (20)		100%	40 09-Nov-12 A					Piling-TW5 (20)				
S26S1220	Cap-TW5 & Backfill		100%	24 23-Jan-13 A					☐ Cap-TW5 & Backfill				
S26S1227	Pier-TW5 Pier		100%	35 23-Feb-13 A	05-Mar-13 A				Pier-TW5 Pier				
East Abutn			1000/	00 10 Am 11 A	00 him 44 A								
S26S1214	Piling-East Abutment, Stage 1		100%	•	30-Jun-11 A			Piling-East Abutment, Stage					
S26S1218	Piling-East Abutment, (stage 2, 6 nos. piles remain)		100%	18 29-Oct-12 A	08-Nov-12 A				Piling-East Abutment, (stage 2, 6 nos. piles re				
S26S1219	Pile Load Test (1 compression)		100%		11-Dec-12 A				- 1				
S26S1224	Excavation & Pilecap (Delay by gasmain)		100%	28 04-Mar-13 A					Excavation & Piledap (Delay by gas				
S26S1234	East Abutment		100%	30 02-Apr-13 A	·				East Abutment				
S26S1254	Backfilling		100%	14 04-Jun-13 A	10-Jun-13 A				I Backfilling				
West Abutr			10001	75 00 11 11	00.0 : 15 :								
S26S1202	Els, coring & backfill for Piling works		100%		08-Oct-12 A				Els, coring & backfill for Piling works				
S26S1216	Piling-West Abutment (28)		100%		30-Nov-12 A				Piling-West Abutment (28)				
S26S1226	Excavation & Pilecap		100%	28 27-Dec-12 A					Excavation & Pilecap				
S26S1236	West Abutment		100%	35 02-Feb-13 A					West Abutment				
S26S1256	Backfilling		100%	14 29-Apr-13 A	07-Aug-13 A				Backfilling				
	and Finishing		1000		0.50								
S26S1238	Bridge Decking (Bearings, Drainage & MJ inculded)		100%	84 18-Mar-13 A	·				Bridge Decking (Beari				
S26S1240	Falsework Erection of Deck - West Abutment to TW4		100%	14 18-Mar-13 A	·				Falsework Erection of Deck - We				
S26S1241	Bridge Deck - West Abutment to TW4		100%	48 20-Apr-13 A					Bridge Deck - West Abutment				
S26S1242	Falsework Dismantling of deck - West Abutment to TW4		100%		24-Aug-13 A	-111			Falsework Dismantling o				
S26S1243	Falsework Erection of Deck - TW4 to TW5		100%	14 18-Mar-13 A					Falsework Erection of Deck - TW				
S26S1244	Bridge Deck - TW4 to TW5		100%	48 24-Apr-13 A					Bridge Deck - TW4 to TW5				
S26S1245	Falsework Dismantling of deck - TW4 to TW5		100%	10 10-Jul-13 A	24-Aug-13 A				Falsework Dismantling o				
S26S1246	Falsework Erection of Deck - TW5 to East Abutment		100%	14 08-May-13 A	-				☐ Falsework Erection of Deck - T				
S26S1247	Bridge Deck - TW5 to East Abutment		100%	48 15-May-13 A					Bridge Deck - TW5 to East				
S26S1248	Falsework Dismantling of deck - TW5 to East Abutment		100%	10 10-Jul-13 A	24-Aug-13 A				Falsework Dismantling o				
S26S1260	Parapet (icl, precast concrete skin)		100%		25-Sep-13 A				Parapet (icl, precast c				
S26S1265	Road Lighting		100%	5 27-Aug-13 A	·				☐ Road Lighting				
S26S1270	Surfacing		100%	10 16-Sep-13 A					□ Surfadng				
S26S1310	Handover Inspection of LB2 (TTA Stage 11)		100%	158 18-Mar-13 A	25-Sep-13 A	-!!!			Handover Inspection of				
	ion of Bridge LB3												
S26S1280	Construction of Bridge LB3(incl. excavation & backfill) (incl. VO29 & VO37)		100%	267 26-Feb-11 A	02-Oct-13 A				Construction of Bridge				
Substruct	ure & Abutment												
S26S1320	Piling for East Abutment		100%	60 26-Feb-11 A	14-May-11 A			Piling for East Abutment					
S26S1330	Piling for West Abutment		100%	60 14-May-11 A				Piling for West Abutment					
S26S1340	ELS & Excavation for East & West Abutment		100%	36 07-Dec-11 A	21-Jan-12 A				tion for East & West Abutment				
S26S1350	Construction of East/West Abutment Structure		100%	45 19-Jan-12 A	13-Jul-12 A				onstruction of East/West Abutment Structure				
Decking a	nd Finishing												
S26S1370	Bridge Deck (Bearings, Drainage & MJ included)		100%	257 19-Apr-12 A	24-Nov-12 A				Bridge Deck (Bearings, Drainage & MJ inclu				
S26S1371	Falsework and Scaffolding		100%	36 19-Apr-12 A	31-Aug-12 A				Falsework and Scaffolding				
S26S1372	Construction of Deck		100%	69 05-Sep-12 A	24-Nov-12 A				Construction of Deck				
		,											

	24					
ctivity ID Act	tivity Name	Total Activity % Float Complete			Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
						1234567891111111111111222222222233333333333344444444
	Isework dismantling of Deck	100%		4 21-Dec-12 A		Falsework dismantling of Deck
	rapet (icl, precast concrete skin)	100%		26-May-13 A		Parapet (icl. precast cond
	ecting of Short Column	100%		0 19-Jun-13 A		Erecting of Short Colum
	stalling M-Barrier	100%		7 27-Aug-13 A		☐ Installin <mark>g</mark> M-Bartier
S26S1378 Sur	rfacing	100%	8	3 16-Sep-13 A	25-Sep-13 A	
S26S1385 Har	ndover Inspection of LB3	100%	1	1 02-Oct-13 A	02-Oct-13 A	I Handover Inspection
Construction	of Bridge LB1					
S26S1400 Cor	Instruction of Bridge LB1 (incl. VO29 & VO37: revised piling details and pile caps sleeving details)	100%	643	3 03-May-10 A	02-Oct-13 A	Construction of Brid
Preparatory ar	nd Enabling Works					
S26S1405 Site	e Clearance	100%	75	5 03-May-10 A	06-Aug-10 A	Site Clearance
S26S1406 Site	e Clearance - Stage 1 (LB1-North Abutment)	100%	60	0 03-May-10 A	14-Jul-10 A	Site Clearance - Stage 1 (LB1-North Abutment)
S26S1407 Site	e Clearance - Stage 2 (LB1-TW3)	100%	60	27-May-10 A	06-Aug-10 A	Site Clearance - Stage 2 (LB1-TW3)
S26S1410 Acc	cess Road	100%	75	5 03-May-10 A	31-Jul-10 A	Access Road
S26S1411 Acc	cess Road - Stage 1 (LB1-North Abutment)	100%	60	0 03-May-10 A	14-Jul-10 A	Access Road - Stage 1 (LB1-North Abutment)
S26S1412 Acc	cess Road - Stage 2 (LB1-TW3)	100%	60	0 20-May-10 A	31-Jul-10 A	Access Road - Stage 2 (LB1-TW3)
S26S1450 SA2	25-Site Clearance (TW1 & TW2)	100%	53	3 26-Mar-11 A	02-Jun-11 A	SA25-Site Clearance (TW1 & TW2)
S26S1455 SA2	25 - Access Road (TW1 & TW2)	100%	53	3 26-Mar-11 A	02-Jun-11 A	SA25 - Access Road (TW1 & TW2)
	31: Fencing for Former Lot 1308 S.B in D.D.6	100%		0 27-Jun-11 A		U VO 31: Fencing for Former Lot 1308 S.B in D.D.6
	and Pier Construction					
North Abutment						
	ng-North Abutment	100%	51	1 01-Jun-10 A	31- Jul-10 A	Piling-North Abutment
	cavation & Cap-North Abutment	100%		4 11-Nov-10 A		Excavation, & Cap-North Abutment
	er & backfill, North Abutment	100%		6 26-Jan-11 A		Pier & backfill. North Abutment
	a & backilli, North Abutinent	100%	36	20-Jan-11 A	04-Apr-11 A	Fiel & Dackin, NOI th Addition
TW3	TWO	1,000/		4 00 Dag 40 A	Od May dd A	
	ng-TW3	100%		4 28-Dec-10 A		Piling-TW3
· ·	p & Backfill - TW3	100%		5 26-May-11 A		Çap & Backfill - TW3
	er-TW3 (Pierhead included)	100%	/5	5 08-Aug-11 A	17-Dec-11 A	Pier-TW3 (Pierhead included)
TW1						
	ng-TW1	100%		21-Oct-10 A	11-Nov-10 A	□ Pilintg÷TW1
· ·	p & Backfill - TW1	100%			19-Feb-11 A	☐ Cap & Backfill - TW1
	er-TW1 (Pierhead included)	100%	75	5 23-May-11 A	08-Jul-11 A	Pjer-TW1 (Pierhead included)
TW2						
	ng-TW2	100%			15-Apr-11 A	☐ Piling+TW2
	p & Backfill - TW2	100%	45	5 21-Jun-11 A	15-Jul-11 A	□ Cap & Backfill - TW2
S26S1482 Pier	er-TW2 (Pierhead included)	100%	75	5 26-Jul-11 A	11-Feb-12 A	Pier-TW2 (Pierhead included)
Decking and F	Finishing					
S26S560 Dec B13	cking (Bearings, Drainage & MJ included) (incl. VO 45: Details Drainage Arrangement of LB1 & 3A)	100%	199	9 27-Jul-11 A	12-Jul-12 A	Decking (Bearings; Drainage & MJ included);(incl: V
S26S570 Bala	lanced Cantilever at TW1	100%	63	3 27-Jul-11 A	12-Oct-11 A	Balanced Cantilever at TW1
S26S580 Pre	eparing of Travelling Form	100%	18	8 27-Jul-11 A	17-Aug-11 A	☐ Preparing of Travelling Form
S26S590 Cor	instruction of Cantiliver Deck, TW1	100%	40	0 30-Sep-11 A	17-Dec-11 A	Çonstrucțion of Canțiliver Deck, TW1
S26S610 Sou	uth End Span	100%	40	28-Dec-11 A	16-Feb-12 A	South End Span
	lanced Cantilever at TW2 & Stitching (TW1-TW2)	100%		8 01-Feb-12 A	15-May-12 A	Balanced Cantilever at TW2 & Stitching (TW1-TW2)
	eparing of Travelling Form	100%			29-Feb-12 A	□ Preparing of Travelling Form
	enstruction of Cantiliver Deck, TW2	100%			15-May-12 A	☐ Construction of Cantiliver Deck, TW2
	tching TW1-TW2	100%		8 11-May-12 A	-	Stitching TW1-TW2
	lanced Cantilever at TW3 & Stitching (TW2-TW3)	100%		2 28-Dec-11 A		
3203070 Bala	ianoa cannover at 1990 a chloning (1992-1993)	100%	52	ZU-DEC-II A	19-Api-12A	Balanced Cantilever at TW3 & Striching (TW2-TW3)

tota de	Authority Manne	T. 4 - 1	A - 1 - 1 - 0 /	Out with all Ot and	Et. t. t.	2010 2011 2012 2013 20
ivity ID	Activity Name	Total Float		Original Start Duration	Finish	2010 2011 2012 2013 20 21 Q2 Q3 Q4 Q1 Q 12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
S26S680	Preparing of Travelling Form		100%	12 28-Dec-11 A	11-Jan-12 A	☐ Preparing of Travelling:Form
S26S690	Construction of Cantiliver Deck, TW3		100%	40 12-Jan-12 A	19-Apr-12 A	Construction of Cantiliver Deck, TM3
S26S700	Stitching TW2-TW3		100%	22 18-May-12 A	22-Jun-12 A	□ Stitching TW2-TW3
S26S720	North End Span		100%	50 18-May-12 A	12-Jul-12 A	North End Span
S26S740	Parapet (icl, precast concrete skin)		100%	52 05-Nov-12 A	21-Sep-13 A	Parapet (icl, pi
S26S750	Erecting of Precast Parapet		100%	32 05-Nov-12 A	27-Aug-13 A	Erecting of Prec
S26S760	Installing M-Barrier		100%	6 15-Aug-13 A	21-Sep-13 A	
S26S770	Noise Barrier		100%	6 15-Aug-13 A		□ Noise Barrier
S26S780	Surfacing		100%	7 16-Sep-13 A	·	□ Surfacing
S26S790	Road Lighting		100%	7 27-Aug-13 A	-	☐ Road Lighting:
S26S800	Handover Inspection of LB1		100%	1 02-Oct-13 A	·	Handover Ins
	· I		100%	1 02-00-13 A	02-OCI-13 A	zii işvunan,
	ion of Bridge 13A					
S26S1300	Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills)		100%	744 03-May-10 A	22-Jun-13 A	Construction of Bridg
Preparator	ry and Enabling Works					
S26S1610	Site Clearance		100%	24 03-May-10 A	31-May-10 A	☐ Site Clearance
S26S1611	Access Road		100%	63 03-May-10 A	17-Jul-10 A	Access Road
S26S1620	Gas main Diversion at North/South Abutment, HKCG		100%	37 01-Jun-10 A	15-Jul-10 A	Gas main:Diversion at North/South Abutment, HKCG
S26S1690	SA25-Site Clearance		100%	25 26-Feb-11 A	26-Mar-11 A	SA25-Site Clearance
S26S1700	SA25 Haul Road		100%	25 26-Feb-11 A	26-Mar-11 A	☐ SA25 Ḥaul Road
S26S1710	SA25-Gas Main diversion at South Abutment & P1		100%	25 26-Feb-11 A	26-Mar-11 A	SA25-Gas Main diversion at South Abutment & P1
Substructi	ure and Pier Construction					
North Abuti						
S26S1630	Piling-North Abutment		100%	65 16-Jul-10 A	30-Sep-10 A	├── Piling-North Abutment
S26S1631	Pre-drilling & Preparing of piling platform		100%	20 16-Jul-10 A	07-Aug-10 A	□ Pre-drilling & Preparing of piling platform
S26S1631	Piling		100%	45 09-Aug-10 A		Piting
S26S1650	Excavation & Cap-Nouth Abutment		100%	50 04-Jan-11 A		Excavation & Cap-Nouth Abutment
	·					
S26S1670	Construction of Abutment-Nouth Abutment		100%		17-Dec-11 A	Gonstruction of Abutment-Nouth Abutment
S26S1930	Backfill Stage 1, North Abutment		100%	24 01-Mar-12 A		Backfill Stage 1, North Abutment
S26S1940	Backfill Stage 2, North Abutment		100%	60 15-Oct-12 A	24-Apr-13 A	Backfill Stage 2, North Ab
South Abut						
S26S1720	Piling-South Abutment		100%	90 02-Dec-10 A	23-Mar-11 A	Piling-South Abutment:
S26S1721	Pre-drilling & Preparing of piling platform		100%	30 20-Aug-10 A	20-Sep-10 A	☐ Pre-drilling & Preparing of pilling platform
S26S1722	Piling		100%	60 10-Jan-11 A		Piling
S26S1750	Excavation & Cap-South Abutment		100%	40 26-May-11 A	14-Jul-11 A	Excavation & Cap-South Abutment
S26S1780	Abutment, South Abutment		100%	38 26-Oct-11 A	17-Dec-11 A	Abutment, South Abutment
S26S1950	Backfill Stage 1, South Abutment		100%	24 01-Mar-12 A	04-Jul-12 A	Backfill Stage 1, South Abutment
S26S1960	Backfill Stage 2, South Abutment		100%	43 19-Nov-12 A	25-Feb-13 A	Backfill Stage 2, South Abutm
S26S1970	COD: 13ASA 18 days additional Drainage works (if RFI can be replied before 4-12-2012)		100%	18 01-Apr-13 A	19-Apr-13 A	
P1					<u> </u>	
S26S1730	Piling-P1		100%	20 18-Oct-10 A	30-Nov-10 A	□ Piling-P1
S26S1760	Cap & Backfill - P1		100%	33 26-May-11 A		Cap.&:Backfill -: P1
S26S1790	Pier-P1		100%	75 26-Jul-11 A	24-Oct-11 A	Pier-P1
S26S1820	Pier-P1 Pierhead		100%	48 14-Feb-12 A		Pier-P1 Pierhead
	TIOT T TOTTION		100 /6	TO 14-1 60-12 A	10 Αμι-12 Α	i i i i i i i i i i i i i i i i i i i
P2	Dilina DO		1000/	0E 00 May 44 A	40 Am 44 A	
S26S1740	Piling-P2		100%	35 28-Mar-11 A		□ Piling⊦P2 □ Cap & Backfill - P2:
S26S1770	Cap & Backfill - P2		100%	38 26-May-11 A	. 11 h.l 11 Λ	

2	6

stivity ID	Activity Name	Total	Activity 9/	Original Start	Einich	2010 2011 2012 2013 2014		
ctivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	1 Q2 Q3 Q4 Q1 Q2 Q3 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1		
S26S1800	Pier-P2		100%	75 26-Oct-11 A	27-Jan-12 A	12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2		
S26S1910	Pier-P2 Pierhead		100%	53 01-Aug-12 A		Pier-P2 Pierhead		
P3	Tion 12 Fiornicad		10070	00 01 7tdg 127t	12 000 1270			
S26S1640	Piling-P3		100%	50 26-Feb-11 A	19-Mar-11 Δ	□ Piling-P3		
S26S1660	Cap & Backfill -P3		100%	50 26-May-11 A		Cap & Backfill -P3		
S26S1680	Pier-P3		100%	96 26-Sep-11 A		Pier-P3		
S26S1000 S26S1920	Pier-P3 Pierhead		100%	48 19-Apr-12 A		Pier-P3 Pierhead		
			10078	40 19-Api-12A	31-30F12 A			
S26S1808	nd Finishing Decking (Bearings, drainage & MJ included) (incl. VO 45: Details of Drainage Arrangement of LB1 & B13A)		100%	110 01-Jun-12 A	01-Mar-13 A	Decking (Bearings, drainage & MJ		
	,							
S26S1810	Balanced Cantilever deck at P1		100%	0 01-Jun-12 A		Balanced Cantilever deck at P1:		
S26S1811	Preparing of Travelling Form		100%	12 01-Jun-12 A	25-Sep-12 A	Preparing of Travelling Form		
S26S1812	Construction of Cantiliver Deck at P1		100%	55 15-Jun-12 A	04-Aug-12 A	Construction of Cantiliver Deck at P1		
S26S1816	South End Span (South abutment-P1)		100%	197 13-Aug-12 A	09-Nov-12 A	South End Span (South abutment P1)		
S26S1818	South End Span		100%	50 13-Aug-12 A	10-Nov-12 A	South End Span		
S26S1830	Balanced Cantilever deck at P2 & Stitching (P1-P2)		100%	78 19-Nov-12 A	14-Jan-13 A	Balanced Cantilever deck at P2 & Stite		
S26S1831	Preparing of Travelling Form		100%	12 19-Nov-12 A	08-Dec-12 A	☐ Preparing of Travelling Form		
S26S1832	Balanced Cantilever deck at P2		100%	50 10-Dec-12 A	05-Jan-13 A	□ Balanced Cantilever deck at P2		
S26S1833	Stitching (P1-P2)		100%	18 11-Jan-13 A	14-Jan-13 A	I Stitching (P1-P2)		
S26S1840	Balanced Cantilever deck at P3 & Stitching (P2-P3)		100%	73 20-Aug-12 A	17-Jan-13 A	Balanced Cantilever deck at P3 & Stit		
S26S1841	Preparing of Travelling Form		100%	12 20-Aug-12 A	05-Sep-12 A	☐ Preparing of Travelling Form		
S26S1842	Balanced Cantilever deck at P3		100%	43 06-Sep-12 A	05-Nov-12 A	Balanced Cantilever deck at P3		
S26S1843	Stitching (P2-P3)		100%	18 15-Jan-13 A	17-Jan-13 A	I Stitching (P2-P3)		
S26S1850	North End Span & Stitching (Nouth Abutment-P3)		100%	96 29-Oct-12 A	01-Mar-13 A	North End Span & Stitching (Nouth		
S26S1851	End Spans for B13A		100%	29 29-Oct-12 A	01-Feb-13 A	End Spans for B13A		
S26S1852	Post Tentioning Works		100%	18 18-Feb-13 A	01-Mar-13 A	☐ Post Tentioning Works		
S26S1860	Parapet (icl, precast concrete skin)		100%	24 19-Mar-13 A	25-May-13 A	Parapet (icl, precast concret		
S26S1863	Erection of Short Column and Barrier		100%	12 03-May-13 A		Erection of Short Column a		
S26S1873	Noise Barrier (Erection of H-Column and Panel)		100%	12 03-May-13 A		Noise Barrier (Erection of I		
S26S1875	Lighting		100%	12 25-May-13 A		Lighting;		
S26S1880	Surfacing		100%	12 25-May-13 A		□ Surfacing		
S26S1900	Handover Inspection of Bridge 13A		100%	3 21-Jun-13 A		I Handover Inspection of Br		
	· · ·		10078	3 ZI ddii 10 A	ZZ ddii 10 A	I Handove inspection of Br		
	People for Pro Handover Retaining Wall WEEA WEEA WEEA WEED WEEC WEE and	10	00/	7 97 lon 14	06-Feb-14	n Doody 50		
HRW0020	Ready For Pre-Handover Retaining Wall W56A, W56B, W57A, W57B, W57C, W59 and RWB12A(N)	-19		7 27-Jan-14		■ Ready Fo		
HRW0021	Ready For Pre-Handover Retaining Wall W58, W60, W61A, RWTW1, RWTW2, RWTW3, RWTW3a and RWB12B	-19	0%	7 27-Jan-14	06-Feb-14	II Ready Fo		
Section 3								
Site Area S	SA26A							
PHSA26A2	Possession of SA26A (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA26A (Day0)		
SA26A000	Site Area SA26A Works Period	-9	98.02%	1215 26-Feb-10 A	19-Feb-14	Site Area		
SA26A010	Site Area SA26A Works Completion	-9	0%	0	19-Feb-14	♦ Site Area		
SA26A020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	-8	98.17%	983 26-Feb-10 A	19-Feb-14	Tempora		
SA26A030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-8	98.17%	983 26-Feb-10 A	19-Feb-14	Overall'L		
North Bou	und							
Preliminari								

Antivity ID	Activity Name	Total	,	Original Start Duration	Einich	2010 2011 2012 2013 2014			
Activity ID		Total Float			Finish	11 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3			
S26AN01	0 Site Clearance		100%	60 26-Feb-10 A	12-May-10 A	1234567891111111111122222222222333333333444444444			
S26AN02			100%	60 07-Apr-10 A	•	AccessiRd			
Slopew			10070	00 07 7tp: 1071	10 0411 1071				
S26AN50			100%	48 26-Apr-12 A	03lul-12 A	Cut Slope (S37A)			
S26AN50			100%	168 19-Jun-10 A	08-Jan-11 A	Qut Slope (\$40-sn; Including removal of existing retaining wall)			
S26AN50			100%	11 19-Jun-10 A	16-Jul-10 A	□ Slopeworks;Cut(S40) - Stage 1 (Cut Slope and Erect;Scaffolding)			
S26AN51			100%	11 19-Jul-10 A	18-Aug-10 A	Slopeworks Cut(S40) - Stage 1 (Soil Nail Installation : QRST)			
S26AN51			100%	14 19-Aug-10 A		Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)			
S26AN51			100%	14 21-Nov-10 A	·	☐ Slóp'eworks Cut(S40) - Stage 2 (Soil Nail Installation : MNOP)			
S26AN51			100%	17 18-Aug-10 A	17-Sep-10 A	Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)			
S26AN52			100%	17 27-Dec-10 A	01-Feb-11 A	Slopeworks Cut(\$40); - Stage 3 (Spil;Nail;Installation : IJKL)			
S26AN52			100%	12 28-Jan-11 A	15-Feb-11 A	Slopewbrks;Cut(S40) - Stage 4;(Cut Slope and Erect;Scaffolding)			
S26AN52	Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)		100%	12 02-Feb-11 A	19-Feb-11 A	☐ Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)			
S26AN52			100%	15 29-Oct-11 A	16-Nov-11 A	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)			
S26AN52	6 Slopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)		100%	18 16-Nov-11 A	07-Dec-11 A	Slopeworks Cut(\$40) - Stage 5 (Soil Nail Installation : ABCD)			
S26AN52	8 Removal of Existing Retaining Wall		100%	30 11-Apr-11 A	20-May-11 A	Removal of Existing Retaining Wall			
S26AN53	Cut Slope (S41-sn)		100%	138 19-Jun-10 A	02-Dec-10 A	Cut Slope (S41-sn)			
S26AN53	Cut Slope (S41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)		100%	11 19-Jun-10 A	16-Jul-10 A	Cut Slope (\$41-sn) - Stage 1 (Cut \$lope and Erect Scaffolding)			
S26AN53	Cut Slope (S41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)		100%	11 19-Jul-10 A	13-Aug-10 A	☐ Cut Slope (\$41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)			
S26AN53	Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	26 23-Aug-10 A	17-Sep-10 A	□ Cut Slope (\$41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)			
S26AN53	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)		100%	26 28-Dec-10 A	27-Jan-11 A	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation:: IJKL)			
S26AN53	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	20 20-Sep-10 A	27-Nov-10 A	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)			
S26AN53	6 Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)		100%	19 30-May-11 A	22-Jun-11 A	□ Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)			
S26AN53	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12 26-Oct-11 A	08-Nov-11 A	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scatfolding)			
S26AN53	Cut Slope (S41-sn) - Stage 4 (Soil Nail Installation : ABCD)		100%	12 03-Dec-12 A	14-Jan-13 A	Cut Slope (\$4:1-sn) - Stage 4 (\$0il Nai			
S26AN54	0 Slope 7NW-B/C 349		100%	75 02-Oct-10 A	25-Nov-10 A	Slope 7NW-B/C 349			
S26AN54	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.		100%	15 02-Oct-10 A	19-Oct-10 A	☐ Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.			
S26AN54	2 Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD) 270nos.		100%	72 20-Oct-10 A	25-Nov-10 A	Erect Scaffolding & Soil Nail Installation (7NW+B/C 349) - Stage 2 (ABCD) 270nos.			
S26AN55	Slope 7NW-A/C35-sn		100%	200 01-Sep-10 A	20-Nov-10 A	Slopė 7NW-A/C35-sn			
S26AN56	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.		100%	10 01-Sep-10 A	11-Sep-10 A	D Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.			
S26AN57	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 2 (KLMN) 285nos.		100%	40 13-Sep-10 A	19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35+sn) - Stage 2 (KLMN) 285nos			
S26AN58	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 3 (GHIJ) 370nos.		100%	57 30-Sep-10 A	19-Oct-10 A	☐ Erect Scaffolding & Soil Nail Installation (7NW-A/C35+sh) + Stage 3 (GHIJ) 370hos.			
S26AN59	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.		100%	62 20-Oct-10 A	19-Nov-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.			
S26AN65	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 204nos.		100%	31 01-Nov-10 A	20-Nov-10 A	☐ Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 204nos.			
S26AN66	Slope 7NW-A/CR39		100%	80 22-Nov-10 A	28-Mar-11 A	Slope 7NW-A/CR39			
S26AN67	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.		100%	10 22-Nov-10 A	15-Dec-10 A	□ Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.			
S26AN68	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGHI) 162nos.		100%	40 16-Dec-10 A	25-Feb-11 A	Erect Scaffolding & Sdil Nail Installation (7NW+A/CR39) - Stage 2 (DEFGHI) 162nds.			
S26AN69	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109nos.		100%	30 22-Feb-11 A	28-Mar-11 A	Erect Scaffolding & Sdil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109nos.			
S26AN93	Erect Scaffolding & Soil Nail Installation (Area 6-1)		100%	75 20-Feb-13 A	25-Nov-13 A	Erect Scaffolding			
Constru	ction of Retaining Wall								
Retainir	ng Wall W65C (w/SP)								
S26AN1	00 Sheet Pile/Excavate & Construct W65C (w/SP)		100%	150 27-Jun-11 A	25-Jul-11 A	Sheet Pile/Excavate & Construct W65C (w/SP)			
	01 Sheet Pile and Excavation		100%	24 27-Jun-11 A	25-Jul-11 A	Sheet Pile and Excavation			
	02 Construction of Structure W65C		100%	72 27-Jun-11 A	25-Jul-11 A	☐ Construction of Structure W65C			
S26AN1	03 Backfilling		100%	24 27-Jun-11 A	25-Jul-11 A	□ Backfilling			
	ng Wall W68								
S26AN1	20 Sheet Pile/Excavate & Construct W68 (w/SP)		100%	99 15-Nov-10 A	16-Jul-12 A	Sheet Pile/Excavate & Construct W68 (w/\$P)			
S26AN1	21 Sheet Pile and Excavation		100%	19 15-Nov-10 A	04-Dec-10 A	☐ Sheet Pile and Excavation			

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Activity ID	Activity Name	Total Float	Activity %	Original Start	Finish	2010 2011 2012 2013 2014 01 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2		
		Float	Complete	Duration		Q1 Q2 Q3 Q4 Q1 Q2 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2		
	Construction of Structure W68		100%	75 26-Aug-11 A		Construction of Structure W68		
S26AN123			100%	54 01-Jun-12 A	16-Jul-12 A	Backfilling:		
	All W69 on Mini-Piles (AD 3)							
	Prepare Piling Platform for W69		100%	24 21-Sep-10 A		☐ Prepare Piling Platform for W69		
S26AN144	Pre-drilling for W69		100%	24 10-Sep-10 A				
S26AN146	Pipe Pile for W69		100%	77 20-Oct-10 A		Pipe; Pile;for W69;		
S26AN147	Pipe Pile for W69 - Stage 1 (south)		100%	38 20-Oct-10 A	19-Nov-10 A	□ Pipe Pile for W69 - Stage 1 (south):		
S26AN148	Pipe Pile for W69 - Stage 2 (north)		100%	26 20-Nov-10 A	19-Dec-10 A	□ Pipe Pile for W69 - Stage 2 (north)		
S26AN149	Excavate and Tension Piles W69		100%	110 26-Mar-11 A	11-Aug-11 A	Excavate and Tension Piles W69		
S26AN150	Excavation and Installation of Tension Piles - Stage 1 (south)		100%	55 26-Mar-11 A	04-Jun-11 A	Excavation and Installation of Tension Piles - Stage 1 (south)		
S26AN151	Excavation and Installation of Tension Piles - Stage 2 (north)		100%	55 13-Jun-11 A	16-Aug-11 A	Excavation and Installation of Tension Piles - Stage 2 (north)		
S26AN152	Retaining Wall & Drainage W69		100%	120 26-Aug-11 A	19-Jan-12 A	Retaining Wall & Drainage; W69		
S26AN153	Construction of Structure W69		100%	75 26-Aug-11 A	24-Nov-11 A	Construction of Structure W69		
S26AN154	Drainage		100%	40 06-Feb-12 A	15-Mar-13 A	Drainage Drainage		
S26AN155	Backfilling		100%	75 01-Jun-12 A	16-Jul-12 A	□ Backfilling		
Retaining W	all W70							
	Sheet Pile/Excavate & Construct W70 (w/SP)		100%	165 03-Dec-10 A	15-Mar-13 A	Sheet Pile/Excavate & Construct		
	Sheet Pile and Excavation		100%	18 03-Dec-10 A	14-Dec-10 A	☐ Sheet Pile and Excavation		
S26AN172	Construction of Structure W70 (w/SP)		100%	75 18-Jul-11 A	15-Oct-11 A	Gonstruction of Structure W70 (w/SP)		
	Drainage & Backfilling		100%	54 18-Feb-13 A	28-Jun-13 A	Drainage & Backfilling		
	Backfilling behind W68 to W70 and drainage works		100%	60 18-Mar-13 A		Backfilling beh		
	Erect Scaffolding & Soil Nail Installation		100%	35 04-Oct-13 A		Erject Scaffold		
	/all W72A(w/SP)							
	Sheet Pile/Excavate & Construct W72A (w/SP)		100%	92 30-Oct-10 A	21-Nov-11 A	\$heet Pile/Excavate & Construct W72A (w/\$P)		
	Sheet Pile and Excavation		100%		31-Jan-11 A	Sheet Pile and Excavation		
<u> </u>	Construction of Structure W72A (w/SP)		100%	46 03-Jan-11 A		Construction of Structure W72A (w/SP)		
	Draiage & Backfilling		100%	68 01-Jun-11 A		Draiage & Backfilling		
	onstruction Works, Roadworks & Drainage		13070	30 01 30H 11 A	2			
S26AN430	Slip Road R (From W72A to W73) Stage 1 (incl. VO 36: Slip Road R & Drainage detail.)		100%	15 30-Jan-12 A	25-Jul-12 A	Slip Road R (From W72A to W73) Stage 1 (incl.		
S26AN431	Slip Road R (From W70 to B18A) Stage 1.1 formation		100%	15 26-May-12 A		□ Slip Road R (From W70 to B18A) Stage 1.1 formati		
S26AN432	Slip Road R (From W70 to B18A) Stage 1.1 Ionnation Slip Road R (From W70 to B18A) Stage 1.1 Drainage & utilities		100%		03-Jul-12 A	☐ Slip Road R (From W70 to B18A) Stage 1.1 Drain		
S26AN433	Slip Road R (From W70 to B18A) Stage 1.1 pavement & roadworks		100%	15 04-Jul-12 A	26-Jul-12 A	☐ Slip Road R (From W70 to B18A) Stage 1.1 pav		
S26AN435	Slip Road R (From W70 to B18A) Stage 2		100%	93 18-May-12 A		Slip Road R (From		
S26AN435 S26AN436	Slip Road R (From W70 to B18A) Stage 2 Slip Road R (From W70 to B18A) Stage 2, formation (Remaining)			30 18-May-12 A		Spin Plant Division William		
020AN407	, , , , , , , , , , , , , , , , , , , ,		100%	,				
S26AN437	Slip Road R (From W70 to B18A) Stage 2, Drainage & utilities (Remaining)		100%		14-Sep-13 A	Slip Road R (From		
S26AN438	Slip Road R (From W70 to B18A) Stage 2, pavement & roadworks (Remaining)	10	100%	50 14-Jul-12 A	14-Sep-13 A	Slip Road R (From		
S26AN447	Construction Slip Road J (Under Bridge 15A)	-13		45 27-Aug-13 A		Constru		
S26AN448	Construction Slip Road Q (At W65C)	-13		45 27-Dec-13 A		Constru		
S26AN451	Road and Drainage Works (CH 3720 - 4550)		100%	168 24-Jun-13 A		Road and D		
S26AN452	Removal of existing central barrier and forming temporary road (CH3720-4100)		100%	12 24-Jun-13 A	20-Jul-13 A	□ Removal offexisting cer		
S26AN4525	TTA - Stage 4B-2		100%	0	21-Jul-13 A	◇ TTA - Stage 4B-2		
S26AN453	Road and Drainage Works for Slow and Mid Lane (CH3720 - 3850)	-13		20 08-Jul-13 A	07-Feb-14	Road;an		
S26AN454	Road Surface Works for Slow and Mid Lane (CH3720 - 3850)	-6	0070	10 26-Oct-13 A	12-Feb-14	Road St		
S26AN455	Removal of existing central barrier (CH4100-4550)		100%	8 26-Jul-13 A	09-Aug-13 A	☐ Removal of existing of		
S26AN456	Road Works for Fast and Mid Lane (CH3850 - CH4550)		100%	20 10-Aug-13 A	25-Nov-13 A	Road Workst		
Road Re-Co S26AN430 S26AN431 S26AN432 S26AN433 S26AN435 S26AN436 S26AN437 S26AN438 S26AN447 S26AN448 S26AN451 S26AN452 S26AN452 S26AN453 S26AN453 S26AN454 S26AN455 S26AN456 S26AN457 S26AN458	Road Surface Works for Fast and Mid Lane (CH3850 - 4550)		100%	10 27-Aug-13 A	25-Nov-13 A	Road Surface		
S26AN458	Road Works for Fast Lane (CH3720 - 3850)		100%	20 26-Oct-13 A	25-Nov-13 A	□ Road Works f		
S26AN459	Road Surface Works for Fast Lane (CH3720 - 3850)		100%	10 26-Oct-13 A	25-Nov-13 A	□ Road Surface		

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Activity ID	Activity Name	Total Float	,	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q3 Q4 Q3 Q4			
						12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2			
S26AN460	Road and Drainage Works for Slow Lane (CH4250 - 4550)	-13		35 05-Oct-13 A	14-Feb-14	Road and			
S26AN461	Road Surface Works for Slow Lane (CH4250 - 4550)	-8	•••	10 26-Oct-13 A	19-Feb-14	Road Su			
S26AN462	Road Construction and Remaining Works (along CH 3720 - 4550)		100%	35 05-Oct-13 A	20-Dec-13 A	Road Constru			
S26AN470	Road and Drainage Works (CH 4550 - 4720)	-15		88 26-Oct-13 A	28-Feb-14	Road ar			
S26AN471	Road and Drainage Works for Fast Lane (CH 4550 - 4720)		100%	35 26-Oct-13 A	25-Nov-13 A	□ Road and Drai			
S26AN472	Road Surface Works for Fast Lane (CH4550 - 4720)		100%	8 26-Oct-13 A	25-Nov-13 A	□ Road Surface \			
S26AN482	Road Construction and Remaining Works (along CH 4550 - 4720)	-15	44%	45 05-Oct-13 A	28-Feb-14	: Road C			
Traffic Con	atrol & Survelance System								
S26AN480	TCSS (G25, G26, G27, G28 & SEC Poles SC58/S58) (incl. VO73 Revised Sign Gantry Details)	-13	70%	50 15-Jun-13 A	25-Feb-14	TCSS (C			
Modification	on of Existing Bridge								
S26AN200	Modification of Existing Bridge 15	-7	83.88%	104 24-Jun-13 A	18-Feb-14	Modificat Modificat			
S26AN230	Demolish of Central Barrier		100%	12 24-Jun-13 A	04-Oct-13 A	Demolish of Centra			
S26AN240	Raising of Concrete Edge for N/B (CH3800 -3900)		100%	15 09-Sep-13 A	25-Nov-13 A	Raising of Con			
S26AN250	Removal existing M.J and install new M.J for Slow and Mid Lane (S/B)	-7	85%	8 02-Aug-13 A	28-Jan-14	Removal e			
S26AN260	Raising of Concrete Edge for S/B (CH3800 - 4020) and N/B (CH3900 - 4020)	-7	50%	25 09-Sep-13 A	14-Feb-14	Rajsing o			
S26AN270	Removal existing M.J and install new M.J for Fast Lane (S/B and N/B)		100%	10 04-Oct-13 A	25-Nov-13 A	. □ Removal existir			
S26AN280	Removal existing M.J and install new M.J for Slow and Mid Lane (N/B)	-7	85%	20 09-Sep-13 A	18-Feb-14	Removal			
Landscapi	ng								
S26AN610	Landscaping Works	5	85%	29 15-Mar-13 A	04-Feb-14	Landscap			
South Boo	und								
Preliminar	ies								
S26AS000	Site Clearance/Access Rd		100%	164 26-Feb-10 A	14-Sep-10 A	Site Clearance/Access Rd			
S26AS010	Site Clearance		100%	75 26-Feb-10 A	18-Jun-10 A	Şite Çlearance			
S26AS020	Access Road		100%	75 31-May-10 A	14-Sep-10 A	Access Road			
Slopework	IS			I					
S26AS510	Slope Reinstatement Works (Bridge 15A)	-50	68.42%	95 08-Aug-13 A	05-Mar-14	Slope R			
S26AS515	Backfilling Slope	-50	85%	30 08-Aug-13 A	04-Feb-14	Backfilling			
S26AS520	Soil Nail Installation	-50	70%	50 27-Aug-13 A	21-Feb-14	Soil Nail			
S26AS540	Slope Surface Treatment	-50	30%	15 28-Oct-13 A	05-Mar-14	Slope S			
Landscapi	na								
S26AS600	Landscaping	-50	0%	30 06-Mar-14	10-Apr-14	Land			
Road Re-C	construction Works, Roadworks, Drainage & Utilities				· ·				
S26AS400	Roadworks, Drainages & Utilities (CH 4020 - 4500)	-18	93.11%	399 14-Feb-12 A	03-Mar-14	Roadwo			
S26AS410	Roadworks, Drainages & Utilities Stage 1 (ch4020-ch4200 & Tai Po Tai Wo Road)		100%	110 14-Feb-12 A		Roadworks, Drainages & Utilities Stage			
S26AS411	Removal of existing paving		100%	25 14-Feb-12 A		Removal of existing paving			
S26AS412	Utilities		100%	75 14-Feb-12 A		Utilities Utilities			
S26AS416	Drainages		100%	75 27-Jun-12 A		☐ Drainages			
S26AS418	Road Surface & Roadmark - Stage 1		100%	5 14-Jul-12 A	11-Dec-12 A	Road Surface & Roadmark - Stage 1			
S26AS420	Roadworks, Drainages & Utilities Stage 2(ch4200-ch4500)		100%	737 14-Feb-12 A		Roadworks, Drainages & Utilities Stage 2(ch			
S26AS422	Removal of existing paving		100%	50 14-Feb-12 A		Removal of existing paving			
S26AS424	Utilities Utilities		100%	75 14-Feb-12 A					
S26AS426	Drainages		100%	75 27-Jun-12 A	•	□ Drainages			
S26AS428	Road Surface & Roadmark - Stage 2		100%	8 10-Sep-12 A		□ Road Şurface & Roadmark - Stage 2			
S26AS430	Roadworks Stage 3 (ch4020-ch4200 & Tai Po Tai Wo Road)		100%	35 28-Jan-13 A	-	Roadworks Stage 3 (ch40			
S26AS440	Road Construction and Remaining Works (along CH4020 - 4500)		100%	75 28-Jan-13 A		Road Construction and			
S27S4090	HyD/Lighting (Existing Street Light removal by HyD Lightings		100%	52 26-May-11 A		HyD/Lighting (Existing Street Light removal by HyD Lightings			
S27S4100	Slip Road K (utilities & drainage), Stage 1 (excl. WSD connection)		100%	75 14-Feb-12 A		Slip Road K (utilities & drainage), Stage 1 (excl. WSD co			
S27S4100 S27S4102	Slip Road K (utilities & drainage roadwork), Stage 2 (incl. WSD connection)				·				
32/34102	Silp Frodu IN (utilities α uralitage Foatiwork), Stage 2 (IIIG. WSD COTHECTION)		100%	50 18-May-12 A	10-001-12 A	Slip Road K (utilities & drainage roadwork),			

Construction of Retaining Wall Retaining Wall W65A S27S1000 Sheet Pile/Excavate & Construct W65A 100% 83 28-Dec-10 A 08-Apr-11 A Sheet: Pile/Excavate & Construct W65A

o	1
J	1

ctivity ID	Activity Name To	tal Activity	% Origin	al Start	Finish	2010 2011 2012 2013 2014
, <u>-</u>		oat Comple				1 Q2 Q3 Q4 Q1 Q4 Q1 Q4
S27S1001	Sheet Pile & Excavation	100	1% 3	2 28-Dec-10 A	07-Feb-11 A	Sheet Pile & Excavation
S27S1002	Construction of Structure W65A	100	1% 5	60 11-Apr-11 A	13-Aug-11 A	Construction of Structure W65A
S27S1012	Backfilling behind W65A and drainage works	-41 85	5% 4	0 15-Jul-13 A	11-Feb-14	Backfilling
Retaining \	Wall W65B, (CSD 1)	,		<u> </u>		
S27S1040	WSD 1220 dia Diversion	100)% 3	6 26-Jul-11 A	17-Dec-12 A	W\$D 1220 dia Diversion
S27S1041	HyD Lighting relocation	100)% 3	6 26-May-11 A	18-Jun-11 A	☐ HyD Lighting relocation
S27S1042	Excavate to cut-off level	100)% 4	2 15-Oct-10 A	03-Dec-10 A	Excavate to cut-off level:
S27S1043	COD: CLP overhead cable	100)% 7	75 15-Jan-11 A	11-Apr-11 A	COD:CLP overhead cable
S27S1044	Relocaltion of Existing Electric Poles, CLP	100)% 2	15-Feb-11 A	11-Apr-11 A	Relocation of Existing Electric Poles, CLP
S27S1060	Capping/Walling for W65B	100	1% 4	2 06-Apr-11 A	20-Aug-11 A	Capping/Walling for W65B
S27S1070	Backfilling for W65A & B	100	1% 7	75 10-Sep-11 A	21-Jul-12 A	Backfilling for W65A&B
S27S1090	COD: DAN 273- revised thrust box detail and additional works for DN1220	100	1% 3	17-Dec-12 A	24-Jan-13 A	COD: DAN;273+ revised thrust box de
S27S1110	Backfilling behind W65B and drainage works	-41 85	5% 4	0 15-Jul-13 A	11-Feb-14	Backfilling
Retaining \	Wall W66/67 (CSD 2) & W71					
S27S1100	W66 & W67 (CSD 2)	100	1%	5 02-Oct-10 A	19-Mar-11 A	<u>⊨</u> ₩66 & ₩67 (C\$D 2)
S27S1101	Base Slab (W66)	100)% 3	02-Oct-10 A	01-Nov-10 A	Base Slab (W66):
S27S1102	Wall Stem (W66)	100)% 3	02-Nov-10 A	26-Dec-10 A	Wall Stem (W66)
S27S1103	Base Slab (W67)	100)% 3	08-Nov-10 A	25-Dec-10 A	Base Slab (W67)
S27S1113	Wall Stem (W67)	100)% 2	28-Feb-11 A	19-Mar-11 A	□ Wáll Stệm (W67)
S27S1115	Backfill for W66&67	100)% 6	27-Jun-11 A	15-Oct-11 A	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
S27S1200	Retaining Wall W71 (Bay1 - Bay5)	100)% 11	0 02-Jun-10 A	12-Oct-10 A	Retaining Wall W71 (Bay1 - Bay5)
S27S1210	Retaining Wall W71 : Base Slab	100		55 02-Jun-10 A	06-Aug-10 A	Retaining Wall W71: Base Slab
S27S1220	Retaining Wall W71: Wall Stem	100	1% 5	55 07-Aug-10 A	12-Oct-10 A	Retaihing Wall W71 : Wall Stem
S27S1230	Backfill for W71	100	1% 5	27-Jun-11 A	24-Aug-11 A	Backfill for W71
Slopework						
S27S0000	Site Clearance/Access Rd	100	13	27-Mar-10 A	03-Sep-10 A	Site Clearance/Access Rd
S27S0001	Site Clearance (Stage 1)	100		0 27-Mar-10 A	·	Site Clearance (Stage 1)
S27S0002	Site Clearance (Stage 2)	100	1% 4	0 19-Jun-10 A	05-Aug-10 A	Sitel Clearance (Stage 2)
S27S0004	Access Rd (Stage 1)	100	1% 4	0 30-Apr-10 A	18-Jun-10 A	Access Rd (Stage 1)
S27S0005	Access Rd (Stage 2)	100		0 20-Jul-10 A	03-Sep-10 A	Access Rd (Stage 2)
S27S5000	Slopeworks Cut(S34)	100		6 28-Dec-10 A		Slopeworks Cut(S34)
S27S5100	Slopeworks Cut(S42), Fill(S43)	100		75 28-Dec-10 A		Slopeworks Cut(\$42), Fill(\$43)
S27S5101	Slopeworks Cut(S42)	100		28-Dec-10 A		Slopeworks Cút(S42)
S27S5102	Slopeworks Fill(S43)	100		60 26-Oct-11 A	06-Jan-12 A	Slopeworks Fill(S43)
S27S5110	Slopeworks Cut(S37)	100		0 02-Feb-11 A) Slopeworks Cut(\$3/7)
S27S5111	Slopeworks Cut(S37) - Stage 1, +40mPD	100		2 18-Nov-10 A		Slopewarks Cut(\$37) - Stage 1,+40mPD
S27S5112	Slopeworks Cut(S37) - Stage 2, +33.8mPD	100		30-Jan-12 A	19-Apr-12 A	Slapeworks: Cut(S37) + Stage 2, +33.8mPD
S27S5120	Slopeworks Fill(S38)(Including removal of existing retaining wall)	100		6 13-Apr-12 A	21-Aug-12 A	Slopeworks Fill(S38)(Including removal of existing
S27S5121	Slopeworks Fill(S38): Removal of existing retaining wall	100		13-Apr-12 A		Şlopeworks Fill(\$38) : Removal of existing retaining wal
S27S5122	Slopeworks Fill(S38) - Stage 1, +32mPD	100		24 26-May-12 A		□ Slopeworks Fill(\$38) - Stage 1, +32mPD
S27S5123	Slopeworks Fill(S38) - Stage 2, +34mPD	100		11-Jun-12 A	11-Jul-12 A	□ Slopeworks Fill(\$38);- Stage 2, +34mPD
S27S5124	Slopeworks Fill(S38) - Stage 3, formation level	100		24 11-Jul-12 A	21-Aug-12 A	Slopeworks Fill(S38) - Stage 3, formation level
S27S5130	Slopeworks Cut(S39)	100		8 19-Jun-10 A	23-Feb-11 A	Slopeworks Cut(S39)
S27S5131	Slopeworks Cut(S39) - Stage 1, +37mPD	100		6 19-Jun-10 A	12-Aug-10 A	Slopeworks Cut(S39) - Stage 1, +37mPD
S27S5132	Slopeworks Cut(S39) - Stage 2, +35mPD	100		6 13-Aug-10 A		Slopeworks Cut(S39) - Stage 2, +35mPD
S27S5133	Slopeworks Cut(S39) - Stage 3, formation level	100		6 28-Dec-10 A		Slopeworks Cut(S39) - Stage 3, formation level
S27S5150		-31 97	7% 4	06-Sep-13 A	28-Jan-14	Slope Reins
Landscapi	ng					

100%

100%

100%

100%

63 09-Feb-11 A 26-Mar-11 A

36 27-Jun-11 A 08-Aug-11 A

54 23-May-11 A 23-Jul-11 A

16-May-11 A

46 07-Apr-11 A

Piling - P4

Cap & Backfill - P4

Pier - P4

Piling - P5

S26AS548

S26AS550

S26AS560

S26AS570

P5

Piling - P4

Pier - P4

Piling - P5

Cap & Backfill - P4

March Marc	Antin	ty ID	Activity Name	Tota	Activity of	Origina	Start	Finish	2010 2011 2012 2013 2014
Section Sect	ACCIV	ty ID	Activity Indilic			Duration		LINSII	21 Q2 Q3 Q4 Q1 Q2 Q3
Package Control 1000 1		S26AS580	Cap & Backfill - P5		100%	36	04-Aug-11 A	16-Sep-11 A	
Compact Page 1 Page 1 Page 1 Page 1 Compact Compact Page 1 Page 1 Compact	Ш	S26AS590	Pier - P5		100%	36	18-Nov-11 A	29-Feb-12 A	Pier:- P5
March Marc	Ш	P6							
Secondary Power	Ш	S26AS222	Piling-P6 Stage 1 (6 no.)		100%	20	26-Nov-11 A	19-Dec-11 A	□ Piling-P6 Stage 1 (6 no.)
March Marc	Ш	S26AS226	Piling-P6 Stage 2 (Remain, 9 no.)		100%	30	18-May-12 A	26-May-12 A	D. Piling-P6 Stage 2 (Remain, 9 no.)
Note	Ш	S26AS232	Cap & Backfill - P6		100%	36	05-Oct-12 A	09-Nov-12 A	☐ Cap & Backfill + P6
Season	Ш	S26AS242	Pier-P6		100%	12	20-Nov-12 A	13-Dec-12 A	□ Pier-P6
1995 20 1995	Ш	North Abutr	ment					-1	
Deciding and Finishing Deciding and Finishing Deciding and Finishing Deciding Deciding and Finishing Deciding	Ш	S26AS224	Piling-North Abutment, Stage 1 (11no.)		100%	36	07-Oct-11 A	17-Nov-11 A	Pilling-North Abutment, Stage 1 (1 1 no.)
Exception 100% 20 John Park 20 John Par	Ш	S26AS228	Piling-North Abutment, Stage 2 (Remain, 16 no.)		100%	60	11-May-12 A	16-Jul-12 A	Pilling-North Abutment, Stage 2 (Remain, 16 no.)
Backbox Decking and First File File	Ш	S26AS234	Excavation & Cap-North Abutment		100%	30	08-Aug-12 A	18-Dec-12 A	Excavation & Cap:North Abutment
Declaration	Ш	S26AS236	Abutment		100%	20	24-Dec-12 A	18-Jan-13 A	□ Abutment
\$59,000.07 Quantification of All Advanced Lincil VO 441 Revised Diversing 100% 514 (84-00-11 A 82-464-11 A 86-660-11 A 85-660-11	Ш	S26AS244	Backfilling		100%	50	22-Jan-13 A	15-May-13 A	Backfilling
Addressive Advancement of Grégo Less - Part o a Gual Maument Dispo Class - Part o a Gual Maument Dis	П	Decking ar	nd Finishing						
		S26AS250	Bridge Deck (7 spans) (Bearing, Drainage & MJ included) (incl. VO 44: Revised Drainage Arrangement for Bridge 15A Deck)		100%	314	26-Nov-11 A	28-Mar-13 A	Bridge Deck (7 spans) (Bearing, D
\$20,000.000 \$7	Ш	S26AS251	Bridge Deck - Pier 1 to South Abutment		100%	75	26-Nov-11 A	26-May-12 A	Bridge Deck - Pier 1 to South Abutment
Falsework demanding of lack- Per 4 to Per 2 to Per 2 to Per 2 to Per 3 to Per 3 to Per 3 to Per 4 to Per 5 to	Ш	S26AS252	Bridge Deck - Pier 2 to Pier 1		100%	75	11-May-12 A	29-Aug-12 A	Bridge Dedk - Pier 2 to Pier 1
SeeAsSSSS Protect Piew 4 to Per 3	Ш	S26AS253	Bridge Deck - Pier 3 to Pier 2		100%	75	01-Jun-12 A	06-Nov-12 A	Bridge Deck- Pier 3 to Pier 2
Schiology Class Falsework dramarding of dock - Per 4 to Pier 5 100% 15 25-Feb-13A 30-May 13A 15 15 15 15 15 15 15 1	Ш	S26AS254	Falsework dismantling of deck - Pier 3 to Pier 2		100%	18	03-Dec-12 A	22-Feb-13 A	Falsework dismantling of deck - Pier
S86AS257 Strigge Deck - Pier 5 to Pier 4 100% 75 27-Aug 12A 31-Jan 13A 14 15 15 15 15 15 15 15	Ш	S26AS255	Bridge Deck - Pier 4 to Pier 3		100%	75	11-Aug-12 A	22-Dec-12 A	Bridge Deck - Pier, 4 to Pier 3
S26AS259 Fabowork Identifying of deck - Per 5 to Pier 4 100% 18 11-Mar-13A 30 May 13 A	Ш	S26AS256	Falsework dismantling of deck - Pier 4 to Pier 3		100%	18	25-Feb-13 A	03-May-13 A	Falseworkidismantling of decki-
S28AS299 Palework Erection of deck - Per 6 to Pier 5 100% 15 25 - Dec 12 A 25 - Feb - 13 A	Ш	S26AS257	Bridge Deck - Pier 5 to Pier 4		100%	75	27-Aug-12 A	31-Jan-13 A	Bridge Deck - Pier 5 to Pier 4
S28A3280 Bridge Deck - Pier 6 to Pier 5 100% 75 29 Dec 12A 19 Apr 13 A 19 Apr 13 Apr 1	Ш	S26AS258	Falsework dismantling of deck - Pier 5 to Pier 4		100%	18	11-Mar-13 A	30-May-13 A	Falsework dismantling of deck
S28AS281 Falsework demanding of deck - Pier 6 to Pier 5 100% 18 0.6May-13A 14-Jun-13A 14-Jun-13A 1.5 0.6May-13A 14-Jun-13A 1.5 0.6May-13A 1.5 0.6 0.5	Ш	S26AS259	Falsework Erection of deck - Pier 6 to Pier 5		100%	18	03-Dec-12 A	23-Feb-13 A	Falsework Erection of deck - Pier 6 to
S28AS282 Falsework Erection of duck - North Abutment to Pier 6 100% 18 31-Dec 12A 04-Feb-13A 25-Mar-13A 25-M		S26AS260	Bridge Deck - Pier 6 to Pier 5		100%	75	29-Dec-12 A	19-Apr-13 A	Bridge Deck - Pier 6 to Pier 5
S28AS263 Bridge Deck - North Abutment to Pier 6 100% 50 14-Jan-13A 28-Mar-13A 28-M		S26AS261	Falsework dismantling of deck - Pier 6 to Pier 5		100%	18	06-May-13 A	14-Jun-13 A	☐ Falsework dismantling of dec
S26AS264 Falsework dismantling off deck - North Abutment to Pier 6 100% 18 13-May-13 A 14-Jun-13 A 1		S26AS262	Falsework Erection of deck - North Abutment to Pier 6		100%	18	31-Dec-12 A	04-Feb-13 A	Falsework Erection of deck - North Abi
S26AS269 Parapet (icl., precast concrete skin) 100% 50 06 - 0c-12A 08-Jun-13A 12-Jun-13A 12-J	Ш	S26AS263	Bridge Deck - North Abutment to Pier 6		100%	50	14-Jan-13 A	28-Mar-13 A	
S26AS270 Noise Barrier for Bridge 15A 100% 25 27-Mar-13 A 12-Jun-13 A 12-J	Ш		-		100%				
S26AS272 Surfacing	Ш		Parapet (icl, precast concrete skin)		100%	50	06-Dec-12 A	08-Jun-13 A	Parapet (icl, precast concrete
S26AS275 Lighting	Ш		Noise Barrier for Bridge 15A		100%				
S26AS280 Handover Inspection of Bridge 15A 100% 3 20-Jun-13 A 22-Jun-13 A 1 Handover Inspection of Bridge 15A 100%	Ш				100%		•		
Ready For Pre-Handover Retaining Wall of Section 3 HRW0030 Ready For Pre-Handover Retaining Wall W65c, W68, W69, W70, W72A 3 0% 7 27-Jan-14 06-Feb-14 06-Feb-10 06-Feb-10 <td>Ш</td> <td></td> <td></td> <td></td> <td>100%</td> <td></td> <td>-</td> <td></td> <td>Lighting:</td>	Ш				100%		-		Lighting:
HRW0030 Ready For Pre-Handover Retaining Wall W65C, W68, W69, W70, W72A 3 0% 7 27-Jan-14 06-Feb-14 HRW0031 Ready For Pre-Handover Retaining Wall W65A, W65B, W66, W67, W71 3 0% 7 27-Jan-14 06-Feb-14 Section 4 Site Area SA28 PHSA2820 Possession of SA28 (Day0) 100% 0 26-Feb-10 A	Ш				100%	3	20-Jun-13 A	22-Jun-13 A	I Handover Inspection of Bridg
Ready For Pre-Handover Retaining Wall W65A, W65B, W66, W67, W71 3 0% 7 27-Jan-14 06-Feb-14 1 Feady For Fe Section 4	Ш								
Section 4 Site Area SA28 PHSA2820 Possession of SA28 (Day0) 100% 0 26-Feb-10 A 26-Feb-10 A Possession of SA28 (Day0) SA280000 Site Area SA28 Works Period 62 92.64% 1216 26-Feb-10 A 26-Feb-10 A 26-Apr-14 SA280010 Site Area SA28 Works Completion 62 0% 0 26-Apr-14 26-Apr-14 SA280030 Temporary Traffic Arrangement (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 26-Feb-10 A 26-Apr-14 SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 26-Apr-14	Ш			3			27-Jan-14		
Site Area SA28 PHSA2820 Possession of SA28 (Day0) 100% 0 26-Feb-10 A ◆ Possession of SA28 (Day0) SA280000 Site Area SA28 Works Period 62 92.64% 1216 26-Feb-10 A 26-Apr-14 SA280010 Site Area SA28 Works Completion 62 0% 0 26-Apr-14 SA280030 Temporary Traffic Arrangement (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14	Ш	HRW0031	Ready For Pre-Handover Retaining Wall W65A, W65B, W66, W67, W71	3	0%	7	27-Jan-14	06-Feb-14	D Ready For F
PHSA2820 Possession of SA28 (Day0) 100% 0 26-Feb-10 A ◆ Possession of SA28 (Day0) SA280000 Site Area SA28 Works Period 62 92.64% 1216 26-Feb-10 A 26-Apr-14 SA280010 Site Area SA28 Works Completion 62 0% 0 26-Apr-14 SA280030 Temporary Traffic Arrangement (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 **North Bound**		Section 4							
SA280000 Site Area SA28 Works Period 62 92.64% 1216 26-Feb-10 A 26-Apr-14 SA280010 Site Area SA28 Works Completion 62 0% 0 26-Apr-14 SA280030 Temporary Traffic Arrangement (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 North Bound		Site Area S	SA28						
SA280010 Site Area SA28 Works Completion SA280030 Temporary Traffic Arrangement (Detail shall refer to supplementary information) SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) North Bound Site Area SA28 Works Completion 62 0% 0 92.73% 983 26-Feb-10 A 26-Apr-14 Femporary Traffic Arrangement (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 Overall Villities Diversion (Detail shall refer to supplementary information) North Bound		PHSA2820	Possession of SA28 (Day0)		100%	C	26-Feb-10 A		♦ Possession of SA28 (Day0)
SA280030 Temporary Traffic Arrangement (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 North Bound		SA280000	Site Area SA28 Works Period	62	92.64%	1216	26-Feb-10 A	26-Apr-14	Site Ar
SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 North Bound		SA280010	Site Area SA28 Works Completion	62	2 0%	C		26-Apr-14	♦ Site Ar
SA280040 Overall Utilities Diversion (Detail shall refer to supplementary information) 50 92.73% 983 26-Feb-10 A 26-Apr-14 North Bound		SA280030	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	50	92.73%	983	26-Feb-10 A	26-Apr-14	
		SA280040	Overall Utilities Diversion (Detail shall refer to supplementary information)	50	92.73%	983	26-Feb-10 A	26-Apr-14	
Preliminaries Pr		North Bou	nd						
		Preliminario	es						
									•

	34						
Activity ID	Activity Name	Total Float		Original Duration		Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
\$28N0000	Site Clearance/Access Rd		100%	239	26-Feb-10 A	19-Feh-11 Δ	12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2
S28N0010	Site Clearance (ch 4830-5250)		100%		26-Feb-10 A		Site Clearance (ch 4830-5250)
S28N0020	Site Clearance (ch 5250-5700)		100%			23-Jul-10 A	Site Clearance (ch 5250-5700)
S28N0110	Access Rd (ch 4830-5250)		100%		30-Jun-10 A		Access Rd (ch 4830-5250)
S28N0120	Access Rd (ch 5250-5700)		100%		09-Sep-10 A		Access; Rd (ch 5250-5700);
Slopework			10070	70	00 OCP 1071	10 1 00 1171	
S28N5000	Slopeworks Fill S44		100%	36	28-Dec-11 A	11-Feb-12 A	Slopeworks Fill S44
S28N5010	Slopeworks Fill S45	-21			27-Jan-14	17-Mar-14	Slopework
	on of Retaining Wall		0 70		27 0011 14	17 Mai 14	
	Wall W72B (CSD 1)						
	Prepare Piling Platform for W72B		100%	13	14-Sep-10 A	29-Sen-10 A	☐ Prepare Piling Platform for W72B
	Pre-drilling for W72B		100%		14-Sep-10 A		□ Pre-drilling for W72B
S28N2040	-		100%		01-Mar-11 A	'	□ Piling works
S28N2050	-		100%		26-May-11 A		Capping/Walling for W72B
	Pile Cap for W72B		100%		26-May-11 A		Dile Cap for W72B
S28N2051	·		100%		21-Jun-11 A		□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
	Backfilling		100%		26-Sep-11 A	·	Backfilling:
	Wall W73 (CSD 1)		100 /6	00	20-3ер-11 А	13-Dec-11 A	Dacksining.
	Excavation & ELS		100%	24	14-Sep-10 A	13-Oct-10 A	☐ Exoavation & ELS
	W73 wall Structure (7 bays)		100%		01-Mar-11 A		W73 wall Structure (7 bays)
	Base Slab W73		100%		01-Mar-11 A	·	□ Base Slab W73
S28N2073	Wall Stem & W73		100%		25-Mar-11 A		□ Wall Stem & W73
S28N2080			100%			24-Dec-11 A	Baickfill
	Wall for Accom. Underpass Extn. (CSD 1)		100 /6	73	09-301-11 A	24-Dec-11 A	, Datrilli
S28N230	Pre-drilling for Accommodation Underpass Extension		100%	30	30-Jun-10 A	04-Aug-10 A	☐ Pre-drilling for Accommodation Underpass Extension
S28N240	Prepare Piling Platform for Accom.Underpass Extn		100%			04-Aug-10 A	Prepare Piling Platform for Accom. Underpass Extr
S28N250	Piling works		100%		01-Mar-11 A		□ Piling works
S28N260	Capping/Walling (incl. VO71: Details of typical section for slip road R verge at AUE wall)		100%		26-Mar-11 A		Capping/Walling (incl. VO71: Details of typical section for slip road R verge at AUE)
S28N270	Capping (AUE)		100%		26-Mar-11 A		Capping (AUE)
S28N280	Walling (AUE)		100%		26-May-11 A	•	— Sapping (A⊍E) Walling (AUE)
S28N290	Backfilling		100%		26-Sep-11 A		Backfilling
Retaining \	-		10076	02	20 OCP 11 A	17 BCC 11 A	
S28N2105			100%	75	26-Feb-10 A	05lun-10 A	Liasion with location resident for slip road diversion
S28N2115	Utilities Diversion		100%		07-Jun-10 A		Utilities Diversion
S28N2120	Temporary road and pedestrian diversion		100%		18-Aug-10 A		Temporary road and pedestrian diversion
S28N2125	<u> </u>		100%			19-Nov-10 A	□ Pre-drilling for Piles
S28N2130	Confirmation of Founding Level		100%		26-Mar-11 A		Confirmation of Founding Level
S28N2134	Falsework removal beteew NLK deck P7 -P8		100%		07-Jan-13 A	·	☐ Falsework removal betteew NLK deck P
S28N2135	Piling work for W74 (Stage 1: Bay1 - 3)		100%		21-Feb-13 A		Piling work for W 74 (Stage 1: Ba)
S28N2140	Temporary Work for Excavation (Stage 1: Bay1 - 3)		100%		27-Jun-12 A	·	Temporary Work for Excavation (Stage 1: Bay1 - 3)
S28N2145	Excavation and Tie Back to Formation Level (Stage 1: Bay1 - 3)		100%		18-Jul-12 A	31-Jul-12 A	Excavation and Tie Back to Formation Level (Stage 1)
S28N2150	Pile Head Trimming and bearing plate (Stage 1: Bay1 - 3)		100%		27-May-13 A		□ Pile Head Trimming and beari
S28N2155	Retaining Wall Construction (Stage 1: Bay1 - 3)		100%		-	07-Oct-13 A	Retaining Wall Consti
S28N2156	Base Slab (W74) (Bay 1- 3)		100%		25-May-13 A		Baise Slab W74) (Bay 1- €
S28N2158	Wall Stem (W74) (Bay 1- 3)		100%		-	07-Oct-13 A	Wall Stem (W74) (Ba
S28N2160	Retaining Wall Construction (Stage 2: Bay 4 - 9)	-18				19-Feb-14	Retaining W
S28N2161	Falsework removal bewteen NLK deck P8 - P9	10	100%			20-Jul-13 A	Falsework removal bewteel
	Piling work for W74 (Stage 2: Bay 4 - 9)		100%		24-Jun-13 A		Piling work for W.74
SZOIVZ 10Z	g		10076				Fining WORNO W/F

BN2164 BN2165 BN2167 BN2168 BN2190 SEE Barrie BN2500 BN2510 BN2520 BN2525 BN2526	Temporary Work for Excavation (Stage 2: Bay 4 - 9) Excavation and Tie Back to Formation Level (Stage 2: Bay 4 - 9) Base Slab (W74) (Bay 4 - 9) Wall Stem (W74) (Bay 4 - 9) Backfilling Pr NB43 (AD5) Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9) Noise Barrier Construction Stage 3 remaining (Bay 4 - 7) Wall	Total Float	Activity % Complete 100% 100% 100% 30% 100% 100%	Original Duration Start 18 27-Jun-12 A 19 18-Jul-12 A 25 07-Sep-13 A 30 05-Oct-13 A 25 12-Oct-13 A 127 01-Jun-10 A	31-Jul-12 A	21 (2010 Q2 Q3 4 5 6 7		2013 2014 Q2 Q3 Q4 Q1 Q2 Q3 3 4 4 4 4 4 4 4 4 4 5 5 5 5 5 Color: Excavation (Stage 2: Bay; 4 - 9) Tie Back to Formation Level (Stage Base Slab () Wall Stein ()
8N2165 8N2167 8N2168 8N2190 SEE Barrie 8N2500 8N2510 8N2520 8N2525 8N2526	Excavation and Tie Back to Formation Level (Stage 2: Bay 4 - 9) Base Slab (W74) (Bay 4 - 9) Wall Stem (W74) (Bay 4 - 9) Backfilling Pr NB43 (AD5) Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)	-18	100% 100% 100% 30%	19 18-Jul-12 A 25 07-Sep-13 A 30 05-Oct-13 A 25 12-Oct-13 A 127 01-Jun-10 A	31-Jul-12 A 25-Jan-14 A 25-Jan-14 A			☐ Temporary Worl	ofor Excavation (Stage 2: Bay 4 - 9) Tie Back to Formation Level (Stage Base Slab ()
8N2167 8N2168 8N2190 se Barrie 8N2500 8N2510 8N2520 8N2525 8N2526	Base Slab (W74) (Bay 4 - 9) Wall Stem (W74) (Bay 4 - 9) Backfilling Pr NB43 (AD5) Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)	-18	100% 100% 30%	25 07-Sep-13 A 30 05-Oct-13 A 25 12-Oct-13 A 127 01-Jun-10 A	25-Jan-14 A 25-Jan-14 A			☐ Excavation and	Base Slab (\
BN2168 BN2190 BE Barrie BN2500 BN2510 BN2520 BN2525 BN2526 BN2530	Wall Stem (W74) (Bay 4 - 9) Backfilling Pr NB43 (AD5) Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)	-18	100% 30%	30 05-Oct-13 A 25 12-Oct-13 A 127 01-Jun-10 A	25-Jan-14 A				
8N2190 See Barrie 8N2500 8N2510 8N2520 8N2525 8N2526 8N2530	Backfilling Pr NB43 (AD5) Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)	-18	100%	25 12-Oct-13 A 127 01-Jun-10 A					Wall Stem (
See Barrie BN2500 BN2510 BN2520 BN2525 BN2526 BN2530	Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)	-18	100%	127 01-Jun-10 A	19-Feb-14				
8N2500 8N2510 8N2520 8N2525 8N2526 8N2530	Utilities Diversion Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)					1 1 1 1	- 1 1 1 1		Backfilling
BN2510 BN2520 BN2525 BN2526 BN2530	Temporary Noise Barrier Installation Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)					1 1 1			
BN2520 BN2525 BN2526 BN2530	Noise Barrier Construction Stage 1 (Bay 1 - 3) Noise Barrier Construction Stage 2 (Bay 4 - 9)		100%		10-Feb-11 A			Utilities Diversion	
BN2525 BN2526 BN2530	Noise Barrier Construction Stage 2 (Bay 4 - 9)			46 16-Nov-10 A	26-Dec-10 A			☐: Temporary Noise Barrier Installation	
BN2526 BN2530	- · · · ·		100%	72 03-Feb-12 A	14-Aug-12 A			Noise Barrier (Construction Stage 1 (Bay 1 - 3)
3N2530	Noise Barrier Construction Stage 3 remaining (Bay 4 - 7) Wall		100%	75 09-Jan-13 A	18-Jun-13 A			<u> </u>	Noise Barrier Construction S
			100%	30 28-Oct-13 A	09-Jan-14 A				Noise Barrier
RN2531	Erection of Steel Post & Panel (Bay 1 - 3)		100%	75 29-Dec-12 A	31-Jan-13 A				ection of Steel Post & Panel (Bay 1
	Erection of Steel Post & Panel (Bay 4 - 9)		100%	10 20-Jan-14 A	25-Jan-14 A				■ Erection of S
	nstruction Works, Roadworks, Drainage & Utilities								
			100%	10 27-Apr-11 A	12-Sep-12 A			VO 25: Cons	struction of Cross road Ducts & traff
	Wo Service Road West								
			100%	75 15-Oct-11 A	12-Jun-12 A			CLP & Gasmian Di	version, Tear Drop/Slip Road T(incl.
	· · · · · · · · · · · · · · · · · · ·		1000/	05 04 N 40 A	00.11 40.4			T Dyled	ا با ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا
	· · · · · · · · · · · · · · · · · · ·								landfill gasmain at NB41-stage 1
									DN400 landfill gasmain at NB41-sta
					,			· · · · · · · · · · · · · · · · · · ·	New Joint Box construction for
									Watermain, traffic light, road drains
			100%	24 16-Dec-11 A	21-Apr-12 A			COD: TTA Case 50 Sta	age 1 & 2 (Epron ordered: 16-12-11
N3970	Pavement at Tear Drop Area, Slip Road T & Traffic diversion		100%	30 18-May-12 A	11-Mar-13 A				Pavement at Tear Drop Area, Slip I
N4002	Roadworks, Drainages & Utilities, TWSRW Road from NB41-bay 6 to NB42-bay12 (incl. VO42 & VO43)		100%	150 18-May-12 A	23-Mar-13 A				Roadworks, Drainages & Utilities,
N4004	Drainage, Utilities & Removal of existing paving (incl.TTA & VO 77 Provision of cable duct for power supply)		100%	75 18-May-12 A	11-Mar-13 A				Drainage, Utilities & Removal of ex
			100%	60 22-Jan-13 A	23-Mar-13 A				Road surfacing, Tal Wo Service F
N4010	Roadworks to NKL Flyover and Ramps		100%	175 30-Jan-13 A	16-Aug-13 A				Roadworks to NKL Flyo
N4012	Roadworks to NKL Flyover and Ramp - South Ramp to SA		100%	50 30-Jan-13 A	24-Jul-13 A				Roadworks to NKL Flyove
	· · · · · · · · · · · · · · · · · · ·		100%	20 13-Jun-13 A	22-Aug-13 A				Roadworks to NKL Flyc
			100%	10 23-Jul-13 A	16-Aug-13 A				☐ Road Marking of New L
NAUSA	Road and Drainage Works (along W74 and NR38)	10	F0/	20 08- lan 14 A	13-Mar-14				Road an
	· · · · · · · · · · · · · · · · · · ·								300d, 120
	· · · · · · · · · · · · · · · · · · ·	-14		-				Coble Detection and Total District assistant	
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	· · · · · · · · · · · · · · · · · · ·							1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	· · · · · · · · · · · · · · · · · · ·								
	,			-					Pipe installation (DN1200 chA9.00-0
	,		100%						Water Pipe installation (DN1200 CF
	· · · · · · · · · · · · · · · · · · ·		100%						Water Pipe installation (DN1200 CF
	·		100%] Water Pipe installa <mark>tion (DN300 C</mark>
			100%		·				Water Pipe installation (DN300 C
N4240	Water Pipe installation (DN300 CHBB5 - 49)		100%	75 15-Feb-13 A	09-Apr-13 A		<u> </u>	<u> </u>	I Water Pipe installa <mark>ti</mark> on (DN300 C
	3900 3900 3900 3900 3900 3900 3900 3900	Wo Service Road West CLP & Gasmian Diversion, Tear Drop/Slip Road T (incl. VO 19: Protection for existing HKCG HP600mm Gasmain at Slip Road T) DN400 landfill gasmain at NB41-stage 1 DN400 landfill gasmain at NB41-stage 2 Road DN400 landfill gasmain at NB41-stage 2 Road New Joint Box construction for CLP 132kV Watermain, traffic light, road drains & gully, Tear Drop/Slip Road T (incl. VO52) COD: TTA Case 50 Stage 1 & 2 (Epron ordered: 16-12-11, expected delivery date: 23-1-13, actual delivery date: 12-3-12) Pavement at Tear Drop Area, Slip Road T & Traffic diversion Roadworks, Drainages & Utilities, TWSRW Road from NB41-bay 6 to NB42-bay12 (incl. VO42 & VO43) Drainage, Utilities & Removal of existing paving (incl.TTA & VO 77 Provision of cable duct for power supply) Road surfacing, Tai Wo Service Road West from NB41-bay 6 to NB42-bay12 (incl. VO 81 maintenance acess for NB41 & NB42) Roadworks to NKL Flyover and Ramps Roadworks to NKL Flyover and Ramps - South Ramp to SA Roadworks to NKL Flyover and Ramp - North Ramp to NA Road Marking of New Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge and Final Div	Wo Service Road West CLP & Gasmian Diversion, Tear Drop/Slip Road T (incl. VO 19: Protection for existing HKCG HP600mm Gasmain at Slip Road T) DN400 landfill gasmain at NB41-stage 1 DN400 landfill gasmain at NB41-stage 2 3906 New Joint Box construction for CLP 132kV 3910 Watermain, traffic light, road drains & gully, Tear Drop/Slip Road T (incl. VO52) COD: TTA Case 50 Stage 1 & 2 (Epron ordered: 16-12-11, expected delivery date: 23-1-13, actual delivery date: 12-3-12) 3970 Pavement at Tear Drop Area, Slip Road T & Traffic diversion Roadworks, Drainages & Utilities, TWSRW Road from NB41-bay 6 to NB42-bay12 (incl. VO42 & VO43) 4004 Drainage, Utilities & Removal of existing paving (incl.TTA & VO 77 Provision of cable duct for power supply) 4006 Road surfacing, Tai Wo Service Road West from NB41-bay 6 to NB42-bay12 (incl. VO 81 maintenance acess for NB41 & NB42) 4010 Roadworks to NKL Flyover and Ramps 4011 Roadworks to NKL Flyover and Ramp - North Ramp to SA 4020 Roadworks to NKL Flyover and Ramp - North Ramp to NA 4030 Road works to NKL Flyover and Ramp - North Ramp to NA 4040 Roadworks to NKL Flyover and Ramp - North Ramp to NA 4050 Road and Drainage Works (along W74 and NB38) 406 Road and Drainage Works (along W74 and NB38) 407 Road and Drainage Works (along W74 and NB38) 408 Sheet Pile & ELS 409 TBM Boring and Installation of Sleeve Pipe 4004 Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) 4006 Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) 4007 Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) 4008 Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) 4009 Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) 4000 Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) 4001 Water Pipe installation (DN1200 CH70-166)	Wo Service Road West Wo Service Road T Service Road Road T Service Road Road T Service Road Road Road Road Road Road Road Road	Wo Service Road West CLP & Gasmian Diverson. Tear Drop/Sip Road T (incl. VO 19: Protection for existing HKCG HP600mm Gasmain at Slip Road T) DAVID (asmian Diverson. Tear Drop/Sip Road T (incl. VO 19: Protection for existing HKCG HP600mm Gasmain at Slip Road T) DAVID (asmian Diverson. Tear Drop/Sip Road T (incl. VO 19: Protection for existing HKCG HP600mm Gasmain at Slip Road T) DAVID (asmian B Slip Road T) DAVID (asmi	Wo Service Road West LP8 Commission Diversion, Tear Drop/Slip Road T(ind, VO 19: Protection for existing HKCG PROSOME Casmain at Slip Road T) 100% 25 15-Oct-11 A 12-Jun-12 A 18-B000 T 100% 26 17-Dec-12 A 28-Nov-12 A 28-Nov-12 A 18-B000 T 100% 27 17-Dec-12 A 18-M000 T 100% 28 17-Dec-12 A 18-M000 T 100% 28 17-Dec-12 A 18-M000 T 100% 29 17-Dec-12 A 18-M000 T 100% 29 17-Dec-12 A 18-M000 T 100% 20 18-M0000 T 100% 20 18-M0000 T 100% 20 18-M0000 T 100% 20 18-M0000 T 100% 20 18-M0	Wo Service Road West	Service Road West CL & Casman Diversion, Tear Drop/Sig Road T (incl. VO 19: Protection for existing HKCQ HP600mm Casmain at Sigh Road T) 100% 75 15-Oct-11 A 12-Jun-12 A 18-Jun-12 A 18-	100% 100%

tivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2014
civity ib	Activity Name	Float		Duration	Tillisii	21 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1
S28N4250	Water Pipe installation (DN600 CHB0-84 & CHC0-76 Cross Road)		100%	75 28-Nov-12 A	26-Apr-13 A	Water Pipe installation (DN6
S28N4260	Remaining Works for Water Pipe installation (DN1200 CH183 - 227 cross road)	-49	45%	75 06-Sep-13 A	19-Mar-14	Rema
S28N4270	Remaining Works for Water Pipe installation (DN1200 CH280 - 330)		100%	75 14-May-13 A	30-Sep-13 A	Remaining Works
S28N4280	Remaining Works for Water Pipe installation (DN1200 CH515 - 529)		100%	30 23-Jul-13 A	23-Aug-13 A	. □ Remaining Works fo
S28N4290	Remaining Works for Water Pipe installation (DN600 CHB2.8 - 30.2(Revised 51))	-14	88%	60 08-Jul-13 A	07-Feb-14	Remaini
S28N4300	Remaining Works for Water Pipe installation (DN600 CHC10.4 - 28.4(Revised 50))	-14	70%	60 08-Jul-13 A	19-Feb-14	Remair
S28N4310	Remaining Works for Water Pipe installation (DN300 CH183 - 227 cross road)	-49	30%	75 26-Nov-13 A	01-Apr-14	Rem
S28N4320	Remaining Works for Water Pipe installation (DN300 CHBB0 - 11(Revised 59))	-38	90%	45 26-Oct-13 A	07-Apr-14	Rer
	Roadwork, Drainages & Utilities at TWSRW Road from NB38 to NB41-bay6 (TTA case 50 stage 7&8)	-48	0%	0 26-Nov-12 A	10-Mar-14	- Roadi
S28N4340	CLP Tie-in (Cross road and joint bay)		100%	75 26-Nov-12 A	04-Jun-13 A	CLP Tie-in (Cross noad an
S28N4350	Removal existing paving, Drainage & Utilities (incl.TTA case 50 stage 7 & 8 and VO.77)	-53	90%	35 27-Aug-13 A	30-Jan-14	Removal
S28N4360	Road Works and Road surfacing at Tai Wo Service Road West from NB38 to NB41 - bay6	-48	0%	30 30-Jan-14	10-Mar-14	Road
S28N4370	Road Works and Road Surfacing at Slip Road T (Slow Lane)	-48	0%	30 30-Jan-14	10-Mar-14	■ Road
	Roadworks, Drainages & Utilities at TWSRW Road from NB38 to NB41- bay6 (TTA case 50 stage 9	-53	0%	68 30-Jan-14	26-Apr-14	Ro
	& 10)					
S28N4390	Removal existing paving, Drainage & Utilities (incl.TTA case 50 stage 9 & 10 and VO.77)	-53	0%	35 30-Jan-14	15-Mar-14	—————————————————————————————————————
	Road Works and Road surfacing at Tai Wo Service Road West from NB38 to NB41 - bay6	-53	0%	18 15-Mar-14	07-Apr-14	□ Roa
	Road Works and Road Surfacing at Slip Road T (Fast Lane)	-53	0%	18 15-Mar-14	07-Apr-14	□ Roa
	, , ,				26-Apr-14	— nua
	Remaining Road Works at Slip Road T and TWSRW Road from NB38 to NB41 - bay 6	-53	0%	15 07-Apr-14	<u>'</u>	
	CLP Tie-in (joint bay)		100%			CLP Tie-ini (joint bay)
	Transition Road Construction Works for TWSRW Road C2/C3 interface		100%	60 10-Jun-13 A	25-Sep-13 A	Transition Road C
	ers & Road Barriers er NB38, NB39, NB40 & NB41 (AD5)					
	WSD/DSD/HKCG/PCCW/HGC/CATV/NWT/HKBN/TGT/CLP Diversion		100%	124 19-May-10 A	15-Oct-10 A	W\$D/DSD/HKQG/PC¢W/HGC/QATV/NWT/HKBN/TGT/¢LP Diversion
	Temporary Noise Barrier Installation		100%	-	26-Dec-10 A	Temporary Noise Barrier Installation
				45 18-Oct-10 A		
	Pre-Drilling for NB39 & NB41		100%	21 26-Jan-11 A		□ Pre-Drilling:for NB39 & NB41
	Confirmation of Founding Level		100%	14 26-Mar-11 A	· ·	☐ Confirmation of Founding Level
	Excavation		100%	10 03-Feb-12 A		- D Excavation
	Noise barrier Construction (NB38 - NB41)	0	100%	937 26-Apr-11 A		Noise ba
S28N2316	Noise barrier Construction NB38		100%	30 27-Aug-13 A	22-Jan-14 A	Noise bai
S28N2318	Noise barrier Construction NB39 (base slab)		100%	75 19-Apr-12 A	31-Dec-12 A	Noise barrier Construction NB39 (ba
S28N2320	Noise barrier Construction NB41 (incl. VO 23: Provision of Drainage of Noise Barrier 41)		100%	50 26-Apr-11 A	25-Jun-11 A	Noise barrier Construction NB41 (incl. VO 23: Provision of Drainage of Noise
S28N2330	Noise barrier Construction NB39 (Wall)	0	70%	30 27-Feb-13 A	08-Feb-14	Noise b
S28N2340	Erection of steel and panel (NB41)		100%	24 11-May-12 A	05-Jun-12 A	☐ Erection of steel and panel (NB41):
S28N2350	Erection of steel and panel (NB39)	0	0%	10 10-Feb-14	20-Feb-14	■ Erectio
S28N2355	Erection of steel and panel (NB38)		100%	10 20-Jan-14 A	27-Jan-14 A	[] Erjection
S28N2370	Noise Barrier Construction NB40 (Bay1 to Bay3)		100%	50 27-Aug-13 A	24-Jan-14 A	Noise Ba
S28N2380	Noise Barrier Construction NB40 (Bay4 to Bay5)		100%	40 25-Mar-13 A	06-Jul-13 A	Noise Barrier Construct
S28N2385	Erection of steel and panel (NB40)		100%	10 20-Jan-14 A	27-Jan-14 A	[] Erection
Traffic Contr	ol & Survelance System					
	TCSS (ch4820-ch5640) & (Gantry G29) (incl. VO73 Revised Sign Gantry Details)	7	70%	40 29-Apr-13 A	12-Feb-14	TCSS (i
Landscaping		•	. 3,0			
	Landscaping Works (ch4820 - 5640)	-21	20%	50 27-Apr-13 A	17-Mar-14	Liands
South Bour	· · ·	-1	2070	55 Z. Api 10A		
Preliminarie						
	Site Clearance/Access Rd (incl. VO4 & VO5: Revised setting out plan of Slip Road W)		100%	0 23-Jun-10 A	01-Feb-11 A	Site Clearance/Access Rd (incl. VO4 & VO5: Revised setting out plan of Slip Road W)
	Site Clearance		100%	75 23-Jun-10 A		Şite Çlearance
02000010	One Ordan an ICO		100 /6	7.5 25-Juli-10 A	10 Och-10 M	ું ગાં પાણ વાવાન

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Activity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1
S28S0020	Access Rd		100%	75 27-Jul-10 A	01-Feb-11 A	Access Rd
Roadwork	s, Drainage & Utilities		1			
S28S4010	Roadworks, Drainages & Utilities (CH4820 - Ch5700)(incl. VO20: Revised Fire mains alignment plan)	6	97.25%	454 11-May-12 A	13-Feb-14	Roadworks
S28S4012	Removal of existing paving - Stage 1 (CH5300 - 5700 & Slip Road W)		100%	75 11-May-12 A	08-Jun-13 A	Removal of existing paving -
S28S4016	Utilities - Stage 1		100%	75 11-May-12 A	08-Feb-13 A	Utilities - Stage 1
S28S4020	Road and Drainages Works - Stage 1 (incl.VO 75 Modification of existing SAV Chamber)		100%	75 11-May-12 A	25-Jun-13 A	Rdad and Drainages Works
S28S4021	Road Surface and Roadmark - Stage 1 (Slow Lane)		100%	30 18-Mar-13 A	18-Jul-13 A	Road Surface and Roadh
S28S4025	Removal of existing paving - Stage 2 (CH5300 - 5700 & Slip Road W)		100%	30 19-Jul-13 A	02-Aug-13 A	☐ Removal of existing pavir
S28S4027	Utilities - Stage 2 (CH5300 - 5700) (incl. VO 77 Provision of cable duct for power supply)		100%	30 03-Aug-13 A	12-Aug-13 A	1 Utilities - Stage 2 (CH58
S28S4029	Road and Drainages Works - Stage 2		100%	30 03-Aug-13 A	12-Aug-13 A	11 Road and Drainages W
S28S4031	Road Surface and Roadmark - Stage 2 (Fast Lane)	6	85%	30 13-Aug-13 A	04-Feb-14	Road Surfa
S28S4085	Remaining Road Works at Slip Road W	6	80%	40 27-Aug-13 A	13-Feb-14	Remaining
Noise Bar	riers 44 & Road Barriers			<u> </u>	1	
Noise Bar	rier NB44					
S28S2000	Excavation for NB44		100%	219 25-Aug-10 A	24-May-11 A	Excavation for NB44
S28S2010	Excavation for NB44 (Bay1& Bay2)		100%	44 25-Aug-10 A	18-Oct-10 A	Excavation for NB44 (Bay1& Bay2)
S28S2020	Excavation for NB44 (Bay3 & Bay4)		100%	44 19-Oct-10 A	08-Dec-10 A	Excavation for NB44 (Bay3 & Bay4)
S28S2030	Excavation for NB44 (Bay5 & Bay6)		100%	44 26-Apr-11 A	26-May-11 A	□ Excavation for NB44 (Bay5 & Bay6)
S28S2040	Excavation for NB44 (Bay7 & Bay8)		100%	36 26-Aug-11 A	10-Oct-11 A	Excavation for NB44 (Bay7 & Bay8)
S28S2050	Excavation for NB44 (Bay9 & Bay10)		100%	43 14-Oct-11 A	03-Dec-11 A	Excavation for NB44 (Bay9 & Bay10)
S28S2060	Noise Barrier Footing Construction for NB44 (incl. VO 46: Modification of Noise Barrier Footing for NB44)		100%	282 26-Mar-11 A	20-Dec-11 A	Noise Barrier Footing Construction for NB44 (incl. VO 46: Modificat
S28S2070	Noise Barrier Footing Construction for NB44 (Bay 1)		100%	32 26-Mar-11 A	15-Apr-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 1)
S28S2080	Noise Barrier Footing Construction for NB44 (Bay 2)		100%	32 06-Apr-11 A	21-Apr-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 2)
S28S2090	Noise Barrier Footing Construction for NB44 (Bay 3)		100%	32 26-May-11 A	04-Jun-11 A	Noise Barrier Footing Construction for NB44 (Bay 3)
S28S2100	Noise Barrier Footing Construction for NB44 (Bay 4)		100%	30 26-Apr-11 A	26-May-11 A	Noise Barrier Footing Construction for NB44 (Bay 4)
S28S2110	Noise Barrier Footing Construction for NB44 (Bay 5)		100%	24 26-Sep-11 A	25-Oct-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 5)
S28S2120	Noise Barrier Footing Construction for NB44 (Bay 6)		100%	24 26-Oct-11 A	22-Nov-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 6)
S28S2130	Noise Barrier Footing Construction for NB44 (Bay 7)		100%	24 23-Nov-11 A	20-Dec-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 7)
S28S2140	Noise Barrier Footing Construction for NB44 (Bay 8)		100%	24 23-Nov-11 A	20-Dec-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 8)
S28S2150	Noise Barrier Footing Construction for NB44 (Bay 9)		100%	23 23-Nov-11 A	20-Dec-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 9)
S28S2160	Noise Barrier Footing Construction for NB44 (Bay 10)		100%	18 23-Nov-11 A	20-Dec-11 A	□ Noise Barrier Footing Construction for NB44 (Bay 10)
S28S2170	Remaining NB44 installation of panel		100%	7 27-Aug-13 A	26-Sep-13 A	☐ Remaining NB44 inst
Traffic Co	ntrol & Survelance System				1	
S28S4800	TCSS	-5	81.5%	130 28-Feb-13 A	26-Feb-14	T¢ss
S28S4810	TCSS - Stage 1 (ch4820 - ch5520)	-5	80%	24 28-Feb-13 A	04-Feb-14	TC\$S - Sta
S28S4850	TCSS - Stage 5 (ch5520 - ch5640), (Gantry G56) (incl. VO73 Revised Sign Gantry Details)	-5	20%	24 27-Nov-13 A	26-Feb-14	T¢ss-\$
Modificati	on of Existing Bridge				<u> </u>	
S28S1200	Modification of Lam Kam Rd. Flyover	-21	79.23%	119 26-Aug-13 A	27-Feb-14	Modification Modification
S28S1240	Diversion for modification kerb and road reconstruction (N/B)	-21	95%	43 26-Aug-13 A	29-Jan-14	Diversion fo
S28S1250	Removal central barrier and road construction	-21	85%	40 26-Sep-13 A	08-Feb-14	Removal or
S28S1260	Diversion for modification kerb and road reconstruction (S/B)	-21	45%	30 02-Dec-13 A	27-Feb-14	Diversion
Road Con	struction and Road Resufacing				1	
S28S4960	Road Construction and Resurfacing S/B for SA28	6	85%	60 26-Sep-13 A	14-Feb-14	Road Con
Site Area	SA29					
PHSA2920	Possession of SA29 (Day270)		100%	0 27-Jul-10 A		♦ Possession of SA29 (Day270)

	38		·			
ctivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6
SA290000	Site Area SA29 Works Period (incl. VO002 & VO0011: Fencing details along site boundaries SA 29)	148	99.63%	946 27-Jul-10 A	30-Jan-14	Site Arrea Si
SA290010	Site Area SA29 Works Completion	148	0%	0	30-Jan-14	♦ Site Area Sr
SA290020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	118	99.54%	764 27-Jul-10 A	30-Jan-14	Temporary
SA290030	Overall Utilities Diversion (Detail shall refer to supplementary information)	118	99.54%	764 27-Jul-10 A	30-Jan-14	Oyerali Utilit
North Bou	und					
Preliminari	ries					
S29N0000	Site Clearance/Access Rd		100%	60 26-Jan-11 A	09-Apr-11 A	Site Clearance/Access Rd
Roadworks	s, Drainage & Utilities					
S29N4010	Roadworks, Realignment of Tai Wo Service Rd. West (NB42)		100%	58 13-Apr-12 A	21-Jan-13 A	Roadworks, Realignment of Tai Wo Se
S29N4020	Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)		100%	38 15-Jan-13 A	28-Mar-13 A	Roadworks, Realigriment of Tai Vi
S29N4100	Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)		100%	111 03-Jan-11 A	15-Dec-12 A	Gravity Sewer Line (4 sections) (incl. VO
S29N4110	Gravity Sewer Line - Stage 1 (STS10.30-80)		100%	60 03-Jan-11 A	31-Mar-12 A	Gravity Sewer Line - Stage 1 (STS10.30-80)
S29N4120	Gravity Sewer Line - Stage 2 (STS10.10-30)		100%	60 01-Apr-11 A	30-Jul-11 A	Gravity Sewer Line - Stage 2 (STS10.10-30)
S29N4130	Gravity Sewer Line - Stage 2 (STS10.80-105)		100%	63 28-May-11 A	15-Dec-12 A	Gravity Sewer Line - Stage 2 (STS10.80-
Noise Barri	riers & Road Barriers				<u> </u>	
Noise Barr	rier NB42 on Mini-Piles (AD)					
S29N2000	WSD/DSD/HKCG/PCCW/HGC/CATV/NWT/HKBN/TGT/CLP Diversion		100%	72 11-Apr-11 A	11-Jul-11 A	WSD/DSD/HKCG/P¢¢W/HGc/CATV/NWT/HKBN/TGT/¢LP Diversion
S29N2020	Footing for NB42 (Bay1 - Bay9) (incl. VO 7: Construction of modified noise barrier foundation for NB42)		100%	110 06-Dec-10 A	05-Jul-11 A	Footing for NB42 (Bay1 - Bay9) (incl. VO 7: Construction of modified noise barn
S29N2030	Footing for NB42 (Bay1 - Bay5)		100%	60 06-Dec-10 A	05-Jul-11 A	Footing for NB42 (Baly1: - Baly5)
S29N2040			100%	50 06-Dec-10 A	05-Jul-11 A	Footing for NB42 (Baly6 - Baly9)
S29N3000	Construct Noise Barrier & Beam Barrier (incl. VO 23. Provision of Drainage at Noise Barrier 42)		100%	60 26-Sep-11 A	01-Aug-12 A	Construct Noise Barrier & Beam Barrier (incl. VO 2
Landscapii	ing					
S29N6000	Landscaping Works (Near NB43)		100%	50 27-Jun-13 A	26-Sep-13 A	Landscaping Works
Site Area S	SA32					
PHSA3210	Possession of SA32 (Day365)		100%	0 25-Feb-11 A		♦ Passession of SA32 (Day365)
SA320000	Site Area SA32 Works Period		100%		17-Nov-11 A	Site Area SA32 Works Period
SA320010	Site Area SA32 Works Completion	-46		0	07-Apr-14	Site Ar
General	·				<u>'</u>	
S32G0000	Site Clearance/TTM		100%	72 26-Mar-11 A	25-Jun-11 A	Site Clearance/TTM
S32G4005	Application XP for Construct Roadside Fully Variable Message Sign	-38		60 11-Mar-13 A		Application
S32G4015	Construct Roadside Fully Variable Message Sign (RFVMS3)(include duct, footing and column)	-38		30 26-Sep-13 A		Construc
S32G4025	Construct Roadside Fully Variable Message Sign (RFVMS2)(include duct, footing and column)	-38		30 26-Sep-13 A		Construc
S32G4035	Construct Roadside Fully Variable Message Sign (RFVMS1)(include duct, footing and column)	-38		30 26-Sep-13 A		Constr
S32G4045	Construct Roadside Fully Variable Message Sign (TP04)(include duct, footing and column)	-38		30 26-Sep-13 A	· ·	Constr
S32G4060	VO 13: Relocation of existing Directional Signs in the Vicinity of Lam Kam Road Interchange		100%	10 27-Apr-11 A	-	VO:13: Relocation of existing Directional Signs in
	tion of New Lam Kam Road					
	ture and Pier Construction					
South Ram	пр					
S28N1213	Temporary Work for Excavation		100%	15 27-Jul-12 A	13-Aug-12 A	☐ Temporary Work for Excavation
S28N1214	Excavation		100%	20 23-Jul-12 A	08-Aug-12 A	☐ Excavation
S28N1215	Construction of South Ramp (incl. VO72: revised North & South Ramps Retaining Wall)		100%	145 23-Jul-12 A	26-Jan-13 A	Construction of South Ramp (incl. VO
	D. OLL		1000/	60 23-Jul-12 A	19-Oct-12 A	
S28N1216	Base Slab		100%	00 23-301-12 A	13 Oct 12 A	Base Slab
S28N1216 S28N1217	Wing Wall		100%	75 24-Sep-12 A		Base Slab Wing Wall

Nativity ID	Astivity None	T	Anti-it- o/	Original Otal	Finish	2010 2011 2012 2013 2014
Activity ID	Activity Name	Total Float		Original Start Duration	Finish	11 Q2 Q3 Q4 Q1 Q2 Q3
Pier NLKP1						1234567891111111111222222222223333333333444444444
S28N1200	Gas Main Diversion		100%	45 28-Dec-11 A	28lan-12 A	☐ Gas:Main Diversion
S28N1232	Piling (16shp)		100%	50 13-Apr-12 A		Piling (16shp)
S28N1234	Cap and Pier (incl. VO29: revised piling details)		100%	70 03-Oct-12 A		Cap and Pier (incl. VO29: revised pilling de
S28N1236	Pile Cap		100%		11-Oct-12 A	D Pile Cap
	Pier		100%	45 15-Oct-12 A		Pier
South Abut			10076	40 13 Oct 12 A	20 1101 127	
	Gas Main Diversion		100%	24 28-Dec-11 A	30- lan-12 Δ	Gas Main Diversion
S28N1230	Piling Work (24shp)		100%	60 15-Feb-12 A		Piling Work (24shp)
S28N1240	Cap and Abutment (incl. VO29: revised piling details)		100%	115 15-Oct-12 A		Cap and Abutment (incl. VO29; revise
S28N1250	Pile Cap		100%	40 15-Oct-12 A	10-Nov-12 A	□ Pile;Cap
S28N1260	Abutment		100%	50 12-Nov-12 A		□ Abutment
S28N1270	Backfilling to South Abutment		100%	40 28-Dec-12 A	25-Jan-13 A	☐ Backfilling to South Abut nent
Pier NLKP2			1000/	F7 00 Can 40 A	44 Nov. 40 A	
S28N1254	Piling Work (28shp)		100%	57 20-Sep-10 A		Piling Work (2βshp)
S28N1259	Pile Cap Construction (incl. VO29: revised piling details)		100%	46 06-Dec-10 A		Pile Cap Construction (incl. VO29; revised piling details)
S28N1261	Pier Construction		100%	36 11-Feb-11 A	18-Jul-11 A	Pier Construction
Pier NLKP3			1			
S28N1271	Pre-drilling for Piles		100%	11 11-Sep-10 A	· ·	□ Pre-drilling for Piles
S28N1272	Confirmation of Founding Level		100%	21 12-Sep-10 A		☐ Confirmation of Founding Level
S28N1273	Piling Work (24shp)		100%	68 20-Sep-10 A		Piling Work (24shp)
S28N1274	Temporary Shoring System		100%	31 17-Nov-10 A	03-Dec-10 A	☐ Temporary Shoring System
S28N1275	Excavation to Formation Level		100%	10 06-Dec-10 A	18-Dec-10 A	□ Excavațion to Formation Level
S28N1276	Pile Head Trimming and bearing plate		100%	11 20-Dec-10 A	24-Dec-10 A	Մ Pile Head Triṃming and bearing plate
S28N1277	Pile Cap Construction (incl. VO29: revised piling details)		100%	24 20-Dec-10 A	05-Jan-11 A	D Pile Cap Construction (incl. VQ29: revised piling details)
S28N1278	Backfilling		100%	30 26-Feb-11 A	01-Apr-11 A	Backfilling
S28N1279	Pier Construction		100%	61 02-Apr-11 A	11-Jun-11 A	Pier Construction
Pier NLKP4						
S28N1281	Gas main Diversion		100%	120 13-May-10 A	31-Jul-10 A	Gas main Diversión
S28N1282	Pre-drilling for Piles		100%	9 01-Aug-10 A	14-Aug-10 A	□ Pre-drilling for Piles
S28N1283	Confirmation of Founding Level		100%	22 16-Aug-10 A	31-Aug-10 A	Confirmation of Founding Level
S28N1284	Piling Work (16shp)		100%	63 01-Sep-10 A	30-Sep-10 A	□ :Piling Work (16shp)
S28N1285	Temporary Shoring System		100%	44 20-Oct-10 A	23-Oct-10 A	II Temporary Shoring System
S28N1286	Excavation to Formation Level		100%	7 25-Oct-10 A	28-Oct-10 A	
S28N1287	Pile Head Trimming and bearing plate		100%	14 29-Oct-10 A	06-Nov-10 A	Pile Head Trimming and bearing plate
S28N1288	Pile Cap Construction (incl. VO29: revised piling details)		100%	21 08-Nov-10 A	19-Nov-10 A	Pile Cap Construction (incl. VO29: revised piling details);
S28N1289	Backfilling		100%	30 20-Dec-10 A	11-Jan-11 A	□ : Backfilling
S28N1290	Pier Construction		100%	71 02-Feb-11 A	26-Mar-11 A	Piệr Cộnstrudtion
Pier NLKP5					1	
S28N1301	Gas main Diversion		100%	120 13-May-10 A	31-Aug-10 A	Gas;main Diversion
S28N1302	Pre-drilling for Piles		100%	7 01-Sep-10 A	11-Sep-10 A	D Pre-drilling for Piles
S28N1303	Confirmation of Founding Level		100%	14 13-Sep-10 A	25-Sep-10 A	D: Confirmation of Founding Level
S28N1304	Piling Work (16shp) (incl. VO001: Revised Layout of Piles at New Lam Kam Road Flyover Pier NLKP5)		100%	62 26-Sep-10 A	·	Piling Work (16shp) (incl. VO001: Revised Layout of Piles at New Lam Kam Road Flyover Pier N
S28N1305	Temporary Shoring System		100%	44 20-Oct-10 A	05-Nov-10 A	☐ Temporary Shoring System
S28N1306	Excavation to Formation Level		100%	7 08-Nov-10 A	12-Nov-10 A	I Excavation to Formation Level
S28N1307	Pile Head Trimming and bearing plate		100%	14 15-Nov-10 A	27-Nov-10 A	D: Pile Head Trimming;and bearing plate
S28N1308	Pile Cap Construction (incl. VO29: revised piling details)		100%	21 29-Nov-10 A		Pile Cap Construction (incl. VO29: revised piling details)
2_0000	,		. 5576	= 25 .137 1071		

	40				
ctivity ID	Activity Name	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q4 Q1 Q3 Q3 Q4 Q1 Q3 Q3 Q4 Q3 Q4 Q3 Q3 Q4 Q3 Q3
S28N1309	Backfilling	100%	30 13-Dec-10 A	18-Dec-10 A	I Backfilling
S28N1310	Pier Construction	100%	74 28-Dec-10 A	28-Mar-11 A	Pier Construction
Pier NLKP	6				
S28N1321	Gas main Diversion	100%	150 13-May-10 A	10-Nov-10 A	Gaş main Diversion
S28N1322	Pre-drilling for Piles	100%	14 21-Jul-10 A	23-Feb-11 A	Pre-drilling for Piles
S28N1323	Confirmation of Founding Level	100%	14 21-Jul-10 A	25-Feb-11 A	Confirmation of Founding Level
S28N1324	Piling Work (23shp)	100%	75 28-Feb-11 A	28-Mar-11 A	☐ Piling Work (23shp):
S28N1325	Temporary Shoring System	100%	44 26-May-11 A	18-Jul-11 A	Temporary Shoring System
S28N1326	Excavation to Formation Level	100%	7 05-May-11 A	23-Jun-11 A	Excavațion to Formation Level
S28N1327	Pile Head Trimming and bearing plate	100%	14 29-Jun-11 A	05-Jul-11 A	Pile Head Trimming and bearing plate
S28N1328	Pile Cap Construction (incl. VO29: revised piling details)	100%	23 28-Jul-11 A	24-Aug-11 A	Pile Cap Construction (incl. VO29: revised piling details)
S28N1329	Backfilling	100%	28 26-Sep-11 A	29-Oct-11 A	□ Backfilling
S28N1330	Pier Construction	100%	71 28-Sep-11 A	12-Nov-11 A	Pier Construction
Pier NLKP	7		<u> </u>	<u> </u>	
S28N1341	Realignment of Existing slip road	100%	45 19-May-10 A	13-Jul-10 A	Realignment of Existing slip road
S28N1342	Existing Water main Diversion	100%	45 14-Jul-10 A	03-Sep-10 A	Existing Water:main Diversion:
S28N1343	Pre-drilling for Piles	100%	7 04-Sep-10 A	18-Sep-10 A	☐ Pre-drilling for Piles
S28N1344	Confirmation of Founding Level	100%	14 13-Sep-10 A	25-Sep-10 A	Confirmation of Founding Level
S28N1345	Piling Work (16shp)	100%	62 26-Jan-11 A	·	□ Piling Work (16shp)
S28N1346	Temporary Shoring System	100%	44 08-Mar-11 A	16-Apr-11 A	Temporary Shoring System
S28N1347	Excavation to Formation Level	100%		16-Apr-11 A	Excavation to Formation Level
S28N1348	Pile Head Trimming and bearing plate	100%	14 27-Apr-11 A	·	☐: Pile Head:Trimming and bearing plate:
S28N1349	Pile Cap Construction (incl. VO29: revised piling details)	100%	21 19-May-11 A	-	Pile Cap Construction (incl. VO29: revised piling détails)
S28N1350	Backfilling	100%	30 26-Sep-11 A	,	□ Backfilling
S28N1351	Pier Construction	100%	72 03-Oct-11 A		Pier Construction
Pier NLKP		10070	72 00 00(1171	2.200	
S28N1361	Realignment of Existing slip road	100%	45 19-May-10 A	13-Jul-10 A	Realignment of Existing slip:road
S28N1363	Existing Water main Diversion	100%	45 14-Jul-10 A	03-Sep-10 A	Existing Water main Diversion
S28N1364	Pre-drilling for Piles	100%	18 04-Sep-10 A	·	☐ Pre-drilling for Piles
S28N1365	Confirmation of Founding Level	100%	14 27-Sep-10 A	·	☐ Confirmation of Founding Level
S28N1366	Piling Work (24shp)	100%	· ·	05-Feb-11 A	□ Piling Work (24shp)
S28N1367	Temporary Shoring System	100%	44 26-Apr-11 A		□: Temporary Shoring System
S28N1368	Excavation to Formation Level	100%	30 26-Sep-11 A	-	Excavation to Formation Level
S28N1369	Pile Head Trimming and bearing plate	100%	·	22-Oct-11 A	D. Pile Head Trimming and bearing plate
S28N1370	Pile Cap Construction (incl. VO29: revised piling details)	100%	24 26-Oct-11 A	02-Nov-11 A	Pile Cap Construction (incl. VO29: revised piling details)
S28N1371	Backfilling	100%	24 26-Nov-11 A		Backfilling
S28N1372	Pier Construction	100%	72 21-Dec-11 A		Pier Construction
Pier NLKP		10070			
S28N1381	Realignment of Existing slip road	100%	45 19-May-10 A	13-Jul-10 A	Realignment of Existing slip road
S28N1382	Existing Water main Diversion	100%	<u> </u>	03-Sep-10 A	Existing Water main Diversion
S28N1383	Pre-drilling for Piles	100%	14 04-Sep-10 A	·	☐ Pre-drilling for Piles
S28N1384	Confirmation of Founding Level	100%	14 21-Sep-10 A	· ·	Confirmation of Founding Level
S28N1385	COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DAN 202) and related UU works	100%	75 21-Sep-10 A		COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DA
020111003)	100 /0	75 21 06p-10 A	LI SOLIIA	Joseph Dramago (ADIVIZ, 60), IZI, 140, ZZJI, 116 OGI VICES IVIdilis (DAI
S28N1386	Piling Work (24shp)	100%	75 22-Oct-11 A	19-Dec-11 A	Piling Work (24shp)
S28N1387	Temporary Shoring System	100%		19-Apr-12 A	Temporary Shoring System
S28N1387	Excavation to Formation Level	100%	36 19-Apr-12 A	'	Excavation to Formation Level
S28N1389	Pile Head Trimming and bearing plate	100%		11-Jul-12 A	Excavation to Formation Level
320111309	The rieds tritiming and bearing place	100 /6	12 ZI-JUII-12 A	11 0ur 12 A	

	41														2014
Activity ID	Activity Name	Total Float		Original Start	Finish	01	2010 Q2 C	3 Q4 (2011 Q1 Q2 Q3						
		rioat		Duration					1 1 1 1 1 1 2		222333	3 3 3 3 3 3 3	3 4 4 4 4 4 4	4 4 4 4 4 5	5 5 5 5 5 5
S28N1390	Pile Cap Construction (incl. VO29: revised piling details)		100%	12 12-Jul-12 A	01-Aug-12 A						□ Pi	e Cap Constru	ction (incl. VC	⊃29: revis∈	ed piling det
S28N1391	Backfilling		100%	12 28-Jul-12 A	14-Sep-12 A							Backfilling			
S28N1392	Pier Construction		100%	40 15-Sep-12 A	18-Oct-12 A							Pier Constr	uction		
Pier NLKP1	0														
S28N1401	132 kv Cable Diversion		100%	75 26-Oct-11 A	27-Jan-12 A					13	2 kv Cable D	version			
S28N1402	Existing Water main Diversion		100%	50 23-Apr-12 A	16-Aug-12 A							xisting Water ı	nain Diversio	ı'n	
S28N1405	Piling Work (17shp)		100%	60 23-Jul-12 A	19-Sep-12 A							Piling Work (7shp)		
S28N1409	Pile Cap construction (incl. VO29: revised piling details)		100%	25 03-Oct-12 A	01-Dec-12 A							Pile Cap	construction	(incl. VO2	29: revised p
S28N1411	Pier Construction		100%	25 11-Dec-12 A	29-Dec-12 A							☐ Pier C	onstruction		
North Abutr	ment			-	-1.			+-+-+			- + - + - + - + - + - +				
S28N1422	Existing Water Main Utilities Diversion		100%	30 09-Jul-12 A	30-Aug-12 A							Existing Water	Main Utilities	Diversion	
S28N1426	Piling Work (24shp)		100%	60 20-Sep-12 A	12-Nov-12 A							Piling Wo	rk (24shp)		
S28N1428	Pile Cap Construction (incl. VO29: revised piling details)		100%	30 26-Nov-12 A	02-Jan-13 A							☐ Pile C	ap Construct	ion (incl. V	/O29: revise
S28N1430	Abutment		100%	30 05-Jan-13 A	24-Jan-13 A							☐ Abu	111 1 1 1 1		
S28N1580	Backfilling		100%	20 20-May-13 A									Backfillin	ng	
North Ramp				,											
S28N1434	COD: RFI 399 HP Gas Main Clashing with abutment (incl. trail pit excavation)		100%	50 19-Sep-12 A	31-Dec-12 A							COD:	RFI 399 HP	Gas Main	Clashina wi
S28N1435	Construction of North Ramp (incl. VO72: revised North & South Ramps Retaining Wall)		100%	148 06-Nov-12 A									■ Constructi		1 1 1 1 1
S28N1436	Temporary Work for Excavation		100%	24 06-Nov-12 A	•								porary Work		
S28N1437	Excavation		100%	22 22-Nov-12 A								Exc			
S28N1438	Base Slab		100%	14 31-Dec-12 A									Base Slab		
S28N1439	Wing Wall		100%	48 01-Feb-13 A									☐ :Wing Wal		
S28N1449	Backfilling		100%	20 06-May-13 A	-								Backfillir		
			100%	20 06-Way-13 A	07-Juli-13 A								Dackiniii	lg .	
	nd Finishing Decline (Begins Decises & M. Induded) (incl. VC 40-NILK, Decised Decises Assessment for		1000/	550 07 him 44 A	14 May 10 A										
S28N1440	Decking (Bearing, Drainage & MJ included) (incl. VO 40: NLK - Revised Drainage Arrangement for Bridge Deck)		100%	559 27-Jun-11 A	14-May-13 A								Decking (Bearing, D	rainage & i
COON 4 450	NHV Deals D4 D5		1000/	75 07 has 44 A	00 0 - 11 4					NUIZIDANI	D4 IDE				
S28N1450	NLK Deck; P4 - P5		100%	75 27-Jun-11 A	'					NLK Deck;	1 1 1 1 1 1	PA I I I I I			
S28N1460	NLK Deck; P3 - P4		100%	75 26-Oct-11 A						I NI	K Deck; P3 -				
S28N1470	NLK Deck; P2 - P3		100%	72 11-May-12 A	-						- 1 1 1 1 1 1	LK Deck; P2 -	1 1 1 1 1 1		
S28N1475	Falsework erection of deck: P1 - P2		100%	50 29-Sep-12 A				; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	-4-4-4-4-4-4-4-4-4			Falsev			1;- P2 ; ;
S28N1480	NLK Deck; P1 - P2		100%	62 06-Nov-12 A									CDeck; P1 - F		
S28N1484	Falsework dismantling of deck: P1 - P2		100%	18 21-Mar-13 A	·								Falsework		7 1 1 1 1
S28N1485	Falsework erection of deck: South Abutment - P1		100%	25 10-Dec-12 A									sework erection		
S28N1490	NLK Deck; South Abutment - P1		100%	60 03-Jan-13 A									NLK Deck; Sc		
S28N1495	Falsework dismantling of deck: South Abutment - P1		100%	18 15-Apr-13 A	,			+-+-+-			<u></u>		Falsework	र dismantlir	ng of deck: 5
S28N1500	NLK Deck; P5 - P6		100%	75 26-Nov-11 A								eck; P5 - P6			
S28N1510	NLK Deck; P6 - P7		100%	75 16-Jun-12 A	06-Oct-12 A							NLK Deck; I	?6 - P7		
S28N1520	NLK Deck; P7 - P8		100%	75 03-Sep-12 A	22-Dec-12 A								eck; P7 - P8		
S28N1524	Falsework dismantling of deck: P7 - P8		100%	26 07-Jan-13 A	01-Feb-13 A	1 1						☐ Fal	sework disma	intling of d	eck: P7 - P8
S28N1525	Falsework erection of deck: P8 - P9		100%	18 29-Oct-12 A	29-Jan-13 A	1 1						Fals	sework erection	on of deck	: P8 - P9
S28N1530	NLK Deck; P8 - P9		100%	75 20-Dec-12 A	29-Mar-13 A			, -					NLK Deck; P	′8 - P9	
S28N1534	Falsework dismantling of deck: P8 - P9		100%	26 23-Apr-13 A	20-Jul-13 A	1 1							False	ework disn	mantling of d
S28N1535	Falsework erection of deck: P9 - P10		100%	34 10-Dec-12 A	23-Jan-13 A							☐ Fals	ework erectio	n of deck:	P9 - P10
S28N1540	NLK Deck; P9 - P10		100%	65 18-Jan-13 A	25-Apr-13 A								NLK Deck;	P9 - P10	
S28N1544	Falsework dismantling of deck: P9 - P10		100%	18 20-May-13 A	30-Nov-13 A									False	ework disma
S28N1545	Falsework erection of deck: P10 - North Abutment		100%	18 17-Jan-13 A	21-Feb-13 A		;;-;-; 	+-+-+-			- + - + - + - + - + - +	□ Fa	alsework erec	tion of dec	ck: P10 + Nc
S28N1550	NLK Deck; P10 - North Abutment		100%	55 21-Feb-13 A	14-May-13 A								NLK Decl	k; P10 N	orth Abutme
S28N1554	Falsework dismantling of deck: P10 - North Abutment		100%	18 20-May-13 A	08-Jun-13 A								Falsewo	ork dismar	ntling of dec
	<u> </u>			,					11111111			1 1 1 1 1 1		<u> </u>	

12	

	42														
ctivity ID	Activity Name	Total Float	Activity % Complete	Original Duration		Finish	21 Q2	2010 Q3 5 6 7 8	2011 Q4 Q1 Q2 Q3 9 1 1 1 1 1 1 1 1 1 1 1 1	Q4 2 2 2 2 2	20 Q1 Q2 2 2 2 2 2 2	Q3 Q4	20 Q1 Q2 3 3 3 3 4 4	Q3 Q4 (2014 Q1 Q2 Q3 4 5 5 5 5 5 5
S28N1570	Parapet (P3 - P6)		100%	45	03-Dec-12 A	18-Apr-13 A					+ + + + + + + + + + + + + + + + + + + 			apet (P3 - P6)	
S28N1660	Parapet (SA - P3 & P6 - NA)		100%	65	28-Feb-13 A	26-Jun-13 A								Parapet (SA	P3 & P6 - NA
S28N1680	Noise Barriers, Surfacing and Road Lighting		100%	30	10-May-13 A	22-Aug-13 A		F - F - F - F - F - F - F - F - F - F -	· · · · · · · · · · · · · · · · · · ·	- 		-		Noise Bar	rriers, Surfacino
S28N1690	Inspection Handover of NLK Bridge		100%	3	22-Aug-13 A	24-Aug-13 A								I Inspectio	n Handover of I
S28N1700	TTA Stage 9		100%	0	24-Aug-13 A									♦ TTA Stage	e 9
S28N1710	Diversion for modifying kerb and laying asphalt paving road (N/B) reconstruction of 1 lane Stage 1		100%	43	26-Aug-13 A	14-Dec-13 A									iversion for mo
I															
S28N1715	Road Construction Works (N/B) C2/C3 interface	-22	80%	30	26-Aug-13 A	05-Feb-14									Road Consti
S28N1720	Diversion for removing central barriers Stage 2	-22	45%	18	17-Sep-13 A	17-Feb-14									Diversion fo
S28N1730	Diversion for modifying kerb and laying asphalt paving road (S/B) reconstruction of 1 lane Stage 3	-22	0%	10	17-Feb-14	28-Feb-14									Diversion f
S28N1735	Road Construction Works (S/B) C2/C3 interface	-22	0%	10	17-Feb-14	28-Feb-14									Road Con
Ready Fo	or Pre-Handover Retaining Wall of Section 4														
HRW0040	Ready For Pre-Handover Retaining Wall W72B, W73 and W74	-6	0%	7	19-Feb-14	27-Feb-14									Ready For
Section 5														- +	
	CA24														
Site Area			40001		00 5-1-10 ((0 A O 1 / P - O)						
PHSA3120	Possession of SA31 (Day0)		100%		26-Feb-10 A		→ Poss	ession of	f SA31 (Day0)						
SA310000	Site Area SA31 Works Period (incl. VO42, VO52, VO59 & VO65)	142		884	26-Feb-10 A						1 1 1 1 1	1 1 1 1 1		1 1 1 1 1 1	Site Area \$A
SA310010	Site Area SA31 Works Completion	142	0%	0		04-Feb-14									Site Area SA
South Bo	pund														
Prelimina															
S31S0000	Site Clearance/TTM/Access Rd/Utility Diversion (Incl. Liason and Coordination)		100%	252	26-Feb-10 A	31-Dec-10 A			Site Clearance	TTM/Acc	ess Rd/Utility	Diversion (ncl. Liason an	d Coordination	1
Roadwor	ks, Drainage & Utilities														
Portion 3															
S31S5000	Portion 3 - New Footpath (CH0 to 175)		100%	165	11-Jun-11 A	15-Jan-13 A							➡ Portion 3	New Footpath	(CH0 to 175)
S31S5010	Formation level of footpath		100%	45	04-Jan-12 A	28-Feb-12 A				ָּ ֭֭֭֭֭֭֭֭֭֭֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֓֓	— Forma	tion level of	ootpath		
S31S5020	Preparation for footpath & Cycle Track Diversion		100%	7	11-Jun-11 A	18-Jun-11 A			Pre	paration	for footpath	& Cycle Trac	k Diversion		
S31S5025	Unchartted Towngas DN400 HP		100%	178	29-May-12 A	05-Jan-13 A						1 1 1 1 1	Unchartted	Towngas DN4	100 HP
S31S5030	Additional UU works (CLP 132kV & 11kv)		100%	17	10-Oct-12 A	16-Jan-13 A							Additional	UU works (CL	P 132kV & 11kv
S31S503	Roadworks		100%	215	07-Sep-12 A	16-Mar-13 A							Road	vorks	
S31S5040	Footpath Sub-base, kerb and concrete surface		100%	17	07-Sep-12 A	30-May-13 A								ootpath Sub-b	ase, kerb and
S31S5050	CLP Overhead wooden Pole		100%	12	26-Dec-12 A	07-Jan-13 A							CLP Overl	ead wooden P	ole
S31S5060	New cycle track formation level		100%	15	28-Nov-12 A	06-Apr-13 A							New	cycle track for	mation level
S31S5070	New cycle track (Bitonminous Layer)		100%	10	29-Jan-13 A	25-Apr-13 A							Ne	w cycle track (Bitonminous La
S31S5080	New Kerb		100%	7	07-Jan-13 A	23-Apr-13 A							Ne	v Kerb	
S31S5090	Public Lighting & TCSS Ductings (incl. VO 77 Provision of cable duct for power supply)		100%	7	06-Oct-12 A	23-Apr-13 A							Pu	olic Lighting &	CSS Ductings
S31S5100	New public lightings poles		100%	15	17-Apr-13 A	20-Apr-13 A							I Ne	v public lighting	s poles
S31S5110			100%			20-Apr-13 A								construction car	
S31S5120	-	116	0%	5	27-Jan-14	04-Feb-14									Traffic Lights
S31S5130	-		100%		21-May-12 A	16-Mar-13 A							Road	vorks (Other ar	rea not affected
S31S5132			100%		26-Dec-12 A								1 1 1 1 1 1 1		rea affected by
Portion 1	, , , , ,														
S31S4620	Portion 1 - CH 0 to CH 50 (From Hong Lok Yuen Junction to WSD Gate)		100%	146	20-Jun-11 A	16-Mar-13 A							—— Portio	n 1 - CH 0 to 0	H 50 (From H
S31S4630	, , ,		100%		20-Jun-11 A				Sit Sit	e Clearar					
S31S4640			100%			25-Aug-11 A			i . i . i . i . i . i . i . i . i .		ion road for	nation level			
S31S4648			100%			10-Aug-12 A				_ paval	1 1 1 1 1	1 1 1 1 1	tted Towngas	/ CLP	
S31S4650	-		100%			04-Feb-12 A					☐ Trial Pit		1 1 1 1 1 1 1		
	THAT I TO TOWNGO DIVEOUTH		100 /0	14	10 0a11-12 M	07 1 60-12 M	1000				- mairil	on inviligas	PINTOU LIF		4 1 1 1 1 1 1 1
S31S4660	Additional Towngas DN400 HP preparation and materials deliverary		100%	EO	06-Feb-12 A	27 Apr 10 A					,	ditional Tab	dade DN 400 I	ID proporciios	and materials o

Antinity ID	43	Total	A a tivitus O/	Original	Chart	Finish	2010 2011 2012 2013 2014
Activity ID	Activity Name	Total Float	,	Duration		Finish	21 Q2 Q3 Q4 Q1 Q2 Q3
S31S4670	Additional Towngas DN400 HP laying works		100%	12	28-Apr-12 A	26-May-12 A	123456789111111111112222222222233333333333344444444
S31S4675	Uncharted CLP 11kV Existing diversion (Ducting & Cabling, Tie - in and uncharted cables)		100%		30-Jul-12 A	10-Aug-12 A	□ Uncharted CLP 11kV Existing diverson (Ducting & C
S31S4678	UU diversion		100%			18-Dec-12 A	UU diversion
S31S4679	Excavation for UU diversion		100%	20	15-Dec-11 A	10-Jan-12 A	□ Excavation for UU diversion
S31S4680	Additional CLP 11kV Existing Diversion (Ducting & Cabling, Tie-in and uncharted cables)		100%		25-Apr-12 A	10-Aug-12 A	Additional CLP 11kV Existing Diversion (Ducting & C
S31S4690	Additional CLP 132 kV (New Lay)		100%	17	02-Apr-12 A	18-Jun-12 A	Additional CLP 132 kV; (New Lay);
S31S4700	Additional CLP 132kV (Existing)		100%	22	11-Aug-12 A	16-Aug-12 A	II. Addittonal CLP 132kV (Existing)
S31S4710	Additional UU work (HGC, HKBN, TGT & NWT)		100%	35	06-Aug-12 A	18-Dec-12 A	Additional UU work (HGC, HKBN, TGT & I
S31S4720	Excavation and DN 600 FW & DN 300 SW		100%	68	28-Jun-11 A	09-Nov-12 A	Excavation and DN 600 FW & DN 300 SW
S31S4725	Roadwork		100%	0	15-Oct-12 A	29-Jul-13 A	Roadwork
S31S4730	Footpath & Kerb		100%	30	20-Dec-12 A	29-Jul-13 A	Footpath & Kerlo
S31S4740	Roadwork		100%	30	15-Oct-12 A	16-Mar-13 A	Roadwork
Portion 2							
S31S4750	Portion 2 - CH 50 to 80 (From WSD Gate to Hong Lok Yuen)		100%	108	20-Jun-11 A	29-Jul-13 A	Portion 2 - CH 50 to 80 (F
S31S4760	Site clearance		100%	7	20-Jun-11 A	27-Jun-11 A	II, Siţe clearance
S31S4765	UU Diversion		100%	82	28-Mar-12 A	05-Oct-12 A	: UJU ;Diversion
S31S4766	Slopeworks S45A		100%	18	28-Mar-12 A	21-Apr-12 A	□ Slopeworks:S45A
S31S4770	Additional CLP 132kV (New Lay & clashing with existing)		100%	45	25-Apr-12 A	18-Jun-12 A	Additional CLP 132kV (New Lay & clashing with existing
S31S4780	Additional CLP 11kV New Lay (Ducting & Cabling and Tie-in)		100%	46	19-Jun-12 A	27-Jul-12 A	Additional CLP 11kV New Lay (Ducting & Cabling and
S31S4790	UU works (HKBN & New Lay HGC)		100%	12	27-Aug-12 A	05-Oct-12 A	UU works (HKBN & New Lay HG¢)
S31S4800	Footpath & kerb and Diversion of footpath		100%	15	10-Sep-12 A	29-Jul-13 A	Footpath & kerb and Diver
S31S4810	Roadwork		100%	21	25-Oct-12 A	25-Feb-13 A	Roadwork Roadwork
Roadworks	, Drainage & Utilities						
	Eastbound Roadworks		100%	50	07-Jan-13 A	08-Apr-13 A	Eastbound Roadworks
S31S4830	Westbound Roadworks		100%	50	17-Jan-13 A	20-Apr-13 A	Westbound Roadworks
Section 7							
Site Area S	Δ 41						
PHSA4110	Possession of SA41 (Day0)		100%	0	26-Feb-10 A		♦ Possession of \$A41 (Day0)
SA410000	Site Area SA41 Works Period	-71			26-Feb-10 A	05-Sep-14	
SA410010	Site Area SA41 Works Completion	-71		0		05-Sep-14	—
	Site Office	, ·	0,0			35 35p	
S41G0000	Site Clearance / TTM		100%	60	26-Feb-10 A	12-May-10 A	Site Clearance / TTM
S41G9000	Construction of ER & Contractor's Office (incl. VO 24: Office Renovation)		100%		26-Feb-10 A	•	Construction of ER & Contractor's Office (incl. VQ 24: Office Renovation)
S41G9100	Temp Warehouse, Fabrication & Equip Yard	-78			13-May-10 A	<u> </u>	Ter
S41G9120	Dismantle of ER & Contractor's Office	-60			17-Jun-14	05-Sep-14	
	A42 (Core Storage & Works Area)		0,0		• • • • • • • • • • • • • • • • • •	ос сор	<mark>—</mark> ::::::::::::::::::::::::::::::::::::
PHSA4210	Possession of SA42 (Day0)		100%	0	26-Feb-10 A		♦ Possession of SA42 (Day0)
SA410040	Site Area SA42 Works Period	0			26-Feb-10 A	25- lun-14	Site
SA420010	Site Area SA42 Works Completion	0		1361		25-Jun-14*	♦ Site
	·	0	0 /6	0		25 00H-14	· γ φιι
Site Area S	,		4000/		04 May 40 4		A Distributed of CA141 (Distributed)
PHSA4310	Possession of SA43 (Day90)	70	100%		04-May-10 A	0F Cc= 44	♦ Possession of \$A43 (Day90)
SA410020	Site Area SA43 Works Period	-72		1492	04-May-10 A	·	
SA410030	Site Area SA43 Works Completion	-72	0%	0		05-Sep-14*	
	Production Area		40001		07.1410.1	05 A 40 A	
S41G010	Site Clearance (Mulabira Office Area)		100%		27-May-10 A	_	Site Clearance
S41G020	Site Clearance (Mulching Office Area)		100%		27-May-10 A		Site Clearance (Mulching Office Area)
S41G030	Site Clearance (Wood Storage Area)		100%	45	12-Jun-10 A	05-Aug-10 A	Site Clearance (Wood Storage Area)

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Activity ID	Activity Name	Total	Activity %	Original Start	Finish		2010		2011		2012		2013	2014
		Float	Complete	Duration		21 Q 12 3 4	5 6	Q3 Q4 Q1 7 8 9 1 1 1 1 1	Q2 Q3 1 1 1 1 1 1	3 Q4 Q1 2 2 2 2 2 2 2	Q2 Q3 Q 2 2 2 2 3 3 3 3 3	34 Q1 0 33333333	Q2 Q3 Q4 4 4 4 4 4 4	Q1 Q2 Q3 4 4 4 5 5 5 5 5 5
S41G040	Construction of Mulching Production Yard		100%	60 06-Aug-10 A	18-Oct-10 A			Constructi	on of Mulc	hing Production	n Yard			
S41G050	Temp Warehouse, Fabrication & Equip Yard (Site allcated for period till 8 May 2012) : Expected production = 900m3	151	100%	1260 13-Sep-10 A	27-Jan-14									Temp Wareh
S41G060	Mulching Production Phase 1 (45m3)		100%	63 13-Sep-10 A	09-Oct-10 A			□ Mulching P	roduction	Phase 1 (45m	3)			
S41G070	Mulching Production Phase 2 (45m3) (incl. VO16, VO 18)		100%	63 21-Dec-10 A	21-Feb-11 A			i i	∕lulching P	roduction Pha	se 2 (45m3) (incl	VO16, VO 1	8)	
S41G080	Mulching Production Phase 3 (45m3)		100%	63 20-Feb-11 A	24-Apr-11 A				☐ Mulchir	ng Production	Phase 3 (45m3)			
S41G090	Mulching Production Phase 4 (45m3)		100%	63 24-Apr-11 A	26-Jun-11 A				M	ulching Produc	tion Phase 4 (45	m3)		
S41G100	Mulching Production Phase 5 (45m3)		100%	63 27-Jun-11 A	28-Aug-11 A					Mulching Pr	oduction Phase 5	(45m3)		
S41G110	Mulching Production Phase 6 (45m3)		100%	63 29-Aug-11 A	30-Oct-11 A					Mulchir	g Production Pha	ıse 6 (45m3)		
S41G120	Mulching Production Phase 7 (45m3)		100%	63 31-Oct-11 A	01-Jan-12 A					Mı	Iching Production	Phase 7 (4	5m3)	
S41G130	Mulching Production Phase 8 (45m3)		100%	63 02-Jan-12 A	31-Mar-12 A		TT				Mulching Pro	duction Phas	e 8 (45m3)	
S41G140	Mulching Production Phase 9 (45m3)		100%	63 02-Apr-12 A	31-Dec-12 A							Mulchi	ng Production F	Phase 9 (45m3)
S41G260	Dismantle of Mulching Production Yard	-61	0%	68 17-Jun-14	05-Sep-14									
S41G270	Dismantle of Mulching Production Yard : Removing Mulching Office	-61	0%	48 17-Jun-14	13-Aug-14									
S41G280	Dismantle of Mulching Production Yard : Removing Security Fence and Security Device	-61	0%	20 13-Aug-14	05-Sep-14									
Section 8		'					TT							
Establish	ment Works													
S21G8000	SA21 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
Section 9														
	ment Works													
S22G8000	SA22 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S23G8000	SA23 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S24G8000	SA24 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S25G8000	SA25 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S26G8000	SA26 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
Section 10														
Establish	ment Works													
S26AG800	SA26A Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S27G8000	SA27 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
Section 11														
	ment Works										- + - +			
S28G8000	SA28 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S29G8000	SA29 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
Section 12														
	ment Works													
S30AG800	SA30A Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15									
S30G8000	SA30 Establishment Works SA30 Establishment Works	-214	0%	365 27-Jan-14	26-Jan-15 26-Jan-15									
-		-214	076	363 27-Jan-14	26-Jan-15									
Section 13														
	ment Works													
S30AG810	Remainder of Establishment Works (Exclude Section 8 to 12)	-214	0%	365 27-Jan-14	26-Jan-15	-111-								
Section 14														
	work Maintenance (Subject to the the Engineer's Instruction)			a := a										
S21G7000	Tentative Start Date for SA21 Route Maintenance Works		100%	0 17-Sep-10 A				Tentative Sta	1 1 1 1			orks		
S22G7000	Tentative Start Date for SA22 Route Maintenance Works		100%	0 26-Feb-10 A		◆ Ten	1 1	Start Date for SA	1 1 1 1					
S23G7000	Tentative Start Date for SA23 Route Maintenance Works		100%	0 25-Aug-10 A			-1-1-	Tentative Star				- - - -		
S24G7000	Tentative Start Date for SA24 Route Maintenance Works		100%	0 25-Aug-10 A				Tentative Star	t Date for	SA24 Route N	laintenance Wor	(S		

A .	Activity Name			0.1.1.10	 	2010 2011 2012 2013								
Activity ID		Total Float		Original Start Duration	Finish	01 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2	Q3 Q4 Q1 Q2 Q3							
S25G7000	Tentative Start Date for SA25 Route Maintenance Works		100%	0 20-Oct-10 A		12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 5 5 5 5 5							
S26AG700	Tentative Start Date for SA26A Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tentative Start Date for SA26A Route Maintenance Works								
S26G7000	Tentative Start Date for SA26 Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tentative Start Date for SA26 Route Maintenance Works								
S27G7000	Tentative Start Date for SA27 Route Maintenance Works		100%	0 27-May-10 A		♦ Tentative Start Date for SA27 Route Maintenance Works								
S28G7000	Tentative Start Date for SA28 Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tentative Start Date for SA28 Route Maintenance Works	·							
S29G7000	Tentative Start Date for SA29 Route Maintenance Works		100%	0 20-Oct-10 A										
S30AG700	Tentative Start Date for SA30A Route Maintenance Works		100%	0 25-Aug-10 A		♦ Tentative Start Date for SA30A Route Maintenance Works								
S30G7000	Tentative Start Date for SA30 Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tentative Start Date for SA30 Route Maintenance Works								
S31G7000	Tentative Start Date for SA31 Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tentative Start Date for SA31 Route Maintenance Works								
	(Subject to Excision and Instruct by Engineer within 819 days)		10070	0 20 : 00 : 10 : 1			· - - - - - - - - - - - - - - - - -							
	(Subject to Excision and instruct by Engineer within 619 days)													
General			1000	010 05 5 1 10 1		<u> </u>	<u> </u>							
SC150025	Validity Period		100%	819 25-Feb-10 A	-	_ 	Validity Period							
SC150030	Latest Date for the Engineer to Issue El		100%	0	31-Aug-13 A		♦ Latest Date for the Engi							
	SA28 & SA30													
PHSA2840	Possession of SA28 & SA30		100%	0 26-Feb-10 A		Possession of SA28 & SA30								
SA280005	Site Area SA28 Works Period		100%	0 24-May-12 A	31-Aug-13 A		Site Area SA28 Works F							
SA280020	Site Area SA28 & SA30 Works Completion		100%	0	31-Aug-13 A		Site Area SA28 & SA30							
All Area														
Preliminar	ies													
S28N1000	Site Clearance/TTM/Access Rd/Utility Diversion		100%	45 24-May-12 A	26-Sep-13 A		Site Clearance/TTM/A							
Site Area S	SA30A													
PHSA30A5	Possession of SA30A		100%	0 27-Jul-10 A		♦ Possession of \$A30A								
SA30A005	Site Area SA30A Works Period		100%	155 23-May-12 A	31-Aug-13 A		Site Area SA30A Works							
SA30A020	Site Area SA30A Works Completion		100%	0	31-Aug-13 A		Site Area SA30A Works							
North Bou	und						-+							
Preliminar	ies													
S30AN100	Site Clearance/TTM/Access Rd/Utility Diversion		100%	75 14-May-12 A	23-May-12 A	☐ Site Clearance/TTM/Acces	s Rd/Utility Diversion							
Roadwork	s, Drainage & Utilities			'	<u>'</u>									
S30AN415	Section 17 subject to Excision Works Instruction date (Trunk Sewer Line)		100%	245 23-May-12 A	20-Sep-13 A		Section 17 subject to E							
S30AN420	Issung of latest design drawing		100%	75 24-May-12 A	05-Sep-12 A	Issung of latest desi	gḥ drawing							
S30AN430	Procurement & delivery of Trunk Sewer pipe (Stage 1)		100%	75 06-Sep-12 A	17-Sep-12 A	D Procurement & del	livery of Trunk Sewer pipe (Sta							
S30AN440	Design clarification period		100%	60 06-Sep-12 A	31-Jul-13 A		Design clarification period							
S30AN450	Procurement & delivery of Trunk Sewer pipe (Stage 2)		100%	75 01-Nov-12 A	31-Jul-13 A		Procurement & delivery of							
S30AN460	Underground Utilities cable detection before ELS works		100%	60 17-Aug-12 A	24-Aug-12 A	I Underground Utilities	s cable detection before ELS v							
S30AN470	Gravity Sewer Line STS10_170 to 160 (22m Long)		100%	90 05-Dec-12 A	06-Feb-13 A	Gravity \$	Sewer Line ST\$10_170 to 160							
S30AN480	M/H 170 and M/H160 construction (6m depth)		100%	75 05-Dec-12 A	23-Jan-13 A	M/H₁170	and M/H160 construction (6m							
S30AN490	Pipe laying and concrete surround works		100%	60 05-Dec-12 A	07-Jan-13 A	Pipe laying	and concrete surround works							
S30AN500	Backfilling (2 Layers + Temp fill)		100%	30 08-Jan-13 A	06-Feb-13 A	□ Backfillin	g (2 Layers + Temp fill)							
S30AN510	Gravity Sewer Line STS10_160 to 150 (40m Long)		100%	95 27-Feb-13 A	23-Sep-13 A		Gravity Sewer Line \$7							
S30AN520	M/H150 construction (5m depth)		100%	40 27-Feb-13 A	16-Mar-13 A		50 construction (5m depth)							
S30AN530	Pipe laying and concrete surround works (Stage 1)		100%	25 18-Mar-13 A	30-Apr-13 A		pe laying and concrete surrour							
S30AN540	Construction of Temporary Access for Villager		100%	8 30-Apr-13 A	10-May-13 A		onstruction of Temporary Acce							
\$30AN415 \$30AN420 \$30AN420 \$30AN430 \$30AN440 \$30AN450 \$30AN460 \$30AN470 \$30AN480 \$30AN500 \$30AN500 \$30AN520 \$30AN520 \$30AN550 \$30AN550 \$30AN550 \$30AN550	Pipe Laying and concrete works (Stage 2)		100%	21 13-May-13 A	14-Sep-13 A		Pipe Laying and concre							
S30AN560	Backfilling (15 Layers)		100%	8 27-Jul-13 A	23-Sep-13 A	7::::::::::::::::::::::::::::::::::::::	Backfilling (15 Layers)							
S30AN570	Gravity Sewer Line STS10_120 to 130 (41m Long)		100%	120 17-Sep-12 A	03-Jan-13 A	Gravity Sev	wer Line STS10_120 to 130 (4							
S30AN580	M/H 120 and M/H130 construction (3.5m & 4m depth)		100%	70 24-Sep-12 A	12-Oct-12 A	□ M/H 1/20 and M/t	H130 construction (3.5m & 4m							
S30AN585	Pipe Laying & concrete surround works		100%	30 14-Nov-12 A	20-Nov-12 A	II. Pipe Laying &	concrete surround works							
		J												

	Activity Namo	<u> </u>	Activity 0/		.1	1	0010 0011 0010 0010										0044							
Activity ID	Activity Name	Total	Activity %	Original		Finish		2010	3 0	4 0	1 0	2011		<u>ν</u>	01	20		04	01		013	04		2014 Q2 Q3
		Float	Complete	Duration																				5 5 5 5
S30AN590	Backfilling (15 Layers)		100%	20	21-Nov-12 A	03-Jan-13 A		 	111	111	 	+++			 	+ + 1					(15 Lay			
S30AN600	Gravity Sewer Line STS10_130 to 140 (40m Long)		100%	88	08-Jan-13 A	18-Mar-13 A														Gra	vity Sew	er Line	sTS1	0_130 to
S30AN610	M/H 140 construction (4.5m depth)		100%	40	08-Jan-13 A	19-Jan-13 A	1 1 1			1 1 1						- +		-	0 N	I/H 140) constru	iction (4.5m d	lepth)
S30AN620	Pipe Laying & concrete Surround works		100%	40	14-Jan-13 A	28-Jan-13 A													0 F	Pipe La	ying & c	oncrete	e Surro	pund work
S30AN630	Backfilling (12 Layers)		100%	25	01-Mar-13 A	18-Mar-13 A														Bac	kfilling (1	2 Laye	ers)	
S30AN640	Gravity Sewer Line STS10_140 to 150 (38m Long)		100%	80	28-Feb-13 A	18-May-13 A														 	Gravity	Sewer	Line \$	STS10_140
S30AN650	Pipe Laying and concrete surround works		100%	50	28-Feb-13 A	18-Mar-13 A														Pipe	Laying	and co	ncrete	surround
S30AN660	Backfilling (15 Layers)		100%	30	22-Mar-13 A	18-May-13 A	-111					-111-						- 	- - 		Backfillir	ng (15	Layers	s)
S30AN670	Gravity Sewer Line STS10_120 to 110 (33m Long)		100%	205	03-Aug-12 A	17-Nov-12 A													Gravit	y Sewe	er Line S	TS10	_120 to	110 (33m
S30AN680	M/H 110 construction (2.7m depth)		100%	30	03-Aug-12 A	15-Sep-12 A												M/H	110 c	onstru	tion (2.7	m dep	oth)	
S30AN690	Pipe laying and concrete surround works		100%	40	06-Oct-12 A	26-Oct-12 A												□ P	ipe lay	ing an	d concre	te surr	round v	works
S30AN700	Backfilling (9 Layers)		100%	20	01-Nov-12 A	17-Nov-12 A													Backfi	lling (9	Layers)			
S30AN710	Gravity Sewer Line STS10_100 to 105a (56.5m Long)		100%	75	03-Aug-12 A	15-Dec-12 A	-111				1 1 1	- -				- +		-	Gra	vity Se	wer Line	STS1	0_100	to 105a (
S30AN720	M/ H 100, M/ H 105 and M/ H 105a construction (2.5m depth)		100%	45	03-Aug-12 A	27-Jun-13 A													1 1 1	1 1 1	□ M/H	100, N	и/H 10	05 and M/
S30AN730	Pipe Laying and concrete surround works		100%	50	17-Sep-12 A	06-Oct-12 A												Pip	e Lay	ing and	l concre	te surr	ound w	vorks
S30AN740	Construction of temporary access for Villager		100%	30	08-Oct-12 A	22-Oct-12 A												ОС	onstru	ction o	f tempor	ary ac	cess fo	or Villager
S30AN750	Backfilling (5 Layers)		100%	25	24-Oct-12 A	15-Dec-12 A													Bac	kfilling	(5 Layer	s)		
S30AN760	Gravity Sewer Line STS10_105a to 110 and STS10_105 to STS10_105a		100%	8	24-Jun-13 A	13-Aug-13 A	1 1 1			1-1-1-	1 1 1					- +	1 1	-	- - 		— G	ravity \$	Sewer	Line ST\$1
S30AN770	Modification of existing DN2200 valve chamber		100%	1	09-Sep-13 A	17-Sep-13 A															0	Modif	ication	of existing
S30AN780	Pipe Laying and concrete surround works (2.5m depth)		100%	26	24-Jun-13 A	05-Aug-13 A															Pi	pe Lay	ing and	d concrete
S30AN790	Backfilling (7 Layers)		100%	7	06-Aug-13 A	13-Aug-13 A															I B	ackfillin	ng (7 La	ayers)

APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Air Quality during	• Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V
Construction	• All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		V
	• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V
	All spraying of materials and surfaces shall avoid excessive water usage.		V
	• Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V
	Materials shall be dampened, if necessary, before transportation.		V
	• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and resuspension within the site from the operating haul trucks.		V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V

Noise - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Noise during	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During	V
Construction	Reduce the number of equipment and their percentage on-time.	construction	V
	• 3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V
	• 3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V
	• 2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		In progress
	• 2.5 m high temporary noise barrier along TaiWo Service Road West (Figure 2c of the Environmental Permit).		V
	3.5m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure2c of the Environmental Permit).		In progress

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Water Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Water quality	Demolition and reconstruction of bridges	During	
during	Prevent off-site migration through use of sheet piles.	construction	V
Construction	Minimize duration of works as far as practical.		V
	All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains.		V
	• Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains.		V
	River training works		
	Inspection and testing of water quality in the nullah on the Tai Po River.		N/A
	Road Widening Works and Earthworks		
	 Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. 		V
	Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.		V
	• Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls.		V
	• Regular inspections of stilling basins and/or silt traps are required to ensure that sediment is not conveyed into the existing drainage system.		V
	Open stockpiles should be covered with a tarpaulin cover.		V
	• During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.		V
	• Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.		V
	Fuels should be stored in bunded areas such that spillage can be easily collected.		V

Waste - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Waste	General Waste	During	
Management	Transport of wastes off site as soon as possible.	construction	@
during	Maintenance of accurate waste records		V
Construction	Minimization of waste generation for disposal (via reduction/recycling/re-use).		V
	No on-site burning will be permitted.		V
	Use of re-useable metal hoardings/signboards.		V
	Vegetation from site clearance		
	Segregation of materials to facilitate disposal.		V
	 Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within 		V
	landscaping areas.		
	Demolition Wastes		
	Segregation of materials to facilitate disposal.		V

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Appropriate stockpile management.	V
Excavated Materials	
Segregation of materials to facilitate disposal / reuse.	V
Appropriate stockpile management.	V
Re-use of excavated material on or off site (where possible).	V
 Special handling and disposal procedures in the event that contaminated materials are excavated. 	N/
Construction Wastes	
 Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). 	\
Appropriate stockpile management.	\
Planning to reduce over ordering and waste generation.	\
Recycling and re-use of materials where possible (e.g. metal, wood from formwork)	\
• For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.	\
Bentonite Slurries	
Bentonite slurries should be reused as far as possible.	N/
Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.	N/
Chemical Wastes	
Storage within locked, covered and bunded area.	(
The storage area shall not be located adjacent to sensitive receivers e.g. drains.	\
Minimize waste production and recycle oils/solvents where possible.	\
A spill response procedure shall be in place and absorption material available for minor spillages.	\
Use appropriate and labelled containers.	0
Educate site workers on site cleanliness/waste management procedures.	\
• If chemical wastes are to be generated, the contractor must register with EPD as a Chemical Waste Producer.	\
The chemical wastes shall be collected by a licensed chemical waste collector.	\
Municipal Wastes	
Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	\
Regular, daily collections are required by an approved waste collector.	\

Ecology - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology	Accurate Delineation of Works Area	During	
during Construction	• Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.	construction	V
	• Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximize protection.		V
	Vegetation Clearance		
	• No fires shall be lit within the works area for the purpose of burning cleared vegetation.		V
	• The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area /		V

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adjacent land.		
Dust generation		
 Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; 		V
 All temporary site access roads shall be sprayed with water to suppress dust as necessary; 		V
All dusty materials should be sprayed with water immediately prior to any handling; and		V
All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.		V
Surface Run-off	1	
Bund and cover stockpiles to avoid run-off;		V
Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;		V
All vehicle maintenance to be undertaken within a bunded area; and		N/A
Maximize vegetation retention on-site to maximize absorption (minimize transport).		V

Landscape and Visual Impact - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Landscape	Preservation of Existing Vegetation	During	
and Visual	• Trees identified for retention within the project limit would be protected during the works	construction	@
Impact	The tree transplanting and planting works shall be implemented by approved Landscape Contractors		V
during	Temporary Works Areas		
Construction	Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V
	Hoarding		
	 A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSR's. 		V
	Top Soils		
	 The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis. 		N/A
	Protection of Important Landscape Features		
	 Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected. 		V

Legend: V = implemented; x = not implemented;

@ = partially implemented; N/A = not applicable - No such work was undertaken or no such material was used on site.

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APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level		
AM1A	302.1 μg/m3	500 μg/m3		
AM2	301.9 μg/m3	500 μg/m3		
AM3	301.9 μg/m3	500 μg/m3		
AM4A	302.3 μg/m3	500 μg/m3		

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level		
AM1A	176.6 μg/m3	260 μg/m3		
AM2	178.6 μg/m3	260 μg/m3		
AM3	193.1 μg/m3	260 μg/m3		
AM4A	198.5 μg/m3	260 μg/m3		

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level		
NM1A	When one documented	75 dB(A)		
NM2	complaint, related to 0700 –	75 dB(A)		
NM3	1900 hours on normal	65/70 dB(A)*		
NM4		75 dB(A)		
NM5	weekdays, is received	75 dB(A)		
NM6	from any one of the sensitive	70 dB(A)*		
NM7	receivers	75 dB(A)		

^{*}Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

APPENDIX E
CALIBRATION CERTIFICATES OF
MONITORING EQUIPMENTS

Station	Sheung Wun Yiu	ı (AM1A)		Operator:	Gary	Choi	
Cal. Date:	15-Jan-14			Next Due Date:	15-M	*1	
Equipment No.:	A-001-53T			Serial No.	102	216	1
99							i.
				Condition			
Temperatu	re, Ta (K)	289	Pressure, I	Pa (mmHg)		767.0	
			Orifice Transfer S	tandard Information	on		
Seria	l No:	988	Slope, mc	1.94727	Interce	ept, bc	0.02332
Last Calibra	ation Date:	20-May-13		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}	
Next Calibra	ation Date:	20-May-14			Pa/760) x (298/Ta)]		
				of TSP Sampler	10.4		
Resistance		C	rfice	-	HV	S Flow Recorder	
Plate No.	DH (orifice)		Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFM		
18	8.9		3.04		46.0	46.93	
13	6.0		2.50		37.0	37.74	
10	4.4		2.14		31.0	31.62	
7	3.6		1.94		28.0	28.56	
5	2.1		1.48	0.75	22.0	22.44	
By Linear Regre Slope , mw = Correlation Coe	30.7427	_	9966	Intercept, bw =	-1.2	068	6
*If Correlation Co	efficient < 0.990,	check and recalit	orate.	_			
			Set Point	Calculation			
From the TSP Fie	eld Calibration Cu	rve, take Qstd =	1.30m³/min			,	
From the Regress	sion Equation, the	e "Y" value accord	ding to		8 1		
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Γa)] ^{1/2}		
				, , ,	·•		
Therefore, Set Po	oint; IC = (mw x 0	Qstd + bw) x [(76	60 / Pa) x (Ta / 29	08)] ^{1/2} =	[-	37.99	
	4						
Remarks:							
*		- A15 - 41					
1	1	A		PI		,//	1
QC Reviewer:	WS CHI	TV_	Signature:	4		Date:	114

Station	Shan Tong New	Village (AM2)		Operator:	Gary	Choi	
Cal. Date:	15-Jan-14			Next Due Date:	15-M	ar-14	
Equipment No.:	A-001-29T			Serial No.	102	10202	
			Ambient	Condition			
Temperatu	re, Ta (K)	289	Pressure,	Pa (mmHg)		767.0	
						g 6	
		(Orifice Transfer S	tandard Information	on		
Serial	No:	988	Slope, mc	1.94727	Interce		0.02332
Last Calibra	ation Date:	20-May-13		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}	
Next Calibra	ation Date:	20-May-14		$Qstd = \{[DH x ($	Pa/760) x (298/Ta)]	^{1/2} -bc} / mc	
		,		199			
			Calibration of	of TSP Sampler			
Orfice				_	HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	. I III V (Da)/6(1) V (7)Q8/1 a)1		Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF	
18	10.0		3.23		46.0	46.93	3
13	7.5		2.79		41.0	41.82	2
10	5.5		2.39		35.0	35.70)
7	3.8		1.99		28.0	28.56	
5	2.5		1.99 1.0° 1.61 0.82		23.0	23.46	
By Linear Regre Slope, mw = Correlation Coef	29.0506 fficient* =	_	9958 orate.	Intercept, bw =	-0.2	010	_
				Calculation			
		urve, take Qstd =			4	,	
From the Regress	sion Equation, th	e "Y" value accord	ling to				
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)1 ^{1/2}		
				I() v (=	concy.		
Therefore, Set Po	oint; IC = (mw x	Qstd + bw) x [(76	60 / Pa) x (Ta / 29	98)] ^{1/2} =		36.82	
	100					.	<u> </u>
	\$						
Remarks:					s		
6						***	3)
							1
QC Reviewer:	WS CHA	N	Signature:	**		Date: 16/1	114

Station	Riverain Bayside	e (AM3)		Operator:	Choi W	/ing Ho	
Cal. Date:	22-Dec-13			Next Due Date:	22-Fe		
Equipment No.:	A-001-69T	_		Serial No.	7	716	
			Ambien	t Condition			
Temperatu	ire, Ta (K)	289	Pressure,	Pa (mmHg)		756.9	
			, , ,				
			Orifice Transfer S	Standard Information	on		
Seria	l No:	988	Slope, mc	1.94727	Interce	ept, bc	0.02332
Last Calibra	ation Date:	20-May-13		mc x Qstd + bc	= $[DH \times (Pa/760) \times$	(298/Ta)] ^{1/2}	
Next Calibra	ation Date:	20-May-14		$Qstd = \{[DHx]\}$	Pa/760) x (298/Ta)]	^{1/2} -bc} / mc	
			Calibration of	of TSP Sampler			
20,000	3, 3, 5, 1, 5	C	rfice		HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)] ^{1/2}		60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CF	
18	8.8	3.01		1.53	47.0	47.63	3
13	7.3	2.74		1.39	43.0	43.58	3
10	5.6		2.40 1.22		35.0	35.47	
7	3.9	2.00		1.02	26.0	26.35	
5	2.9		1.73	0.87	22.0	22.29	9
By Linear Regre Slope, mw = Correlation Coe	40.2648 fficient* =	0.s	9943	Intercept, bw =	-13.5	5403	-
ii Correlation Co	emolent < 0.990,	CHECK AND TECAN	Jiale.				
				Calculation			
From the TSP Fie	eld Calibration Cu	rve, take Qstd =	1.30m³/min				
From the Regress	sion Equation, the	e "Y" value accord	ding to				
					1/2		
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Га)]"²		
Therefore Set Pr	oint: IC = (mw v (Detd + hw) v [/ 76	60 / Pa) x (Ta / 29	28 \1 ^{1/2} =		38.29	
merelore, secre	Jilli, IO – (IIIW X C	asia i bw) x [(/ i	00/1 a / X (1a / 28	90)] =	,-		- ``.
						<u> </u>	
Remarks:							
3							

Station	Riverain Bayside	e (AM3)		Operator:	Choi W	/ing Ho	
Cal. Date:	18-Feb-14			Next Due Date:	18-M		
Equipment No.:	A-001-69T	_		Serial No.		16	
						- Wil	
			Ambient	Condition			
Temperatu	ıre, Ta (K)	290	Pressure, F	Pa (mmHg)		762.4	
			Orifica Transfer S	tandard Information	1		
Seria	ıl No:	988	Slope, mc	1.94727		ept, bc	0.02332
Last Calibra		20-May-13	Olopo, mo		= [DH x (Pa/760) x		0.02002
Next Calibr		20-May-14			Pa/760) x (298/Ta)]		
TYOK! GUIIDI	ation bate.		22	dota (ISHA)	arroof x (200114)]	20,71110	
			Calibration o	of TSP Sampler			
		(Orfice		HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)] ^{1/2}		Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFM		
18	8.9		3.03		46.0	46.70	
13	7.5		2.78		43.0	43.66	
10	5.6		2.40		34.0	34.52	
7	4.0		2.03		27.0	27.41	
5	3.0		1.76	0.89	21.0	21.32	
Slope , mw = Correlation Coe	assion of Y on X 39.7791 officient* =	0.	.9949 ibrate	Intercept, bw =	-13.7	8329	
n contolation co	,						
				Calculation			
From the TSP Fi	eld Calibration Co	urve, take Qstd =	1.30m ³ /min				
From the Regres	ssion Equation, th	e "Y" value accor	rding to				
,		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Γa)] ^{1/2}		
Therefore, Set P	oint; IC = (mw x	Qstd + bw) x [(7	760 / Pa) x (Ta / 29	98)] ^{1/2} =		37.31	
-	-	1900		a - 1 - 2 - 1			
5							
Remarks:				**			-
,							
QC Reviewer:	t Sun		Signature:	4	g 120	Date: 20 - 2 -	14

tion 1	68 Shek Kwu Lur	ng Village (AM4A	.)	Operator: Next Due Date:	15-Mar-14		
Date:	15-Jan-14			Serial No.	1027		
ipment No.:	A-001-70T			Seliai No			
			Ambient (Condition		707.0	
Temperature	e Ta (K)	289	Pressure, P	a (mmHg)		767.0	
Temporator	0, 14 (17			,			
			Orifice Transfer St	andard Information	1	ot bc 0.02332	
Serial	No:	988	Slope, mc	1.94727	Interce	01, 00	
Last Calibra		20-May-13		mc x Qstd + bc =	= [DH x (Pa/760) x (298/1a)]	
Next Calibra		20-May-14		Qstd = {[DH x (F	a/760) x (298/Ta)] ¹	bc} / mc	
- NGAL GAILDIG	duoii Duite						
			Calibration o	f TSP Sampler	N. Carlotte		
			Orfice		HVS	Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	, IDH x (Pa/760) x (298/Ta)		Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
			3.06	1.56	46.0	46.93	
18	9.0		2.78	1.41	42.0	42.84	
13	7.4	-	2.28	1.16	35.0	35.70	
10	5.0		1.85	0.94	27.0	27.54	
7	3.3		1.61	0.82	23.0	23.46	
5							
	() (- m)	v					
	ression of Y on)	^		Intercept, bw =	-2.	0528	
Slope , mw =	31.7150		0.9964				
Correlation Co	pefficient" =						
*If Correlation C	Coefficient < 0.99	U, CHECK and Tec	and ato.				
			Set Poir	nt Calculation			
	Field Calibration	Curve, take Osto	AND REAL PROPERTY AND PROPERTY				
From the 1SP	Field Calibration	the "V" value ac	cording to				
From the Regr	ession Equation,						
		r	nw x Qstd + bw =	C x [(Pa/760) x (29	8/Ta)] ^{1/2}		
						. 20.40	
		Oatd I but \ v	(760 / Pa) x (Ta /	298)] ^{1/2} =		38.40	
Therefore Set	t Point: IC = (mw	X QSIQ + DW) X					
Therefore, Set	t Point; IC = (mw	X QSta + DW) X					
Therefore, Set	t Point; IC = (mw	X QStd + bw) x					
Therefore, Set	t Point; IC = (mw	X QStd + DW) X				,	
Therefore, Set						,	
						Date: 16/1/10	



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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M Operator		Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	297 751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.3900 0.9720 0.8670 0.8270 0.6800	3.2 6.4 7.9 8.7 12.6	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9884 0.9842 0.9821 0.9811 0.9759	0.7110 1.0125 1.1327 1.1863 1.4352	1.4090 1.9926 2.2278 2.3365 2.8179	0.9957 0.9915 0.9894 0.9884 0.9832	0.7163 1.0201 1.1412 1.1952 1.4459	0.8889 1.2570 1.4054 1.4740 1.7777
Qstd slo intercer coeffici y axis =	ot (b) = ient (r) =	1.94727 0.02332 0.99998 	Qa slop intercep coeffici y axis =	t (b) =	1.21935 0.01471 0.99998

CALCULATIONS

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

Qstd = Vstd/Time

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

Qa = Va/Time

For subsequent flow rate calculations:

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

Model No.: Equipment No.: Sensitivity Adjustment S			SIBATA	st Mon	itor					
		2	LD-3							
Sensitivity Adjustment S		_	A.005.09a							
	cale Setting	g: _	797 CPM							
Operator:		-	Mike She	k (MSKI	M)					
Standard Equipment										
Equipment:	Ruppre	echt & Pa	tashnick i	TEOM®						
Venue:	Cyber	ort (Pui `	Ying Seco	ndary S	chool)					
Model No.:	Series	1400AB]							
Serial No:	Contro	1: 14	0AB21989	9803						
	Senso	r: 120	00C14365	9803	K _o : 12500					
Last Calibration Date*:	18 Maj	2013								
Remarks: Recommended	d interval fo	r hardwa	re calibrat	ion is 1	year					
alibration Result										
Sensitivity Adjustment So Sensitivity Adjustment So					797 CP					
Hour Date (dd-mm-yy)	Time	Time		ient ition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³			
			Temp (°C)	R.H. (%)	Y-axis		X-axis			
1 18-05-13	12:30 -	13:30	28.1	78	0.04714	1885	31.42			
2 18-05-13	13:30 -	14:30	28.1	78	0.04932	1965	32.75			
	14:30 -	15:30	28.2	77	0.05156	2059	34.32			
	15:30 -	16:30	28.1	78	0.05083	2024	33.73			
ote: 1. Monitoring dat 2. Total Count w. 3. Count/minute y Linear Regression of Y Slope (K-factor): Correlation coefficient:	as logged l was calculator X	by Laser I	Dust Moni	tor	ashnick TEOM [®]					
Validity of Calibration Re	cord:	17 May 2	014							

Model	facturer/Brand: I No.:		-	Laser Dust Monitor SIBATA LD-3						
	ment No.: tivity Adjustment	Scale Se	ttina	<u>-</u>	A.005.10 753 CPI					
Opera		Ocale Co	ung	_	Mike She	Jan J	M)			
Standa	rd Equipment									
Equip	ment:	Rui	ppre	cht & Pa	tashnick	TFOM®				
Venue					ing Seco		chool)		_	
Model	No.:			1400AB			30,500-7			
Serial	No:	Cor	ntrol:	140	DAB2198	99803				
Last C	Calibration Date*:		nsor: Mav	120 2013	00C1436	59803	K _o : 12500)		
	ks: Recommend				e calibra	tion is 1	year			
Calibra	tion Result									
	ivity Adjustment ivity Adjustment						753 CF			
Hour	Date (dd-mm-yy)	Ţ	Time		Amb Cond Temp (°C)	dition R.H. (%)	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute X-axis	
1	18-05-13	12:30	-	13:30	28.1	78	0.04714	1886	31.43	
2	18-05-13	13:30	(e)	14:30	28.1	78	0.04932	1968	32.80	
3	18-05-13	14:30	-	15:30	28.2	77	0.05156	2061	34.35	
4	18-05-13	15:30	-	16:30	28.1	78	0.05083	2026	33.77	
Slope	1. Monitoring d 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient:	was logge e was cal	ed by culat	Laser [Dust Mon	itor	ashnick TEOM [®]			
Validity	y of Calibration F	Record:	1	7 May 20	014					
Remarks	s:									
						6				

	Type:			Laser Du	ıst Moni	itor					
Manufacturer/Brand: Model No.: Equipment No.: Sensitivity Adjustment Scale Setting: Operator:				SIBATA LD-3 A.005.11a							
)								
			tina:	A.005.11a 799 CPM							
				Mike Shek (MSKM)							
Standar	rd Equipment										
14.5		Run	precht & Pa	atachnick	TEOM®						
Equipment: Venue:						chool)		_			
Model No.:			Cyberport (Pui Ying Secondary School) Series 1400AB								
Serial			Control: 140AB219899803								
				200C14365		K _o : 12500	-				
Last C	alibration Date*	18 A	May 2013								
*Remark	ks: Recommend	led interval	l for hardwa	are calibrat	tion is 1	year					
Calibrat	ion Result										
	vity Adjustment vity Adjustment					799 CF					
Hour	Date (dd-mm-yy)	Т	Time		oient dition R.H.	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count Minute X-axis			
				(°C)	(%)						
1	18-05-13	12:15	- 13:15	28.1	78	0.04685	1871	31.18			
3	18-05-13	13:15	- 14:15	28.1	78	0.04941	1979	32.98			
3	18-05-13	14:15	- 15:15	28.2	77 78	0.05127	2055	34.25			
	18-05-13	15:15	- 16:15	28.1		0.05060	2021	33.68			
4 Note:	1. Monitoring of	tata was m	leasured by	, , , , , , , , , , , ,	IL OL I CITE	ASTRIBUK TEOW					
4 Note: By Linea Slope (2. Total Count 3. Count/minu or Regression of (K-factor):	was logge te was calc	ed by Laser culated by (0.0015	Dust Mon	itor	ASTITION TECHNI					
4 Note: By Linea Slope (Correla	2. Total Count 3. Count/minu ar Regression of (K-factor): ation coefficient:	was logge te was cald Y or X	ed by Laser culated by (0.0015 0.9976	Dust Mon Total Cour	itor	ASTITION TECHNI					
4 Note: By Linea Slope (Correla	2. Total Count 3. Count/minu or Regression of (K-factor):	was logge te was cald Y or X	ed by Laser culated by (0.0015	Dust Mon Total Cour	itor	ASTITION TECHNI					

Type: Manufacturer/Brand: Model No.: Equipment No.: Sensitivity Adjustment Scale Setti			e	SIBATA LD-3B A.005.13		itor		
Sensitivity Adjustment Scale Setting: Operator:				Mike She		M)		
Standa	rd Equipment		5101-0		2282			
Equipment: Rupprovents Serial No: Rupprovents			sor: 12 May 2013	Ying Seco 3 40AB2198 200C1436	ondary Se 99803 59803	K₀: <u>12500</u>)	
		eu iriterva		are calibra	1101115 1	yeai		
Sensit	tion Result tivity Adjustment tivity Adjustment				,		PM PM	
Hour	Date (dd-mm-yy)	Τ	ime		dition R.H.	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
1	18-05-13	12:15	- 13:15	28.1	78	0.04685	1867	31.12
2	18-05-13	13:15	- 14:15	28.1	78	0.04941	1975	32.92
3	18-05-13	14:15	- 15:15	28.2	77	0.05127	2048	34.13
4	18-05-13	15:15	- 16:15	28.1	78	0.05060	2017	33.62
Slope Correl	2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient: y of Calibration F	was logge te was cald Y or X	ed by Laser	Dust Mon Total Cou	itor	ashnick TEOM [®]		
Remark	S:							
QC Re	eviewer: YW F	ung	Signa	ature:	4/	Date	e: _20 Ma	y 2013

Type: Manufacturer/Brand: Model No.: Equipment No.:				Laser Du SIBATA LD-3B A.005.16		tor				
Sensitivity Adjustment Scale Setting:			-	521 CPN						
Operator:				Mike Shek (MSKM)						
Standa	rd Equipment									
Equip	mont:	Dunne	acht P Da	toobniek '	TEOM®					
Equipment: Rupprecht & Cyberport (F						chool)				
Venue: Cyberport (F Model No.: Series 1400				ring deco	nuary of	Shoon				
	Model No.: Series 1400. Serial No: Control:			140AB219899803						
Serial	140.	Senso		00C14365		K _o : 12500)			
Last C	alibration Date*:		The second second	70011000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
*Remar	ks: Recommend	ed interval fo	r hardwai	re calibrat	tion is 1	year				
Calibra	tion Result									
	ivity Adjustment ivity Adjustment						PM PM			
Hour	Date	Tim	е	Amb	pient	Concentration ¹	Total	Count/		
	(dd-mm-yy)			Cond	dition	(mg/m ³)	Count ²	Minute ³		
				Temp	R.H.	Y-axis		X-axis		
				(°C)	(%)					
1	27-07-13	11:00 -	12:00	27.3	75	0.04734	1893	31.55		
2	27-07-13	12:00 -	13:00	27.3	75	0.04789	1915	31.92		
3	27-07-13	13:00 -	14:00	27.4	74	0.04953	1976	32.93		
4	27-07-13	14:00 -	15:00	27.4	75	0.04867	1949	32.48		
	2. Total Count 3. Count/minu ar Regression of (K-factor):	was logged te was calcul Y or X	by Laser I	Dust Mon	itor	ashnick TEOM [®]				
	ation coefficient:		0.9934							
	y of Calibration F		26 July 20	014						
Remark	s:			4						
							4			
QC Re	eviewer: _YW I	-ung	Signa	ture:	4	Dar	te: _29 Jul	ly 2013		



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

13CA1107 01-02

Page:

of

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Rion Co., Ltd. NC-73

Type/Model No .: Serial/Equipment No.:

Adaptors used:

10307223 / N.004.08

Item submitted by

Curstomer:

AECOM ASIA CO., LTD.

Address of Customer:

Request No .: Date of receipt:

07-Nov-2013

Date of test:

08-Nov-2013

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	SCL
Preamplifier	B&K 2673	2239857	16-Apr-2014	CEPREI
Measuring amplifier	B&K 2610	2346941	24-Apr-2014	CEPREI
Signal generator	DS 360	61227	15-Apr-2014	CEPREI
Digital multi-meter	34401A	US36087050	10-Dec-2013	CEPREI
Audio analyzer	8903B	GB41300350	15-Apr-2014	CEPREI
Universal counter	53132A	MY40003662	15-Apr-2014	CEPREI

Ambient conditions

Temperature: Relative humidity:

Air pressure:

22 ± 1 °C 60 ± 10 % 1000 ± 10 hPa

Test specifications

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

11-Nov-2013

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd.

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

13CA1107 01-01

Page

Item tested

Description: Manufacturer: Sound Level Meter (Type 1)

Rion Co., Ltd.

Microphone Rion Co., Ltd.

Serial/Equipment No .:

NL-31 00320528 / N.007.03A UC-53A 90565

Adaptors used:

Type/Model No.:

Item submitted by

Customer Name: Address of Customer: AECOM ASIA CO., LTD.

Request No.:

Date of receipt:

07-Nov-2013

Date of test:

08-Nov-2013

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Signal generator Signal generator

Model:

DS 360

B&K 4226 DS 360

Serial No. 2288444

33873 61227 **Expiry Date:**

22-Jun-2014 15-Apr-2014

15-Apr-2014

Traceable to:

CIGISMEC CEPREI **CEPREI**

Ambient conditions

Temperature: Relative humidity: 22 ± 1 °C 60 ± 10 %

Air pressure:

1000 ± 10 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, replaced by an equivalent capacitance within a tolerance of +20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

11-Nov-2013

Company Chop:

The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

13CA0325 01-01

Page

2

Item tested

Description:

Sound Level Meter (Type 1)

of

Manufacturer:

B&K

Microphone **B&K**

Type/Model No.:

2238

4188

Serial/Equipment No .:

2285692

2250420

Adaptors used:

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No .:

Date of receipt:

25-Mar-2013

Date of test:

26-Mar-2013

Reference equipment used in the calibration

Description:

Model:

Serial No.

61227

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator Signal generator

B&K 4226 DS 360 DS 360

2288444 33873

22-Jun-2013 29-May-2013 29-May-2013

CIGISMEC CEPREI

CEPREI

Ambient conditions

Temperature:

22 ± 1 °C 60 ± 10 %

Relative humidity: Air pressure:

1000 ± 10 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2,

replaced by an equivalent capacitance within a tolerance of $\pm 20\%$

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian in/Feng Jun Qi

Date:

26-Mar-2013

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F, 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黄竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

13CA0305 01-01

Page

of

2

Item tested

Description: Manufacturer: Sound Level Meter (Type 1)

B & K

Type/Model No.:

B & K 2250-L

4950

Serial/Equipment No.:

2681366 (N. OII.01)

2665582

Microphone

Adaptors used:

-

-

Item submitted by

Customer Name: Address of Customer: AECOM ASIA CO LIMITED

Request No.:

-

Date of receipt:

05-Mar-2013

Date of test:

05-Mar-2013

Reference equipment used in the calibration

Description:

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator B&K 4226 DS 360 2288444 33873

23-May-2013 29-May-2013 CIGISMEC

Signal generator

DS 360

61227

29-May-2013

CEPREI CEPREI

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity:

60 ± 10 % 1000 ± 10 hPa

Air pressure:

1000 ± 10

Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

n/F

eng Jun Qi

Actual Measurement data are documented on worksheets.

Huang Jian M

Approved Signatory:

Date:

05-Mar-2013

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

APPENDIX F EM&A MONITORING SCHEDULES

Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation Impact Monitoring and Audit Schedule for February2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Feb
2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
			Site inspection			
			(Contract 1)	Site inspection		
			24-hour TSP	(Contract 2)		
			1-hour TSP & Noise			
9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
		24-hour TSP	Site inspection	Site inspection		
		1-hour TSP & Noise	(Contract 1)	(Contract 2)		
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
10-1 65	17-1 60	10-1 60	24-hour TSP*	20-1 60	21-1 60	22-1 60
	24-hour TSP*		(for AM2)	Site inspection		24-hour TSP
	(for AM1, AM3 and AM4)		Site inspection	(Contract 2)		1-hour TSP
	1-hour TSP & Noise		(Contract 1)	(00111110111111111111111111111111111111		
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
			Site inspection	Site inspection	24-hour TSP	
			(Contract 1)	(Contract 2)	1-hour TSP & Noise	
			, ,	, ,		

^{*} Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation Tentative Impact Monitoring and Audit Schedule for March 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Mar
2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar
2-10101	3-IVIAI	4-Mai	J-IVIAI	Site inspection	<i>1-</i> IVIdI	O-IVIAI
			Site inspection	(Contract 2)		
			(Contract 1)	24-hour TSP		
			(Oontract 1)	1-hour TSP & Noise		
9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
			Site inspection			
			(Contract 1)	Site inspection		
			24-hour TSP	(Contract 2)		
			1-hour TSP & Noise			
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
		24-hour TSP	Site inspection	Site inspection		
		1-hour TSP & Noise	(Contract 1)	(Contract 2)		
00.14	2414	05.14	00.14	07.14	00.14	20.14
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
	24-hour TSP		Site inspection	Site inspection		24-hour TSP
	1-hour TSP		(Contract 1)	(Contract 2)		1-hour TSP
	1-110ul 13F		(Contract 1)	(Contract 2)		1-110ul 13F
30-Mar	31-Mar					
	3. ma.					

APPENDIX G
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION

Appendix G Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM1A (Fan Sin Temple, 3 Sheung Wun Yiu G/F)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
5-Feb-14	10:21	74.9	73.6	72.7
11-Feb-14	10:00	72.7	74.1	70.8
17-Feb-14	9:40	80.6	82.4	81.5
22-Feb-14	11:08	80.5	81.7	82.3
28-Feb-14	9:56	73.7	75.1	74.3
	•		Average	76.7
			Min	70.8
			Max	82.4

1-hour TSP Monitoring Results at Station AM2 (12 Shan Tong New Village G/F)

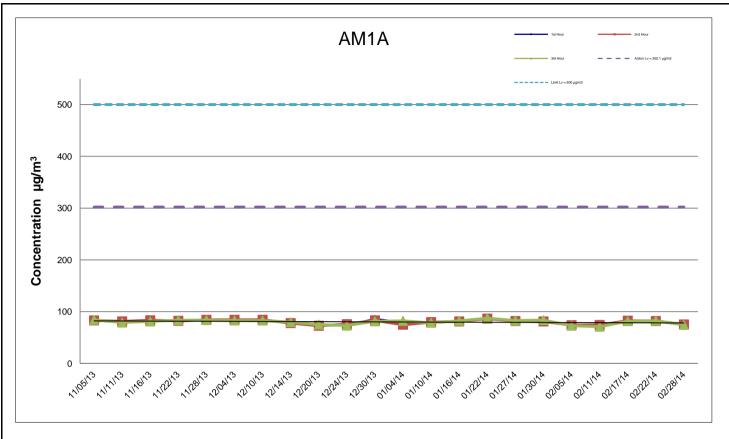
	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
5-Feb-14	10:09	74.4	73.6	72.1
11-Feb-14	10:10	71.1	72.9	73.3
17-Feb-14	9:50	79.6	84.2	82.6
22-Feb-14	10:55	83.0	81.6	82.2
28-Feb-14	9:42	75.5	76.1	75.1
			Average	77.2
			Min	71.1
			Max	84.2

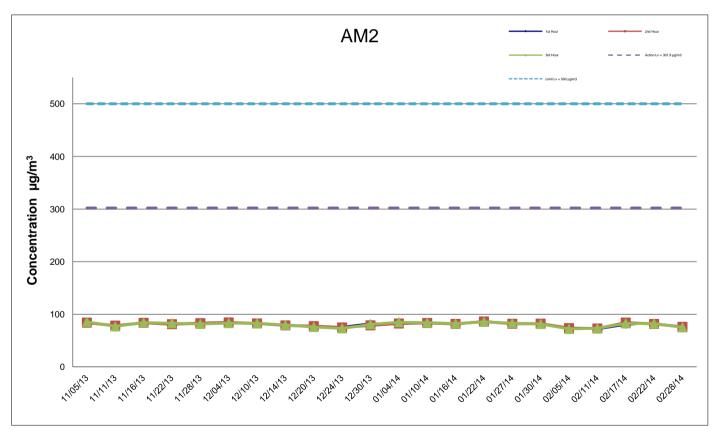
1-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
5-Feb-14	9:56	76.1	77.4	75.2
11-Feb-14	9:45	71.6	70.1	72.2
17-Feb-14	10:02	81.4	82.9	81.0
22-Feb-14	10:40	83.1	80.9	81.8
28-Feb-14	10:12	73.9	74.0	72.9
,			Average	77.0
			Min	70.1
			Max	83.1

1-hour TSP Monitoring Results at Station AM4A (Roof of Switch Room at 168 Shek Kwu Lung Village)

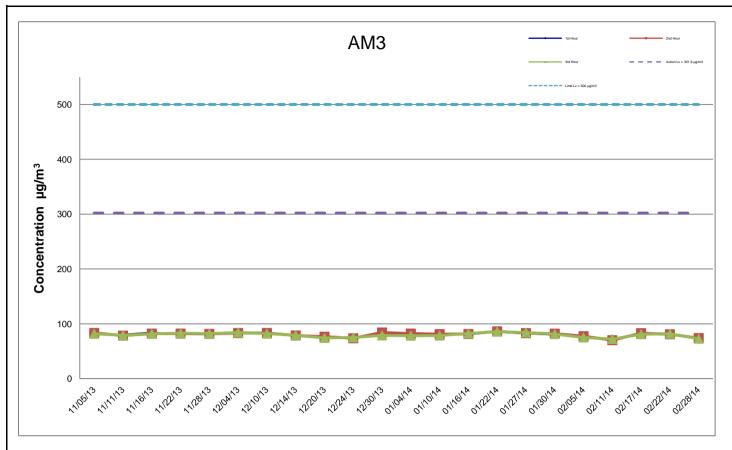
	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m ³)
5-Feb-14	10:48	73.4	72.9	71.6
11-Feb-14	10:35	69.8	72.3	73.4
17-Feb-14	10:15	84.6	82.1	83.2
22-Feb-14	11:26	82.7	81.6	80.9
28-Feb-14	10:36	78.2	77.4	76.8
			Average	77.4
			Min	69.8
			Max	84.6

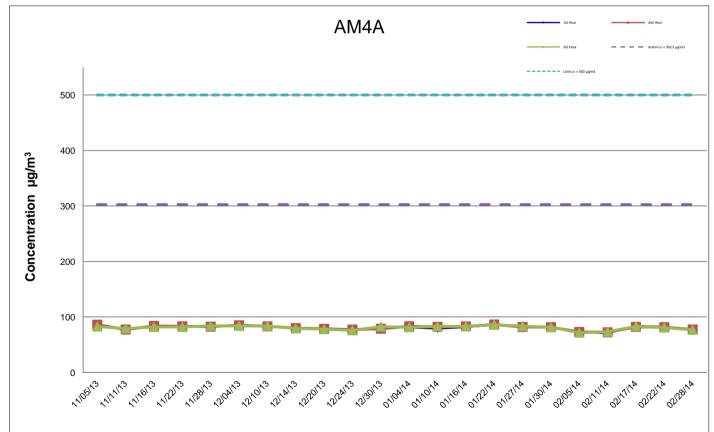




AECOM

between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-1	4	
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	JCYI	<	
Graphical Presentation of Impact 1-hour TSP Monitoring	JOB NO.		APPEND	IX No.	Rev.	
1 1		60102979	(G		





Remark: The monitoring station at Tai Kwong Secondary School (AM4) was relocated to 168 Shek Kwu Lung Village (AM4A) starting from 1 September 2011 due to the mentioned school was closed down.



Environmental Team for the widening of Tolo Highway	SCALE	N.T.S.	DATE	Mar-1	14	l
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	JCY	Κ	
Graphical Presentation of Impact 1-hour TSP Monitoring	JOB NO.		APPEND	IX No.	Rev.	l
Results		60102979	(G	-	

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM1A (Fan Sin Temple, 3 Sheung Wun Yiu G/F)

Date	Weather	Air	Atmospheric	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
5-Feb-14	Fine	17.1	1013.9	1.33	1.33	1.33	1916.6	2.6867	2.7644	0.0777	20523.46	20547.46	24.00	40.5
11-Feb-14	Fine	8.4	1019.9	1.33	1.33	1.33	1916.6	2.5431	2.5973	0.0542	20547.46	20571.46	24.00	28.3
17-Feb-14	Fine	17.6	1018.1	1.33	1.33	1.33	1916.6	2.7140	2.7846	0.0706	20571.46	20595.46	24.00	36.8
22-Feb-14	Fine	14.7	1023.0	1.33	1.33	1.33	1916.6	2.5380	2.6297	0.0917	20595.46	20619.46	24.00	47.8
28-Feb-14	Fine	18.3	1017.0	1.33	1.33	1.33	1916.6	2.6631	2.7100	0.0469	20619.46	20643.46	24.00	24.5
													Average	35.6
													Min	24.5
													Max	47.8

24-hour TSP Monitoring Results at Station AM2 (12 Shan Tong New Village G/F)

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
5-Feb-14	Fine	17.1	1013.9	1.34	1.34	1.34	1925.3	2.6644	2.7348	0.0704	17095.12	17119.12	24.00	36.6
11-Feb-14	Fine	8.4	1019.9	1.34	1.34	1.34	1925.3	2.7382	2.8104	0.0722	17119.12	17143.12	24.00	37.5
19-Feb-14	Fine	10.0	1021.5	1.34	1.34	1.34	1925.3	2.7180	2.7989	0.0809	17143.12	17167.12	24.00	42.0
22-Feb-14	Fine	14.7	1023.0	1.31	1.31	1.31	1882.1	2.6562	2.6660	0.0098	17167.12	17191.12	24.00	5.2
28-Feb-14	Fine	18.3	1017.0	1.34	1.34	1.34	1925.3	2.6692	2.7228	0.0536	17191.12	17215.12	24.00	27.8
													Average	29.8
													Min	5.2
													Max	42.0

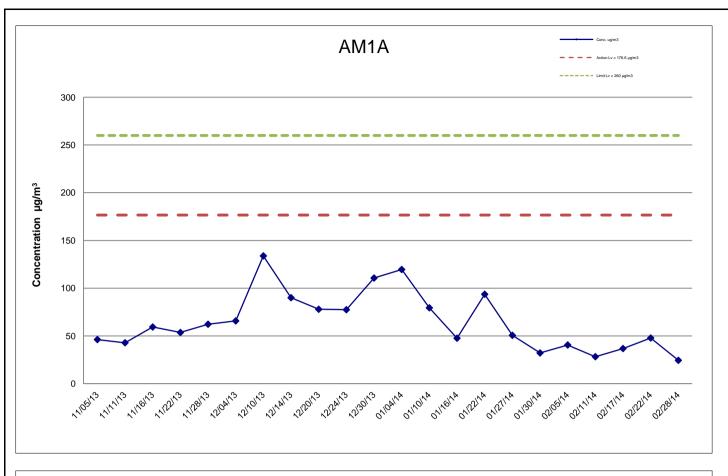
Remarks: Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

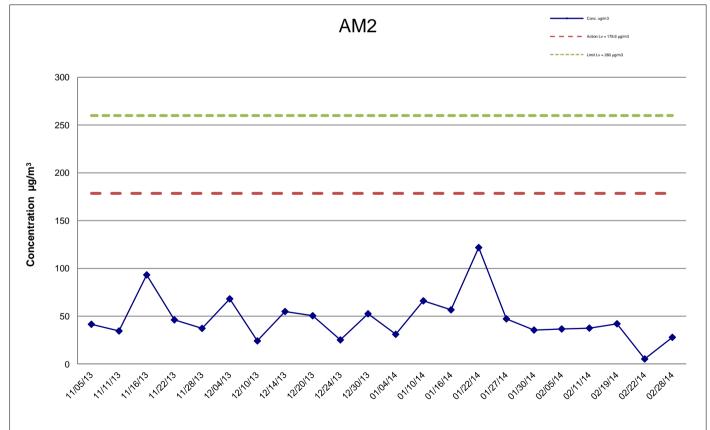
24-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
5-Feb-14	Fine	17.1	1013.9	1.33	1.33	1.33	1921.0	2.6388	2.7276	0.0888	20824.59	20848.59	24.00	46.2
11-Feb-14	Fine	8.4	1019.9	1.33	1.33	1.33	1921.0	2.7180	2.8311	0.1131	20848.59	20872.59	24.00	58.9
17-Feb-14	Fine	17.6	1018.1	1.33	1.33	1.33	1921.0	2.7353	2.8293	0.0940	20872.59	20896.59	24.00	48.9
22-Feb-14	Fine	14.7	1023.0	1.33	1.33	1.33	1921.0	2.6819	2.7805	0.0986	20896.59	20920.59	24.00	51.3
28-Feb-14	Fine	18.3	1017.0	1.33	1.33	1.33	1921.0	2.5192	2.6070	0.0878	20920.59	20944.59	24.00	45.7
													Average	50.2
													Min	45.7
													Max	58.9

24-hour TSP Monitoring Results at Station AM4A (Roof of Switch Room at 168 Shek Kwu Lung Village)

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m ³)
5-Feb-14	Fine	17.1	1013.9	1.33	1.33	1.33	1918.1	2.5990	2.6532	0.0542	16954.36	16978.36	24.00	28.3
11-Feb-14	Fine	8.4	1019.9	1.33	1.33	1.33	1918.1	2.7293	2.7953	0.0660	16978.36	17002.36	24.00	34.4
17-Feb-14	Fine	17.6	1018.1	1.33	1.33	1.33	1918.1	2.6951	2.7746	0.0795	17002.36	17026.36	24.00	41.4
22-Feb-14	Fine	14.7	1023.0	1.33	1.33	1.33	1918.1	2.6940	2.7841	0.0901	17026.36	17050.36	24.00	47.0
28-Feb-14	Fine	18.3	1017.0	1.33	1.33	1.33	1918.1	2.6613	2.7187	0.0574	17050.36	17074.36	24.00	29.9
													Average	36.2
													Min	28.3
													May	47 N

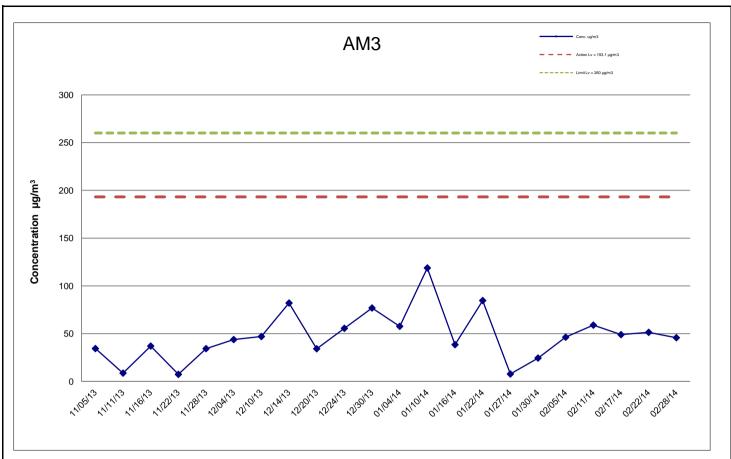


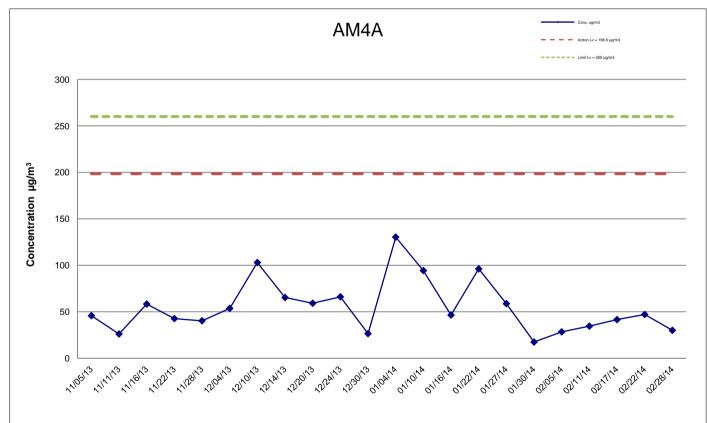


Remarks: Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

AECOM

Environmental Team for the Widening of Tolo Highway	SCALE	N.T.S.	DATE Mar-		4	
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	JCYI	\	
Graphical Presentation of Impact 24-hour TSP Monitoring Results	JOB NO.	60102979	APPEND	I X No. G	Rev.	





Remark: The monitoring station at Tai Kwong Secondary School (AM4) was relocated to 168 Shek Kwu Lung Village (AM4A) starting from 1 September 2011 due to the mentioned school was closed down.

AECOM

Environmental Team for the Widening of Tolo Highway	SCALE	N.T.S.	DATE	Mar-1	14	ĺ
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	JCY	K	
Graphical Presentation of Impact 24-hour TSP Monitoring	JOB NO.	60102979	APPEND	IX No.	Rev.	
Results		00102010	(G	-	

APPENDIX H
METEOROLOGICAL DATA FOR THE
REPORTING MONTH

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, February 2014

Date	Mean Pressure at M.S.L.	Ai	r Temperatu	ıre	Mean Dew Point Temperature	Rela	Relative Humidity			
	(hPa)	Max.	Mean	Min.	(deg C)	Max.	Mean	Min.		
		(deg C)	(deg C)	(deg C)		(%)	(%)	(%)		
1-Feb	*****	26.2	20.2	16.9	***	***	***	***		
2-Feb	*****	27.2	20.3	15.8	****	***	***	***		
3-Feb	*****	29.1	20.9	15.8	***	***	***	***		
4-Feb	*****	19.8	17.6	16.2	****	***	***	***		
5-Feb	*****	22.3	17.6	15.9	***	***	***	***		
6-Feb	*****	23.5	18.7	15.9	****	***	***	***		
7-Feb	*****	23.9	20.2	17.9	***	***	***	***		
8-Feb	*****	19.4	15.5	14.4	***	***	***	***		
9-Feb	*****	16.2	13.5	8.2	****	***	***	***		
10-Feb	*****	9.1	7.8	6.9	****	***	***	***		
11-Feb	*****	9.4	7.1	6.1	***	***	***	***		
12-Feb	*****	9.4	7.6	5.9	***	***	***	***		
13-Feb	*****	9.0	7.7	6.8	***	***	***	***		
14-Feb	*****	14.8	10	7.2	***	***	***	***		
15-Feb	*****	13.5	11.1	7.7	****	***	***	***		
16-Feb	*****	15.5	14.5	13.3	****	***	***	***		
17-Feb	*****	22.9	18	15.1	****	***	***	***		
18-Feb	*****	23.1	17	10.5	****	***	***	***		
19-Feb	*****	11.4	8.8	5.9	****	***	***	***		
20-Feb	*****	18.6	11.5	5.3	****	***	***	***		
21-Feb	*****	16.7	13.5	9.6	****	***	***	***		
22-Feb	*****	21	14.8	12	****	***	***	***		
23-Feb	*****	20.9	16.3	13.7	***	***	***	***		
24-Feb	*****	23.1	17.9	14.1	***	***	***	***		
25-Feb	*****	23.2	18.8	17.1	***	***	***	***		
26-Feb	*****	25.4	20.2	17.8	***	***	***	***		
27-Feb	*****	23.1	19.4	18	***	***	***	***		
28-Feb	*****	18.8	18	16.9	***	***	***	***		
Mean	*****	19.2	15.2	12.4	***	***	***	***		
Maximum	*****	29.1	20.9	18	***	***	***	***		
Minimum	*****	9.0	7.1	5.3	***	***	***	***		

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, February 2014

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Feb	0.0	70	5.3
2-Feb	0.0	260	4.6
3-Feb	0.0	150	4.8
4-Feb	0.0	90	20.5
5-Feb	0.0	90	12.5
6-Feb	0.0	60	8.5
7-Feb	0.0	60	6.3
8-Feb	0.5	50	9.6
9-Feb	6.0	40	16.0
10-Feb	1.0	30	14.3
11-Feb	0.0	40	10.9
12-Feb	1.5	50	8.6
13-Feb	10.0	30	7.9
14-Feb	0.0	20	11.4
15-Feb	0.0	40	10.4
16-Feb	0.0	80	13.5
17-Feb	0.0	60	6.3
18-Feb	0.0	260	9.3
19-Feb	6.5	20	17.7
20-Feb	0.0	110	6.2
21-Feb	0.0	90	18.3
22-Feb	0.0	50	16.2
23-Feb	0.0	70	16.3
24-Feb	0.0	50	12.6
25-Feb	0.0	70	9.5
26-Feb	0.0	60	4.5
27-Feb	0.0	70	14.0
28-Feb	0.0	90	12.5
Mean		50	11.0
Total	25.5		
Maximum	10.0		20.5
Minimum	0.0		4.5

^{***} unavailable

missing (less than 24 hourly observations a day)

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Extract of Meteorological Observations for Tai Po Automatic Weather Station, February 2014

Date	Mean Pressure at M.S.L.	Ai	r Temperatu	ıre	Mean Dew Point Temperature	Rela	Relative Humidity			
	(hPa)	Max.	Mean	Min.	(deg C)	Max.	Mean	Min.		
		(deg C)	(deg C)	(deg C)	, - ,	(%)	(%)	(%)		
1-Feb	1015.4	23.2	19.1	16.2	15.8	96	82	64		
2-Feb	1011.4	24.5	19.3	15	14.8	95	77	52		
3-Feb	1009.9	27.6	20.1	15.3	14	88	70	40		
4-Feb	1013.4	19.8	17.6	16.4	14.2	92	80	69		
5-Feb	1013.9	18.7	17.2	16.1	13.4	91	79	71		
6-Feb	1012.1	20.9	18.2	16.4	16	94	87	76		
7-Feb	1010.9	21.3	19.3	17.8	17.4	93	89	82		
8-Feb	1011.7	19.3	15.2	13.6	13	97	87	72		
9-Feb	1012.8	16.4	13.4	8.0	12.1	96	92	83		
10-Feb	1019.8	8.6	7.7	6.6	2.6	93	70	58		
11-Feb	1020.6	7.8	6.7	5.9	-0.2	68	61	53		
12-Feb	1019.4	8.0	6.6	4.9	3.8	94	83	64		
13-Feb	1022.2	8.0	6.8	5.9	4.6	94	86	65		
14-Feb	1022.6	13.9	9.5	6.7	2.6	75	62	45		
15-Feb	1020.9	13.9	10.7	7.6	5.8	82	72	65		
16-Feb	1018.6	15.7	14.5	13.7	11.9	92	85	74		
17-Feb	1018.1	19.6	17.2	15.2	16.1	97	93	84		
18-Feb	1016.7	22	16.3	10.8	14.4	98	89	70		
19-Feb	1022.4	11	8.9	7.0	3.6	94	70	53		
20-Feb	1025.2	17.6	10.6	4.4	2.7	84	61	26		
21-Feb	1024.8	15.4	12.9	8.9	7.8	93	72	54		
22-Feb	1023.4	17.1	14.6	13	8.7	81	68	48		
23-Feb	1022.9	18.7	16.2	14.5	11.3	86	73	53		
24-Feb	1020.7	20.5	17.1	14	13	90	77	59		
25-Feb	1018.6	19.7	18	16.5	15.7	94	86	77		
26-Feb	1018.1	23.4	19.5	17.5	17.6	97	89	69		
27-Feb	1019	21.5	19.1	17.9	16.9	96	88	78		
28-Feb	1017.1	19.3	18.2	17.5	15.7	91	86	80		
Mean	1017.9	17.6	14.7	12.3	10.9	91	79	64		
Maximum	1025.2	27.6	20.1	17.9	17.6	98	93	84		
Minimum	1009.9	7.8	6.6	4.4	-0.2	68	61	26		

Extract of Meteorological Observations for Tai Po Automatic Weather Station, February 2014

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Feb	****	***	****
2-Feb	****	***	****
3-Feb	****	***	****
4-Feb	****	***	****
5-Feb	****	***	****
6-Feb	****	***	****
7-Feb	****	***	****
8-Feb	****	***	****
9-Feb	****	***	****
10-Feb	****	***	****
11-Feb	****	***	****
12-Feb	****	***	****
13-Feb	****	***	****
14-Feb	****	***	****
15-Feb	****	***	****
16-Feb	****	***	****
17-Feb	****	***	****
18-Feb	****	***	****
19-Feb	****	***	****
20-Feb	****	***	****
21-Feb	****	***	****
22-Feb	****	***	****
23-Feb	****	***	****
24-Feb	****	***	****
25-Feb	****	***	****
26-Feb	****	***	****
27-Feb	****	***	****
28-Feb	****	***	****
Mean		***	****
Total	****		
Maximum	****		****
Minimum	****		****

^{***} unavailable

missing (less than 24 hourly observations a day)

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Extract of Meteorological Observations for Sha Tin Automatic Weather Station, February 2014

Date	Mean Pressure at M.S.L.	Ai	r Temperatu	ıre	Mean Dew Point Temperature	Rela	Relative Humidity			
	(hPa)	Max.	Mean	Min.	(deg C)	Max.	Mean	Min.		
		(deg C)	(deg C)	(deg C)		(%)	(%)	(%)		
1-Feb	1015.5	24.7	18.9	15.3	15.4	100	82	49		
2-Feb	1011.7	25.8	18.5	13.5	14.1	100	78	45		
3-Feb	1010.1	27.3	19.2	13	13.8	98	74	40		
4-Feb	1013.7	18.3	16.9	14.2	13.6	96	81	73		
5-Feb	1014.2	19.2	16.6	15.3	13	91	79	68		
6-Feb	1012.2	21.5	18.3	16.2	15.8	93	85	73		
7-Feb	1010.9	22.3	19.7	17.2	17.4	97	87	75		
8-Feb	1011.7	19.7	15.4	13.6	13.2	97	87	72		
9-Feb	1012.8	15.9	13.4	8.7	11.8	97	90	76		
10-Feb	1019.7	8.9	7.7	6.6	2.5	91	69	58		
11-Feb	1020.4	7.4	6.5	5.7	-0.3	71	62	54		
12-Feb	1019.1	8.7	7.1	5.5	4.5	96	84	68		
13-Feb	1021.8	7.9	7.0	6.1	4.4	94	84	66		
14-Feb	1022.4	14	9.5	6.5	2.1	71	60	49		
15-Feb	1020.7	13.3	10.8	8.4	6.4	84	74	66		
16-Feb	1018.6	15.8	14.3	13.1	11.7	92	85	73		
17-Feb	1018	21.7	17.9	15.2	16.5	100	92	78		
18-Feb	1016.4	23.3	16.8	10.7	14.7	100	88	68		
19-Feb	1021.9	10.9	9.0	7.2	3.1	89	67	54		
20-Feb	1024.9	17.2	10.6	5.5	2.3	90	60	24		
21-Feb	1024.7	15.2	12.6	8.2	7.0	97	70	50		
22-Feb	1023.3	17.8	14.5	12.5	8.2	83	66	47		
23-Feb	1023	19.3	16	13.9	10.9	85	72	54		
24-Feb	1020.7	19.5	17.1	14.3	12.7	87	75	57		
25-Feb	1018.6	20.9	18.6	16.7	15.5	93	83	70		
26-Feb	1018	24.6	19.7	17.4	17.5	97	87	66		
27-Feb	1019	21.7	18.9	17.7	16.7	96	87	74		
28-Feb	1017.2	19	18	17.1	15.3	90	84	79		
Mean	1017.9	17.9	14.6	12	10.7	92	78	62		
Maximum	1024.9	27.3	19.7	17.7	17.5	100	92	79		
Minimum	1010.1	7.4	6.5	5.5	-0.3	71	60	24		

Extract of Meteorological Observations for Sha Tin Automatic Weather Station, February 2014

	Total Rainfall	Prevailing Wind	Mean Wind
Date	(mm)	Direction	(km/h)
	(IIIII)	(degrees)	(KIII/II)
1-Feb	0.0	100	3.6
2-Feb	0.0	210	5.4
3-Feb	0.0	230	5.1
4-Feb	0.0	80	8.5
5-Feb	0.0	120	9.3
6-Feb	0.0	360	5.0
7-Feb	0.0	70	4.3
8-Feb	0.5	360	6.9
9-Feb	8.5	350	9.8
10-Feb	1.5	350	9.8
11-Feb	0.0	340	7.8
12-Feb	1.5	350	6.2
13-Feb	12.0	350	9.5
14-Feb	0.0	340	8.4
15-Feb	0.0	350	5.6
16-Feb	0.0	60	9.9
17-Feb	0.0	60	5.8
18-Feb	0.0	340	7.1
19-Feb	5.0	350	10.8
20-Feb	0.0	30	6.3
21-Feb	0.0	90	7.2
22-Feb	0.0	100	10.0
23-Feb	0.0	90	8.6
24-Feb	0.0	90	7.3
25-Feb	0.0	80	5.6
26-Feb	0.0	50	3.4
27-Feb	0.0	100	5.5
28-Feb	0.0	110	8.4
Mean		350	7.2
Total	29.0		
Maximum	12.0		10.8
Minimum	0.0		3.4

^{***} unavailable

missing (less than 24 hourly observations a day)

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

APPENDIX I
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION

Location : NM1A (168 Shek Kwu Lung Village G/F- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured	Noise Lev	el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
5-Feb-14	10:57	65.7	68.2	63.4	64.2	60.4	75	N
11-Feb-14	10:40	60.6	62.3	58.0	64.2	60.6	75	N
17-Feb-14	18:15	64.1	66.5	61.2	64.2	64.1	75	N
28-Feb-14	11:28	66.7	68.4	63.2	64.2	63.1	75	N

	Corrected Noise Level dB(A)
Average	62.3
Max	64.1
Min	60.4

Location: NM2 (38 Ha Wun Yiu G/F - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured I	Noise Lev	el for 30-r	min, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	Level, dB(A)*	Noise Level, dB(A) **	dB(A)	(Y/N)
5-Feb-14	13:06	63.4	65.1	60.8	68.1	63.4	75	N
11-Feb-14	11:30	63.7	64.9	62.5	68.1	63.7	75	N
17-Feb-14	13:45	63.2	65.2	60.6	68.1	63.2	75	N
28-Feb-14	10:48	67.9	69.2	65.1	68.1	67.9	75	N

	Corrected		
	Noise Level dB(A)		
Average	65.0		
Max	67.9		
Min	63.2		

^{* +3}dB(A) Façade effect correction included

^{**} Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

Location: NM3 (Wong Shiu Chi Middle School Rooftop - Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured	Noise Lev	el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time Leq L10 L90		Level, dB(A)	Noise Level, dB(A) **	dB(A)#	(Y/N)		
5-Feb-14	10:42	66.2	67.8	64.3	64.8	60.6	65	N
11-Feb-14	13:05	61.2	63.0	60.0	64.8	61.2	65	N
17-Feb-14	15:10	63.9	67.2	61.0	64.8	63.9	65	N
28-Feb-14	9:46	65.7	67.9	63.2	64.8	58.4	70	N

	Corrected Noise Level dB(A)
Average	61.5
Max	63.9
Min	58.4

Location: NM4 (Uptown Plaza Block 4 Rooftop - Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured	Noise Lev	el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time Leq L10 L90		me Leq L10 L90 Level, df		Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
5-Feb-14	9:49	65.7	67.2	63.1	67.4	65.7	75	N
11-Feb-14	13:10	3:10 62.3 63.5 60.5		67.4	62.3	75	N	
17-Feb-14	13:02	62.0	64.2	58.6	67.4	62.0	75	N
28-Feb-14	10:41	65.6	68.1	62.4	67.4	65.6	75	N

	Corrected
	Noise Level dB(A)
Average	64.2
Max	65.7
Min	62.0

^{# -} Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

^{**} Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

Location : NM5 (The Paragon Clubhouse Rooftop - Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

		Measured I	Noise Lev	el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Da	ate	Start Time Leq L10 L90		Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)		
5-Fe	eb-14	13:11	60.7	62.2	58.1	65.2	60.7	75	N
11-F	eb-14	10:15	10:15 61.6 62.5 59.0		65.2	61.6	75	N	
17-F	eb-14	10:55	63.7	65.2	60.0	65.2	63.7	75	N
28-F	eb-14	13:16	59.9	63.0	56.8	65.2	59.9	75	N

	Corrected Noise Level dB(A)
Average	61.7
Max	63.7
Min	59.9

Location: NM6 (PLK Tin Ka Ping Primary School near the entrance - Free Field)
Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured I	Noise Lev	el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date			L90*	Level, dB(A)*	Noise Level, dB(A) **	dB(A) [#]	(Y/N)	
5-Feb-14			60.3	64.5	62.7	70	N	
11-Feb-14	11:05	63.1	64.5	62.0	64.5	63.1	70	N
17-Feb-14	11:35	63.1	65.4	59.6	64.5	63.1	70	N
28-Feb-14	11:26	63.1	65.6	61.0	64.5	63.1	70	N

	Corrected Noise Level dB(A)
Average	63.0
Max	63.1
Min	62.7

Remarks

- * +3dB(A) Façade effect correction included
- # Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.
- ** Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

 If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

Location : NM7 (Riverain Bayside Switch Room Rooftop - Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

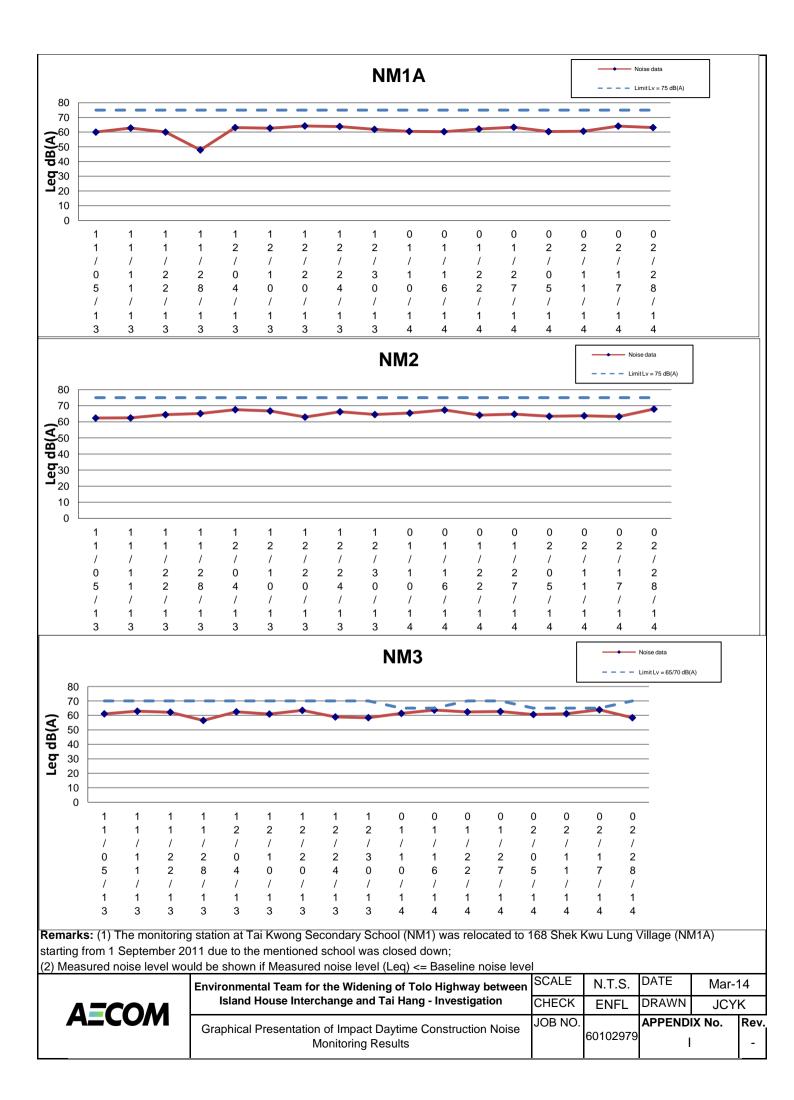
	Measured	Noise Lev	el for 30-r	min, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time Leq L10 L90		L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)	
5-Feb-14	10:09	61.4	63.9	60.2	61.5	61.4	75	N
11-Feb-14	9:50	50 57.8 59.0 55.5		61.5	57.8	75	N	
17-Feb-14	14:30	64.1	67.5	61.0	61.5	60.6	75	N
28-Feb-14	10:06	62.3	65.7	59.6	61.5	54.6	75	N

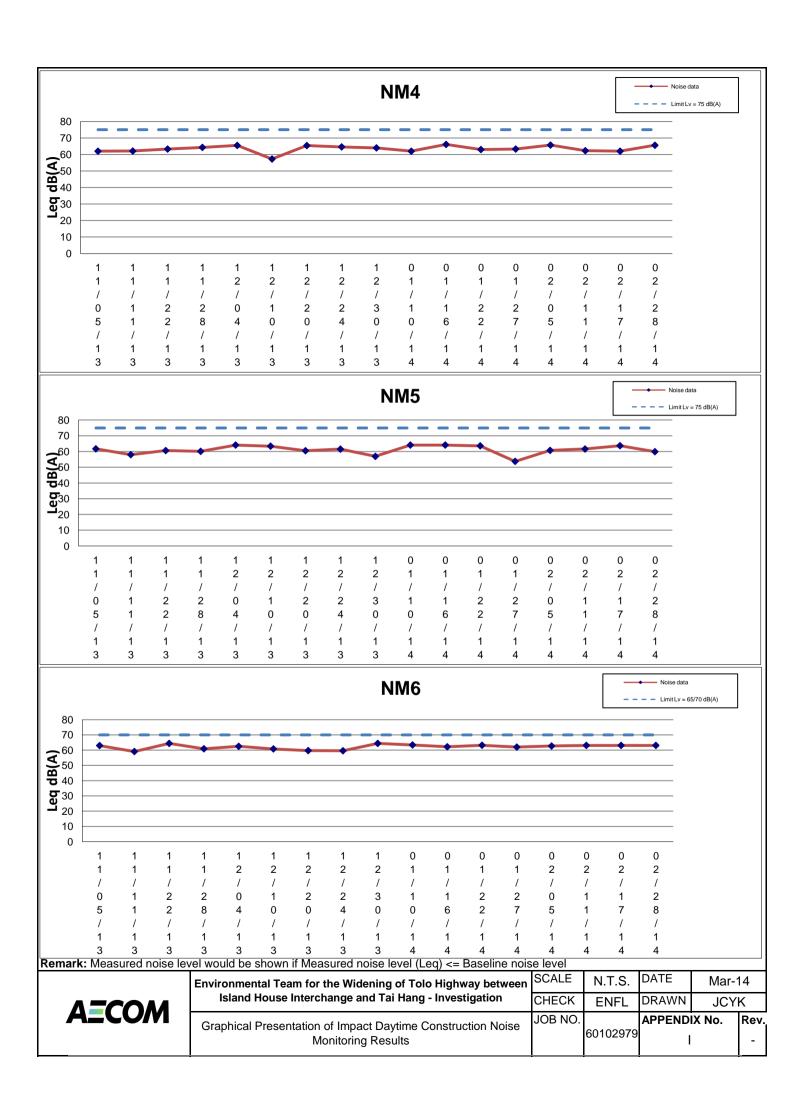
	Corrected Noise Level dB(A)				
Average	59.3				
Max	61.4				
Min	54.6				

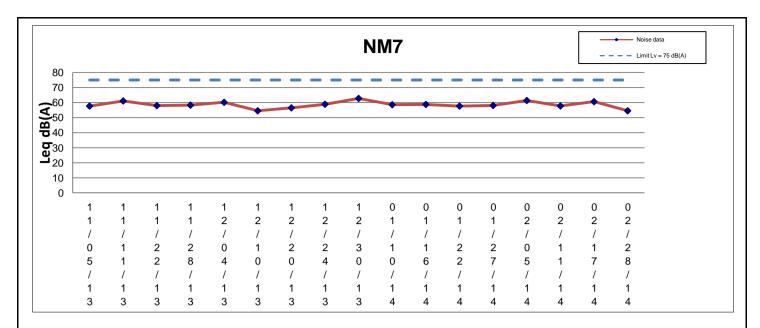
Remarks

^{**} Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level







Remark: Measured noise level would be shown if Measured noise level (Leq) <= Baseline noise level



Environmental Team for the Widening of Tolo Highway between	SCALE	N.T.S.	s. DATE Mar		-14	
Island House Interchange and Tai Hang - Investigation		ENFL	DRAWN	JCYI	K	
Graphical Presentation of Impact Daytime Construction Noise Monitoring Results	JOB NO.	60102979	APPEND	X No.	Rev.	

APPENDIX J EVENT ACTION PLAN

Appendix J – Event Action Plan

Event / Action Plan for Air Quality

Event		Action	n	
	ET Leader	IEC	ER	Contractor
Action Level				
Exceedance for one sample	Identify source; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily.	Check monitoring data submitted by ET; Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event / Action Plan for Air Quality

Event	Action				
Action Level	ET Leader	IEC	ER	Contractor	
Limit Level					
Exceedance for one sample	 Identify source; Inform IEC, ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase frequency to daily; Analyse Contractor's working procedures to determine possible mitigation to be; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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 to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by ER until the exceedance is abated. 	

Event / Action Plan for Noise Impact

Event	t Action			
Limit Level	ET Leader	IEC	ER	Contractor
Action Level	 Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	 Review with analysed results submitted by ET. Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.
Limit Level	 Notify, IEC, ER, EPD and the Contractor. Identify the source. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

APPENDIX K SITE INSPECTION SUMMARIES



Site Inspection Summary

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	05 February 2014
Time:	14:00
Inspection No.:	413

Date:	05 February 2014
Time:	14:00
Inspection No.:	413
Non-compliance	
Nil	
Observations	
Follow Up C	bservations
Nil.	
New Observ	<u>rations</u>
1. The Contract	ctor was reminded to clear the general refuse under the bridge.
Remarks	
Nil	



	mejooduon muonnauon	
Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)	
Date:	6 February 2014	
Time:	14:00	
Inspection No.:	414	

L	Date		6 February 2014
	Time):	14:00
r	Inspe	ection No.:	414
۲			
	Non-	compliance	
Γ		,	
		Nil	
_	Ohor	orustions	
Γ	UDSE	ervations Follow Up O	hearyations
		I Ollow op O	DSET VALIOTIS
	1.	The muddy	water at the wheel-washing facilities in Shek Kwu Lung was cleared (Closed).
	2.	The general	refuse inside and next to the rubbish bin was cleared (Closed).
		Ü	
	3.	The breaker	was wrapped properly with sound-absorptive materials (Closed).
		New Observ	ations
			
	4.	The Centres	ctor was reminded to clear the stagnant water inside the waste skip to prevent mosquito
	4.	breeding.	to was reminded to clear the stagnant water inside the waste skip to prevent mosquito
		brecaing.	
I			
L			
г	Remarks		
I			
		Nil	



	mopoulon mornique.	
Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)	
Date:	12 February 2014	
Time:	09:15	
Inspection No.:	415	

Insp	ection No.:	415	
Non	Non-compliance		
	Nil		
Obs	ervations		
	Follow Up O	bservations	
1.	The general	refuse under the bridge was cleared (Closed).	
	New Observ	rations	
	ivew Observ	<u>ations</u>	
	Nil.		
Ren	narks		
	Nil		



	mopoular mannaum	
Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)	
Date:	13 February 2014	
Time:	14:00	
Inspection No.:	416	

Date		131 Coldary 2014
Time): 	14:00
	ection No.:	416
Non-	-compliance	
11011	compilarios	
	Nil	
	INII	
Obse	ervations	
	Follow Up O	<u>Observations</u>
	-	
1.	Stagnant wa	ater inside the waste skip was cleared (Closed).
	J	
	Naw Observ	
	New Observ	<u>rations</u>
2.	Chemical co	ontainers were found under Bridge R15a. The Contractor was reminded to provide drip tray
	or storage th	ne containers properly.
	or storage ti	ic containers properly.
Dara	orko	
Rem	iai KS	
	Nil	



	mopoution mornique.	
Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)	
Date:	19 February 2014	
Time:	09:15	
Inspection No.:	417	

Inspection No.: 417				
Non-compliance				
Nil				
Observations				
Follow Up Observations				
Nil.				
New Observations				
N.:I				
Nil.				
Remarks				
Nil				



Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	20 February 2014
Time:	14:15
Inspection No.:	418

Date.		ı	20 February 2014			
Time:		•	14:15			
Inspection No.:			418			
_						
	Non-	compliance				
Ī		•				
		Nil				
	Obse	ervations				
Ī		Follow Up O	bservations			
	1.	Chemical co	ntainers are removed (Closed).			
		Now Observ	ations			
		New Observ	<u>ations</u>			
	2.	The Contrac	tor was reminded to provide a drip tray to hold the oil drums or remove the oil drums.			
	3.		was observed under the generator. The Contractor was reminded to close the knob of the			
		drip tray and	clear the oil stain on the ground. Moreover, the drip tray should be cleared and kept tidy.			
l						
L						
	Remarks					
		Nil				

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Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	26 February 2014
Time:	09:15
Inspection No.:	419

Date.	201 Chidary 2014					
Time:	09:15					
Inspection No.:	Inspection No.: 419					
Non-compliance						
Nil						
Observations						
Follow Up O	<u>oservations</u>					
Nil.						
New Observ	ations ations					
1. The Contract	for was reminded to fence off retained trees under Bridge 10A for maximum protection.					
Remarks						
Nil						



Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	27 February 2014
Time:	14:15
Inspection No.:	420

Date:		27 February 2014			
Time:		14:15			
Inspection No.:		420			
шор	113pcction 110 420				
Non-	-compliance				
11011	- compilario				
	Nil				
Obse	ervations				
	Follow Up C	<u>bservations</u>			
1.	Oil drums w	ere removed (Closed).			
2.	Oil stain was	s cleared and the generator was removed from the construction site (Closed).			
	Naw Ohaam	intinua			
	New Observ	<u>rations</u>			
3.	The Contract	etor was reminded to label chemical containers.			
Rem	Remarks				
	Niil				
1	Nil				

APPENDIX L
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS

Appendix L
Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by ET this month	Total no. followed up by ET since project commencement
Environmental complaints	27 February 2014 (Follow-up)	EPD referred a follow-up complaint from a resident of Ma Wo on 27 February 2014. The complainant said that the Contractor caused serious noise nuisance at non-restricted hours.	Under Investigation	1	37
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0