

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 April 2014

[05/2014]

	Name	Signature
Prepared & Checked:	Joanne Ko	John blo.
Reviewed & Approved:	Y T Tang	Coegettiting

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AECOM Asia Co. Ltd. 15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com



Our ref AFK/TK/bw/T264022/22.01/L-0196

- т 2828 5919
- terence.kong@mottmac.com.hk

Your ref

Hyder-Arup-Black & Veatch Joint Venture c/o Hyder Consulting Limited 47/F Hopewell Centre 183 Queen's Road East Wanchai Hong Kong

> 13 May 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/B Condition 3.3 – Submission of Monthly EM&A Report for April 2014 (Stage 1)

We refer to the captioned Monthly EM&A Report received on 12 and 13 May 2014 submitted by Environmental Team (ET) via email. Pursuant to EP Condition 3.3, I hereby verify the Monthly EM&A Report for April 2014 (Stage 1) for the Project.

Yours faithfully

for MOTT MACDONALD HONG KONG LIMITED

In Konf

Terence Kong Independent Environmental Checker

c.c. HyD – Mr. Raymond T W Kong / Mr. Dennis Wong / Mr. William Chiang

(Fax: 2761 4864)

ETL, AECOM - Mr. Y T Tang

(Fax: 2317 7609)

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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 June 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 30 April 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
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier 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;
- Spread footing of Noise Barrier / Semi Noise Enclosure;
- Slope works;
- Noise barrier construction;
- Modification of existing bridge structures;
- Entrusted watermains works;
- Sewer Installation;
- Road and drainage works; and
- 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) dust-related complaint was received on 15 April 2014 and followed up by the Environmental Team in April 2014. The investigation result is reported in Section 4.6.

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;
 - 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 May 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-fourth 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 April 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	Position	Name	Telephone	Fax
ER of Stage 1, Contract 1 (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer /TOLO1	James Tsang	9038 8797	26674000
ER of Stage 1, Contract 2 (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer /TOLO2	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	Environmental Officer	Michael Tsang	9277 4956	2667 5666
Kong) Limited)		M L Lam	9489 4641	2667 5666
	Site Agent	John Chan	3126 1202	2559 3410
Contractor of Stage 1, Contract 2		Thomson Chang	9213 6569	2559 3410
(Gammon Construction Limited)	Environmental Officer	Crispin Ao	9223 8773	2559 3410
		Jimmy Tsang	9720 9738	2559 3410

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

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
 - Retaining wall construction
 - Noise barrier footing construction
 - Noise barrier 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
 - 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
- 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
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Monitoring Station Location		Description	
AM1A	3 Sheung Wun Yiu	Ground floor at the boundary outside Fan 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 and Frequency

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

Table 2.3Air Quality Monitoring Parameters and Frequency

Parameter	Frequency
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.
- (ix) 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
 - 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 April 2014 is provided in Appendix F.



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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.

	•	•		
	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1A	79.6	70.3 – 85.0	302.1	500
AM2	81.1	74.5 – 86.6	301.9	500
AM3	79.8	70.7 – 87.1	301.9	500

74.3 - 86.4

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

Table	25
Iabic	Z.J

AM4A

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

302.3

	Average (µg/m³)	Range (µg/m ³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1A	61.2	43.6 – 77.7	176.6	260
AM2	48.2	37.0 – 56.2	178.6	260
AM3	51.3	21.8 – 82.1	193.1	260
AM4A	41.7	34.4 – 51.8	198.5	260

- 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 April 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
Table 3.1	Noise monitoring	Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31 / B&K 2238 / B&K 2250
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.
- Figure 2.1 shows the locations of the monitoring stations. Table 3.2 describes the details of the 3.3.2 monitoring stations.

Monitoring Station	Location	Description
NM1A	168 Shek Kwu	1m from the exterior wall of the

Table 3.2	Locations of Impact Noise Monitoring Stations
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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 and Frequency

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

Table 3.3 Noise Monitoring Parameters and Frequency

Parameter	Frequency
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. L_{eq} , L_{10} and L_{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-minutes)} during non-restricted hours i.e. 07:00 1900 on normal weekdays; L_{eq(5-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 April 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.

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq (30 mins)}	L _{eq (30 mins)}	L _{eq (30 mins)}
NM1A	62.3	59.5 – 63.7	75
NM2	68.5	54.8 – 72.2	75
NM3	61.8	53.3 – 64.7	70/65 [#]
NM4	65.0	60.6 - 66.4	75
NM5	61.8	53.7 – 64.2	75
NM6	62.2*	60.3 - 64.3*	70 [#]
NM7	61.1	53.2 - 64.8	75

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

*+3dB(A) Façade correction included

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

- 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.

4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

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 2, 7, 16, 23 and 30 April 2014 for Contract 1 of the Project, and 5 site inspections for Contract 2 of the Project were carried out on 3, 10, 17, 24 and 30 April 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 provide a drip tray to the chemicals.

Landscape and Visual Impact

4.1.8 No adverse observation was identified in the reporting month.

Miscellaneous

- 4.1.9 Stagnant water was observed at the catch pit. The Contractor was reminded to clear the water or treat the water regularly with larvicidal oil to prevent mosquito breeding.
- 4.1.10 Particular observations and reminder during the site inspections for Contract 2 are described below:

Air Quality

- 4.1.11 Exposed slope was observed. The Contractor was reminded to prevent soil from being depositing in existing drainage systems and the river nearby by covering the slope with tarpaulin sheets.
- 4.1.12 The Contractor was reminded to spray dusty surfaces with water.

Noise

4.1.13 No adverse observation was identified in the reporting month.

Water Quality

4.1.14 The Contractor was reminded to clear the water at the wheel-washing facilities.



Chemical and Waste Management

- 4.1.15 General refuse was observed near the worker rest area. The Contractor was reminded to clear the refuse to maintain site cleanliness.
- 4.1.16 Oil drums were observed at the east abutment of Bridge 18. The Contractor was reminded to remove the oil drums.

Landscape and Visual Impact

4.1.17 No adverse observation was identified in the reporting month.

Miscellaneous

4.1.18 No adverse observation was identified in the reporting month.

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), 57m³ of inert C&D materials was disposed of to the public fill at Tuen Mun 38 (of which 0m³ was broken concrete), while 195m³ of general refuse was disposed of at the NENT landfill. 622kg of paper/cardboard packaging, 4,586kg of plastics and 125,773kg of metals were collected by recycling contractors in the reporting month. 1,126m³ and 0m³ 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), 90m³ of inert C&D materials was disposed of to Tuen Mun 38 and 190m³ 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 295m³ 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.

Statutory	License/	License or Permit No.	Valid	Period	License/ Permit	Remarks
ReferencePermitEIAOEnvironmen Permit		Permit No.	From	То	Holder	
EIAO	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	СЅНК	Discharge at Site Office
- WPCO -	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)	WT00007162 -2010	09/08/2010	31/07/2015	GCL	Discharge of Construction Runoff
WDO	Chemical 5213-727- Waste C3249-46		25/09/2009	N/A	СЅНК	Chemical waste produced in Contract HY/2008/09
	Producer Registration	5213-722- G2347-18	18/05/2010	5/2010 N/A (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
	Construction Waste	7010320	02/03/2010	N/A	GCL	Waste disposal in Contract HY/2009/08
		GW- RN0561-13	02/10/2013	01/04/2014	СЅНК	Modification of Sign Gantry_G11, G13, G70, G73, G74, G75 & G76
		GW- RN0039-14	27/01/2014	26/07/2014	CSHK	Construction wroks at Island House Interchange
NCO	Construction Noise Permit	GW- RN0163-14	13/03/2014	30/04/2014	СЅНК	Slip Road from Tai Po Road - Yuen Chau Tsai to Tolo Highway near Wang Fuk Court
		GW- RN0170-14	12/03/2014	30/05/2014	СЅНК	Road Re-pavement at Tolo Highway Between Yuen Chau Tsai and Ma Wo
		GW- RN0172-14	18/03/2017/ 17/06		СЅНК	Laying of Crossroad Ducts near Ma Lui Shui



Monthly EM&A Report for April 2014

Statutory	License/	License or Permit No.	Valid	Period	License/ Permit	Remarks
Reference	Permit	Permit NO.	From	То	Holder	
		GW- RN0185-14	16/03/2014	01/06/2014	СЅНК	Road pavement for Slip Road C
		GW- RN0187-14	25/03/2014	31/05/2014	СЅНК	Modification of Sign Gantry_G13, 16, 66, & 70
		GW- RN0188-14	18/03/2014	30/05/2014	СЅНК	Noise Barrier Installation Works on Tolo Highway (Fanling Bound) (Weekday)
		GW- RN0193-14	21/03/2014	31/05/2014	CSHK	Installation of Noise Barrier on Kwong Fuk West Viaduct
		GW- RN0197-14	30/03/2014	01/06/2014	CSHK	Road Paving Works at Slip Road L
		GW- RN0212-14	28/03/2014	31/05/2014	CSHK	Paving and Road Marking for Slip Road A
		GW- RN0210-14	11/04/2014	09/10/2014	CSHK	Modification of Sign Gantries G13, 16, 66 & 70
		GW- RN0242-14	10/04/2014	30/06/2014	СЅНК	Construction works next to MTRC's tracks protection zone
		GW- RN0261-14	20/04/2014	01/06/2014	СЅНК	Slip Road leading from Tolo Highway (Fanling Bound) to Tat Wan Road
		GW- RN0265-14	23/04/2014	31/05/2014	СЅНК	Tree Felling at NB19
		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- 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- 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



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Statutory	License/	License or	Valid	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
		GW- RN0080-14	07/02/2014	02/08/2014	GCL	(Renewal of GW- RN0530-13) General Works at a section of Tolo Highway near Tai Po Tau Raw Water Pumping Station
		GW- RN0088-14	09/02/2014	27/04/2014	GCL	2 Lane Shifting Works and Modification of Road Marking at Tolo Highway (shatin bound) CH19.8 - 20.4B
		GW- RN0089-14	16/02/2014	20/04/2014	GCL	Lane Shifting Works and Modification of Road Marking at Tolo Highwa South Bound (CH19.2 to 18.6A)
		GW- RN0091-14	16/02/2014	27/04/2014	GCL	Lane Shifting Works and Modification of Road Marking (Sheung Shui Bound) CH20.8 to CH21.3B near Tai Po Tai Wo Road
		GW- RN0092-14	18/02/2014	26/04/2014	GCL	Erection of Sign gantry at a section of Tolo Highway (Fanling Bound) CH18.9 to CH19.1B
		GW- RN0095-14	16/02/2014	27/04/2014	GCL	Lane shifting and modification of road marking at Tolo Highway Fanling Bound (CH18.9 to 19.7B)
		GW- RN0112-14	05/03/2014	26/04/2014	GCL	Installation of sign gantry G56 at Tolo Highway (Shatin Bound) near Lam Kam Interchange from CH21.3 to CH21.1A
		GW- RN0115-14	28/02/2014	06/05/2014	GCL	Renewal of GW- RN0758-13 Maintenance works at Tolo Highway near Tai Po Tai Wo Road, Lam Kam Interchange & Tai Wo Service Road West



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Statutory Reference	License/ Permit	License or Permit No.	Valid	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
		GW- RN0116-14	02/03/2014	27/04/2014	GCL	Lane Shifting and modification of road marking at Tolo Higwhay (Shatin Bound) CH21.4 to 20.1A near Lam Kam Flyover
		GW- RN0119-14	02/03/2014	27/04/2014	GCL	Lane Shifting and modification of road marking at Tolo Higwhay (Shatin Bound) CH21.4 to 20.1A near Lam Kam Flyover
		GW- RN0129-14	05/03/2014	17/05/2014	GCL	Renewal of GW- RN0785-13 Stitching construction at a section of Tolo Highway (Shatin Bound) CH19.6 ti CH17.95A
		GW- RN0145-14	09/03/2014	27/04/2014	GCL	Lane shifting works and modification of road marking at Tolo Highway (Shatin Bound) CH19.0 to 18.0 near Ma Wo

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) dust-related complaint was received on 15 April 2014 and followed up by the Environmental Team in April 2014.



- 4.6.3 EPD referred a complaint from a resident of Ma Wo Tsuen on 15 April 2014.
- 4.6.4 The complaint was about the dust emission on 12 April 2014 at the construction site of the Tolo Highway widening construction works at Ma Wo. The complaint location was Ma Wo Tsuen near Northbound of Tolo Highway. The complainant complained that there was no water spraying or covering by tarpaulin sheets when the construction works were taking place. Serious dust nuisance has been caused. He claimed that no improvement has been observed. He requested the follow-up by the EPD.
- 4.6.5 As informed by the Contractor (Gammon Construction Ltd.) and confirmed by the Engineer of the Project, adjusting slope profile at W47 was carried out on 12 April 2014.
- 4.6.6 The following mitigation measures have been implemented by the Contractor:
 - Manual water spraying at exposed slopes;
 - Slopes at a sight distance from the complainant being covered by grass net as permanent works;
 - Tarpaulin dust screen of appropriately 1.8 m in height set on the top of W45-47 which is along W44 and NB31 (partially removed when the corresponding upper slope is being covered by grass net, in order to install permanent fencing at the slope edge); and
 - Ensuring the mechanical covering of the dump truck would not open until they reach the unloading point, in case any they pass through W45-47.
- 4.6.7 The Contractor was reminded to carry out mitigation measures as observed previously when similar complaints were lodged:
 - Keeping the loading and unloading height of general fill materials to a minimum;
 - Carrying out wheel washing at the site entrance; and
 - Spraying water by sprinklers on haul roads and exposed slopes, and manually to the leaves of the trees to minimize the emitted dust from dropping to the complainant's house and Ma Wo Tsuen through the trees.
- 4.6.8 With reference to the monitoring results recorded on the day closest to the day of complaint, i.e. 10 April 2014, at the nearest EM&A monitoring station (AM1A- Sheung Wun Yiu), the 24-hour TSP level was 47.9 ug/m3, which was below the action level of 176.6 ug/m3. Besides, the average 1-hour TSP level was 76.3 ug/m3, which was also below the action level of 302.3 ug/m3.
- 4.6.9 Nevertheless, the complaint was considered project-related.
- 4.6.10 Therefore, the Contractor is reminded to enhance the dust mitigation measures as stated in the "Recommended Mitigation Measures".
- 4.6.11 Recommended Mitigation Measures:
 - Confirm the implementation of dust mitigation measures (erection of tarpaulin dust screens along the work areas W38-48, spraying water manually by workers and sprinkler systems for the haul roads and exposed slopes at work areas W38-48, covering non-working slopes by tarpaulin sheets within the work areas, covering dusty materials carried in dump trucks within work areas W38-48) during all construction and dusty activities to minimize fugitive dust generation;
 - Increase the frequency of watering in the work areas (specially at the entrance of the construction site, and on site haul roads and exposed slopes / areas in the work areas W38-48), so that site haul roads and exposed surfaces are in a wet condition;
 - 3) Keep soil surfaces wet before loading and unloading activities;
 - 4) Maintain the frequency of the environmental supervision (by the Contractor) to regularly review the adequacy and effectiveness of dust suppression measures to suit the construction progress;
 - 5) Inform the complainant before dusty activities (e.g. rock breaking, excavation, grouting and backfilling) are carried out; and
 - 6) Foster better public relations with the sensitive receivers and complainants nearby.



- 4.6.12 No new notification of summons and prosecution was received in the reporting period.
- 4.6.13 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 May 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 May 2014 will be:-
 - Condition survey of existing structures
 - Setting up the temporary traffic arrangement
 - Excavation of trial trenches to locate existing utilities
 - 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 May 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 May 2014 is provided in Appendix F.

6 CONCLUSIONS AND RECOMMENDATIONS

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 10 times in April 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.6 One (1) dust-related complaint was received on 15 April 2014 and followed up by the Environmental Team in April 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.

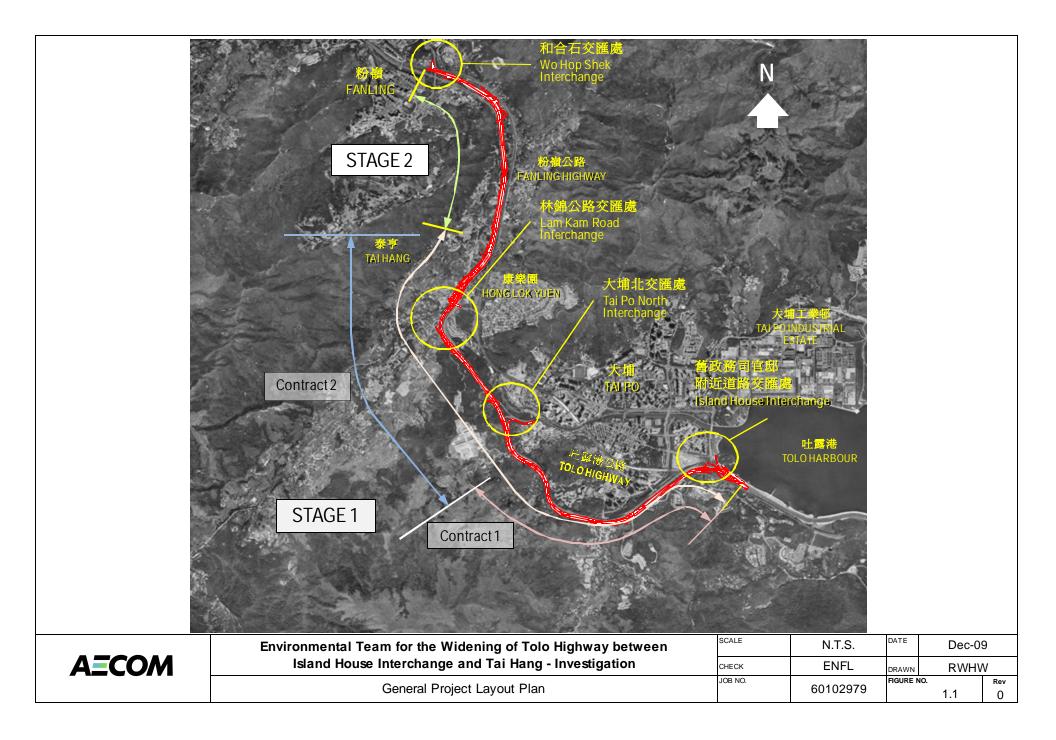


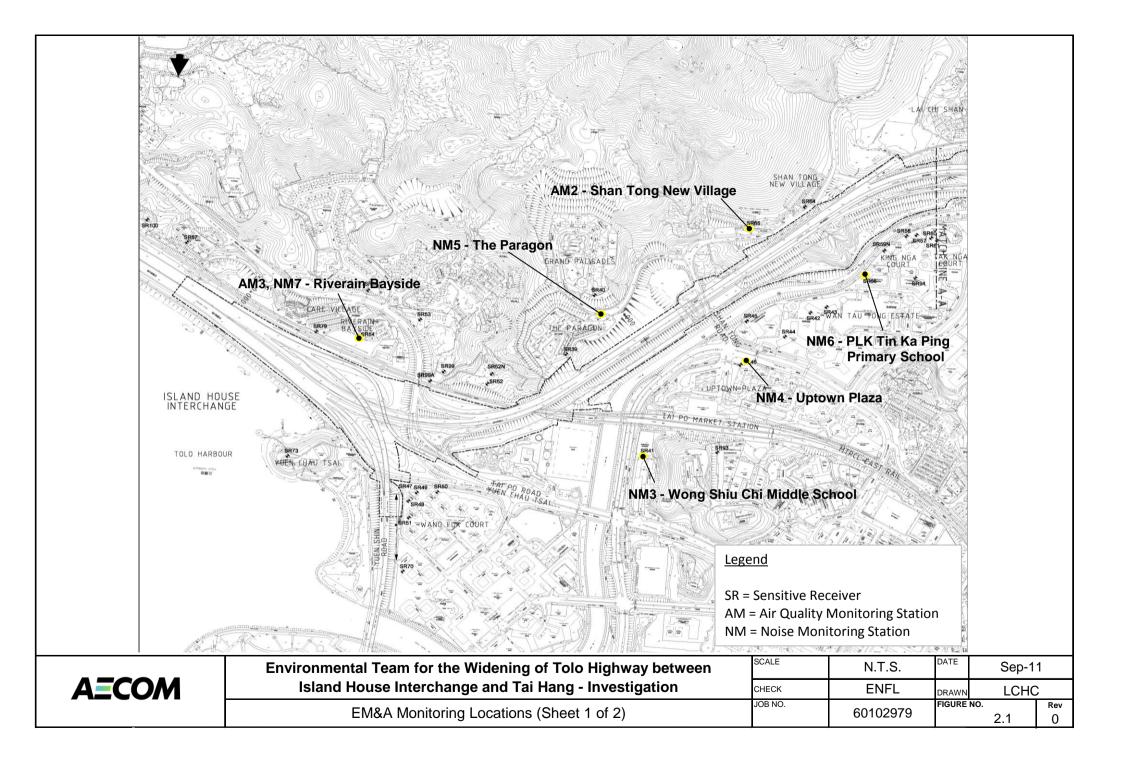
- All chemical containers and oil drums should be properly stored.
- All plants and vehicles on site should be properly maintained to prevent oil leakage.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil leakage.
- Oil stains on soil surface 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.

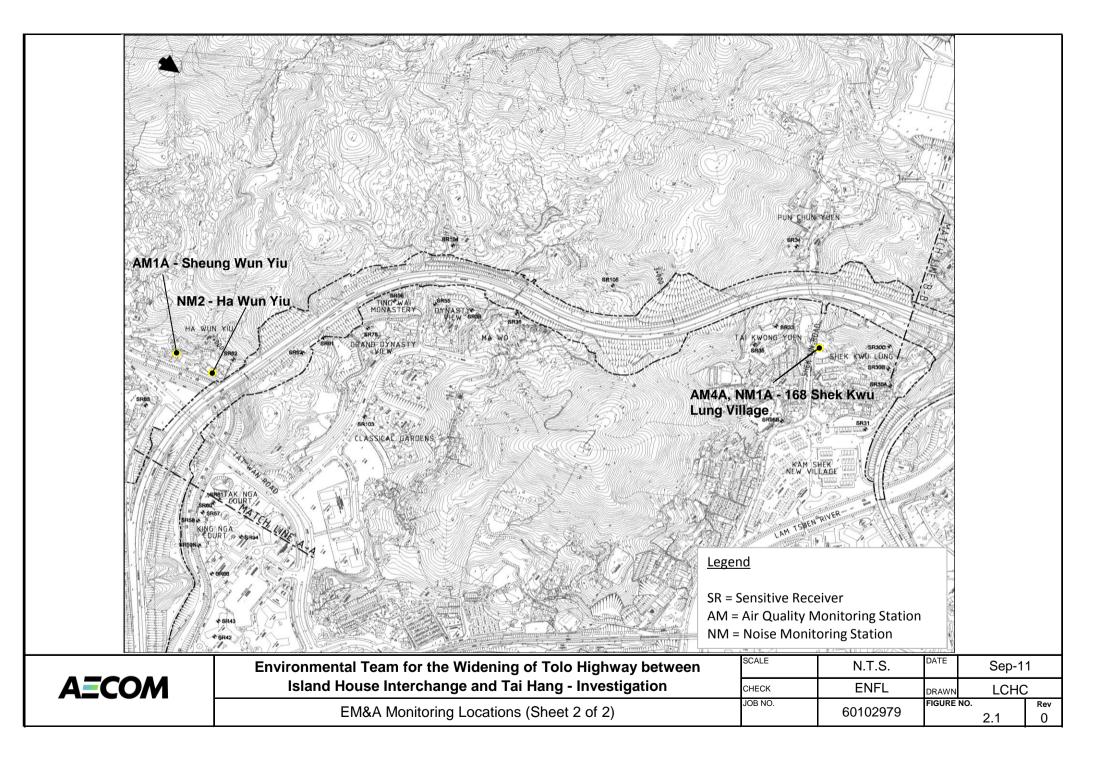
Landscape and Visual Impact

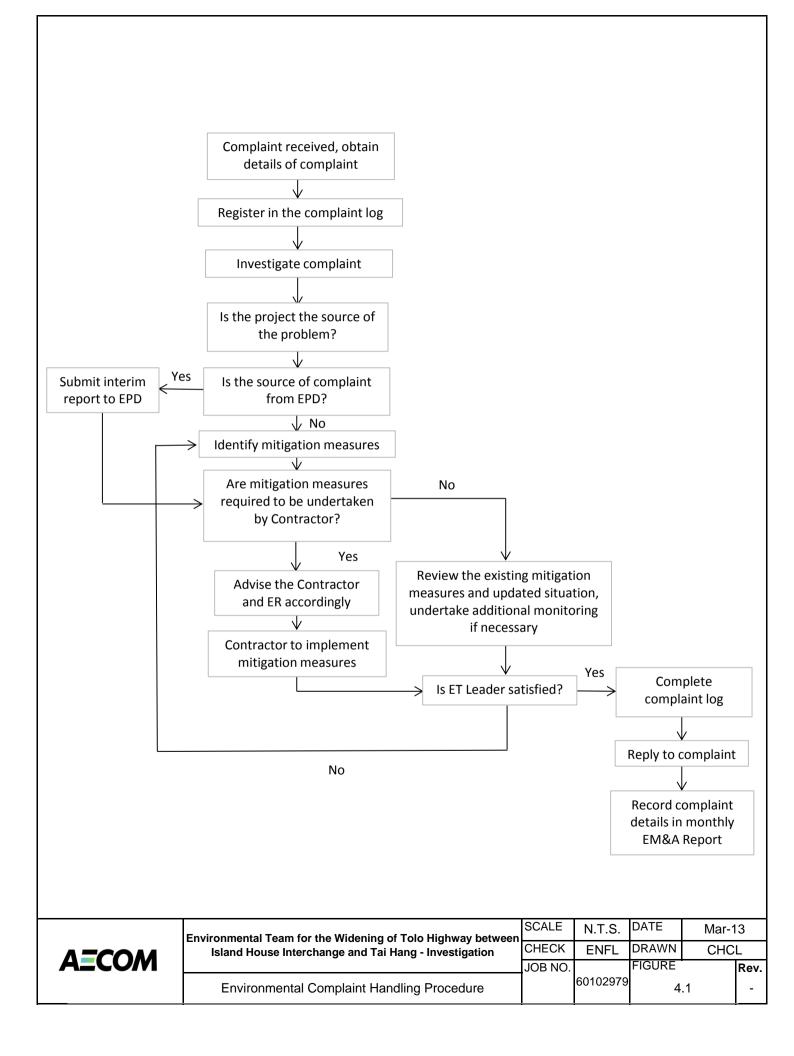
• All retained trees should be properly fenced off at the works area.

FIGURES

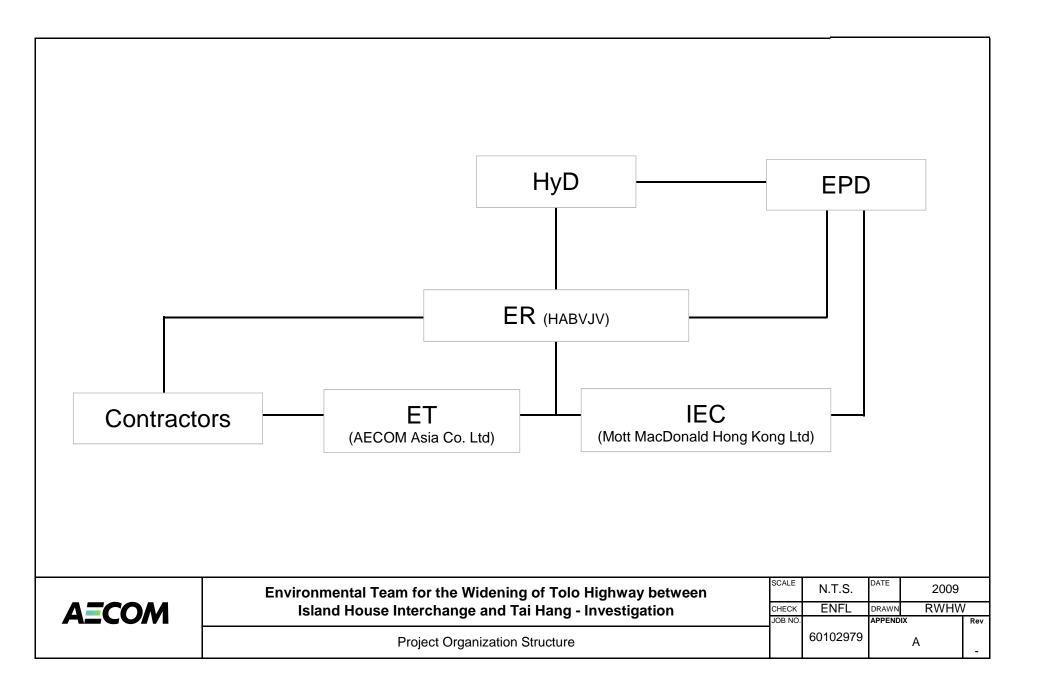








APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

ctivity ID	Activity Name		riginal	Start	Finish				-	2014					
		Ju	uratior (23 3		oril 3 20 2	Ma 7 04 11		01	Jun 08 1		22 29	July 9 06 1
KEY DATES															
Section Comple															
Key Date															
KD-300900	KD9 Section 9 Area SA1, 3 to 9A Road Maintenance	xe (1580)	0		23-Apr-14*			♦ KI	9 Section	9 Area S/	41, 3	to 9Å	Road	d Mair	ntenance
KD-300200	KD2 Section 2 Areas SA8,SA9 + SA9A Work (1052	,	0		31-May-14*					•	 Кр 	2 Sec	tion 2	2 Area	ns SA8,S
KD-300500	KD5 Section 5 Area SA1 Landscape Softwork (133	,	0		20-Jun-14*								• F	i	Section 5
KD-300600	KD6 Section 6 Remainder Landscape Softwork (13		0		27-Jun-14*									- i	D6 Secti
KD-300100 Site Vacation D	KD1 Section 1 Area SA1 Work, Except LS + EW (1	3110)	0		30-Jun-14*									-	KD1 See
Area Handover															
			•												
KD-500150	Portion Site Area SA1 Handover (KD5 + 28 days)		0		17-Jul-14*					<u> </u>					
Landscaping W	CAPE IN SA1: SECT. 5 WORKS														
Landscape Wor															
S5-212800	Areas SA1 Irrigation + Landscape Soft Works		30	22-May-14	20-Jun-14								-	Areas	SA1 Irriç
	OF SOFT LANDSCAPE: SECT. 6 W	ORKS													
Landscaping W															
Landscape Wor	KS														
S6-212800	Remainder Irrigation + Landscape Soft Works		30	29-May-14	27-Jun-14							;	1	= R	emainde
ESTABLISHM	IENT WORKS AT SA1: SECT. 7 WO	RKS													
Establishment	Works														
Landscape and	Establishment Works														
07.044000			005		00 1 15										
S7-211800	Area SA1 Establishment Works		365	21-Jun-14	20-Jun-15										
	OF ESTABLISHMENT WORKS: SE	CI.8 WORKS													
Establishment	works Establishment Works														
S8-214800	Remainder - Establishment Works		365	28-Jun-14	27-Jun-15									ė	
ROUTINE MA	INTENANCE: SECT. 9 WORKS														
Road Maintena	nce									+ + +	+ +				
															- i - i -
	nance of Road Network														
Routine Mainter															
Routine Mainter	Road Maintenance of Road Network	1	1401	22-Feb-10 A	23-Apr-14*			R	pad Mainte	nance of I	Road	Netwo	ork		
S9-100000 Z1: CH 0 to C	Road Maintenance of Road Network H 500: SECT. 1 WORKS	1	1401	22-Feb-10 A	23-Apr-14*			R	oad Mainte	nance of I	Road	Netw	'ork		
S9-100000 Z1: CH 0 to C Noise Barrier at	Road Maintenance of Road Network H 500: SECT. 1 WORKS t Kwong Fuk West		1401	22-Feb-10 A	23-Apr-14*			R	pad Mainte	nance of I	Road	Netw	'ork		
Routine Mainter S9-100000 Z1: CH 0 to C Noise Barrier at Noise Barrier at	Road Maintenance of Road Network H 500: SECT. 1 WORKS	1	1401	22-Feb-10 A	23-Apr-14*			R	pad Mainte	nance of I	Road	Netw	ork		
Routine Mainter S9-100000 Z1: CH 0 to C Noise Barrier at Noise Barrier at	Road Maintenance of Road Network H 500: SECT. 1 WORKS t Kwong Fuk West t Kwong Fuk West Viaduct		1401	22-Feb-10 A	23-Apr-14*					nance of f					
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Cut Slope S4	Activity Name	Original Duratior	Start	Finish	April		2014 May		une	July
				<u> </u>	23 30 06 13 20 2	27 04	11 18 25	01 08	15 22	29 06
	Cut Slope S4 - drainage/ u channels	20	15-Oct-13 A	15-May-14			Cut Slo	pe S4 - d	Irainage/ u	i channels
SB Road & Drain, TCSS Works/Other	Ch 0-300, after NB3									
	TCSS P57 - footing	14	20-Nov-13 A	30-Apr-14		TCS	S P57 - foot	ing		
Road Lighting/ or	High Mast									
	Public Lighting - cabling works	8	22-Apr-14*	30-Apr-14		- i	ic Lighting -	ī.	i i i	
	Public Lighting - power supply connection & test A, after TB1 demolition	8	22-Apr-14	30-Apr-14		Publ	ic Lighting -	ower sup	ply conne	ction & te
the second se	(remaining 1 bay after TB1 removal)									
	NB6 Structural Steel	10	24-Feb-14 A	21-Mar-14 A	NB6 Structural Steel					
S1-208135	NB6 NB Panels	6	22-Mar-14 A	30-Apr-14		NB6	NB Panels			
Cut Slope S4A				45.14						
	Cut Slope S4A - u channels & F124, after TB2 dem.	20	22-Apr-14	15-May-14				pe S4A -	u channel	5
High Mast Lighting										
S1-200112	High Mast HM5 - footing + relocation + lamp	30	14-Feb-14 A	26-Mar-14 A	High Mast HM5 - foo	oting + r	elocation + l	amp		
Noise Barrier NB1										
	NB11 Structural Steel NB11 NB Panels	7 10	20-Mar-14 A 28-Mar-14 A	27-Mar-14 A 30-Apr-14	NB11 Structural Ste		1 NB Panels			
Cut Slope S4B, S4		10	20-1011-14 A	50-Api-14						
	Cut Slope S4B, S4C - excavation	21	04-Mar-14 A	30-Apr-14		Cut	Slope S4B, S	S4C - exc	avation	
S1-031040B	Cut Slope S4B, S4C - drainage/ channels	48	20-Mar-14 A	17-May-14			Cut S	iope S4B,	, S4C - dra	ainage/ ch
	d and Drain, Ch 300-500									
Firemain S1-051305	Firemain- excav, pipe install + pit/new hydrants	14	01-Mar-14 A	15-May-14			Firamo	in- evou	pipe insta	+ nit/not
TCSS Works/Other		14		10-101dy-14				III- excav,	pipe insta	
	Utilities & TCSS buried ducts	24	26-Feb-14 A	17-Apr-14 A	Utilitie	s & TC	SS buried du	ıcts		
S1-051303	Civl prov. works (CPW)- TCSS Pillar Box A	18	15-Mar-14 A	17-Apr-14 A	Civl p	rov wor	ks (CPW)- 1	CSS Pilla	ar Box A	
Road Lighting/ or		10		10.14						
	Public Lighting - Lamp Pole + Lamps Public Lighting - cabling works	18 18	26-Nov-13 A 17-Mar-14 A	19-May-14 19-May-14		i.	i i	0,0	g - Lamp P g - cabling	i i i
	Public Lighting - power supply connection & test	18	17-Mar-14 A	19 May 14					j - power s	i i i
Central Median V	/ork- Noise Barrier + Road/Drain									
Noise Barrier NB	3 CH0-357									
Road Lighting/ or		40	00 Aug 40 A	45 May 44	_		Dublic I	in hetinen	Lanua Dal	
	Public Lighting - Lamp Pole + Lamps Public Lighting - cabling works	18 18	22-Aug-13 A 22-Aug-13 A	15-May-14 15-May-14		i.	1 1		Lamp Pole	1 1 1
	Public Lighting - power supply connection & test	20	22-Apr-14*	15-May-14			i i	1	power sup	il i i
Noise BarrierNB1	0 CH444-500,after TB2 demolition									
Noise Barrier Four										
	Pending VO for searching existing ducting for TCSS works	10	20-Mar-14 A	31-Mar-14 A	Pending VO for s	earchin	g existing du	cting for T	rcss wor	ks
RW W1+ NB1+S1,	k- Ret. Wall, Noise B, Rd									
Noise Barrier NB1	ND2 01200-500									
S1-208015	Northbound work Complete	0	22-May-14				♦ No	rthbound	work Con	nplete
Cut Slope S1										
	Fill Slope S1- drainage	26	18-Oct-13 A	21-May-14			1 1	1.1	- drainage	1 1 1
	Fill Slope S1- backfilling (remaining 50% after relocation of HM7) nyan West Completion	57	20-Nov-13 A	21-May-14				Slope ST-	- backfilling) (remaini
Slip Rd A										
	Slip Road A - drainage + road reconstruction	175	20-Oct-12 A	30-Apr-14		Slip	Road A - dra	linage + r	oad recon	struction
	Ifter TB1 demolition									
High Mast Lightin	-	45	20 Eab 44 4	21 Mar 44 *		foot-	rologet	lome		
S1-031037 Cut Slope S2	High Mast HM6 - footing, relocation + lamp	15	28-Feb-14 A	31-Mar-14 A	High Mast HM6 -	ooting	, relocation -	amp		
	Cut Slope S2- channel (Pending for Slope Profile design)	24	01-Apr-14 A	15-May-14			Cut Slo	pe S2- cł	nannel (Pe	anding for
	S5, (after TB2 demolition)	i di second								
Cut Slope S5										
	Slope F121 + S5 (Pending for Slope Profile design) d and Drain, Ch 300-500	24	01-Apr-14 A	15-May-14			Slope F	121 + S5	o (Pending	tor Slope
Firemain	and Drain, 61/300-300									
	Firemain- excav, pipe install + pit/new hydrants	10	22-Apr-14 A	15-May-14			🗖 Firema	in- excav,	pipe insta	ull + pit/ne۱ ال
TCSS Works/Other	r Utlities									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Utilities & TCSS buried ducts	15	10-Jan-14 A	15-May-14			Utilițies	& TCSS	buried due	cts
Road Lighting/ or S1-200205	High Mast Public Lighting - Lamp Pole + Lamps	15	10-Dec-13 A	15-May-14			י - ישויים י	jobtin ~	Lamp Pole	
	Public Lighting - Lamp Pole + Lamps Public Lighting - buried ducts	20	22-Apr-14*	15-May-14 15-May-14		1	1		buried due	
Roadworks										
	complete	0	15-May-14				♦ comple	te		
S1-200215	CH 1100: SECT. 4 WORKS									
	Ch1100 (Section 4 Works)									
Z2: CH 500 to 0										
Z2: CH 500 to 0		Co	ontract: HY/20	08/09						
Z2: CH 500 to 0					av		···· ·	D - ///	Deci	
Z2: CH 500 to 0	Wide		ontract: HY/20 blo Highway / F		ay	Th	ree Months	Rolling	Programr	ne
Z2: CH 500 to 0		ning of To		Fanling Highwa			ree Months Period of 2	-	-	

ty ID	Activity Name	Original Duratior	Start	Finish	April	20 27	2014 May 7 04 11 18 25	Jun 01 08 1		Jul 29 06
VO No.28 (VO 21	1) - Diversion of Existing Stormwater Drain in Kwong Fuk Park	(23		······································	
VO28-1085	Town Gas installation works (from main to complete connection to MTR	50	05-Dec-13 A	15-May-14			Town G	as installatio	1 1	
VO28-1090	Backfill Topsoil Manhole Z to P	14	16-May-14	31-May-14				Backfill T		
VO28-1150	Completion of VO28 CCTV+ E&M Works	0		31-May-14			•	Completi	ion; of VL	28
VM Test+Drain (TCSS E&M Work										
S4-208355	Cabling works for Utilities/TCSS/Lighting	22	20-Sep-13 A	30-Apr-14			Cabling works for	i i		-
S4-208370	T&C - power supply system to TCSS/Lighting	6	24-Apr-14	30-Apr-14			T&C - power sup	bly system t	o TCSS	Lighting
Section Complet										
KD-300400A	ZONE 2 COMPLETE - KD4 Section 4	0		31-May-14				♦ ZONE 2	COMPL	ETĘ - K
	ound Work- Ret. Wall, Noise B, Rd Deck + Noise Barrier									
Bridge Deck										
S4-N01375	Noise barrier Post	7	01-Apr-14 A	08-Apr-14 A	Noise	barrier	Post			
S4-N01385	Noise barrier panel	8	22-Apr-14	30-Apr-14			Noise barrier pan	əl		
RW W4-W7+Slop	e S7+NB15, NB12+Slip Rd L									
Noise Barrier NB1										
S4-208120 S4-208270	NB12 NB Panels	454	01-Feb-12 A 22-Apr-14*	31-Mar-14 A	NB12 NB P	anels	NIP12 (boy 1.2) N	P Danal		
Cut Slope S6 and	NB12 (bay 1-3) NB Panel	8	22-Api-14"	30-Apr-14			NB12 (bay 1-3) N			
S1-203065A	Cut slope S6 - excavation	403	01-Feb-12 A	15-May-14				e S6 - exca	avation	
S1-203065B	Cut slope S6 - drainage/U-channels	20	22-Apr-14*	15-May-14				e S6 - drai	i i	hannel
Fill Slope S7			·	·						
S4-031070B	Fill Slope S7- backfilling to road level	1016	20-Jul-10 A	30-Apr-14			Fill Slope S7- bac	T !		
S4-031070C	Fill Slope S7- u channels	20	22-Apr-14*	15-May-14			Fill Slop	e S7 - u cha		
S4-031070D	Fill Slope S7- metal works + hand rails etc.	13	16-May-14	30-May-14				Fill Slope	S7- met	al works
TCSS Works/Othe	, Road&Drain+Utilities									
S4-512850	Civl prov. works (CPW)- TCSS Pillar Box C	20	20-Sep-13 A	30-Apr-14		į	Civl prov. works (PW)- TC:	SS Pillar	Box C
S4-512880	Utilities+ TCSS + CPW- SC 63/S63	14	16-Oct-13 A	30-Apr-14			Utilities+ TCSS +	1 1 1	1 1	
S4-031160	Power supply cable ducts	31	20-Nov-13 A	30-Apr-14			Power supply cab	le ducts		
Road Lighting/ o	r High Mast									
S4-031178	Public lighting - Lamp Pole + Lamps	12	18-Oct-13 A	30-Apr-14		:	Public lighting - La			
S4-031178A S4-031178A10	Public Lighting - cabling works Public Lighting - cabling works	6 8	18-Oct-13 A	30-Apr-14			Public Lighting - c Public Lighting - c	F 1		
S4-031178B10	Public Lighting - power supply connection & test	8	22-Apr-14 22-Apr-14	30-Apr-14 30-Apr-14			Public Lighting - p	Ĩ.		tion & te
S4-512930	Public lighting - Lamp Pole + Lamps	8	22-Apr-14	30-Apr-14			Public lighting - La	1 1 1	1 1	
S4-031178B	Public Lighting - power supply connection & test	4	26-Apr-14	30-Apr-14		ė	Public Lighting - p	ower suppl	y connec	tion & te
<u> </u>	ound Work- Ret. Wall, Noise B, Rd									
Mod. Existing La	m Kam Railway Br. +Noise B.									
S4-193900	LKRB NB plinth at slow lane (besides W4A)	75	13-Jan-14 A	16-May-14				NB plinth at	slow lan	e (besid
S4-193910	NB steel post installation	8	23-Jun-14	09-Jul-14				- p		
S4-193920	NB panel installation	8	11-Jul-14	28-Jul-14						
Noise Barrier NB	316									
Noise Barrier Fou				1						
S4-513145	NB16 - (5-7) bay Remaining Wall Stem & plinth	42	06-Dec-13 A	30-Apr-14			NB16 - (5-7) bay		Wall Ste	m & plir
S4-513150 S4-513160	NB16 - Drainage work NB16 - Backfilling	26 12	16-Dec-13 A 18-Mar-14 A	30-Apr-14 30-Apr-14		;	NB16 - Drainage NB16 - Backfilling	i i		
	Ind to - Dackinning	12	10-1VIAI - 14 A	50°Api=14						
S4-207160	NB16 Structural Steel	10	07-Jun-14	18-Jun-14					NB16	Structu
S4-208160	NB16 NB Panels	10	19-Jun-14	30-Jun-14						NB16
	4A & NB13 & Slip Rd M									
Retaining Wall W		1 1								
S4-03504A040	RW W4A (last 4 bays) excavation + base slab+wall thickening	30	06-Jan-14 A	26-Apr-14			W W4A (last 4 bay		1 1	
S4-03504A070 S4-03504A050	VO164 - L3 Containment barrier RW W4A (last 4 bays), wall stem	31 23	22-Apr-14* 28-Apr-14	28-May-14 26-May-14				VO164 - L W W4A (la	i i	1
S4-03504A050 S4-03504A055	RW W4A (last 4 bays), wall stem RW W4A, Backfill (last 4 bays)-1st 3m	12	28-Apr-14 27-May-14	10-Jun-14				1 1	W W4A,	1
	RW W4A, Backfill (last 4 bays)	17	11-Jun-14	30-Jun-14					- i - i	RWV
Noise Barrier NB1				J						
S4-208140	NB13 Structural Steel (last 2 bays)	5	09-Jul-14	14-Jul-14						
S4-208170	NB13 NB Panels (last 2 bays)	8	15-Jul-14	23-Jul-14						
	, Road&Drain+Utilities									
Road Drainage S4-031210	Road Drainage - pipelayinng + manhole	44	02-Jul-13 A	30-Apr-14		ļ	Road Drainage -	pipelavinno	+ manh	ole
Firemain										
S4-031220	Firemain- excav, pipe install + pit/new hydrants	36	25-Jul-13 A	15-May-14			Firemai	n- excav, pi	pe install	+ pit/ne
TCSS Works/Othe	er Utlities									
		С	ontract: HY/20	08/09						
						1				
		ing of T-		anlina Ulabur	W.		T			_
	Wideni	ing of To	olo Highway / F	anling Highwa	у		Three Months	Rolling Pr	ogramm	ie

ctivity ID	Activity Name	Origi	inal	Start	Finish			2014				
		Jura				April 23 30 06 13 2	0 27	May 04 11 18 25		une 15 22	2 29	July 06 13
S4-031225	Utilities + TCSS + CPW- SC 20/S20	36		17-Jul-13 A	15-May-14			Utilities -	TCSS	+ CPW-	SC 2	0/S20
S4-031230	Power supply cable ducts	36	6	20-Jul-13 A	15-May-14			Power s	upply cal	ple ducts	\$	
Road Lighting/ o			•	04 0-+ 40 4	20 Apr 44				b C b c c c c c c c c c c	hlin		
S4-031250A S4-031250	Public Lighting - cabling works Public lighting - Lamp Pole + Lamps	22		04-Oct-13 A 20-Dec-13 A	30-Apr-14 15-May-14			Public Lighting - ca		1 1		amns
S4-031250B	Public Lighting - power supply connection & test			20-Dec-13 A 24-Apr-14	15-May-14	-	- :		I T	1 1	- 11	connectio
Roadworks												
A1170	NB16 - Road Re-construction for (HS)	22	2	01-May-14	27-May-14			i i i i i i i i i i i i i i i i i i i	NB16 - F	oad Re	-oons	truction fo
S4-031260	Northbound road substantial completed in Zor	ne 2 0)	16-May-14				Northbo	und roa	d substa	ntial o	completed
A1210	Road Work for Slip Road M (HS)	22	2	01-Jul-14	25-Jul-14							1 I 1 I
<u> </u>	CH 2000: SECT. 4 WORKS											
Section Comple												
Section Complet	tion Date											
KD-300400B	ZONE 3 COMPLETE - KD4 Section 4	0)		30-Jun-14	-						ZONE 3 C
TCSS Works			, ,									
TCSS E&M Work	cs & Handover											
S4-0512765	Cabling works for Utilities/TCSS/Lighting	24	4	20-Sep-13 A	30-Jun-14		-				•	Cabling w
S4-0512780	T&C - power supply system to TCSS/Lighting	36	6	20-Sep-13 A	30-Jun-14							T&C - pov
S4-0512785	Handover to TCSS Contractor	0)		30-Jun-14							Handover
	oound Work- Ret. Wall, Noise B, Rd											
Fill Slope S13 and Fill Slope S13							+					
S4-031130C	Fill Slope S13- u channels	36	3	12-Mar-12 A	17-Apr-14 A	-	l Slor	e S13- u channels				
S4-031130D	Fill Slope S13- metal works + hand rails etc.	23		15-Aug-12 A	17-Apr-14 A		- i - 📘	e S13- metal works	+ hand	rails etc.		
Stage 3: Central	Median - Ret. Wall, Noise B, Rd			-								
CM: CH1260-160	00, L=410m, Road&Drain+Utilities											
TCSS Works/Othe												
	Power supply cable ducts	91	1	20-Feb-13 A	31-Mar-14 A	Power supply	' cab	e ducts				
Road Lighting/ o S4-051273A	Public Lighting - cabling works	0	1	20-Feb-13 A	31-Mar-14 A		~	bling works				
S4-051273A S4-051273B	Public Lighting - cabling works Public Lighting - power supply connection & tes	9' st 9		20-Peb-13 A 11-Mar-14 A	31-Mar-14 A 31-Mar-14 A	Public Lightin		wer supply connect	tion & too			
Roadworks	Tuble Lighting - power supply connection a te						9 M					
S4-0512740	Road Works completed	0)	31-Mar-14 A		Road Works	com	leted				
Noise Barrier Stru	uctural Steel & Panels											
S4-208200	NB20 & NB23 NB Panels	16	60	15-Dec-12 A	29-Mar-14 A	NB20 & NB23	NВ	anels				
W20A + Slope S2	20											
Cut Slope S20A S4-03120AA	Cut Slope S20A - excavation	30	0	20-Jan-14 A	03-May-14			Cut Slope \$20A		tion		
S4-03120AA S4-03120AB	Cut Slope S20A - drainage/channels	30		20-Jan-14 A 23-Apr-14	28-May-14		1	a a a a a	1	1	- drai	inage/chai
	ound Work- Ret. Wall, Noise B, Rd		•	207,0111	20 May 11							
	xisting Bridge No. 10 + Noise B											
Bridge Roadwork	ks & Furnitures											
S4-194880	Install noise barrier (1st half from east end)	36	6	20-Mar-14 A	17-Apr-14 A	-1: :1 : : :	- 1	oise barrier (1st hal	1	1 1 1		
S4-194889	Install noise barrier (2nd half to west end)	40		20-Mar-14 A	17-Apr-14 A	in in		oise barrier (2nd ha	1	t end)		
S4-194899	Road Surfacing & Furnitures	18		18-Apr-14 A	20-Apr-14 A		- i - 📘	Surfacing & Furnitu	i	4		
S4-194990	Bridge No. 10 Modification Completion	0	,		20-Apr-14 A	▼	Briag	e No. 10 Modificatio	n Compi	etion		
Bridge Roadwork												
S4-195910	Install Noise barrier panel	30	0	22-Mar-14 A	25-Apr-14 A		In	stall Noise barrier pa	anel			
S4-195900	Bridge No. 11 Modification Completion	0			25-Apr-14 A		- i - 1	idge No. 11 Modifica	1	pletion		
RW W9, Slope S9	9, & Noise Barrier NB19, NB22											
Noise Barrier NB			_									
S4-207190	NB19 Structural Steel, 10 bays	35		01-Apr-14 A	01-May-14		;	NB19 Structural S	i i	1 1		
S4-207190A S4-208190	NB19 Structural Steel, 21 bays NB19 NB Panels, 10 bays	35		01-Apr-14 A 01-Apr-14 A	01-May-14 01-May-14			NB19 Structural S NB19 NB Panels,	1	1 1		
S4-208190 S4-208190A	NB19 NB Panels, 10 bays	10		01-Apr-14 A	01-May-14 01-May-14			NB19 NB Panels, NB19 NB Panels,		i i		
Fill Slope S9				1					,0			
S4-031095A	Fill Slope S9- backfilling	24	4	01-Apr-14 A	15-May-14	1	;	Fill Slope	s9 , ba	ckfilling		
S4-031095B	Fill Slope S9 - drainage	12	2	01-Apr-14 A	15-May-14			Fill Slope	9 S9 - dr	ainage		
	50, L=410m, Road&Drain+Utilities											
Road Drainage	Deed Decise and the state	i	•	04 4 4 6 1								
S4-0512620	Road Drainage - pipelayinng + manhole	48	ช	01-Aug-13 A	15-Apr-14 A	Roa	ad D	ainage - pipelayinng) + manh	iole		
Firemain S4-0512630	Firemain- excav, pipe install+pit/new hydrants	24	4	17-Sep-13 A	01-May-14			Firemain- excav,	oipe inet	all+nit/ne	w hv	drants
TCSS Works/Othe		Z*	•		51 May 14							
S4-0512635	Utilities +TCSS buried ducts + civil prov. works	36	6	21-Oct-13 A	30-Jun-14							Utilities +T
S4-0512627	TCSS High mast M7/S117 - footing	17	7	01-Apr-14 A	15-Apr-14 A	ТС	S\$ H	gh mast M7/S117 -	footing			
S4-0512640	Power supply cable ducts	34	4	22-Apr-14*	31-May-14				Power	supply	cable	ducts
Road Lighting/ o	_											
S4-0512660	Public lighting - Lamp Pole + Lamps	36		21-Oct-13 A	15-May-14			Public lig	hting - L	amp Po	le + L	amps
			Co	ontract: HY/200	08/09	T						
		Widening o	of To	olo Highway / F	anling Highwa	ay		Three Months I	Rollina I	Program	nme	
		-		C F		-			-	•		2044
		Between Isla	ind	House Intercha	ange and Fanl	ing	f	or the Period of 21	Apr 20	14 to 20	Jul	2014
		(Stage 1 - Betwee	n Is	land House Int	erchange and	Ma Wo)						
		(Cago i Deineci										

Activity ID	Activity Name	Original	Start	Finish	2014	
		Duratior			April May June 23 30 06 13 20 27 04 11 18 25 01 08 15 22	July 2 29 06 13
S4-051266A	Public Lighting - cabling works	36	21-Oct-13 A	15-May-14	Public Lighting - cabling w	
S4-051266B	Public Lighting - power supply connection & test	12	01-May-14	15-May-14	Public Lighting - power su	ipply connectic
Roadworks						
S4-0512645	Roadworks +Slip Road N- Resurfacing	26	18-Oct-13 A	15-May-14	Roadworks +Slip Road N	- Resurfacing
S4-0512655	Roadworks +Slip Road N- road marking + furnitures	6	09-May-14	15-May-14	Roadworks +Slip Road N	 rpad markinç
Z4: CH 2000 t	o CH 2400: SECT. 2 WORKS					
Stage 1A: Sout	hbound - S14-, RW21-28, TP7,Rd/Dr					
Retaining Wall V	V24 to W28 & Slope S17					
Cut Slope S17						
S2-031170	Slope S17 (SB) (after 29A & W29B part)	45	03-Jun-13 A	05-Apr-14 A	Slope S17 (SB) (after 29A & W29B part)	
SB Road & Drai	in, Ch 2000-2200, L=200m					
TCSS Works/Oth	ner Utlities					
S2-031295	Power supply cable ducts	277	25-Jul-12 A	30-Apr-14	Power supply cable ducts	
Cut Slope S14						
S2-031140E10	Slope S14 - Soil nail & remaining drainage work (VO343-additional soil	61	10-Jun-13 A	15-May-14	Slope S14 - Soil nail & rer	maining draina
Stage 1B: North	nbound- S15-S19, RW31-33, Rd/Dr					
Retaining Wall V	V30, W31, W32(Piled), W33					
Retaining Wall V	N31,32, 33					
S2-GCL036	Northbound - GCL interfacing work completion for Lane 1,2,3 open	0		20-Apr-14*	Northbound - GCL interfacing work compl	etion for Lane
S2-GCL046	Completion of works subject to GCL works completion	30	22-Apr-14	27-May-14	Completion of wo	rks subject to
Stage 2A: Sout	hbound- S17, RW 29-34, NB27-29					
Noise Barrier N	B27, NB29					
Noise Barrier NE	329					
S2-035350	NB29 NB Panels	7	16-Oct-13 A	31-May-14	NB29 NB Pane	≱ls
Retaining Wall, V	w29 & NB27(@W29)					
Retaining Wall V	N29A					
S2-03529AB	RW W29A facing panel structure (bay 1)	34	22-Apr-14*	31-May-14	RW W29A fac	ing panel stru
SB: CH2200-24	00, L=200m, Road&Drain+Utilities					
Road Drainage						
S2-031250	W29A bay 1 road drainage after GCL TTA stage 6A	20	15-May-14	07-Jun-14	W29A bay	1 road draina
TCSS Works/Oth	ner Utlities					
S2-031287	TCSS S160 (VDS) - footing	23	14-Sep-13 A	30-Apr-14	TCSS S160 (VDS) - footing	
Roadworks						
S2-031255	W29A bay 1 road work after GCL TTA stage 6A	14	15-May-14	30-May-14	W29A bay 1 roa	ad work after (
S2-031265	Remaining roadwork to final pavement level after GCL TTA stage 6A	6	31-May-14	07-Jun-14	Remaining	roadwork to
Stage 3: Centra	I Median- NB26, NB29 +Road&Drain					
CM: NB26 & NB	328 L=400m & Road&Drain+Utilities					
Noise Barrier St	ructural Steel & Panels					
S2-208300	NB26 NB Structural Steel	7	08-Jul-13 A	15-Apr-14 A	NB26 NB Structural Steel	
S2-208310	NB26 NB Panels	12	01-Apr-14 A	15-Apr-14 A	NB26 NB Panels	
S2-208395	Implement TTA- divert traffic to new SB, NB & CM	0	22-Apr-14		♦ Implement TTA- divert traffic to new \$B,	NB & CM
Stage 2B: North	nbound- NB25					
Noise Barrier N	B25					
S4-207250	NB25 Structural Steel	21	01-Apr-14 A	15-Apr-14 A	NB25 Structural Steel	
S4-208250	NB25 NB Panels	10	09-Apr-14 A	15-Apr-14 A	NB25 NB Panels	
TCSS Works						
TCSS E&M Wor	ks & Handover					
00.000.000			45 0 1 10 1	00 4 - 11		
S2-208420	Lighting & T&C	24	15-Oct-13 A	30-Apr-14	Lighting & T&C	
S2-208450	T&C - power supply system to TCSS	8	22-Apr-14	30-Apr-14	T&C - power supply system to TCS	,S
S2-208425	Handover to TCSS Contractor	0		30-Apr-14	 Handover to TCSS Contractor 	

Contract: HY/2008/09	
Widening of Tolo Highway / Fanling Highway	Three Months Rolling Programme
Between Island House Interchange and Fanling	for the Period of 21 Apr 2014 to 20 Jul 2014
(Stage 1 - Between Island House Interchange and Ma Wo)	

	Askinika Nama	· · · ·	Anti-the of	Original Otal	Tinia!	2010 201	1 2012	2013	2014
ivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 201 21 Q2 Q3 Q4 Q1 Q2 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1	Q3 Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2 (
HY/2009/0	8 TOLO HIGHWAY WIDENING, Upda	ted on 20140126					1 1 2 2 2 2 2 2 2 2 2 3 3 3	<mark> 3 3 3 3 3 3 4 4 4 4 </mark>	
	VE SUMMARY								
	VE SOMMANT								
Design	Alternative Design		100%	292 26-Jul-10 A	14-Jan-11 A	Alternative	Decign		
			100%	292 20-JUF TO A	14-Jan-11 A	Allemative	pesign		
Constructi									
A1000	SA21 - North Bound		100%	959 15-Oct-10 A	25-Dec-13 A				SA21 - Nor
A1010	SA21 - North Bound	-100	95.99%	814 15-Oct-10 A					SA21
A1020	SA21 - Middle Lane	-84	94%	275 08-May-12 A					
Section 2									
A1030	SA22 - North Bound		100%	1016 26-Feb-10 A	07-Dec-13 A				SA22 - North
A1040	SA22 - South Bound	-70	94.7%	1037 01-Apr-10 A	22-Mar-14				\$A22
A1060	SA23 - South Bound		100%	388 28-Dec-11 A	25-Jan-14 A				
A1070	SA24 - North Bound	-95	89.83%	787 25-Aug-10 A	16-Apr-14				\$A
A1080	SA25 - South Bound	-48	96.98%	777 20-Oct-10 A	19-Feb-14				\$A25 -
A1090	SA26 - North Bound	-55	96.75%	1216 26-Feb-10 A	07-Mar-14				SA26
A1100	SA26 - South Bound	-61	96.22%	1216 26-Feb-10 A	13-Mar-14				SA26
Section 3									
A1110	SA26A - North Bound	-15	97.48%	1191 26-Feb-10 A	25-Feb-14				SA26A
A1120	SA26A - South Bound	-21	95.96%	879 26-Feb-10 A					SA26/
A1130	SA26A - North & South Bound		100%	612 26-Feb-11 A				\$A2	26A - North & Sout
A1140	SA27 - South Bound	-15	96.43%	826 27-Mar-10 A	25-Feb-14				 SA27 -
Section 4									
A1150	SA28 - North Bound	-65	92.64%	1216 26-Feb-10 A	-				SA
A1160 A1170	SA28 - South Bound SA29 - North Bound	-8	97.01% 100%	1099 23-Jun-10 A					SA28
A1170	SA32 - Roadside FVMS		100 %	909 26-Jan-11 A 265 26-Mar-11 A			SA32 - Roadside F		SA25 NOILLI DOL
Section 5			10070	200 20 10 11 11	10 000 117	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
A1190	SA31 - South Bound		100%	884 26-Feb-10 A	28-Mar-13 A			SA31 - Soutt	h Bound
Section 7			10070		20 111011				Louinu
A1200	SA41 - Site Office	-71	85.96%	1581 26-Feb-10 A	05-Sep-14				<u></u>
A1210	SA42 - Temporary Contractor's Works Area	0	90.52%	1582 25-Feb-10 A	-				
	7 (Subject to Excision, Engineer may instru	ct within 819 days)							
A1300	Validity Period	140	98.6%	819 25-Feb-10 A	07-Feb-14				Validity I
A1310	SA28 - North Bound		100%	34 24-May-12 A				S	
A1320	SA30A - North Bound		100%	155 14-May-12 A					A30A - North Bou
	ES/ MILESTONES								
	andover Dates								
Section 1	(Site Area SA21)								
ject ID: J3318-UP	PDATE 2014JAN Current Bar	Highwaye Dona	rtment -	Contract No. HY/	2009/08			UWP Revisi	
	009/08 TOLO HIGHWAY							Date Revision -Jan-14 UWP January, 2014	Checked Appro WY JC
nt Date:30-Jan-14				way/ Fanling Hig				Jun 17 Junuary, 2014	
a Date: 27-Jan-14 je 1 of 46	 ♦ ♦ Milestone 	Stage 1 - E	etween I	Ma Wo and Tai Ha	ng				
,		Updated Works							

tivity ID	Activity Name		ctivity %	Original Start Duration	Finish	2010 2011 2012 2013 20 21 Q2 Q3 Q4 Q1
BUOLOUG		Float Co	-			123456789111111111111222222222233333333333344444444
PHSA2100	Possession of SA21 (Day365)		100%	0 16-Jul-10 A		Possession of SA21 (Day365)
	(Site Area SA26A and SA 27)		l.			
PHSA26A0	Possession of SA26A (Day0)		100%	0 26-Feb-10 A		Possession of SA26A (Day0)
PHSA2700	Possession of SA27 (Day 90)		100%	0 26-Mar-10 A		♦ Possession of SA27 (Day 90)
	(Site Area SA22, SA23, SA24, SA25 and SA26)					
PHSA2200	Possession of SA22 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA22 (Day0)
PHSA2300	Possession of SA23 (Day180)		100%	0 04-May-10 A		♦ Possession of SA/23 (Day180)
PHSA2400	Possession of SA24 (Day180)		100%	0 04-May-10 A		♦ Possession of \$A/24 (Day180)
PHSA2500	Possession of SA25 (Day270)		100%	0 04-May-10 A		♦ Possession of \$A25 (Day270)
PHSA2600	Possession of SA26 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA26 (Day0)
<u> </u>	(Site Area SA28, SA29 and SA32)					
PHSA2800	Possession of SA28 (Day0)		100%	0 26-Feb-10 A		Possession of SA28 (Day0)
PHSA2900	Possession of SA29 (Day270)		100%	0 27-Jul-10 A		♦ Possession of SA29 (Day270)
PHSA3200	Possession of SA32 (Day365)		100%	0 25-Feb-11 A		♦ Possession of SA32 (Day365)
	(Site Area SA31)					
PHSA3100	Possession of SA31 (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A31 (Day0)
Section 7 ((All Works Except Works Included in Other Sections)					
PHSA4100	Possession of SA41 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA41 (Day0)
PHSA4200	Possession of SA42 (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A42 (Day0)
PHSA4300	Possession of SA43 (Day90)		100%	0 04-May-10 A		Possession of \$A43 (Day90)
Section 8 ((Estiblishment Works in Site Area SA21)					
PHSA2110	Possession of SA21 (Day1217)	-214	0%	0 27-Jan-14		🔶 Pos
Section 9 ((Estiblishment Works in Site Area SA22, SA23, SA24, SA25 a	nd SA26)				
PHSA2210	Possession of SA22 (Day1217)	-214	0%	0 27-Jan-14		🔶 Pos
PHSA2310	Possession of SA23 (Day1217)	-214	0%	0 27-Jan-14		Pos
PHSA2420	Possession of SA24 (Day1217)	-214	0%	0 27-Jan-14		Pos
PHSA2510	Possession of SA25 (Day1217)	-214	0%	0 27-Jan-14		🔷 Pós
PHSA2610	Possession of SA26 (Day1217)	-214	0%	0 27-Jan-14		🔷 Pos
Section 10	0 (Estiblishment Works in Site Area SA26A and SA27)					
PHSA26A1	Possession of SA26A (Day1217)	-214	0%	0 27-Jan-14		🔶 Pós
PHSA2710	Possession of SA27 (Day1217)	-214	0%	0 27-Jan-14		🔶 Pos
Section 11	(Estiblishment Works in Site Area SA28 and SA29)					
PHSA2810	Possession of SA28 (Day1217)	-214	0%	0 27-Jan-14		🔶 Pos
PHSA2910	Possession of SA29 (Day1217)	-214	0%	0 27-Jan-14		Pos
Section 12	2 (Estiblishment Works in Site Area SA30 and SA30A)					
PHSA3000	Possession of SA30 (Day1217)	-214	0%	0 27-Jan-14		Pos
PHSA30A0	Possession of SA30A (Day1217)	-214	0%	0 27-Jan-14		◆ Pos
Section 13	Remainder of Estiblishment Works)					
PHSA3110	Possession of SA31 (Day1217)	-178	0%	0 27-Jan-14*		♦ Pós
PHSA3220	Possession of SA32 (Day1217)	-178	0%	0 27-Jan-14*		🔶 Pós
PHSA4120	Possession of SA41 (Day1217)	-178	0%	0 27-Jan-14*		🔶 Pós
PHSA4220	Possession of SA42 (Day1217)	-178	0%	0 27-Jan-14*		
PHSA4330	Possession of SA43 (Day1217)	-178	0%	0 27-Jan-14*		→ Pos
	Comprises Routine Maintenance of Road Network in Site Ar		1)			
PHSA2130	Possession of SA21 for Routine Maintenance (Day365)		100%	0 16-Jul-10 A		Possession of SA21 for Routine Maintenance (Day365)
PHSA2230	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 21 Q2 Q3 Q4 Q1 Q2
		Float	Complete	Duration		1234567891111111111122222222223333333333344444444
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 \$A/24 for Routine Maintenance: (Day180)
PHSA2530	Possession of SA25 for Routine Maintenance (Day270)		100%	0 04-May-10 A		♦ Possession of \$A25 for Routine Maintenance (Day270)
PHSA2630	Possession of SA26 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A26 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 SA30A for Routine Maintenance (Day 180)
PHSA3130	Possession of SA31 for Routine Maintenance		100%	0 26-Feb-10 A		Possession of SA31 for Routine Maintenance
Section 1	7 (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: C
HDS01100	KD1: Completion of Section 1 - (Day1216) - Substantial Completion for Road Opening	-71	0%	0	30-Jan-14*	♦ KD1: Cor
HDS02000	KD2: Completion of Section 2 - (Day1216) - Overall Completion of Works	-95	0%	0	16-Apr-14*	KD₂
HDS02100	KD2: Completion of Section 2 - (Day1216) - Substantial Completion for Road Opening	-70	0%	0	22-Mar-14*	♦ KD2;
HDS03000	KD3: Completion of Section 3 - (Day1216) - Overall Completion of Works	-59	0%	0	10-Apr-14*	i k∂ k/D3
HDS03100	KD3: Completion of Section 3 - (Day1216) - Substantial Completion for Road Opening	-17	0%	0	28-Feb-14*	♦ KD3: C
HDS04000	KD4: Completion of Section 4 - (Day1216) - Overall Completion of Works	-65	0%	0	26-Apr-14*	♦ KD
HDS04100	KD4: Completion of Section 4 - (Day1216) - Substantial Completion for Road Opening	-8	0%	0	28-Feb-14*	♦ KD4: C
HDS05000	KD5: Completion of Section 5 - (Day884)		100%	0	28-Mar-13 A	♦ KD5; Completion of Section 5 -
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
DESIGN	SUBMISSION					
Alternative	e Design					
	nvestigation & 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	-	Report of Ground Investigation
			100 /8	30 12-Api-10 A	10-3011-10 A	
	AD1: W56B		1000/	00 00 11	00 14 10 1	
AD000110	AD1 - Design Period		100%	80 29-Mar-10 A		
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)
	AD2: W57B					
AD000210	AD2 - Design Period		100%	72 14-Apr-10 A		AD2 - Design Period
AD000220	AD2 - Full Package to ICE for Certification		100%		31-Aug-10 A	AD2 - Full Package to ICE for Certification
AD000230	AD2 - Approval by ER/CLIENT/CEDD (GEO)		100%	172 26-Nov-10 A		AD2;- Approval;by ER/CLIENT/CEDD (GEO)

	4						
Activity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 20 21 Q2 Q3 Q4 Q1 Q2 Q3 Q3	014 Q2 Q
Package A	AD3: W69				1		
AD000310	AD3 - Design Period		100%	75 03-May-10 A	31-Jul-10 A	AÞ3 - 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	AD4: 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%	18 10-Sep-10 A	09-Nov-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 /	AD5 (Noise Barrier Foundation): NB38, NB39, NB41 & NB43						
AD000510	AD5 - Design Period		100%	98 21-Jul-10 A	22-Oct-10 A	AD5 - Design Períod	
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)	
	LS PROCUREMENT						
	erials (Detail shall refer to supplementary information)						
Water Wo	rks						
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	Parapet SSD161						
MA001050	Place Order		100%	0 26-May-11 A		♦ Place Order	
MA001060	Fabrication, Manufacturing & Delivery		100%	350 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%	630 31-Jul-10 A	05-Aug-12 A	Fabrication, Manufacturing & Delivery	
Movemen	t Joint						
	Place Order		100%	0 31-Aug-10 A		Place Order	
MA001100	Fabrication, Manufacturing & Delivery		100%	620 31-Aug-10 A	31-Aug-12 A	Fabrication, Manufacturing & Delivery	
	UCTION PHASE				5		
	ies & General Requirement						
	•						
Prelimina							
	Submissions						
PR000000	Commencement of Works		100%	0 26-Feb-10 A	05 M 40 A	Commencement of Works	
PR001000	Site Establishment		100%	90 26-Feb-10 A	25-May-10 A	Site Establishment	
PR001010	Effect required Insurances		100%	0 26-Feb-10 A		♦ Effect required Insurances	
PR001030	Erect Contractor's Office Compound		100%	69 26-Feb-10 A	-	Erect Contractor's Office Compound	
PR001040	Submit Site Organization Chart		100%	14 26-Feb-10 A		Submit Site Organization Chart	
PR001050	Submit Site Layout Plan		100%	7 26-Feb-10 A		I Submit Site Layout Plan	
PR001060	Prepare/Submit Initial Works Programme		100%	7 26-Feb-10 A		Prepate/Submit Initial Works Programme	
PR001070	Approval on Initial Works Programme		100%	30 04-Mar-10 A	· ·	Approval on Initial Works Programme	
PR001080	Prepare/Submit Detailed Works Programme		100%	58 03-Apr-10 A		Prepare/Submit Detailed Works Programme	
PR001090	Prepare/Submit First 3-month Programme		100%	14 26-Feb-10 A		Prepare/Submit First 3-month Programme	
PR001100	Submit initial 12-month Pgr for Rou. Maint. Work		100%	14 26-Feb-10 A		Submit initial 12-month Pgr for Rou. Maint, Work	
PR001110	Submit Rolling 3month Routine Maint. Program		100%	14 26-Feb-10 A		Submit Rolling; 3month Routine Maint. Program	
PR001170	Prepare/Submit Subcon Management Plan (SMP)		100%	30 26-Feb-10 A		Prepare/Submit Subcon Management Plan (SMP)	
PR001200	Submit Interface Management Plan		100%	60 26-Feb-10 A		Submit Interface Management Plan	
PR001242	Application of Expressway Permit		100%	7 26-Feb-10 A		Application of Expressway Permit	
PR001244	Approval of Expressway Permit		100%	21 04-Mar-10 A	24-Mar-10 A	□ Apprioval;of Expressway;Permit	

	5					
Activity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3
PR001246	Issurance of Excavation Permit form Hyd		100%	7 26-Feb-10 A	03-Mar-10 A	1234567891111111111112222222222233333333333344444444
PR001256	Complete All General Submission		100%	0	30-May-10 A	Complete All General Submission
Technical	Submission		ļ ļ_			
PR001250	Submit Draft Traffic Management Contingency		100%	45 26-Feb-10 A	10-Apr-10 A	🖾 Submit Draft Traffic Management Contingency
PR001260	Submit Sch of Const Seq/TTA in Prin Agreement		100%	14 26-Feb-10 A	10-Mar-10 A	Submit Sch of Const Seq/TTA in Prin Agreement
PR001270	Submit TIA/TTA to ER, TD, HKPF etc for Approval		100%	60 26-Feb-10 A	25-Apr-10 A	Submit: TIA/TTA to ER, TD, HKPF etc for Approval
PR001280	Prepare/Submit Sch of Util Arrangement		100%	60 26-Feb-10 A	25-Apr-10 A	Prepare/Submit Sch of Util Arrangement
PR001290	Prepare/Submit Conc Mix Design and Trial Test		100%	70 26-Feb-10 A	05-May-10 A	Prepare/Submit Conc Mix Design and Trial Test
PR001300	Perform Slope / Topographic Survey		100%	95 26-Feb-10 A	30-May-10 A	Perform Slope / Topographic Survey
PR001310	Perform Natural Terrain Survey		100%	200 01-Jan-11 A	19-Jul-11 A	Perform Natural Terrain Survey
PR001320	Perform Tree Survey		100%	125 26-Feb-10 A	29-Jun-10 A	Perform Tree Survey
PR001330	Perform Existing Structural Survey		100%	95 26-Feb-10 A	30-May-10 A	Perform Existing Structural Survey
PR001340	Install Geotechnical Instrumentation		100%	90 26-Feb-10 A	25-May-10 A	Install Geotechnical Instrumentation
PR001350	Design for Temporary Noise Barrier		100%	120 26-Feb-10 A	-	Design for Temporary Noise Barrier
PR001360	Approval for Temporary Noise Barrier		100%	30 26-Jun-10 A	24-Jul-10 A	Approval for Temporary Noise Barrier
PR001370	Design for Irrigation System		100%	150 26-Feb-10 A		Designi for Irrigationi System
PR001380	Approval for Irrigation System		100%	24 26-Feb-11 A		Approval for Irrigation System
PR001385	Detail review of the natural terrain hazard assessment by GEO		100%		23-Jan-12 A	Detail review of the natural terrain hazard assessment by GEO
PR001390	Design for Permanent Debris Catch Fence		100%	90 26-Oct-11 A	23-Jan-12 A	Design for Permanent Debris Catch Fence
PR001400	Approval for Debris Catch Fence System Design		100%		22-Feb-12 A	Approval for Debris Catch Fence System Design
PR001410	Temporary Works Design		100%	200 26-Feb-10 A	12-Sep-10 A	Temporarly Works Design
PR001420	Complete All Technical Submission		100%	0	22-Feb-12 A	Compléte All Technical Submission
Specialist	t Consultants					
PR001220	Nominate/Submit Horticulturist for Approval		100%	45 26-Feb-10 A	10-Apr-10 A	Nominate/Submit Horticulturist for Approval
PR001230	Nominate/Submit IIC (Highway Structures)		100%	45 26-Feb-10 A	10-Apr-10 A	Nominate/Submit IIC (Highway Structures)
PR001240	Nominate/Submit Traffic Consultant for Approval		100%	7 26-Feb-10 A	03-Mar-10 A	Nominate/Submit Traffic Consultant for Approval
PR001440	Complete Engagement of Specialist Consultants		100%	0	10-Apr-10 A	Complete Engagement of Specialist Consultants
QSHE Sul						
PR001120	Prepare/Submit Quality Plan		100%	28 26-Feb-10 A	24-Mar-10 A	Prepare/Submit Quality Plan:
PR001130	Prepare/Submit Draft Health & Safety Plan		100%	14 26-Feb-10 A	10-Mar-10 A	Prepare/Submit Draft Health & Safety Plan
PR001140	Prepare/Submit Final Health & Safety Plan		100%	35 26-Feb-10 A		Prepare/Submit Final Health & Safety Plan
PR001150	Prepare/Submit Draft Env Management Plan		100%	21 26-Feb-10 A	17-Mar-10 A	Prepare/Submit Draft Env Management Plan
PR001160	Prepare/Submit Final Env Management Plan		100%	45 26-Feb-10 A	10-Apr-10 A	Prepare/Submit Final Env Management Plan
PR001180	Submit Site Management Plan for Trip Ticket Sys		100%	45 26-Feb-10 A	10-Apr-10 A	Submit Site Management Plan for Trip Ticket Sys
PR001430	Complete All QSHE Submission		100%	0	10-Apr-10 A	♦ Complete All QSHE Submission
Variation C						
VO000010	VO. 1: Revised layout of Piles, NLKP5		100%	0 17-Jun-10 A		A VO 1. Polyidad Invalit of Pilod NII KP5
VO000010 VO000020	VO. 1: Revised layout of Files, NERPS VO. 2: Fencing Detaills Along Site Boundaries of SA29		100%	0 20-Aug-10 A		♦ VO. 1: Revised layout of Piles, NLKP5 ♦ VO. 2: Fencing Detaills Along Site Boundaries of SA29
VO000020 VO000030	VO. 2: Ferding Details Along Site Boundaries of SA29 VO. 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)		100%	0 20-Aug-10 A		 ♦ VO. 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)
VO000030	VO. 4: Revised Setting Out Plan of Slip Road W in SA28 & SA31		100%	0 15-Sep-10 A		♦ VO. 3. Existing Birdge 12 Flietap Concrete Testing (F5/6/6)
VO000040 VO000050	VO. 5: Revised Setting Out Plan of Slip Road W in SA26 & SAST		100%	0 15-Sep-10 A		♦ VO. 4. Revised Setting Out Plan of Slip Road W in SA26 & SA31
VO000050 VO000060	VO. 5. Revised Setting Out Plan of Silp Road W in Sile Area SA30 VO. 6: Bridge 15A Pilecap Sleeving Details		100%	0 19-Oct-10 A		VO. 5. Hevised Setting Ott Plan of Slip Moad W in Site Area, SASU
VO000080 VO000070	VO. 6. Bridge TSA Pliecap Sleeving Details VO. 7: Modification of Noise Barrier Footing for NB42 & NB44		100%	0 19-Oct-10 A		
				0 14-Dec-10 A		◊ VO, 7: Modification of Noise Barrier Footing for NB42 & NB44
VO000080	VO. 8: Revised Layout of Southen Trunk Sewer VO. 9: Relocation and Deletion of Access Door at Noise Barrier		100%			 VO: 8: Revised Layout of Southen Trunk Sewer VO: 9: Relocation and Deletion of Access; Door at Noise Barrier
VO000090			100%	0 04-Jan-11 A		
VO000100	VO. 10: Fencing details along Site Boundaries of Section subject to Excision		100%	0 04-Jan-11 A 0 04-Jan-11 A		 VO. 10: Fencing details along Site Boundaries of Section subject to Excision VO. 11: Fencing details along Site Boundaries of Section subject to Excision
VO000110	VO. 11: Fencing details along Site Boundaries of Section subject to Excision	1	100%	$(1 \mid 0 \mid 1 \mid 0 \mid 1 \mid 1 \mid 1 \mid 1 \mid 1 \mid 1 \mid $		A 1// 171 Longing details clean Cite Doundering of Cattion which to Evolution

ctivity ID	Activity Name		Original Start	Finish	2010 2011 2012 2013 2014
		nplete	Duration		21 Q2 Q3 Q4 Q1 Q2 Q1 Q2 Q1 Q2 Q1
VO000120	VO. 12: Fencing for Former Lot 1308 S.B in D.D.6	100%	0 12-Jan-11 A		October 12: Fencing for Former Lot 1308 S.B in D.D.6
VO000130	VO. 13: Relocation of Existing HKCG HP600mm Gasmains at Slip Road T	 100%	0 12-Aug-11 A		♦ VO: 13: Relocation of Existing HKCG HP600mm Gasmains at Slip Road
VO000140	VO. 14: Revised Layout of Police Observation Platform at CH3700	 100%	0 27-Jan-11 A		VO. 14: Revised Layout of Police Observation Platform at CH3700
VO000150	VO. 15: Revised Layout of Slope S28	 100%	0 01-Feb-11 A		VO. 15: Revised Layout of Slope S28
VO000160	VO. 16: Additional Packaging Requirement for Mulch Delivered to LCSD	 100%	0 25-Jan-11 A		VO. 16: Additional Packaging Requirement for Mulch Delivered to LCSD
VO000170	VO. 17: Revised Bridge 12B and Temp Reinstatement at Existing Bridge 12	 100%	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%	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%	0 07-Mar-11 A		VO. 19: Protection for Existing HKCG HP 600mm Gasmain at Slip Rd T
VO000200	VO. 20: Revised Fire Mains alignment Plan	100%	0 31-Mar-11 A		🔷 VQ. 20: Reviśed Fire Mains alignment Plan
VO000210	VO. 21: Reinforced Earth Walls at Bridge 18AAbutment	100%	0 07-Sep-11 A		VD.21: Reinforced Earth Walls at Bridge 18A Abutment
VO000220	VO. 22: Revised Layout of Proposed Lighting and Meter Box at Ma Wo Subway (TP9)	 100%	0 15-Apr-11 A		VO: 22: Revised Layout of Proposed Lighting and Meter Box at Ma Wo Subway
VO000230	VO. 23: Provision of Drainage at Noise Barriers 41 & 42	 100%	0 20-Apr-11 A		VO. 23: Provision of Drainage at Ndise Barriers 41 & 42
VO000250	VO. 25: Construction of Cross Road Ducts and Traffic Signal Drawpits	 100%	0 27-Apr-11 A	l	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%	0 03-May-11 A		🔷 VO. 26: Permanent Diversion of Existing DN80 WSD Watermain at MA Wo Su
VO000270	VO. 27: Temp. Access and Lighting for Inspection on Bridge 13 Deck Interior	100%	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%	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%	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%	0 27-Jul-11 A		VO. 31: Fehcing for Former Lot 1308S.B. in D.D.6
VO000330	VO. 33: Drainage Details at W48	 100%	0 03-Aug-11 A		♦ VO. 33: Draiņage Details at W48
VO000350	VO. 35: Revised Southern Trunk Sewer Manholes Schedule	 100%	0 14-Oct-11 A		VO: 35: Revised Southern Trunk Sewer Manholes Schedule
VO000360	VO. 36: Slip Road R road drainage details	 100%	0 17-Oct-11 A		VO. 36: Slip Road R raad drainage details
VO000370	VO. 37: Bridge 12A, 13A, LB1, 2, 3 - Pilecaps Sleeving Details	 100%	0 18-Nov-11 A		. VO. 37: Bridge 12A, 13A, LB1, 2, 3 - Pilecaps Sleeving Details
VO000380	VO. 38: Bridge 18A - Reforced earth walls at West Abutment & associated slope works	 100%	0 03-Dec-11 A		♦ VQ.38: Bridge 18A-Reforced earth walls at West Abutment &
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%	0 30-Nov-11 A		♦ VO. 40: New Lam Kam Road Flyover - Revised drainage arran
VO000410	VO. 41: 450mm Diameter U-channel flap valve behind noise barrier NB42	 100%	0 01-Dec-11 A		♦ VO. 41: 450mm Diameter U-channel flap valve behind noise ba
VO000430	VO. 43: 450mm Diameter U-channel flap valve behind noise barrier NB42	 100%	0 12-Jan-12 A		♦ VO. 43::450mm Diameter. U-channel flap valve behind noise:
VO000440	VO. 44: Bridge 15A - Revised drainage arrangement for bridge deck	 100%	0 12-Jan-12 A		♦ VO/ 44: Bridge 15A - Revised drainage arrangement for brid
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 I
VO000460	VO. 46: Modification of noise barrier footing for NB44	 100%	0 13-Feb-12A		♦ VO: 46: Modification of noise barrier footing for NB44
VO000520	VO. 52: Construction of cross road ducts & traffic signal drawpits at proposed crossing point of Tai Wo Service Road Wes	 100%	0 10-Apr-12A		♦ VO. 52: Construction of cross road ducts & traffic signal
VO000530	VO. 53: Bridge 18A - Concrete Plinths for PCCW cables ducts	 100%	0 20-Apr-12 A		♦ VQ. 53; Bridge 18A - Concrete Plinths for PCQW cab
	VO. 55: Provision of drainage at retaining wall W71 and Bridge B18A	 	· ·		
VO000550 VO000590	VO. 59: Relocation of Existing WSD pumping station (PS106) gate at Hong Lok Yuen Road	 100%	0 18-Apr-12 A 0 23-Apr-12 A		♦ VO. 55: Provision of drainage at retaining wall W71 at VO. 50: Poleosticat of Evicting WSD purpose station.
		 	· · ·		VO. 59: Relocation of Existing WSD pumping station A VO. Ed. Polytoci Motel Cover Details for Printed De
VO000620	VO. 62: Revised Metal Cover Details for Bridge Deck Soffit Access	 100%	0 29-May-12 A		♦ VQ. 62: Revised Metal Cover Details for Bridge De
VO000650	VO. 65:Details of additional Vehicular Access Gate for Lot 412 at Tai Wo Servise Road west	 100%	0 09-Jul-12 A		♦ VO, 65:Details of additional Vehicular Access Ga
VO000660	VO. 66: Revised Foundation Details of Noise Barriers NB36	 100%	0 19-Jul-12 A		◆ VO. 66: Revised Foundation Details of Noise B
VO000690	VO. 69: Revised Lighting Layout at Ma Wo Subway TP9	 100%	0 01-Aug-12 A		♦ VO. 169: Revised Lighting Layout at Ma Wo Su
VO000700	VO. 70: Provision of Digital callipers	 100%	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%	0 20-Aug-12 A		Ø VO. 71 Deţails of Typical Section for \$lip Rog
VO000720	VO. 72: New Lam Kam Road Flyover - revised North and South Ramps Retaining Wall	 100%	0 06-Sep-12 A		♦ VD. 72: New Lam Kam Rpad Flyover - revi
VO000730	VO. 73: Revised Sign Gantry Details of G23A, G24, G25, G26, G27, G28, G29, G56, G57, G58, G59, G60, G60A, G101	100%	0 11-Sep-12 A		♦ VO. 73: Revised Sign Gantry Details of G23
VO000740	VO. 74: Bridge 12A South Abutment - Slope Reinstatement Works	100%	0 18-Sep-12 A		♦ VO. 74: Bridge 12A South Abutment - Slop
VO000750	VO. 75: Modification of Existing Air Valve Chamber at Slip Road W	100%	0 14-Sep-12 A		♦ VO; 75: Modification of Existing Air Valve Cf
VO000760	VO. 76: Conduct Resistograph and Tomography Assessment to the Internal Decay of Important Tree T13076 at LKR Intercharge	 100%	0 19-Sep-12A		VO. 76: Conduct Resistograph and Tomog

ctivity ID	Activity Name	Total Activit	ity %	Original Start	Finish	2010		2011	2012	2013 2014
		Float Comp		Duration	-	21 Q2 Q3	Q4 Q1 (Q2 Q3 Q4	Q1 Q2 Q	3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 5 5
VO000770	VO. 77: Provision of Cable Duct for Power Supply in Site Area SA28 and SA31	1(00%	0 17-Oct-12 A						♦ VO. 77 Provision of Cable Duc for Power S
VO000780	VO. 78: Bridge 18A Revised CLP Concrete Cable Trough Details	10	00%	0 22-Oct-12 A			+	111111	· - + - + - + - + - + - + - + - + - + -	VO. 78: Bridge 18A Revised CLP Concrete (
VO000790	VO. 79: Bridge 18A East Abutment - Reinforced Concrete Wall (Bay3)	10	00%	0 14-Nov-12 A						VO 79: Bridge 18A East Abutment - Reinfo
VO000800	VO. 80: Removal and Storage of Remaining Parts of Existing Speed Camera No. W05, W06 at NB and W10 at SB $$	10	00%	0 03-Dec-12 A						VO. 80: Removal and Storage of Remain
VO000810	VO. 81: Details of Maintenance Access of Noise Barrier NB41 and NB42 along Tai Wo Service Road West	1(00%	0 04-Jan-13 A						VO.81: Details of Maintenance Access
VO000820	VO. 82: Irrigation System Along the Vehicular Access to Wai Tau Tsuen	1(00%	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	1(00%	0 08-Feb-13 A			<u>+</u> - <u>i</u> -	J	4 _ 4 _ 4 _ 4 _ 4 _ 4 _ 4 _ 4 _ 4 _	VO. 83: Stormwater Drainage Syste
VO000840	VO. 84: Removal and Storage of Remaining Parts of Existing Speed Enforcement Camera No. TO06 at Tolo Highway Southbound	1(00%	0 08-Feb-13 A						♦ VO 84: Removal and Storage of Re
VO000860	VO. 86: Provision of Verge Tubular Railing Adjacent to Retaining Wall W67	1(00%	0 12-Apr-13 A						🛇 VO. 86: Provision of Verge Tubu
VO000870	VO. 87: Existing Retaining Wall at Tai Po Tai Wo Road - Modification Works	1(00%	0 19-Apr-13 A						🛇 VO. 87: Existing Retaining Wall
VO000880	VO. 88: Additional Hospital Sign Plate for Existing Directional Signs DSX01A and DSX05B	1(00%	0 10-May-13 A						🛇 VO. 88: Additional Hospital Și
VO000890	VO. 89: Change of Material of Southern Trunk Sewer Pipes between manhole	1(00%	0 10-May-13 A			+		·-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+	🛇 VO 89: Change of Material c
VO000900	VO. 90: Revised Southern Trunk Sewer Details	1(00%	0 10-May-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			♦ VO.90: Revised Southern Tr
VO000910	VO. 91: Nosing Details at South Abutment of Bridge 13A - Modification Works	1(00%	0 02-Jul-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			VO. 91: Nosing Details at
VO000920	VO. 92: Revised Noise Barrier Footing fro NB30 Bay 1	1(00%	0 14-Jun-13 A						♦ VO. 92: Revised Noise Bar
VO000930	VO. 93: Irrigation System for the Shrub Planting Area Adjacent to Fanling Highway	10	00%	0 13-Jun-13 A						♦ VO. 93: Irrigation System fo
VO000940	VO. 94: Irrigation System for the Shrub Planting Area Adjacent to Lam Kam Road Interchange with connection to Firemain	10	00%	0 11-Jun-13 A						VO: 94: Irrigaton System f
VO000950	VO. 95: Revised Sign Gantry G101 Details	1(00%	0 07-Jun-13 A						🔷 VO. 95: Revised Sign Gant
VO000970	VO. 97: Provision of Stormwater Drainage System for the Wai Tau Tsuen Access Raod Behind W74	1(00%	0 13-Jun-13 A						VO: 97: Provision of Storm
VO000980	VO. 98: Revised Sign Gantry G101 Sign Face DS T8(B) Details	1(00%	0 11-Jun-13 A						♦ VO.98: Revised Sign Gant
VO000990	VO. 99: Revised Sign Gantry G59 Details	1(00%	0 11-Jun-13 A						🛇 VO. 99: Revised Sign Gan
VO001000	VO. 100: Revised Sign Gantry G58 Details	1(00%	0 11-Jun-13 A						♦ VO. 100: Revi <mark>s</mark> ed Sign Ga
VO001010	VO. 101: Existing Bridges 12&13 - Revised Detail of the Strengthening Beam of the Stitching Slab	1(00%	0 02-Jul-13 A						♦ VO. 101: Existing Bridges
VO001030	VO. 103: Parapet Wall PW1 - Revised Drainage and Miscellaneous Details	10	00%	0 03-Jul-13 A						🔷 VO. 103: Parapet Wall P
VO001040	VO. 104: Revised Alignment and Layout of Noise Barrier NB38	1(00%	0 26-Jun-13 A						🔷 VO. 104: Revised Alignme
VO001050	VO. 105: Additional Precast Concrete Cover for Catchpit No. CP1.1	1(00%	0 02-Jul-13 A						🔷 VO. 105 Additional Preca
VO001060	VO. 106: Revised Details fo Retaining Wall No. W71 and Slope S43 at CH0.00 to CH4.00	10	00%	0 02-Jul-13 A			+ - + - + - + - + - +		· - + - + - + - + - + - + - + - + - + -	♦ VØ. 106; Re <mark>v</mark> ised Details
VO001070	VO. 107: Revised Alignment of U-Channel at Interface of Retaining Wall W66 and Slope S38	10	00%	0 02-Jul-13 A						VO. 107: Re <mark>v</mark> ised Alignm
VO001080	VO. 108: Revision for Proposed Cut Slope S31A	1(00%	0 11-Jul-13 A						♦ VO. 108: Revision for Pro
VO001090	VO. 109: Revision for Proposed Cut Slope S45	1(00%	0 19-Jul-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			🛇 VO. 109: Revisión for Pr
VO001100	VO. 110: Revised Base Plate Details of Noise Barrier NB38	1(00%	0 19-Aug-13 A						🛇 VO. 110: Revised Bas
Milestone	es of Temporary Traffic Arrangement			·			+ - + - + - + - + - +		· - ¹ / ₁	
TTA000	TTA Stage 0 - Divert the traffic to new Slip Road J & K	1(00%	0 07-Oct-12 A						♦ TTA Stage 0 - Divert the traffic to new Slip R
TTA010	TTA Stage 1 - divert the traffic to new bridge 18a	1(00%	0 23-Jun-13 A						♦ TTA Stage 1 divert the tr
TTA050	TTA Stage 5 - Full enclorsure of Tai Wo Road (CH3350 - CH3540)	1(00%	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	1(00%	0 25-Feb-12 A					TTA Stage	6 - Open the new Northbound but reserve one lar
TTA070	TTA Stage 7 - Close the existing southbound and temporary divert the traffic to the existing Northbound	1(00%	0 25-Feb-12 A					🔷 TTA Stage	7 - Close the existing southbound and temporary
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
TTA110	TTA Stage 11 - Open the new LB2 and link up the LB1 & LB3	-24	0%	0 13-Feb-14				· · · · · · · · · I · · · · · · · · · · I · · · · · · · · · · I · · · · · · · · · · I · · · · · · · · · · I · · · · · · · · · I · · · · · · · · ·		♦ TTA Ştagı
TTA310	TTA Stage 5A-1 Diversion the traffic to B13A and B15A	11	00%	0 23-Jun-13 A			1 1 1 1 1 1			♦ TTA Stage 5A-1 Diversion

ctivity ID	Activity Name	Total	Activity %	Original Start	Finish	
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q 1234567891111111111112222222222222333333333344444444
TTA320	TTA Stage 4B-1 Diversion the traffic to (CH2600 - CH3000) N/B		100%	0 05-May-13 A		◆ TTA Stage 4B-1 Diversion
TTA330	TTA Shift Lane for C1/C2 interface Final Stage (N/B)	-57	0%	0 28-Jan-14		♦ TTA:SI
TTA340	TTA Shift Lane for C1/C2 interface Final Stage (S/B)	-58	0%	0 30-Jan-14		🔶 TTA'S
TTA350	TTA Shift Lane for C2/C3 interface at TWSRW Road (Transition)	19	0%	0 27-Jan-14		🔶 ttais
TTA360	TTA Shift Lane for C2/C3 interface (N/B)	13	0%	0 06-Feb-14		TŢTĂ S
TTA370	TTA Shift Lane for C2/C3 interface (S/B)	-6	0%	0 27-Feb-14		🔶 ΤΤΑ
Section 1						
Site Area	SA21					
PHSA2120	Possession of SA21 (Day141)	i i	100%	0 16-Jul-10 A		
SA210000	Site Area SA21 Works Period	118	96.97%	1076 16-Jul-10 A	28-Feb-14	Site
SA210010	Site Area SA21 Works Completion	118	0%	0	28-Feb-14	→ Site
SA210010	Temporary Traffic Management (Detail shall refer to supplementary information)	95	97.06%	872 16-Jul-10 A	28-Feb-14	Tên
SA210020	Overall Utilities Diversion (Detail shall refer to supplementary information)	95	97.06%	872 16-Jul-10 A	28-Feb-14	Ove
		95	31.00%		20-1 60-14	
North Bou						
Preliminar			10001		00 Dec 10 1	
S21N0000	Site Clearance/Access Rd & acquisition of Sub-con		100%	63 15-Oct-10 A	30-Dec-10 A	Site Clearance/Access Rd & acquisition of Sub-con
Slopework						
S21N5000	Slopeworks Fill(S21)		100%	10 16-Feb-12 A		Slópewic
S21N5010	U-Channel and Berm	-57	75%	10 05-Oct-13 A	29-Jan-14	Uł⊂h
S21N5100	Slopeworks Cut (S22)	-61	97.74%	266 17-Feb-11 A		
S21N5110	Slopeworks Cut (S22) - Stage 1 (Upper +59mPD)		100%	72 17-Feb-11 A	20-May-11 A	Slopeworks Cut (S22) - Stage 1 (Upper +59mPD)
S21N5120	Slopeworks Cut (S22) - Stage 2 (Middle +57mPD)		100%	72 26-Oct-11 A	20-Jan-12 A	Slopeworks Cut (\$22) - Stage 2 (Middle +57mPD)
S21N5130	Slopeworks Cut (S22) - Stage 3 (Lower +55mPD)		100%	72 28-May-12 A	25-Dec-13 A	Şidobewic
S21N5140	U-Channel and Berm	-61	70%	20 05-Oct-13 A	05-Feb-14	U-dr
S21N5210	Slopeworks Fill(S24)	-73	90%	55 14-Jan-13 A	05-Feb-14	
Extension	of Culverts					
S21N1000	Extension of Box Culvert (N581)		100%	148 08-Nov-10 A	21-Mar-11 A	Extension of Box Culvert (N581)
S21N1010	Temporary Water Diversion		100%	23 08-Nov-10 A	11-Dec-10 A	Temporary Water Diversion
S21N1020	Construction of Base Slab		100%	75 13-Dec-10 A	02-Mar-11 A	Construction of Base Slab
S21N1030	Construction of Wall Stem		100%	50 13-Dec-10 A	21-Mar-11 A	Construction of Wall Stem
S21N1040	Construction of Top Slab		100%	45 19-Jan-11 A	21-Mar-11 A	Construction of Top Slab
S21N1050	Extension of Box Culvert (TP9), Upstream (CSD 3) (incl. VO.22)		100%	0 26-Mar-11 A	31-Dec-11 A	Extension of Box Culvert (TP9), Upstream (CSD 3) (incl. VC
S21N1060	Temporary Water Diversion		100%	16 26-Mar-11 A	15-Apr-11 A	🔲 Temporary Water Diversion
S21N1070	Construction of Base Slab		100%	75 30-Mar-11 A	•	Construction of Base Slab
S21N1080	Construction of Wall Stem		100%	72 01-Jul-11 A	31-Dec-11 A	Construction of Wall Stem
S21N1090	Construction of Top Slab		100%	0 01-Dec-11 A		Cónstructión of Top Slab
	ion of Retaining Wall					
Retaining	-					
	Sheet Pile/Excavate & Construct W35		100%	53 26-Mar-11 A	02-Jun-11 A	Sheet;Pile/Excavate & Construct; W35
	Opencut excavation		100%	18 26-Mar-11 A		
S21N2010			100%	30 26-May-11 A	· · · · · · · · · · · · · · · · · · ·	Construction of W35 Structure
	Backfilling		100%		10-Aug-11 A	
Retaining			100 /6			
	Sheet Pile/Excavate & Construct W36		100%	85 11-Aug-11 A	22 Apr 10 A	Sheet Pile/Excavate & Construct W36
					•	
	Opencut excavation		100%	12 11-Aug-11 A	-	
S21N2120			100%	50 19-Sep-11 A	· .	Construction of W36 Structure
S21N2130	Backfilling		100%	0 06-Feb-12 A	18-Feb-12 A	D Backfilling

tivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
		Float	Complete	Duration		1234567891111111111112222222222233333333333344444444
	Backfilling behind W36 and drainage works	-58	95%	70 04-Mar-13 A	30-Jan-14	Backfilling
	/all W38 (AD4)					
S21N2210			100%	24 26-Feb-11 A		Prè-drilling
S21N2220	Prepare Piling Platform for W38		100%	30 26-Feb-11 A	· ·	🗀 iPrepare Píling Plátform for W38
S21N2225	COD: Mobilization of 1 no. rig from W56B to W38 for piling work		100%	60 14-Mar-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		Pile for ₩38 (2 rig)
S21N2231	Installation of Piles - Stage 1 (CH2470-2545)		100%	69 26-Mar-11 A		Installation of Piles - Stage 1 (CH2470-2545)
S21N2232	Installation of Piles - Stage 2 (Remain)		100%	72 12-Apr-11 A		Installation of Piles - Stage 2 (Remain)
S21N2240	Retaining Wall & Drainage W38		100%	230 27-Jun-11 A		Retaining Wall & Drainage W38
S21N2242	Excavation to +54.5mPD		100%	60 27-Jun-11 A	·	Excavation to +54.5mPD
S21N2244	Excavation to formation		100%	60 26-Sep-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		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 (Ch2
S21N2256	Backfilling to formation level - Stage 2 (CH2520 - 2600)		100%	30 01-Oct-12 A	24-Dec-12 A	Bąckfilling to formation level - Stage 2
S21N2266	Backfilling behind W38 and drainage works		100%	70 04-Mar-13 A	14-Dec-13 A	Backfilling; b
Retaining W	/all W39 (CDS 3)					
S21N2302	Clearing & Prepare Piling Platform & Pre-drilling for W39		100%	10 27-Jun-11 A	09-Jul-11 A	Clearing & Prepare Pilling Platform & Pre-drilling for W39
S21N2304	Piling Works		100%	36 03-Oct-11 A	14-Nov-11 A	🛱 Piliņg 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-12A	D 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	I Báckfilling
S21N2319	Backfilling behind W39 and drainage works	-58	95%	70 04-Mar-13 A	30-Jan-14	Backfillin
Retaining W	All W40 (CSD 3)	/		,	·	
S21N2312	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 W.40
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	Ū Bạckfiling
S21N2336	Backfilling behind W40 and drainage works	-58	95%	70 04-Mar-13 A	30-Jan-14	Backfillir
Retaining W						
S21N2400	Sheet Pile/Excavate & Construct W41A		100%	72 26-Sep-11 A	25-Nov-11 A	Sheet Pile/Excavate'& Construct W/41A
S21N2410	Opencut Excavation		100%	7 26-Sep-11 A	04-Oct-11 A	Opeincut 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	□: Back¢illing
Retaining W						
	Sheet Pile/Excavate & Construct W41B		100%	71 26-Sep-11 A	25-Nov-11 A	Sheet Pile/Excavate/&:Construct W/41B
S21N2628	Opencut Excavation		100%	7 26-Sep-11 A		Ci Opencut Excavation
S21N2648	Construction of W41B Structure		100%	47 05-Oct-11 A		Construction of W41B Structure
S21N2658			100%	17 01-Nov-11 A		
	/all W45-48/A		.0070			
	Sheet Pile/Excavate & Construct W45-48/A		100%	174 01-Mar-11 A	11-Jan-13 A	Sheet Pile/Excavate & Construct W
S21N2500	Opencut Excavation (W45, W46 & W47)		100%	36 12-Oct-11 A		Opencut Excavation (W45, W46 & W47)
S21N2510	Opencut Excavation (W48, W48A)		100%	18 01-Mar-11 A		Dipencut Excavation (W48, W48A)
S21N2520	Construction of RW Structure (W47)		100%	75 01-Mar-12 A		Construction of RW Structure (W47)
					-	Construction of RW Structure (W44)
S21N2540	Construction of RW Structure (W48)		100%	45 13-Apr-12 A		Construction of RW Structure (W48A)
S21N2550	Construction of RW Structure (W48A)		100%	60 01-Apr-11 A	-	
S21N2560	Backfilling W47, W48 & W48A		100%	40 28-Aug-12 A	11-Jan-13 A	Backfilling W47, W48 & W48A

vity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010	2011	
		Float	Complete	Duration			21 Q2 Q3 Q4 1 2 3 4 5 6 7 8 9 1		Q3 Q4 Q1
S21N2570	Construction of RW Structure (W45)		100%	75	26-Jan-12 A	04-Jun-12 A		<u>•<u>•</u>•••••••••••••••••••••••••••••••••</u>	
S21N2580	Construction of RW Structure (W46)		100%	75	01-Mar-12 A	26-May-12 A			
S21N2590	Backfilling W45 & W46		100%	40	28-Aug-12 A	20-Oct-12 A			
S21N2600	Backfilling behind W45 to W48 and drainage works	-58	95%	70	04-Mar-13 A	30-Jan-14			
Retaining W	Vall W49								
S21N2604	Clearing & Prepare Piling Platform & Pre-drilling for W49		100%	24	20-Nov-10 A	24-Feb-11 A		Clearing	& Prepare Piling
S21N2610	Sheet Pile/Excavate & Construct W49		100%	96	26-Mar-11 A	26-Jul-11 A			Sheet Pile/Ext
S21N2620	Opencut Excavation		100%	18	26-Mar-11 A	16-Apr-11 A		🔲 Open	cut Excavation
S21N2630	Construction of W49 Structure		100%	36	08-Mar-11 A	20-Aug-11 A			Construction
S21N2640	Backfilling		100%		22-Aug-11 A				Backfi
S21N2650	Backfilling behind W49 and drainage works		100%		-	25-Nov-13 A	—		
	onstruction Works, Roadworks & Drainage								
S21N4000	Road works Slow Lane (Ch2400 ~ 2650)		100%	20	14-Dec-12 A	04-Jan-13 A			
S21N4000	Road works Slow Lane (Ch2650 ~ 2840)		100%		10-Jan-13 A	11-Apr-13 A	—		
S21N4010	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-57	98.65%		06-Aug-11 A	· ·			
S21N4100	Removal of existing paving	-57	100%		06-Aug-11 A				
S21N4110	Drainages (incl. VO 33 : Drainage details at W48)		100%		06-Aug-11A				
		-56			-				
S21N4130	Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Watermain at Ma WO Subway TP9)	-96-	95%	25	08-Jul-13 A	28-Jan-14			
S21N4135	Road Surface (Stage 1: CH2400 - CH2520)		100%		26-Dec-11 A				
S21N4140	Road Surface (Stage 2 : CH2520 - CH2840)		100%	75	08-Jan-13 A	14-Dec-13 A			
S21N4141	Road Construction Works (CH2600 - CH3000) for traffic diversion stage 4B-1		100%	75	10-Jan-13 A	04-May-13 A			
S21N4142	Road Construction Works (Fast Lane) for C1/C2 Interface stage 6B		100%	40	21-Jan-13 A	11-May-13 A			
S21N4143	Road Construction Works (Mid Lane) for C1/C2 Interface stage 7B		100%	28	13-May-13 A	09-Jun-13 A			
S21N4144	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 8B		100%	27	10-Jun-13 A	06-Jul-13 A			
S21N4145	Road Construction Works for C1/ C2 Interface Final stage	-57	95%	36	08-Jul-13 A	28-Jan-14			
S21N4150	Shift lane for C1/ C2 Interface (Stage 1)		100%	0	27-Feb-12 A				
S21N4152	Shift lane for C1/ C2 interface (Stage 2: North Bound along W38 to W46)		100%	0	20-Jan-13 A			· i - i - i - i - i - i - i - i - i - i	
S21N4153	Shift lane for (CH2600 - CH3000) stage 4B-1		100%	0	05-May-13 A				
S21N4155	Shift lane for C1/ C2 Interface stage 6B		100%	0	12-May-13 A				
S21N4156	Shift lane for C1/ C2 Interface stage 7B		100%	0	09-Jun-13 A				
S21N4157	Shift lane for C1/ C2 Interface stage 8B		100%	0	07-Jul-13 A				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S21N4160	Shift lane for C1/ C2 interface Final stage	-57	0%	0	28-Jan-14				
Noise Barri	ers & Road Barriers								
Noise Barri	ier NB31								
S21N3010	NB31 (CH 0-183.6, W39 - W49)		100%	80	07-Nov-12 A	17-Jan-13 A			
S21N3060	NB31 : Excavation and Footing (Bay 1-4)		100%	24	07-Nov-12 A	05-Jan-13 A			
S21N3070	NB31 : Excavation and Footing (Bay 5 - 7)		100%	24	01-Dec-12 A	08-Jan-13 A			
S21N3080	NB31 : Erecting H-Column		100%	18	02-Jan-13 A	10-Jan-13 A			
S21N3090	NB31 (CH 90-183.6) : Installation Panel		100%	18	11-Jan-13 A	17-Jan-13 A			
S21N3100	Remaining NB31 Installation of Panel	-55	98.01%	7	27-Jun-13 A	27-Jan-14			
Traffic Cont	trol & Survelance System				<u> </u>				
S21N4800	TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)		100%	50	10-Jan-13 A	07-Sep-13 A			· · · · · · · · · · · · · · · · · · ·
Landscapin						•			
S21N6000	Landscaping Works	-73	50%	25	02-Nov-13 A	19-Feb-14			
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vity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	01 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 C
S21S0010	Site Clearance		100%	36 15-Oct-10 A	26-Nov-10 A	12 34 56 7 8 9 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3
S21S0030	Access Road		100%	34 02-Nov-10 A		Access Road
Slopeworks						
S21S5000	Slopeworks Fill(S26)	-80	97.19%	40 25-Mar-13 A	28-Jan-14	Slope
S21S5010	Slopeworks Fill(S26) - Lower +50mPD		100%	15 25-Mar-13 A		Slopeworks Fill(\$26) - L
S21S5020	Slopeworks Fill(S26) - Upper +55mPD	-80	95%	23 13-May-13 A	-	Slope
S21S5100	Slopeworks Fill(S27)		100%	120 09-Jan-13 A		Slope
S21S5110	Slopeworks Fill(S27) - Lower +50mPD		100%	60 09-Jan-13 A		Slopeworks' Fill(\$27) - Lower + E
S21S5120	Slopeworks Fill(S27) - Lower +55mPD		100%	60 18-Jan-13 A		Slópe
Extension			10070		20 our rive	
S21S1100	Extension of Box Culvert (TP9), Downstream		100%	60 20-Dec-12 A	06-Eeb-13 A	Extension of Box Culvert (TP9)
S21S5130	Temporary Water Diversion		100%	12 20-Dec-12 A		Temporary Water Diversion
	Construction of Base Slab, Wall & Top Slab		100%	48 29-Dec-12 A		Conistruction of Base Stab, Wa
			100%	40 29-Dec-12 A	00-1 ED-13 A	
	on of Retaining Wall					
Retaining W	Sheet Pile/Excavate & Construct W50 (w/SP)		100%	215 21-May-12 A	22 Apr 13 A	Sheet Pile/Excavate & Cr
	Sheet Pile & ELS Works		100%	24 21-May-12 A	-	Sheet Pile & ELS Works
S21S2020	Construction of W50 Structure		100%	75 02-Jan-13 A		Construction of W50 Struct
	Backfilling		100%	50 20-Mar-13 A	23-Apr-13 A	□ Baċktilling
	/all W51-56 (CSD 3)	1 1		1		
	Sheet Pile / Excavate & Construct W51-56 (w/SP)		100%	216 25-Feb-11 A		Sheet Pile / Excavate & Construc
S21S2110	Sheet Pile & ELS Works (W51)		100%	24 25-Feb-11 A	-	Sheet Pile & ELS Works (W51)
S21S2120	Construction of W51 Structure		100%	42 19-Apr-11 A	14-Jun-11 A	Construction of W51 Structure
S21S2130	Sheet Pile & ELS Works (W52 & W53)		100%	24 28-Jul-11 A	16-Sep-11 A	☐ Sheet Pile & EL\$ Works (W52 & W53)
S21S2140	Construction of W52 & W53 Structure		100%	42 17-Oct-11 A	05-Dec-11 A	Construction of W52 & W53 Structure
S21S2150	Backfilling of W51, W52 & W53		100%	24 17-Jan-12 A	27-Dec-12 A	Backfilling of W51, W52,& W53
S21S2160	Sheet Pile & ELS Works (W54, 55 & 56)		100%	24 17-Feb-12 A	03-Mar-12 A	C :Sheet:Pile & ELS: Works (W54, 55; & 56)
S21S2170	Construction of W54, 55 & 56 Structure		100%	75 15-Feb-12A	06-Jul-12 A	Construction of W54, 55 & 56 Structure
S21S2180	Backfilling of W54, 55 & 56		100%	30 02-Aug-12 A	27-Dec-12 A	Bạckfilling of W54, 55 & 56
S21S2190	Backfilling behind W51 to W56 and drainage works		100%	70 04-Mar-13 A	25-Nov-13 A	li i i i i i i i i i i i i i i i i i i
Retaining W	/all W51A(CSD 3)					
S21S2163	Excavate to cut-off level		100%	8 17-Jan-11 A	25-Jan-11 A	IL Excavate to cut+off level
S21S2164	Capping/Walling for W51A		100%	18 12-Jul-11 A	01-Aug-11 A	Capping/Walling for W51A
S21S2165	Backfilling		100%	30 28-Dec-11 A	04-Feb-12 A	—— Bąckfilling
Retaining W	/all W35A, (CSD 2)					
S21S2211	Construction of W35A (w/MP)		100%	198 13-Apr-12 A	05-Dec-12 A	Construction; of W35A (w/MP);
S21S2212	Removal of existing concrete structure at W35A		100%	35 13-Apr-12 A		Removal of existing concrete structure at W35
S21S2218	Mini Piles for W35A (8 nos.)		100%	30 25-Jul-12 A		□ Minii Pilės for W35A (8 hos.)
S21S2230	Excavation and tie back installation		100%	25 15-Aug-12 A		Excavation and tie back installation
S21S2240	Capping/Walling for W35A		100%	40 10-Oct-12 A		Capping/Walling for W35A
S21S2250	Backfilling		100%	6 29-Nov-12 A		□ Backfilling
	onstruction Works, Roadworks & Drainage					
S21S3895	Roadwork (South Bound slow lane along W35A)		100%	6 06-Dec-12 A	09-Dec-12 4	
S21S3895	Roadwork (South Bound slow lane along W50 - W56)		100%	30 01-Feb-13 A		Roadwork (South Bound Show Jane
		-58			· · ·	
S21S3900	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-58	97.9%	150 25-Jan-13 A		
S21S4001	Removal of Existing Paving		100%	40 25-Jan-13 A		Rem
S21S4002	Drainages (incl. VO33: Drainage details at W48)	-59	95%	30 14-Sep-13 A		Drair
S21S4003	Utilities (incl. VO 26 & VO69)	-59	90%	30 27-Jul-13 A	04-Feb-14	

vity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	21		22		23		Q4	Q	1	Q2	011 Q3	C	24 Q1	1
S21S4010	Road Surface (CH2400 - CH2840)	-58	90%	65	04-Mar-13 A	06-Feb-14	<u> </u>	234	45	6	7 8	<u> 9 </u>	11	111	<u> 1 1</u>	111	<u>[1]1</u>	22	2222	4
S21S4011	Road Construction Works (Fast Lane) for C1/C2 Interface stage 4A		100%	40	21-Jan-13 A	13-Apr-13 A					-+	$\begin{array}{c} \frac{1}{T} = \frac{1}{T} \\ \frac{1}{T} = \frac{1}{T} \end{array}$							$-\frac{1}{1}$	1 1 1
S21S4012	Road Construction Works (Mid Lane) for C1/ C2 Interface stage 5A		100%	27	15-Apr-13 A	25-May-13 A														
S21S4013	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 6A		100%	39	27-May-13 A	30-Jun-13 A	—													
S21S4014	Road Construction Works for C1/ C2 Interface Final stage	-58	93%	45	02-Jul-13 A	30-Jan-14	—													
S21S4030	Shift lane for C1/ C2 interface (South Bound along W35A)		100%	0	09-Dec-12A															
S21S4031	Shift lane for C1/ C2 Interface stage 4A		100%	0	14-Apr-13 A						- + -	$\begin{array}{c} \frac{1}{7} = \frac{1}{7} \\ \frac{1}{7} = \frac{1}{7} \end{array}$							$-\frac{1}{r}-\frac{1}{r}-\frac{1}{r}-\frac{1}{r}-\frac{1}{r}-\frac{1}{r}$	- T - T - 1 - 1
S21S4032	Shift lane for C1/ C2 Interface stage 5A		100%	0	26-May-13 A															
S21S4033	Shift lane for C1/ C2 Interface stage 6A		100%	0	30-Jun-13 A		—													
S21S4050	Shift lane for C1/ C2 interface (Final stage)	-58	0%	0	30-Jan-14		—													
Noise Barri	ers					<u> </u>														
Noise Barr							-	++			- + -	$\left(\begin{array}{c} \frac{1}{2} & -\frac{1}{2} \\ \frac{1}{2} & -\frac{1}{2} \end{array} \right)$								- 1 - 1 - 1
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														
S21S3011	NB29A (CH 0-62.3) on W35A - Erecting H-Column		100%	10	01-Aug-13 A	14-Sep-13 A														
S21S3012	NB29A (CH 0-62.3) on W35A - Installing Panel		100%	10	27-Aug-13 A	07-Dec-13 A														
Noise barri	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					- 1 -	$\frac{1}{1} = \frac{1}{1}$ 1 1								+ + + + + + + + + + + + + + + + + + + +
S21S3021	NB30 - Excavation and Footing (bay 1 - bay 3)		100%	75	01-Aug-12 A	22-Nov-12 A														
S21S3026	NB30 - Excavation and Footing (bay 13 - bay 15)		100%	25	02-May-13 A	14-Jun-13 A														
S21S3027	NB30 - Excavation and Footing (bay 4 - bay 12)		100%	45	02-Jul-13 A	18-Sep-13 A	—													ł
S21S3028	NB30 : Erecting H-Column		100%	10	16-Sep-13 A	09-Nov-13 A	—													ł
S21S3029	NB30 : Installing Panel	-55	95%	10	17-Oct-13 A	27-Jan-14		++			- + -									- 1
Noise Barr	ier NB33																			
S21S3030	NB33 (CH 0-143) (incl. VO 9: Construction of double leaf access door for noise barrier)		100%	102	01-Sep-12A	09-Nov-13 A	-													ł
S21S3031	NB33 : Excavation, construction of Footing & Backfilling (bay 3 - bay 13)		100%		01-Sep-12A	10-Jan-13 A														
S21S3032	NB33 : Erecting H-Column (bay 3 - bay 13)		100%		14-Jan-13 A	17-Jan-13 A														
S21S3033	NB33 : Installing Panel (bay 3 - bay 13)		100%		25-Jan-13 A	02-Mar-13 A		+				$\frac{1}{1} = \frac{1}{1}$								- +
S21S3034	NB33 : Excavation, construction of Footing & Backfilling (bay 1 - bay 2)		100%		07-Mar-13 A	21-Mar-13 A	—													
S21S3035	NB33 : Erecting H-Column (bay 1 - bay 2)		100%		26-Apr-13 A	27-Apr-13 A	—													
S21S3036	NB33 : Installing Panel (bay 1 - bay 2)		100%		17-Oct-13 A	09-Nov-13 A	—													ł
	trol & Survelance System		10070																	1 1 1
S21S4800	TCSS (Gantry G60A) (incl. VO73 Revised Sign Gantry Details)	-58	90%	30	02-Jul-13 A	29-Jan-14		÷÷			· - + -	$\frac{1}{1} = \frac{1}{1}$. 1 . 1
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S21S6000	Landscaping Works	-80	30%	35	26-Nov-13 A	28-Eeb-14														
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	Destruction Works	00	00.010/	05	00 May 10 A	10 5-6 14	 +-	++	 -			· + - +							·	
S21M4030	Roadworks, Drainage & Utilities (CH 2400 - 2840)	-66	82.31%		-	12-Feb-14														ł
S21M4035	Removal of Central barrier & Roadmark		100%		•	06-Jun-13 A														
S21M4040	Removal of Existing Paving		100%	25	18-May-12 A	06-Jun-13 A														1
Noise Barr																				
	er NB32, G23A & G60A									·	· - + -	. .					¦	; ; ;-;-;		. ¦
S21M380	Excavate to cut-off level (Stage 1: Bay 1 - Bay 2)		100%		31-Jan-13 A	25-Feb-13 A														
S21M390	Construction for NB32 (Stage 1: Bay 1 - Bay 2)		100%		25-Feb-13 A	16-Mar-13 A														
S21M391	Excavate to cut-off level (Stage 2: Bay 3 - Bay 26)		100%		18-May-13 A	10-Aug-13 A														
S21M392	Construction for NB32 (Stage 2: Bay 3 - Bay 26 with G23A and G60A)		100%		-	07-Sep-13 A														1 1 1
S21M393	Erecting H-Column, NB32		100%		05-Sep-13 A	26-Sep-13 A											; ; ; 			
S21M394	Installing Panel & Road Barrier, NB32		100%	30	05-Sep-13 A	25-Dec-13 A														ł

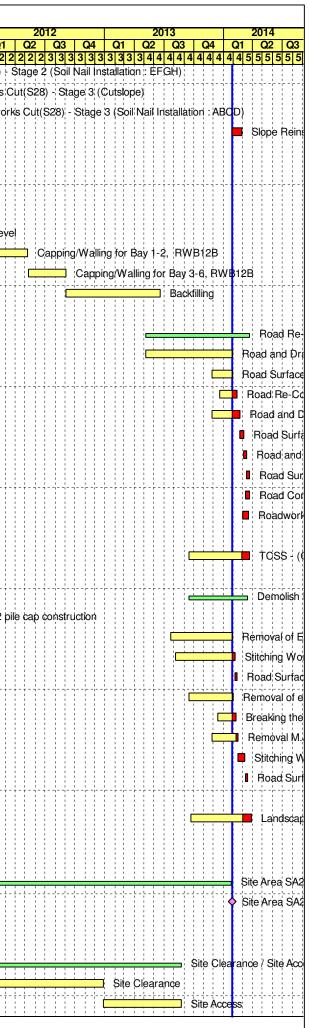
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ctivity	y ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q
			FIDAL				12345678911111111111112222222222233333333333344444444
	S21M400	Backfilling (Stage 1: Bay 1 - Bay 2)		100%	10 18-Mar-13 A	· ·	Backfilling (Stage I: Bay 1 - Ba
	S21M401	Backfilling (Stage 2: Bay 3 - Bay 26)	-66	90%	20 15-Jul-13 A	28-Jan-14	Backfilling
	S21M403	Road Lighting Works	-66	85%	10 29-Apr-13 A	30-Jan-14	Road Ligt
	S21M404	Remaining Roadworks & Road Surfacing	-66	80%	40 03-Oct-13 A	12-Feb-14	Remainir
	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	Ready Fic
	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 Fo
S	Section 2		,,	· · · · · ·			
5	Site Area S	A22					
	PHSA2220	Possession of SA22 (Day0)	i i	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 Ar
	SA220010	Site Area SA22 Works Completion	96	0%	0	22-Mar-14	Ø Şitê Aı
	SA220010	Temporary Traffic Management (Detail shall refer to supplementary information)	96	94.42%	985 25-Feb-10 A	22-Mar-14	
	SA220020	Overall Utilities Diversion (Detail shall refer to supplementary information)	96	94.42%	985 25-Feb-10 A		Overa
			30	54.42 /8	303 23-1 60-10 A	22-10101-14	
	North Bour						
	Preliminarie		1	1000/	00 00 Est 10 A	10 km 10 A	
	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	-	Access Road - Stage 1 (Near W56A)
	S22N0003	Site Clearance - Stage 2 (Near W56B)		100%	30 19-Apr-10 A	· · · · · · · · · · · · · · · · · · ·	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	14-Jun-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	21-Jul-10 A	Erection of Temp Safety Fence (N/B ch3000-3150)
	Slopeworks	3					
	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
	S22N5010	Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)		100%	12 22-Jul-10 A	04-Aug-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	09-Apr-11 A	D Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)
	S22N5040	Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)		100%	50 19-Aug-10 A	19-Oct-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	30-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 (S29) & 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	07-Dec-11 A	Stopeworks (S29) & U-Channel/Berm - Stage 4 (Cutstope)
	S22N5110	Slopeworks (S29) - Stage 4 (Soil Nail Installation : EFGH)		100%	36 07-Nov-11 A	28-Nov-11 A	Slopeworks (S29) - Stage 4 (Soit Nail Installation : EFGH)
	S22N5130	Slopeworks (S29) & U-Channel/Berm - Stage 5 (Cutslope)		100%	36 03-Jan-13 A	31-Jan-13 A	Slopeworks (S29) & U-Channel/Ber
	S22N5140	Slopeworks (S29) - Stage 5 (Soil Nail Installation : ABCD)		100%	36 21-Nov-11 A	03-Jan-13 A	Slopeworks (S29) - Stage 5 (Soil Nail
	S22N5160	Slopeworks (S29) & U-Channel/Berm - Stage 6 (Cutslope)		100%	36 22-Apr-13 A	15-Oct-13 A	Slopeworks (S29
	Constructio	n of Retaining Wall					
	Retaining W	all W56A, (CSD 1)					
	S22N2154	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)
	S22N2155	Excavate to cut-off level (Stage 2, Bay 5 - 9)		100%	50 26-Sep-11 A	24-Nov-11 A	Excavate to cut-off level (Stage 2, Bay 5 - 9)
	S22N2160	Base Slab for W56A		100%	141 05-Jul-11 A	19-Dec-11 A	Başe Slab for W56A
	S22N2165	Base Slab for W56A (Stage 1), South		100%	50 05-Jul-11 A	17-Sep-11 A	Base Stab for W56A (Stage 1), South
	S22N2166	Base Slab for W56A (Stage 2), North		100%	56 04-Jun-12 A	14-Jul-12 A	Base Slab for W/56A (Stage 2), North
	S22N2170	Wall Stem		100%	172 11-Aug-11 A	17-Nov-12 A	Wall Stem
	S22N2171	Wall Stem (Bay 1e & 1f)		100%	25 11-Aug-11 A		—— Wall Stem (Bay 1e & 1f)

ctivity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010	2011	
		Float		Duration	oturt		Q1 Q2 Q3 Q4 Q1	Q2 Q3	Q4 Q1
S22N2173	Wall Stem (Bay 1c & 1d, 1a & 1b, 1g)		100%	25	26-Sep-11 A	26-Oct-11 A	12345678911111	<u> </u>	22222222
S22N2174	Wall Stem (Bay 2a, 2bnb, 2b)		100%	75	16-Jul-12 A	13-Oct-12 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S22N2175	Wall Stem (Bay 2c, 2d)		100%	30	06-Aug-12 A	03-Nov-12 A			
S22N2176	Wall Stem (Bay 3)		100%	25	31-Aug-12 A	17-Nov-12 A			
S22N2186	Backfilling		100%	30	19-Nov-12 A	26-Jan-13 A			
Retaining	Wall W56B (AD 1)								
S22N2210	Prepare Piling Platform for W56B	1	100%	37	02-Oct-10 A	11-Feb-11 A		Prepare Pilir	ng Platform for
S22N2220	Pre-drilling for W56B		100%		02-Oct-10 A	15-Nov-10 A		illing for W56	
S22N2240	Pipe Pile for W56B		100%			21-Mar-11 A		Pipe Pile f	
S22N2241	Pipe Pile for W56B - Stage 1		100%		20-Nov-10 A				r W56B - Stag
S22N2242	Pipe Pile for W56B - Stage 2		100%		31-Jan-11 A	23-Sep-11 A			Pipe Pile fo
S22N2250	Construction of W56B		100%		17-Sep-11 A	06-Apr-13 A			
S22N2251	Excavation (W56B), upper		100%		17-Sep-11 A	05-Jan-12 A			Exc
S22N2251	Excavation (W56B), Middle		100%		06-Jan-12 A	26-May-12 A			
S22N2252 S22N2254			100%		11-May-12 A	29-Sep-12 A			
	Excavation (W56B), bottom				-				
S22N2260	Base Slab (W56B), (Bay 1 -3)		100%		27-Jul-12 A	10-Sep-12 A			
S22N2262	Base Slab (W56B), (Bay 4 - 8)		100%		27-Sep-12 A	10-Nov-12 A			
S22N2264	Base Slab (W56B), (Bay 9, 10 & 12A)		100%		27-Jul-12 A	13-Oct-12 A			
S22N2270	Wall Stem (W56B), (Bay 1 - 3, Total 18 pours)		100%		01-Nov-12 A	06-Apr-13 A			
S22N2274	Wall Stem (W56B), (Bay 4 - 8, Total 30 pours)		100%		12-Nov-12 A	· · ·			
S22N2276	Wall Stem (W56B), (Bay 9 - 10, Total 12 pours)		100%		24-Nov-12 A	06-Apr-13 A			
S22N2290	Backfilling (Bay 1 to Bay 3)		100%		10-Jan-13 A	19-Jan-13 A			
S22N2292	Backfilling (Bay 4 to Bay 10)		100%	30	14-Jan-13 A	05-Mar-13 A			
	s & Drainage								
S22N4000	Roadworks, Drainages & Utilities (CH 2840 - 3140)		100%	129	15-Jan-13 A	07-Dec-13 A			
S22N4010	Roadworks Stage 1 (CH 2840 - 3000)		100%	30	15-Jan-13 A	29-Mar-13 A			
S22N4030	Drainages Stage 1 (CH2840 - 3000)		100%	30	15-Jan-13 A	05-Mar-13 A			
S22N4040	Road Surface Works		100%	30	21-Mar-13 A	23-Apr-13 A			
S22N4042	Roadworks Stage 2 (CH3000 - 3140)		100%	30	18-Mar-13 A	30-Jul-13 A			
S22N4044	Drainages Stage 2 (CH3000 - 3140)		100%	30	20-Feb-13 A	11-Apr-13 A			
S22N4046	Road Surface Works		100%	30	17-May-13 A	18-Aug-13 A			
S22N4048	Road Construction Works Remain Fast Lane (along CH2840 - 3140)		100%	50	25-Nov-13 A	07-Dec-13 A			
Noise Barr	iers								
Noise Barr	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			
S22N3021	NB31A (CH 0-21.9) on W56A : Erecting H-Column		100%	38	15-Oct-12 A	19-Oct-12 A			
S22N3022	NB31A (CH 0-21.9) on W56A : Installing Panel		100%		22-Oct-12 A	22-Nov-12 A			
South Bo			100,0						
Preliminar									
S22S0000	Site Clearance/Access Rd		100%	84	01-Apr-10 A	16-Jul-10 A	Site Clearance	Access Rd	
S22S0000	Site Clearance		100%		01-Apr-10 A	02-Jul-10 A			
					•				
S22S0020	Access Road		100%	72	20-Apr-10 A	16-Jul-10 A	Access Road		
Siopework			1000/	100		17 1			Clopowerlar
S22S5000	Slopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Slope S28)		100%		21-Oct-10 A	17-Aug-11 A			Slopeworks C
S22S5010	Slopeworks Cut(S28) - Stage 1 (Cutslope)		100%		21-Oct-10 A	16-Nov-10 A			28) - Stage 1 (
S22S5030	Slopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)		100%		17-Nov-10 A	08-Feb-11 A			Cut(S28) - Sta
S22S5040	Slopeworks Cut(S28) - Stage 2 (Cutslope)		100%	37	11-Dec-10 A	03-Jan-11 A	Ski Ski	peworks Cu	it(S28) - Stage

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tivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011
		Float	Complete	Duration		Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
S22S5060	Slopeworks Cut(S28) - Stage 2 (Soil Nail Installation : EFGH)		100%	37 08-Feb-11 A	23-Mar-11 A	123456789111111111112222222 Slopeworks Qut(S28) + 5
S22S5070	Slopeworks Cut(S28) - Stage 3 (Cutslope)		100%	36 06-Jul-11 A	17-Aug-11 A	
S22S5090	Slopeworks Cut(S28) - Stage 3 (Soil Nail Installation : ABCD)		100%	36 20-Aug-11 A	04-Oct-11 A	Slopework
S22S5100	Slope Reinstatement Works (Bridge 12B)	-61	0%	25 27-Jan-14	27-Feb-14	
Constructi	on of Retaining Wall					
	Wall RWB12B					
S22S2110	Pre-drilling for RWB12B		100%	24 16-Jul-10 A	12-Aug-10 A	Pre-drilling for: RWB12B
S22S2120	Piles for RWB12B		100%	116 13-Aug-10 A	20-Nov-10 A	Files for RWB12B
S22S2130	Excavate to cut-off level		100%	60 26-Jan-11 A	09-Apr-11 A	Excavate to cut-off leve
S22S2140	Capping/Walling for Bay 1-2, RWB12B		100%	60 28-Mar-11 A	10-May-12 A	
S22S2142	Capping/Walling for Bay 3-6, RWB12B		100%	75 11-May-12 A	03-Sep-12A	
S22S2150	Backfilling		100%	60 04-Sep-12 A	22-Jun-13 A	
Road Re-co	onstruction Works, Roadworks & Drainage]				
S22S4000	Road Re-construction Works (CH 2840 - 3450)	-57	75.64%	185 06-May-13 A	22-Mar-14	
S22S4405	Road and Drainages Works for Fast Lane (CH2840 - 3000)	-56	95%	45 06-May-13 A	29-Jan-14	
S22S4410	Road Surface Works for Fast Lane (CH2840 - 3000)	-56	95%	12 26-Nov-13 A	29-Jan-14	
S22S4415	Road Re-Construction Works for Mid 2 Lane (CH2840 - 3000)	-49	70%	24 20-Dec-13 A	11-Feb-14	
S22S4420	Road and Drainages Works for Fast and Mid Lane (CH3000 - 3450)	-56	20%	18 26-Nov-13 A	19-Feb-14	
S22S4425	Road Surface Works for Fast Lane and Mid Lane (CH3000 - 3450)	-56	0%	10 19-Feb-14	03-Mar-14	
S22S4430	Road and Drainages Works for Slow Lane (CH2840 - 3450)	-56	0%	10 03-Mar-14	14-Mar-14	
S22S4435	Road Surface Works for Slow Lane (CH3000 - 3450)	-56	0%	7 14-Mar-14	22-Mar-14	
S22S4440	Road Construction Works Remaining Works (along CH2840 - 3450)	-57	0%	12 10-Mar-14	22-Mar-14	
S22S4500	Roadworks for Realignment of Existing Shek Lin Road	-55	0%	18 28-Feb-14	20-Mar-14	
Traffic Con	trol & Survelance System					
S22S4820	TCSS - (Gantry 60) (incl. VO73 Revised Sign Gantry Details)	-56	60%	50 16-Sep-13 A	22-Mar-14	
Modificatio	on of Existing Bridge 12					
S22S1300	Demolish Existing Parapet & Stitching Works for bridge 12 & 12B (incl. VO3 & VO29)	-51	44.29%	70 16-Sep-13 A	15-Mar-14	
S22S1315	VO 3: Existing Bridge 12 pile cap construction		100%	30 17-Sep-10 A	15-Feb-11 A	VO 3 Existing Błidge 12 pil
S22S1322	Removal of Existing Steel Barrier and Surface	-24	85%	8 22-Jul-13 A	28-Jan-14	
S22S1323	Stitching Works of Existing Bridge Decks B12 and B12B	-24	80%	20 08-Aug-13 A	05-Feb-14	
S22S1324	Road Surface of B12B for TW Slip Road	-24	0%	7 05-Feb-14	13-Feb-14	
S22S1326	Removal of existing central barrier along B12 and Erection breaking platform	-57	70%	12 16-Sep-13 A	30-Jan-14	
S22S1328	Breaking the existing stitch of B12 and condition survey	-57	50%	18 14-Dec-13 A	08-Feb-14	
S22S1329	Removal M.J and Replacement M.J	-57	50%	8 26-Nov-13 A	13-Feb-14	——
S22S1331	Stitching Works for B12	-57	0%	20 14-Feb-14	08-Mar-14	
S22S1332	Road Surface Works	-51	0%	6 10-Mar-14	15-Mar-14	
Landscapi	ng	II				
S22S6000	Landscaping Works	-61	20%	30 23-Sep-13 A	27-Mar-14	——
Site Area S	SA23	I				
PHSA2320	Possession of SA23 (Day180)	i i	100%	0 04-May-10 A		♦ Possession of \$A'23 (Day180)
SA230000	Site Area SA23 Works Period		100%	586 16-Jul-10 A	25-Jan-14 A	
SA230010	Site Area SA23 Works Completion	151	0%	0	27-Jan-14	
South Bou	und					
Preliminar						
			1000(144 28-Dec-11 A	24-Aug-13 A	
S23S0000	Site Clearance / Site Access		100%	144 20-Dec-11 A	24-Aug-10 A	
	Site Clearance / Site Access Site Clearance		100%	72 28-Dec-11 A	27-Dec-12 A	



	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 21 Q2 0		Q4 Q1	201 ⁻ Q2	1 Q3 Q4 (21
		Fillat	Complete	Duration		123456	789		11111	122222	22
Slopework											
S21N2638	Slopeworks Fill (S27)		100%	99 29-Nov-12 A					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S21N26381	Slopeworks Fill (S27) - Stage 1, +45mPD		100%	33 29-Nov-12 A	07-Dec-12 A						
S21N26382	Slopeworks Fill (S27) - Stage 2, +50mPD		100%	33 08-Dec-12 A	31-Dec-12 A						
S21N26383	Slopeworks Fill (S27) - Stage 3, +55mPD		100%	33 04-Jan-13 A	24-Jan-13 A						
Landscapii	ng										
S23S6000	Landscaping Works		100%	50 23-Sep-13 A	25-Jan-14 A						
Site Area S	SA24										
PHSA2410	Possession of SA24 (Day180)		100%	0 04-May-10 A					(Day180)		
SA240000	Site Area SA24 Works Period	-95	89.85%	788 04-May-10 A	16-Apr-14						- + -
SA240010	Site Area SA24 Works Completion	71	0%	0	16-Apr-14					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Preliminari	es										
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			Site C	learance		
S24N0020	Access Road		100%	72 07-Sep-10 A	09-Dec-10 A				ss Road		
Slopework	S										
S24N5000	Slopeworks Cut(S31A)		100%	150 01-Jun-11 A	25-Nov-11 A					Slo	pev
S24N5010	Slopeworks Cut (S31A) & Soil Nail : Stage 1 (Upper +80mPD)		100%	60 01-Jun-11 A	06-Aug-11 A					Slopework	
S24N5020	Slopeworks Cut (S31A) & Soil Nail : Stage 2 (Lower +72mPD)		100%	60 08-Aug-11 A						Slope	i_i
S24N5030	Slopeworks Cut (S31A) : Shortcreting		100%	30 24-Oct-11 A	25-Nov-11 A					🗖 Slo	i i .
S24N5810	Erect Scaffolding & Soil Nail Installation (Area 4)		100%	60 19-Mar-13 A							
S24N5831	Slope Reinstatement Works (Bridge 12ASA incl. VO74)	-77	80%	75 30-Apr-13 A							
	on of Retaining Wall		0070								
	Vall W56B-2 (Bay 12) (AD)										;- <u>+</u> -
S24N2110	Prepare Piling Platform for W56B-2		100%	24 02-Oct-10 A	07-Feb-11 A			<u> </u>	Prenare F	Piling Platform	for
S24N2120	Pre-drilling for W56B-2		100%	18 28-Oct-10 A	18-Nov-10 A				illing for V		
				10 20 000 1071						Re	stair
\$24N2130	Betaining Wall W56B-2		100%	255 21- Jan-11 A	01-Dec-11 A						
S24N2130	Retaining Wall W56B-2 Piles for W56B-2 (Stage 2)		100%	255 21-Jan-11 A	01-Dec-11 A				1 1 1 1		~ \/\/
S24N2140	Piles for W56B-2 (Stage 2)		100%	75 21-Jan-11 A	23-Sep-11 A					Piles fo	
S24N2140 S24N2150	Piles for W56B-2 (Stage 2) Excavation, upper		100% 100%	75 21-Jan-11 A 75 26-Sep-11 A	23-Sep-11 A 13-Jan-12 A					Piles fo	i _ i _
S24N2140 S24N2150 S24N2152	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle		100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A					Piles fo	i . i .
S24N2140 S24N2150 S24N2152 S24N2155	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom		100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A					Piles fo	
S24N2140 S24N2150 S24N2152 S24N2155 S24N2155	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12)		100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A					Piles fo	i _ i _
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B)		100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A					Piles fo	
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2170	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2		100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A					Piles fo	
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2170 Retaining V	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A		100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 22-May-13 A					Piles fo	i _ i _
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2170 Retaining V S24N2200	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A		100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 35 26-Jun-13 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 22-May-13 A 17-Aug-13 A					Piles fo	
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2170 Retaining V S24N2200 S24N2202	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2)		100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 35 26-Jun-13 A 20 26-Jun-13 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 22-May-13 A 17-Aug-13 A 23-Jul-13 A					Piles fo	
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2170 Retaining V S24N2200 S24N2202 S24N2203	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2) Backfilling		100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 35 26-Jun-13 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 22-May-13 A 17-Aug-13 A					Piles fo	
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2160 S24N2162 S24N2170 Retaining V S24N2202 S24N2203 Retaining V	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A (W57B - bay1 to bay2) Backfilling Vall W57B (AD 2)		100% 100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 01-Oct-12 A 75 27-Feb-13 A 35 26-Jun-13 A 20 26-Jun-13 A 7 22-Jul-13 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 23-Nov-12 A 22-May-13 A 17-Aug-13 A 17-Aug-13 A					Piles fo	Ex.
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2162 S24N2170 Retaining V S24N2200 S24N2202 S24N2203 Retaining V S24N2310	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2) Backfilling Vall W57B (AD 2) Prepare Piling Platform for W57B		100% 100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 26-Jun-13 A 20 26-Jun-13 A 7 22-Jul-13 A 18 11-Jan-11 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 23-Nov-12 A 22-May-13 A 17-Aug-13 A 17-Aug-13 A 17-Aug-13 A 31-Jan-11 A				Prepare P	iling Platform	Ex.
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2162 S24N2170 Retaining V S24N2203 Retaining V S24N2310 S24N2320	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2) Backfilling Vall W57B (AD 2) Prepare Piling Platform for W57B Pre-drill for W57B		100% 100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 35 26-Jun-13 A 20 26-Jun-13 A 7 22-Jul-13 A 8 11-Jan-11 A 20 01-Apr-11 A	 23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 23-Nov-12 A 22-May-13 A 23-Jul-13 A 17-Aug-13 A 17-Aug-13 A 31-Jan-11 A 13-Apr-11 A 				Prepare P	iling Platform	Ex.
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2162 S24N2170 Retaining V S24N2202 S24N2203 Retaining V S24N2203 S24N2300 S24N2310 S24N2320 S24N2330	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2) Backfilling Vall W57B (AD 2) Prepare Piling Platform for W57B Pre-drill for W57B Piles for W57B		100% 100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 26-Jun-13 A 20 26-Jun-13 A 7 22-Jul-13 A 8 11-Jan-11 A 20 01-Apr-11 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 23-Nov-12 A 22-May-13 A 17-Aug-13 A 23-Jul-13 A 17-Aug-13 A 31-Jan-11 A 13-Apr-11 A 14-May-11 A				Prepare P	Piles fo	Ex.
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2162 S24N2170 Retaining V S24N2202 S24N2203 Retaining V S24N2310 S24N2320 S24N2300 S24N2310 S24N2320 S24N2340	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2) Backfilling Vall W57B (AD 2) Prepare Piling Platform for W57B Pre-drill for W57B Piles for W57B Piles for W57B		100% 100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 35 26-Jun-13 A 20 26-Jun-13 A 7 22-Jul-13 A 8 11-Jan-11 A 20 01-Apr-11 A 20 01-Apr-11 A	 23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 23-Nov-12 A 22-May-13 A 22-May-13 A 31-Jul-13 A 31-Jan-11 A 13-Apr-11 A 14-May-11 A 23-Aug-11 A 				Prepare P	iling Platform	Exc for V
S24N2140 S24N2150 S24N2152 S24N2155 S24N2160 S24N2162 S24N2162 S24N2170 Retaining V S24N2202 S24N2203 Retaining V S24N2203 S24N2300 S24N2310 S24N2320 S24N2330	Piles for W56B-2 (Stage 2) Excavation, upper Excavation, Middle Excavation, Bottom Construction of Base Slab (Bay 12) Retaining Wall Structure (Bay 12B) Drainage & Backfilling W56B-2 Vall W57A Construction of W57A Construction of Structure W57A (W57B - bay1 to bay2) Backfilling Vall W57B (AD 2) Prepare Piling Platform for W57B Pre-drill for W57B Piles for W57B		100% 100% 100% 100% 100% 100% 100% 100%	75 21-Jan-11 A 75 26-Sep-11 A 60 26-Sep-11 A 75 11-May-12 A 75 27-Jul-12 A 40 01-Oct-12 A 75 27-Feb-13 A 26-Jun-13 A 20 26-Jun-13 A 7 22-Jul-13 A 8 11-Jan-11 A 20 01-Apr-11 A	23-Sep-11 A 13-Jan-12 A 19-Apr-12 A 26-Jul-12 A 25-Aug-12 A 23-Nov-12 A 22-May-13 A 22-May-13 A 17-Aug-13 A 23-Jul-13 A 17-Aug-13 A 31-Jan-11 A 13-Apr-11 A 13-Apr-11 A 14-May-11 A 23-Aug-11 A				Prepare P	Piles fo	Exc for V

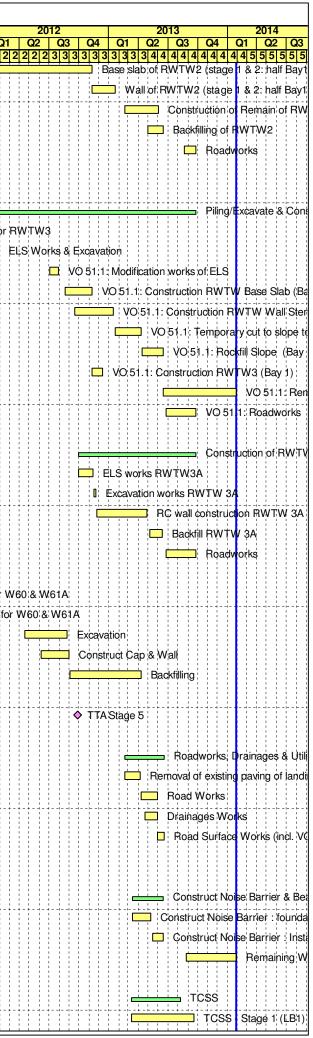
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y ID	Activity Name	Total		Original Start	Finish	
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 12 34 56 78 91 11 11 11 11 11 12 22 22 22 22 22 23 33 33 33 33 33 34 44 44 44 44 44 4
S24N2402	Pre-drilling for W57C		100%	20 26-Mar-11 A	19-Apr-11 A	Pre-drilling for W57C
S24N2404	Piles for W57C		100%	45 01-Apr-11 A	14-May-11 A	Pile's 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 & D
Retaining V	Vall RWB12A				1	
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	Pile's Load Test
S24N1520	Construction of Base Slab, RWB12A		100%	60 23-Apr-12 A	17-Apr-13 A	Construction of Base S
S24N1522	Construction of Wall, RWB12A		100%	40 18-Apr-13 A	07-Jun-13 A	Construction of Wa
S24N1530	Backfilling		100%	20 09-May-13 A	25-Jun-13 A	🗖 Bakkfilling
S24N1540	Construction the wing slab of RWB12A		100%	30 16-Sep-13 A	09-Nov-13 A	——
Roadworks	s, Drainage & Utilities				<u> </u>	
S24N4000	Roadworks, Drainages & Utilities (ch3140-3400, exclude B12A)		100%	109 19-Aug-13 A	07-Dec-13 A	Rpadv
S24N4015	Road and Drainage Works		100%	10 19-Aug-13 A		Road and D
S24N4025	Road Surface Works for Mid and Slow Lane		100%	14 27-Aug-13 A		
S24N4026	TTA - Stage 4B-3		100%	0	14-Sep-13 A	
S24N4035	Road Construction Fast Lane and Remaining Works (along CH3140 - 3400)		100%	50 26-Oct-13 A	· ·	Road
Landscapir						
S24N6000	Landscaping Works	-77	0%	50 17-Feb-14	16-Apr-14	
		,,,	070			
Site Area S PHSA2520	Possession of SA25 (Day270)		1000/			
			100%	0 04-May-10 A	01.14 11	
SA250000	Site Area SA25 Works Period (incl, Provision of hoarding at site boundary of SA25)	118		770 04-May-10 A		
SA250010	Site Area SA25 Works Completion	118		0	01-Mar-14	
SA250020	Temporary Traffic Management (Detail shall refer to supplementary information)	95	96.57%	765 04-May-10 A		
SA250030	Overall Utility Diversion (Detail shall refer to supplementary information)	95	96.57%	765 04-May-10 A	01-Mar-14	
South Bou						
Preliminari	es					
S25S0000	Site Clearance/Access Rd (ch3400-3600)		100%	97 20-Oct-10 A	16-Feb-11 A	Site Clearance/Access Rd (ch3400-3600)
S25S0010	Site Clearance (ch3400-3600)		100%	75 20-Oct-10 A	18-Jan-11 A	\$ite Clearance (ch3400-3600)
S25S0020	Access Road (ch3400-3600)		100%	75 15-Nov-10 A	16-Feb-11 A	Access Road (ch3400-3600)
Slopework	S					
S25S5000	Slopeworks Fill(S30A)		100%	60 15-Oct-12 A	10-Nov-12 A	🛱 Słopeworks Fill(\$30A)
S25S5010	Slopeworks Fill (S30A) - Stage 1: +53.5mPD		100%	30 15-Oct-12 A	30-Oct-12 A	D Slopeworks Fill (\$30A) - Stage 1: +
S25S5020	Slopeworks Fill (S30A) - Stage 2: 55.8mPD		100%	30 31-Oct-12 A	10-Nov-12 A	D Slopeworks Fill (S30A) - Stage 2:
S25S5110	Slope Reinstatement Works (Bridge 13A)	-38	65%	25 26-Sep-13 A	08-Feb-14	□ SI
S25S5140	Slope Reinstatement Works (Bridge LB1)	-38	65%	25 26-Sep-13 A	19-Feb-14	
S25S5150	Slope Reinstatement Works (S30A)	-38	65%	25 28-Sep-13 A	01-Mar-14	
Constructio	on of Retaining Wall			I		
	Vall W58B, (CSD 2)					
			100%	25 01-Nov-10 A	30-Nov-10 A	Site Formation
S25S2030	Excavate to cut-off level		100%	10 01-Nov-10 A		Excavaté to cut-off level
S25S2050	Construction of Structure W58B		100%	75 13-May-11 A		Construction of Structure W58B
S25S2060			100%	45 05-Nov-12 A		
22002000			10070			

ity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 201
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q 1234567891111111111112222222222223333333333344444444
S25S4000	Roadworks, Drainages & Utilities (CH 3400 - 3600)	121	100%	109 27-Feb-13 A	27-Jan-14	
S25S4025	Road Works for Mid and Slow Lane		100%	60 27-Feb-13 A	03-Jun-13 A	Road Works:for Mid ar
S25S4030	Drainages Works		100%	60 04-Mar-13 A	19-Apr-13 A	Dráinages Works
S25S4040	Road Surface for Mid and Slow Lane		100%	10 31-May-13 A	21-Jun-13 A	 □ Road Surface for Mid
S25S4060	Removal of existing central barrier and forming temporary road (CH 3350 - CH 3550)		100%	12 24-Jun-13 A	09-Jul-13 A	🖳
S25S4070	Road Construction and Remaining Works (along CH 3400 - 3600)	-15	90%	30 27-Jul-13 A	29-Jan-14	
S25S4200	Slip Road H		100%	50 27-Aug-13 A	14-Dec-13 A	Slip Road
Noise Barri	riers & Road Barriers					
Noise Barr						
S25S3000			100%	95 13-Nov-12 A	04-Feb-13 A	Construct Noise Barrier & Bean
S25S3010			100%	36 13-Nov-12 A		NB34 : Foundation Works
S25S3020			100%	36 23-Jan-13 A		□ NB34: Installation of Hicolumn
			10070	20 0011 1071	041001077	
S25S4810	TCSS - Stage 1 (Bridge 13A)		100%	30 08-Apr-13 A	25-May-19 A	TCSS - Stage 1 (Bridge
			100%	30 00-Apr-13 A	20-11/1 ay- 10 A	
Site Area S						
PHSA2620	Possession of SA26 (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A26 (Day0)
SA260000	Site Area SA26 Works Period	-61	96.22%	1216 26-Feb-10 A	13-Mar-14	Sit
SA260010	Site Area SA26 Works Completion	-61	0%	0	13-Mar-14	Sit
SA260020	Temporary Traffic Management (Detail shall refer to supplementary information)	-49	96.24%	983 26-Feb-10 A	13-Mar-14	
SA260030	Overall Utility Diversion (Detail shall refer to supplementary information)	-49	96.24%	983 26-Feb-10 A	13-Mar-14	φ
SA260040	Additional work to existing ball valves, HKCG	-64	0%	52 27-Jan-14	31-Mar-14	A
North Bou	und					
Preliminari	ies					
S26N0000	Site Clearance/Access Rd (Tai Wo Road)		100%	150 26-Feb-10 A	28-Aug-10 A	Site Clearance/Access Rd (Tai Wo Road)
S26N0010	Site Clearance (Tai Wo Road)		100%	75 26-Feb-10 A	31-May-10 A	Site Clearance (Tai Wo Road)
S26N0020	Access Road (Tai Wo Road)		100%	75 01-Jun-10 A	28-Aug-10 A	Access Road (Tai Wo Road)
Slopework						
S26N5000	Slopeworks Cut(S31A-sn)		100%	150 01-Jun-11 A	25-Nov-11 A	Slopeworks Cut(S31A+sn)
S26N5010	Slopeworks Cut(S31A-sn) - Stage 1 (Upper +65mPD)		100%	50 01-Jun-11 A		Slopeworks Cut(S31A-sn) - Stage 1 (Upper +65mPD)
S26N5020	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)		100%	50 08-Aug-11 A		Siopeworks Cut((S31A-sh) - Stage 2 (Middle +60mPD)
S26N5030	Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)		100%	50 24-Oct-11 A		□ Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)
S26N5040	Remaining Works of S31A	-29	70%	40 27-Jul-13 A	19-Feb-14	
		23	1078	40 27 Our 10 A	131 05 14	
	on of Retaining Wall					
Retaining V			100%	086 01 Mar 10 A	00 Mar 10 A	Excavate & Construct W59 (
S26N2000			100%	286 01-Mar-12 A		
S26N2002			100%	60 01-Mar-12 A		W59: Base Slab of Bay 1-3
S26N2004			100%	60 02-Jul-12 A	24-Dec-12 A	W59: Wall of Bay 1-3
00001			100%	56 19-Apr-12 A	12-Jan-13 A	↓W59::Base Slab,&;Wall of Bay 9-
S26N2006	W59: Excavation + Soil Nail for Bay 4-8		100%	45 19-Apr-12 A		W59: Excavation + Soil Nail for Bay 4-8
S26N2008			100%	40 16-Jul-12 A	24-Dec-12 A	<mark>└─────</mark> ; ₩59: Base Slab of Bay 4-8
	W59: Base Slab of Bay 4-8			75 07 Aug 10 A	02-Feb-13 A	W(59: Wall of Bay 4-8
S26N2008	W59: Base Slab of Bay 4-8		100%			
S26N2008 S26N2012	W59: Base Slab of Bay 4-8 W59: Wall of Bay 4-8		100% 100%	24 23-Apr-12 A	22-Mar-13 A	Backtilling
S26N2008 S26N2012 S26N2014 S26N2020	W59: Base Slab of Bay 4-8 W59: Wall of Bay 4-8				22-Mar-13 A	Backfilling
S26N2008 S26N2012 S26N2014 S26N2020	W59: Base Slab of Bay 4-8 W59: Wall of Bay 4-8 Backfilling	-23			22-Mar-13 A 12-Feb-14	
S26N2008 S26N2012 S26N2014 S26N2020 Roadworks	W59: Base Slab of Bay 4-8 W59: Wall of Bay 4-8 Backfilling s, Drainage & Utilities	-23 -43	100%	24 23-Apr-12 A		Roạc
S26N2008 S26N2012 S26N2014 S26N2020 Roadworks S26N4000	W59: Base Slab of Bay 4-8 W59: Wall of Bay 4-8 Backfilling s, Drainage & Utilities Roadworks, Drainages & Utilities (ch3400-3720)		100% 87.72%	24 23-Apr-12 A 92 29-Jul-13 A	12-Feb-14	Roac

ivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 12 345678911111111111112222222222222233333333333
S26N4075	Road Construction Fast Lane and Remaining Works (along CH3400 - 3720)	-23	90%	50 26-Oct-13 A	12-Feb-14	
Traffic Cont	rol & Survelance System		I			
S26N4810	TCSS - (15m High mast M9), (SEC Poles SC24/ S24) & (Gantry 24) (incl. VO73 Revised Sign Gantry Details)	-31	65%	40 08-Jul-13 A	21-Feb-14	
Modification	n of Existing Bridge					
Modification	n 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	VO 27: Temporary access and lighting for inspection on
S26N1210	Construction of Temporary Pier supports & Installation of Jacks	-44	76.49%	134 22-Jul-13 A	07-Mar-14	
S26N1260	Removal of existing central barrier along B13, Erection breaking platform and re-construction of existing parapet		100%	14 22-Jul-13 A	25-Sep-13 A	, Removal¦of
S26N1270	Breaking the existing stitch of B13 and conditional survey		100%	25 27-Jul-13 A	04-Nov-13 A	Breaking
S26N1330	Removal existing M.J, Bridge Jacking and replacement bearing & M.J		100%	35 27-Jul-13 A	23-Nov-13 A	Remov
S26N1340	TTA - Stage 4B-4	121	0%	0	27-Jan-14]
S26N1350	Stitch Works for B13 (Rebar and Formwork)		100%	35 07-Sep-13 A	25-Nov-13 A	Śtitch Ψ
S26N1355	Stitch Works for B13 (Concreting)		100%	12 27-Dec-13 A	11-Jan-14 A	
S26N1360	Road Surfacing and Road Diversion	-44	10%	35 13-Jan-14 A	07-Mar-14	
Landscapin	a					
S26N6040	Landscaping Works (CH3400 - 3720)	-43	50%	50 16-Sep-13 A	07-Mar-14	
South Bou	nd					
Preliminarie						
	Site Clearance/Access Rd (Tai Wo Road)		100%	129 26-Feb-10 A	04-Aug-10 A	Site Clearance/Access Rd (Tai Wo Road)
S26S10	Site Clearance (Tai Wo Road)		100%	80 26-Feb-10 A	-	Site Clearance (Tai Wo Road)
S26S20	Access Rd (Tai Wo Road)		100%	80 29-Apr-10 A		Access Rd (Tai Wo Road)
Slopeworks						
S26S5000	Slopeworks Fill(S32)	-49	58.33%	24 18-Feb-13 A	10-Feb-14	
S26S5010	Slopeworks Fill (S32) - Stage 1 (Lower +42mPD)		100%	20 18-Feb-13A		Slopeworks Fill (S32
S26S5020	Slopeworks Fill (S32) - Stage 2 (Upper +45mPD)	-49	60%	20 08-Jun-13 A		
S26S5110	Slope Reinstatement Works (besides LB3)	-27	37.5%	24 04-Mar-13 A		
S26S5120	Slope Reinstatement Works (besides LB3) - Lower: below +24mPD	-27	70%	20 04-Mar-13 A		
S26S5120	Slope Reinstatement Works (besides LB3) - Lower: below +24mPD	-27	55%	20 04-Mar-13 A 20 27-Aug-13 A		
		-21	55 %	20 27-Aug-13 A	15-1 60-14	
	n of Retaining Wall /all RWTW1, (CSD 1)					
S26S1289	Pre-drilling for RWTW1 part 1		100%	11 26-May-11 A	08 km 11 A	□ Pre-drilling for RWTW1 part 1
S26S1269						
S26S1290	Construct RWTW1N & RWTW1S Temp. Working Platform		100%	325 26-Nov-11 A 30 26-Nov-11 A		Construct F
						Construction of Structure (mini piles)
S26S1392 S26S1394	Construction of Structure (mini piles) Construction of Structure (part 1, Half of North & South RW)		100%	60 04-Jan-12 A 50 29-Dec-11 A		
						Construction of Structure (part 1, Half of North & Sou
S26S1395 S26S1401	Backfilling (part 1, Half of North & South RW) ELS Works, Excavation and Protection Existing Gas Main		100%	30 18-Feb-12 A 20 25-Mar-13 A		Backfilling (part 1, Half of N
	-			35 19-Apr-13 A		
S26S1402	Construction of Structure (part 2, Remaining RW)		100%			
S26S1403	Backfilling (part 2, Remaining RW)		100%	15 21-Jun-13 A	· .	Backfilling (p
S26S1404	Roadworks		100%	18 15-Aug-13 A	20-066-13 A	
	All RWTW2, (CSD 1)		10001		05 1 44 1	
S26S1379	Pre-drilling for RWTW2		100%	12 12-Jan-11 A		D Pre-drilling for RWTW2
S26S1380	Piling/Excavate & Construct RWTW2		100%	609 26-May-11 A	-	Piling/Excav
S26S1381	Minipile Piling works, Stage 1 (Half Bay 1)		100%	50 26-May-11 A		Minipile Piling works, Stage 1 (Half Bay 1)
S26S1382	Piling platform for Stage 2 (Bay 2-4)		100%	9 19-Apr-12 A		Piling platform for Stage 2 (Bay 2-4)
S26S1383	Minipile piling works, stage 2 (31 nos.)		100%	58 04-Jun-12 A	08-Aug-12 A	Minipile piling works, stage 2 (31 no <mark>s</mark> .)

ctivity	/ וט	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	21	Q	2010	Q3	Q4	Q	1 (201 Q2	Q3	Q4	Q1
	S26S1384	Base slab of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	75 26-Nov-11 A	10-Nov-12 A	12	34	56	78	91	1 1 1	1 1 1		12	222	2222
	S26S1386	Wall of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	48 12-Nov-12 A	22-Jan-13 A											
	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				+-	,						
	S26S1530	Backfilling of RWTW2		100%	20 02-May-13 A												
	S26S1540	Roadworks		100%	20 22-Aug-13 A												
		/all RWTW3, (VO)		100 /8		20 000 10 1											
		Pre-drilling for RWTW3		100%	12 28-Dec-10 A	11-Jan-11 A							Pre-d	trillina	for: B\	NTWS	
	S26S1390	Piling/Excavate & Construct RWTW3		100%	708 01-Aug-11 A	25-Sep-13 A				+-							
	S26S1590	Piling for RWTW3		100%	24 01-Aug-11 A	23-Sep-13 A 23-Sep-11 A										Piling	for B
	S26S1591	ELS Works & Excavation		100%	24 01-Aug-11 A 24 28-Dec-11 A	28-Jan-12 A										-117	
	S26S1593	VO 51.1: Modification works of ELS		100%	20 03-Jul-12 A	31-Jul-12 A											
	S26S1596	VO 51.1: Construction RWTW Base Slab (Bay2-8)		100%	60 20-Aug-12 A	10-Nov-12 A				+-				 -			
	S26S1598	VO 51.1: Construction RWTW Wall Stem (Bay 2-8)		100%	60 17-Sep-12 A	14-Jan-13 A											
	S26S1600	VO 51.1: Temporary cut to slope toe		100%	25 22-Jan-13 A	12-Apr-13 A											
	S26S1602	VO 51.1: Rockfill Slope (Bay 1 - Bay 7)		100%	40 13-Apr-13 A	17-Jun-13 A											
	S26S1604	VO 51.1: Construction RWTW3 (Bay 1)		100%	40 12-Nov-12 A	12-Dec-12 A											
	S26S1606	VO 51.1: Remaining Rockfill below LB3	119	90%	20 19-Jun-13 A	28-Jan-14		 			1 1 1 1 1 1 1 + - +		 -	 -			-+-+-
	S26S1608	VO 51.1: Roadworks		100%	30 26-Jun-13 A	25-Sep-13 A											
		All RWTW3A															
	S26S1614	Construction of RWTW 3A		100%	168 01-Oct-12 A	25-Sep-13 A											
	S26S1628	ELS works RWTW3A		100%	32 01-Oct-12 A	15-Nov-12 A											
	S26S1638	Excavation works RWTW 3A		100%	25 16-Nov-12 A	24-Nov-12 A											
	S26S1648	RC wall construction RWTW 3A		100%	70 26-Nov-12 A	27-Apr-13 A											
	S26S1658	Backfill RWTW 3A		100%	20 06-May-13 A	15-Jun-13 A											
	S26S1668	Roadworks		100%	30 26-Jun-13 A	25-Sep-13 A											
1	Retaining W	/all W60 & W61A (CSD 2)															
	S26S2020	Pre-drilling for W60 & W61A		100%	7 06-May-11 A	24-Jun-11 A									Pre-d	Irilling I	or W
	S26S2030	Mini Piles for W60 & W61A		100%	30 15-Jun-11 A	20-Aug-11 A				+					<mark>-</mark> N	lini Pile	s for
	S26S2040	Excavation		100%	50 19-Apr-12 A	25-Aug-12 A											
	S26S2050	Construct Cap & Wall		100%	52 06-Jun-12 A	31-Aug-12 A											
	S26S2060	Backfilling		100%	30 04-Sep-12 A	10-Apr-13 A											
	Temporary I	Bridge bet. RWTW2 & RWTW1			/												
	S26S2520	TTA Stage 5		100%	0 27-Sep-12 A			·	 	► - + - 4	· - +			111- 1 1 1 1 1 1	- - 	4 - 4 - 4 - 1 1 1 1 1 1 1	
	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											
	S26S4002	Removal of existing paving of landing area		100%	12 18-Feb-13 A	09-Apr-13 A											
	S26S4005	Road Works		100%	25 10-Apr-13 A	31-May-13 A											
	S26S4006	Drainages Works		100%	15 23-Apr-13 A	30-May-13 A				+-							
	S26S4010	Road Surface Works (incl. VO14: Revised Layout of Police Observation Platform at CH3700)		100%	10 01-Jun-13 A	21-Jun-13 A											
	Noise Barrie	ers & Road Barriers															
	Noise Barrie																
Г		Construct Noise Barrier & Beam Barrier, NB35		100%	60 15-Mar-13 A	18-Jun-13 A											
	S26S3010	Construct Noise Barrier : foundation Works. NB35		100%	30 15-Mar-13 A	11-May-13 A		 		⊢ - + - 4 				 - 		· - + - + - + · - + - + - +	- + - + -
	S26S3020	Construct Noise Barrier : Installation of H-coulmn & Panel NB35		100%	7 17-May-13 A	18-Jun-13 A											
	S26S3030	Remaining Works of NB35	-49	80%	10 27-Aug-13 A	28-Jan-14		· · · · · · · · · · · · · · · · · · ·									
		rol & Survelance System	-TU	0070													
	S26S4800			100%	57 12-Mar-13 A	10-Aug-13 A											
	S26S4810	TCSS - Stage 1 (LB1) (VSLS Pole P55)		100%	30 12-Mar-13 A			·		+				 -			- + - + -
	02004010	1000 0laye 1 (LDT) (VOLOT OIC F 30)		100%	30 12-Wat-13 A	21-0ep-13 A									111		



y ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 20 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
		Float	Complete	Duration		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
S26S4820	TCSS - Stage 1 (LB2)		100%	15 15-Jul-13 A	20-Aug-13 A	TCSS - Stage 1
S26S4830	TCSS - Stage 1 (LB3), (Gantry G101) (incl. VO73 Revised Sign Gantry Details)		100%	30 10-Jun-13 A	10-Aug-13 A	TCSS - Slage 1
Landscapir					_	
S26S6000	Landscaping Works	-49	38.33%	60 26-Nov-13 A	13-Mar-14	
S26S6010	Landscaping Works - Stage 1, East of B13A	-49	10%	30 26-Nov-13 A		
S26S6040	Landscaping Works - Stage 2, West of B13A	-49	10%	30 26-Nov-13 A	13-Mar-14	
Middle Lan	ne					
Road Re-co	onstruction Works, Roadworks & Drainage					
S26S4014	Removal of existing paving (CH3400 - CH3720)		100%	25 26-Aug-13 A	13-Sep-13 A	D Removal of ex
S26S4019	Road Works and Surface Works (CH3400 - 3720)		100%	30 26-Aug-13 A	13-Sep-13 A	🗋 Road Works a
Constructi	ion of Bridge 12B					
S22S1310	Construction of Bridge 12B		100%	367 15-Apr-10 A	20-Jul-13 A	Construction of Bri
Preparator	ry and Enabling Works					
S22S1210	Prepare Piling Platform		100%	38 15-Apr-10 A	31-May-10 A	Prepare Piling Platform
S22S1220	Pre-drilling Works		100%	26 15-Apr-10 A	-	Pre-drilling Works
	ion Works of Bridge 12B			· ·	·	
S22S1230	Socketed H-Pile (B12BP8)		100%	62 01-Jun-10 A	13-Aug-10 A	Sockéted H-Pile (B12BP8)
S22S1250	Modify Pile caps & Additional Foundation (B12BP8)		100%	101 02-Jul-10 A	30-Oct-10 A	Modify Pile caps & Additional Foundation (B12BP8)
S22S1251	Excavation & ELS Works		100%	36 02-Jul-10 A	12-Aug-10 A	Excavation & ELS Works
S22S1260	VO 17.1: Modify Pilecap of Bridge 12, Pier 5, 6 & 7 (Deleted)		100%	48 18-May-12 A		D VO 17:1: Modify Pilecap: of Bridge 12; Pier 5, 6 &
S22S1200	VO 17.1: Modify Pilecap of Bridge 12, Pier 8 (Deleted)		100%	48 18-May-12 A	-	VO 17:1: Modify Pilecap.of Bridge 12; Pier 8 (De
S22S1270	VO 17.1: Modily Fliedap of Bridge 12, Fler 8 (Beleted) VO 17.2: Piling for C9			24 26-Jul-11 A	20-Aug-11 A	VO 17.2: Piling for C9
			100%		-	
S22S1290	VO 17.2: Piling for C10		100%	20 26-Sep-11 A		UO 17.2: Piling for C10
S22S1340	VO 17.2: Pilecap construction of C9		100%	60 06-Mar-12 A		VO 17.2; Pilecap construction of C9
S22S1350	VO 17.2: Pilecap construction of C10		100%	54 01-Jun-12 A		VO 17.2: Pilecap construction of C10
S22S1400	VO 17.2: Backfilling & Site Formation		100%	24 11-May-12 A		VO 17.2: Backfilling & Site Forma
S22S1410	VO 17.2: Pier Construction of C9 & C10		100%	94 01-Jun-12 A		VO 17.2: Pier Construction of C9 & C10
S22S1420	VO 17.2: Pier Construction of C9		100%	60 01-Jun-12 A		VO 17:2: Pier Construction of C9
S22S1430	VO 17.2: Pier Construction of C10		100%	75 28-Aug-12 A		VO 17.2: Pier Construction of C10
S22S1440	Construction of 12B North Abutment		100%	75 26-Aug-11 A		Construction of 12B North Abutment
S22S1450	VO 17.2: Deck Construction (Bearings, Drainage & MJ inculded)		100%	179 20-Dec-12 A	20-Jul-13 A	VO 17.2: Deck Co
S22S1460	VO 17.2: Scaffolding & Falsework		100%	35 20-Dec-12 A	28-Mar-13 A	VO 17.2: Scaffolding & Fak
S22S1470	VO 17.2: Deck Formwork, Steel Fixing and Concreting - C9 - C10 (Stage 1)		100%	65 14-Mar-13 A	12-Jul-13 A	VO 17.2: Deck For
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 For
S22S1500	Stressing		100%	5 15-Jul-13 A	20-Jul-13 A	I Stressing
S22S1520	Parapet (Steel Barrier)	-51	95%	15 15-Aug-13 A	27-Jan-14	Para
S22S1540	Road surface & road work	-51	0%	14 27-Jan-14	15-Feb-14	Rož
Con <u>structi</u>	ion of Bridge 12A					
S24S1280	Construction of Bridge 12A (incl. VO29 & VO37: revised piling details and pile caps sleeving details)		100%	451 25-Aug-10 A	14-Sep-13 A	Construction o
Duess						
	ry and Enabling Works		40004			
S24N1210	Site Clearance		100%	42 25-Aug-10 A		
S24N1220	Haul Road		100%	42 25-Aug-10 A		— Haul Road
S24N1230	Gas main Diversion, HKCG		100%	55 25-Aug-10 A		Ga's mạin Diversion, HK¢G
S24N1240	11 KV Cable Diversion		100%	55 25-Aug-10 A		11 KV Cable Diversion
S24N1250	Telephone Cable Diversion		100%	55 25-Aug-10 A	30-Oct-10 A	

	22					
ity ID	Activity Name	Total	Activity %	Original Start	Finish	
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q
South Abu	Itment					
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	🗖 Preþaring þiling þlatfórm
S24N1262	Pre-drilling		100%	18 15-Oct-10 A	05-Nov-10 A	☐ Pre-drilling
S24N1263	Piling (21nos)		100%	43 27-Nov-10 A	19-Jan-11 A	Piling (21nos)
S24N1310	Excavation & Cap-South Abutment		100%	35 04-May-11 A	04-Jun-11 A	Excavation & Cap-South Abutment
S24N1360	Pier & backfill, South Abutment		100%	36 27-Jun-11 A	17-Aug-11 A	Pier & backfill, Sbuth/Abutment
Pier 1						
S24N1270	Piling-Pier 1 (15nos)		100%	30 02-Mar-11 A	07-Apr-11 A	Piling-Pier 1 (15noś)
S24N1320	Cap-Pier 1 & Backfill		100%	36 23-May-11 A		Cap-Pier 1 & Ba¢kfill
S24N1370	Pier 1 (Pierhead included)		100%	96 26-Sep-11 A		Pier 1 (Pierhead included)
			100%	90 20-Sep-11 A	T7-Dec-TFA	
Pier 2			1000/		15 Oct 40 A	
S24N1280	Piling-Pier 2 (15nos)		100%	38 02-Aug-10 A		Piling-Pier 2 (15hds)
S24N1330	Cap-Pier 2 & Backfill		100%	38 20-Nov-10 A		Cap-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 Abu	tment					
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 P
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
	and 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	·	Deck-Pier 1 to Pier 2
S24N1420	Deck-Pier 2 to Pier 3			·	-	Deck-Pier 2 to Pier 3
			100%	75 02-Jun-12 A		
S24N1434	Erection of Falsework		100%	25 29-Dec-12 A		Erection of Falsework
S24N1440	Deck-Pier 3 to North Abutment		100%	60 22-Jan-13 A		Deck-Pier 3 to North Ab
S24N1444	Dismantling of Falsework		100%	25 14-May-13 A		i i i i i i i i i i i i i i i i i
S24N1450	Parapet (icl, precast concrete skin)		100%	21 18-Feb-13 A	09-Jul-13 A	Parapet (i¢l, precas
S24N1457	Erecting Railing (Short Column and barrier)		100%	10 13-Aug-13 A	14-Sep-13 A	📮 Erecting Rajlin
S24N1463	Noise Barrier (Erecting H-Column and Panel)		100%	15 06-Jun-13 A	14-Sep-13 A	Noise Barrier (
S24N1470	Road Lighting		100%	12 27-Aug-13 A	14-Sep-13 A	D Road Lghting
S24N1480	Surfacing		100%	12 30-Jul-13 A	11-Sep-13 A	Surfacin <mark>g</mark>
S24N1490	Inspection and Handover of Bridge 12A		100%	3 12-Sep-13 A	14-Sep-13 A	I Inspection and
Construct	tion of Bridge LB2					
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	Cónstruction c
	bry and Enabling Works				· · ·	
S26S1205	Gas main Diversion at East Abutment (No Connection)		100%	15 24-Jan-13 A	28-Eeb-13 A	Gas;main Diversion;at East A
S26S1205	Temporary Traffic Ar rangement for Piling Work		100%	75 28-Dec-11 A		Témporary Traffic Arrangement for Piling Work
			100%	75 20-Dec-11 A	04-JUII-12A	
	ture and Pier Construction					
TW4						
S26S1203	Excavation and lateral support		100%	20 05-Mar-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)

vity ID	Activity Name	Total	Activity %	Original Start	Finish			2010			T			2011			
		Float	Complete	Duration		21 123	Q2 3 4	56	Q3 7 8	Q2 9 1		Q1			າ3 12	Q4 2 2 2	Q1 2 2 2 2 2
S26S1217	Pile Load Test (1 Tension & 2 compression)		100%	25 31-Oct-12 A	22-Nov-12 A		* * 										
S26S1222	Cap-TW4 & Backfill		100%	35 23-Nov-12 A	05-Feb-13 A												
S26S1225	Pier-TW4 Pier		100%	35 06-Feb-13 A	16-Mar-13 A												
TW5																	
S26S1206	Els, coring and backfill for Piling works		100%	30 19-Jun-12 A	12-Oct-12 A												
S26S1210	Piling-TW5 (20)		100%	40 09-Nov-12 A	21-Dec-12 A												
S26S1220	Cap-TW5 & Backfill		100%	24 23-Jan-13 A	22-Feb-13 A		11				1-1-1			111			
S26S1227	Pier-TW5 Pier		100%	35 23-Feb-13 A	05-Mar-13 A				: : :								
East Abutm	ient	I	I						: : :								
S26S1214	Piling-East Abutment, Stage 1		100%	36 16-Apr-11 A	30-Jun-11 A								Ė		Pilinç	ı-Ėas	t Abutm
S26S1218	Piling-East Abutment, (stage 2, 6 nos. piles remain)		100%	18 29-Oct-12 A	08-Nov-12 A												
S26S1219	Pile Load Test (1 compression)		100%	15 28-Nov-12 A	11-Dec-12 A				+-+		1-1-7		1				
S26S1224	Excavation & Pilecap (Delay by gasmain)		100%	28 04-Mar-13 A	27-Mar-13 A												
S26S1234	East Abutment		100%	30 02-Apr-13 A	29-Apr-13 A												
S26S1254	Backfilling		100%	14 04-Jun-13 A	10-Jun-13 A												
West Abutn	-																
S26S1202	Els, coring & backfill for Piling works		100%	75 26-Nov-11 A	08-Oct-12 A					i-i-					c÷÷		<u></u>
S26S1216	Piling-West Abutment (28)		100%	65 09-Oct-12 A	30-Nov-12 A												
S26S1226	Excavation & Pilecap		100%	28 27-Dec-12 A	01-Feb-13 A												
S26S1226	West Abutment		100%	35 02-Feb-13 A	10-Apr-13 A												
S26S1256	Backfilling		100%	14 29-Apr-13 A	07-Aug-13 A				: : :								
			100 %	14 29-Api-13 A	07-Aug-13 A				+-+								
	nd Finishing		1000/	04 10 Mar 10 A	05 Can 10 A				: : :								
S26S1238	Bridge Decking (Bearings, Drainage & MJ inculded)		100%	84 18-Mar-13 A	25-Sep-13 A				: : :								
S26S1240	Falsework Erection of Deck - West Abutment to TW4		100%	14 18-Mar-13 A	30-Apr-13 A												
S26S1241	Bridge Deck - West Abutment to TW4		100%	48 20-Apr-13 A	08-Jun-13 A												
S26S1242	Falsework Dismantling of deck - West Abutment to TW4		100%	10 10-Jul-13 A	24-Aug-13 A					+-+-							
S26S1243	Falsework Erection of Deck - TW4 to TW5		100%	14 18-Mar-13 A	30-Apr-13 A												
S26S1244	Bridge Deck - TW4 to TW5		100%	48 24-Apr-13 A	19-Jun-13 A												
S26S1245	Falsework Dismantling of deck - TW4 to TW5		100%	10 10-Jul-13 A	24-Aug-13 A												
S26S1246	Falsework Erection of Deck - TW5 to East Abutment		100%	14 08-May-13 A	29-May-13 A												
S26S1247	Bridge Deck - TW5 to East Abutment		100%	48 15-May-13 A	06-Jul-13 A					+ - + -			4				
S26S1248	Falsework Dismantling of deck - TW5 to East Abutment		100%	10 10-Jul-13 A	24-Aug-13 A				: : :								
S26S1260	Parapet (icl, precast concrete skin)		100%	25 08-Jul-13 A	25-Sep-13 A												
S26S1265	Road Lighting		100%	5 27-Aug-13 A	14-Sep-13 A												
S26S1270	Surfacing		100%	10 16-Sep-13 A	25-Sep-13 A												
S26S1310	Handover Inspection of LB2 (TTA Stage 11)		100%	158 18-Mar-13 A	25-Sep-13 A												
Constructi	ion of Bridge LB3																
S26S1280	Construction of Bridge LB3(incl. excavation & backfill) (incl. VO29 & VO37)	ĺ	100%	267 26-Feb-11 A	02-Oct-13 A							-					
Substruct	ure & Abutment																
S26S1320	Piling for East Abutment		100%	60 26-Feb-11 A	14-May-11 A	-								Pilir	ig foi	Éas	t Abutm
S26S1330	Piling for West Abutment		100%	60 14-May-11 A	26-Jul-11 A								ſ	<u> </u>		11	r West /
S26S1340	ELS & Excavation for East & West Abutment		100%	36 07-Dec-11 A	21-Jan-12 A				+-+							·	
S26S1350	Construction of East/West Abutment Structure		100%	45 19-Jan-12 A	13-Jul-12 A												
	nd Finishing																
S26S1370	Bridge Deck (Bearings, Drainage & MJ included)		100%	257 19-Apr-12 A	24-Nov-12 A												
020010/0	Falsework and Scaffolding		100%	36 19-Apr-12 A	31-Aug-12 A												
S26S1371	Falsowork and Scattolding																

1		_	Q2	_	12	23 23			Q4		6)1		02	20	_) Q3		(24			Q1	-	014 Q2	_	Q	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	4 5	5	5	5	5	5
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00004070		Tiout	-		00 1 10 1	21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 1234567891111111111112222222
S26S1373	Falsework dismantling of Deck		100%	24 21-Dec-12 A	09-Jan-13 A	
S26S1375	Parapet (icl, precast concrete skin)		100%	20 26-May-13 A		
S26S1376	Erecting of Short Column		100%	20 19-Jun-13 A	13-Aug-13 A	
S26S1377	Installing M-Barrier		100%	7 27-Aug-13 A	21-Sep-13 A	
S26S1378	Surfacing		100%	8 16-Sep-13 A	25-Sep-13 A	
S26S1385	Handover Inspection of LB3		100%	1 02-Oct-13 A	02-Oct-13 A	
Construct	ion of Bridge LB1					
S26S1400	Construction of Bridge LB1 (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills)		100%	643 03-May-10 A	02-Oct-13 A	
Preparato	ry and Enabling Works					
S26S1405	Site Clearance		100%	75 03-May-10 A	06-Aug-10 A	Site Clearance
S26S1406	Site Clearance - Stage 1 (LB1-North Abutment)		100%	60 03-May-10 A	14-Jul-10 A	Site Clearance - Stage 1 (LB1-North Abut
S26S1407	Site Clearance - Stage 2 (LB1-TW3)		100%	60 27-May-10 A	06-Aug-10 A	Site Clearance - Stage 2 (LB1-TW3)
S26S1410	Access Road		100%	75 03-May-10 A	31-Jul-10 A	Access Road
S26S1411	Access Road - Stage 1 (LB1-North Abutment)		100%	60 03-May-10 A	14-Jul-10 A	Access Road - Stage 1 (LB1-North Abutm
S26S1412	Access Road - Stage 2 (LB1-TW3)		100%	60 20-May-10 A	31-Jul-10 A	Access Road - Stage 2 (LB1-TW3)
S26S1450	SA25-Site Clearance (TW1 & TW2)		100%	53 26-Mar-11 A	02-Jun-11 A	SA25-Site Clearan
S26S1455	SA25 - Access Road (TW1 & TW2)		100%	53 26-Mar-11 A	02-Jun-11 A	SA25 - Access Roz
S26S1465	VO 31: Fencing for Former Lot 1308 S.B in D.D.6		100%	10 27-Jun-11 A	09-Jul-11 A	U VO 31: Fencing
	ure and Pier Construction					
North Abu						
	Piling-North Abutment		100%	51 01-Jun-10 A	31-Jul-10 A	Piling-North Abµtment
S26S1430	Excavation & Cap-North Abutment		100%	54 11-Nov-10 A	28-Dec-10 A	Excavation & Cap-North Abutr
S26S1440	Pier & backfill, North Abutment		100%	56 26-Jan-11 A	04-Apr-11 A	Pier: & backfill, North Ab
TW3					F	
S26S1422	Piling-TW3		100%	54 28-Dec-10 A	21-Mar-11 A	Piling-TW3
S26S1432	Cap & Backfill - TW3		100%	45 26-May-11 A		Cap & Backfill-
S26S1442	Pier-TW3 (Pierhead included)		100%	75 08-Aug-11 A		Pier-
TW1			10070		III Boo IIII	
S26S1460	Piling-TW1		100%	70 21-Oct-10 A	11-Nov-10 A	Piling-TW1
S26S1470	Cap & Backfill - TW1		100%	36 27-Jan-11 A	19-Feb-11 A	□ Cap & Backfill - TW1
S26S1470	Pier-TW1 (Pierhead included)		100%	75 23-May-11 A		Pier-TW1 (Pier
			100 %	75 23-Way-11 A	00-JUFTTA	
TW2			100%	41 00 Mar 11 A	1E Apr 11 A	Piling-TW2
S26S1462 S26S1472	Piling-TW2		100%	41 28-Mar-11 A 45 21-Jun-11 A	· ·	
	Cap & Backfill - TW2		100%		15-Jul-11 A	Cap & Backfill
S26S1482	Pier-TW2 (Pierhead included)		100%	75 26-Jul-11 A	11-Feb-12 A	
	nd Finishing		1000/		10 1 1 10 1	
S26S560	Decking (Bearings, Drainage & MJ included) (incl. VO 45: Details Drainage Arrangement of LB1 & B13A)		100%	199 27-Jul-11 A	12-Jul-12 A	
S26S570	Balanced Cantilever at TW1		100%	63 27-Jul-11 A	12-Oct-11 A	Balanced
S26S580	Preparing of Travelling Form		100%	18 27-Jul-11 A	17-Aug-11 A	Preparing of
S26S590	Construction of Cantiliver Deck, TW1		100%	40 30-Sep-11 A	17-Dec-11 A	Çon
S26S610	South End Span		100%	40 28-Dec-11 A	16-Feb-12 A	
S26S630	Balanced Cantilever at TW2 & Stitching (TW1-TW2)		100%	58 01-Feb-12 A	15-May-12 A	
S26S640	Preparing of Travelling Form		100%	12 01-Feb-12A	29-Feb-12 A	
S26S650	Construction of Cantiliver Deck, TW2		100%	40 19-Apr-12 A	15-May-12 A	
S26S660	Stitching TW1-TW2		100%	18 11-May-12 A	11-Jun-12 A	
	Balanced Cantilever at TW3 & Stitching (TW2-TW3)		100%	52 28-Dec-11 A	19-Apr-12 A	

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vity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	21 Q2 Q3 Q4 Q1 Q2
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S26S680	Preparing of Travelling Form		100%	12 28-Dec-11 A		Preparing of Travelling Form
S26S690	Construction of Cantiliver Deck, TW3		100%	40 12-Jan-12 A	· ·	Construction of Cantiliver Deck, TW3
S26S700	Stitching TW2-TW3		100%	22 18-May-12 A		Stitching TW2-TW3
S26S720	North End Span		100%	50 18-May-12 A		North End Span
S26S740	Parapet (icl, precast concrete skin)		100%	52 05-Nov-12 A	· ·	Parapet (icl, pred
S26S750	Erecting of Precast Parapet		100%	32 05-Nov-12 A	-	
S26S760	Installing M-Barrier		100%	6 15-Aug-13 A	-	Installing M+Bart
S26S770	Noise Barrier		100%	6 15-Aug-13 A	07-Sep-13 A	□ Noise;Barrier
S26S780	Surfacing		100%	7 16-Sep-13 A	25-Sep-13 A	D' Surfác <mark>i</mark> ng
S26S790	Road Lighting		100%	7 27-Aug-13 A	14-Sep-13 A	D Road Lghting
S26S800	Handover Inspection of LB1		100%	1 02-Oct-13 A	02-Oct-13 A	I Handover Inspe
Construct	tion of Bridge 13A			,		
	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 Bridge;
Proparato	ory and Enabling Works				<u> </u>	
S26S1610	Site Clearance		100%	24 03-May-10 A	31-May-10 A	🔲 Site Clearance
S26S1611	Access Road		100%	63 03-May-10 A		Access Road
S26S1620	Gas main Diversion at North/South Abutment, HKCG		100%	37 01-Jun-10 A		Gas main:Diversion at North/South Abutment, HKCG
S26S1690	SA25-Site Clearance					□ SA25-Site Clearance
			100%	25 26-Feb-11 A		
S26S1700	SA25 Haul Road		100%	25 26-Feb-11 A		SA25 Haul Road
S26S1710	SA25-Gas Main diversion at South Abutment & P1		100%	25 26-Feb-11 A	26-Mar-11 A	🗖 SA25-Gas Mạin điversion at South Abutment & P1
Substruct	ure and Pier Construction					
North Abut						
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
S26S1632	Piling		100%	45 09-Aug-10 A	30-Nov-10 A	Piling
S26S1650	Excavation & Cap-Nouth Abutment		100%	50 04-Jan-11 A	04-Apr-11 A	Excavation & Cap-Nouth Abutment
S26S1670	Construction of Abutment-Nouth Abutment		100%	50 27-Oct-11 A	17-Dec-11 A	Construction of Abutment-Nouth Abutment
S26S1930	Backfill Stage 1, North Abutment		100%	24 01-Mar-12 A	14-Apr-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 Abu
South Abu	Itment					
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		Excavation & Cap-South Abutment
S26S1780	Abutment, South Abutment		100%	38 26-Oct-11 A		Abutment, South Abutment
S26S1950	Backfill Stage 1, South Abutment		100%	24 01-Mar-12 A		Backfill Stage 1, South Abutment
S26S1960	Backfill Stage 2, South Abutment		100%	43 19-Nov-12 A		Backfill Stage 2, South Abutme
S26S1900	COD: 13ASA 18 days additional Drainage works (if RFI can be replied before 4-12-2012)		100%	18 01-Apr-13 A		COD: 13ASA 18 days addit
			100 /0	10 01-Api-13 A		
P1	Diling D1		1000/		20 Nov 10 A	
S26S1730	Piling-P1		100%	20 18-Oct-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		Piér-P1
S26S1820	Pier-P1 Pierhead		100%	48 14-Feb-12 A	19-Apr-12 A	Pier-P1 Pierhead
P2						
	Piling-P2		100%	35 28-Mar-11 A	16-Apr-11 A	
S26S1740					·	

ctivity ID	Activity Name	Total	Activity %	Original	Start	Finish		2010			011		
		Float	Complete	Duration			21 Q2				Q3	Q4	Q1
S26S1800	Pier-P2		100%	75	26-Oct-11 A	27-Jan-12 A	1234	<u> </u>		<u> </u>	<u>ין ין ין ב</u>		
S26S1910	Pier-P2 Pierhead		100%	53	01-Aug-12 A	12-Oct-12 A							
P3			I		<u> </u>								
S26S1640	Piling-P3		100%	50	26-Feb-11 A	19-Mar-11 A				🗖 Piling	g-P3		
S26S1660	Cap & Backfill -P3		100%	50	26-May-11 A	30-Jul-11 A				 		ap & Ba	ackfill
S26S1680	Pier-P3		100%	96	26-Sep-11 A	20-Jan-12 A							🗖 Pie
S26S1920	Pier-P3 Pierhead		100%	48	19-Apr-12 A	31-Jul-12 A							
Decking a	nd Finishing												
S26S1808	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			I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S26S1810	Balanced Cantilever deck at P1		100%	0	01-Jun-12 A	20-Jul-12 A							
S26S1811	Preparing of Travelling Form		100%	12	01-Jun-12 A	25-Sep-12 A							
S26S1812	Construction of Cantiliver Deck at P1		100%	55	15-Jun-12 A	04-Aug-12 A							
S26S1816	South End Span (South abutment-P1)		100%	197	13-Aug-12 A	09-Nov-12 A							
S26S1818	South End Span		100%	50	13-Aug-12 A	10-Nov-12 A							
S26S1830	Balanced Cantilever deck at P2 & Stitching (P1-P2)		100%	78	19-Nov-12 A	14-Jan-13 A							
S26S1831	Preparing of Travelling Form		100%	12	19-Nov-12 A	08-Dec-12 A							
S26S1832	Balanced Cantilever deck at P2		100%	50	10-Dec-12 A	05-Jan-13 A							
S26S1833	Stitching (P1-P2)		100%	18	11-Jan-13 A	14-Jan-13 A							
S26S1840	Balanced Cantilever deck at P3 & Stitching (P2-P3)		100%	73	20-Aug-12 A	17-Jan-13 A							
S26S1841	Preparing of Travelling Form		100%	12	20-Aug-12 A	05-Sep-12 A							
S26S1842	Balanced Cantilever deck at P3		100%	43	06-Sep-12 A	05-Nov-12 A							
S26S1843	Stitching (P2-P3)		100%	18	15-Jan-13 A	17-Jan-13 A							
S26S1850	North End Span & Stitching (Nouth Abutment-P3)		100%	96	29-Oct-12 A	01-Mar-13 A							
S26S1851	End Spans for B13A		100%	29	29-Oct-12 A	01-Feb-13 A							
S26S1852	Post Tentioning Works		100%	18	18-Feb-13 A	01-Mar-13 A							
S26S1860	Parapet (icl, precast concrete skin)		100%	24	19-Mar-13 A	25-May-13 A							
S26S1863	Erection of Short Column and Barrier		100%	12	03-May-13 A	15-Jun-13 A							
S26S1873	Noise Barrier (Erection of H-Column and Panel)		100%	12	03-May-13 A	11-Jun-13 A							
S26S1875	Lighting		100%	12	25-May-13 A	11-Jun-13 A							
S26S1880	Surfacing		100%	12	25-May-13 A	21-Jun-13 A							
S26S1900	Handover Inspection of Bridge 13A		100%	3	21-Jun-13 A	22-Jun-13 A							
Ready For	r Pre-Handover Retaining Wall of Section 2												
HRW0020	Ready For Pre-Handover Retaining Wall W56A, W56B, W57A, W57B, W57C, W59 and RWB12A(N)	-19	0%		27-Jan-14	06-Feb-14							
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							
Section 3													
Site Area S	SA26A												
PHSA26A2	Possession of SA26A (Day0)		100%	0	26-Feb-10 A		Poss	ession (of SA26A	(Day0)			
SA26A000	Site Area SA26A Works Period	-9	98.02%	1215	26-Feb-10 A	19-Feb-14			+ + +		-11		+ - + - + - 1 1 1
SA26A010	Site Area SA26A Works Completion	-9	0%	0		19-Feb-14							
SA26A020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	-8	98.17%	983	26-Feb-10 A	19-Feb-14					+++++++++++++++++++++++++++++++++++++++	+++++	++++
SA26A030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-8	98.17%	983	26-Feb-10 A	19-Feb-14						++++	
North Bou	Ind												
Preliminari	ies												
S26AN000	Site Clearance/Access Rd		100%	75	26-Feb-10 A	18-Jun-10 A		Site	Clearand	ce/Access F	٦d		

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ivity ID	Activity Name	Total Activi Float Com		ration	Start	Finish		Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q4<
S26AN010	Site Clearance	1	00%	60	26-Feb-10 A	12-May-10 A	123456	
S26AN020	Access Rd	1	00%	60	07-Apr-10 A	18-Jun-10 A		AccessiRd
Slopeworks						<u> </u>		
S26AN502	Cut Slope (S37A)	1	00%	48	26-Apr-12 A	03-Jul-12 A		Cut Slope (S37A)
S26AN506	Cut Slope (S40-sn, Including removal of existing retaining wall)	1	00%			08-Jan-11 A		Qut Slope (\$40-sn, Including removal of existing retaining wall)
S26AN508	Slopeworks Cut(S40) - Stage 1 (Cut Slope and Erect Scaffolding)	1	00%	11	19-Jun-10 A	16-Jul-10 A		Slopeworks;Cut(S40) - Stage 1 (Cut Slope and Erect;Scaffolding)
S26AN510	Slopeworks Cut(S40) - Stage 1 (Soil Nail Installation : QRST)	1	00%	11	19-Jul-10 A	18-Aug-10 A		Slopeworks Cut(S40) - Stage 1 (Soll Nail Installation : QRST)
S26AN514	Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)	1	00%	14	19-Aug-10 A	17-Sep-10A		Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)
S26AN516	Slopeworks Cut(S40) - Stage 2 (Soil Nail Installation : MNOP)	1	00%	14	21-Nov-10 A	26-Dec-10 A		Slópeworks Cut(S40) - Stage 2 (Sóil Nail Installation : MNOP)
S26AN518	Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)	1	00%	17	18-Aug-10 A	17-Sep-10 A		📮 Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)
S26AN520	Slopeworks Cut(S40) - Stage 3 (Soil Nail Installation : IJKL)	1	00%	17	27-Dec-10 A	01-Feb-11 A		Slopeworks Cut(S40); - Stage 3 (Spil/Nail Installation : IJKL)
S26AN522	Slopeworks Cut(S40) - Stage 4 (Cut Slope and Erect Scaffolding)	1	00%	12	28-Jan-11 A	15-Feb-11 A		Slopeworks:Cut(S40) - Stage 4 (Cut Slope and Erect Scaffolding)
S26AN524	Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)	1	00%	12	02-Feb-11 A	19-Feb-11 A		Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)
S26AN525	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)		00%		29-Oct-11 A	16-Nov-11 A		Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffoldi
S26AN526	Slopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)		00%	18	16-Nov-11 A	07-Dec-11 A	—	D Stopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)
S26AN528	Removal of Existing Retaining Wall	1	00%	30	11-Apr-11 A	20-May-11 A	—	🛱 Removal of Existing Retaining Wall
S26AN530	Cut Slope (S41-sn)	1	00%	138	19-Jun-10 A	02-Dec-10 A		Cut Slope (S41;-sn);
S26AN531	Cut Slope (S41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)		00%	11	19-Jun-10 A	16-Jul-10 A		Cut Slope (\$41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)
S26AN532	Cut Slope (S41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)	1	00%		19-Jul-10 A	13-Aug-10 A		Cut Slope (\$41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)
S26AN533	Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)		00%			17-Sep-10 A		Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)
S26AN534	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)		00%		28-Dec-10 A			Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation: IJKL)
S26AN535	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)		00%			27-Nov-10 A		Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)
S26AN536	Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)		00%		30-May-11 A			□ Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)
S26AN537	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)		00%		26-Oct-11 A	08-Nov-11 A		Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)
S26AN538	Cut Slope (S41-sn) - Stage 4 (Soil Nail Installation : ABCD)		00%			14-Jan-13 A		□ Cut Slope (\$41-sn) - Stage 4 (\$
S26AN540	Slope 7NW-B/C 349		00%			25-Nov-10 A		Slope 7NW-B/C 349
S26AN541	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.		00%		02-Oct-10 A	19-Oct-10 A		Erect Scaffolding & Soil Nall Installation (7NW-B/C 349) - Stage:1 (EF) 52rios.
S26AN542	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD) 270nos.		00%		20-Oct-10 A	25-Nov-10 A		Erect Scaffolding & Soil Nail Installation (7NW+B/C 349) - Stage 2 (ABCD) 270hos.
S26AN550	Slope 7NW-A/C35-sn		00%			20-Nov-10 A		Slópę 7NW-A/C35-śn
S26AN550	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.		00%		•	11-Sep-10 A		Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.
S26AN500	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (CF) 25/los.		00%		13-Sep-10 A			Erect Scaffolding & Soil Nail Installation (7NW-A/C35+sn) - Stage 2 (KLMN) 285nos
					1			Erect Scattolung & Soil Nall Installation (7NW-A/C35+sh) + Stage 2 (ALWR) 265105 Erect Scattolung & Soil Nall Installation (7NW-A/C35+sh) + Stage 3 (GHIJ) 370hos.
S26AN580	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 3 (GHIJ) 370nos. Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.		00%		30-Sep-10 A			
S26AN590	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sh) - Stage 4 (CDEF) 40/hos. Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sh) - Stage 5 (AB) 204nos.		00%		20-Oct-10 A	19-Nov-10 A		Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sh) - Stage 4 (CDEF) 407nos.
S26AN650			00%			20-Nov-10 A		□ Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sh) - Stage 5 (AB) 204nos.
S26AN660	Slope 7NW-A/CR39		00%			28-Mar-11 A		
S26AN670	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.		00%		22-Nov-10 A	15-Dec-10 A		Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos;
S26AN680	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGHI) 162nos.		00%			25-Feb-11 A		Erect Scaffolding & Soil Nail Installation (7NW+A/CR39) - Stage 2 (DEFGHI) 162r
S26AN690	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109nos.		00%			28-Mar-11 A		Erect Scàffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109no
S26AN930	Erect Scaffolding & Soil Nail Installation (Area 6-1)	1	00%	/5	20-⊢eb-13 A	25-Nov-13 A		Erect Sca
	n of Retaining Wall							
	All W65C (w/SP)		00%	150	07 him 44 4	05 k/ 11 A		
S26AN100	Sheet Pile/Excavate & Construct W65C (w/SP)		00%		27-Jun-11 A			
S26AN101	Sheet Pile and Excavation		00%		27-Jun-11 A			Sheet Pile and Excavation
	Construction of Structure W65C		00%		27-Jun-11 A			Construction of Structure W65C
S26AN103		1	00%	24	27-Jun-11 A	25-Jul-11 A		🗖 Backfilling
Retaining W								
	Sheet Pile/Excavate & Construct W68 (w/SP)		00%		15-Nov-10 A			Sheet Pile/Excavate & Construct W68 (w/SP)
S26AN121	Sheet Pile and Excavation	1	00%	19	15-Nov-10 A	04-Dec-10 A		Sheet Pile and Excavation

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	S26AN122	Construction of Structure W68		100%	75 26-Aug-11 A	24-Nov-11 A	
	S26AN123	Backfilling		100%	54 01-Jun-12 A	16-Jul-12 A	Backfilling
	Retaining W	all W69 on Mini-Piles (AD 3)					
	S26AN142	Prepare Piling Platform for W69		100%	24 21-Sep-10 A	10-Oct-10 A	Prepare Piling Platform for W69
	S26AN144	Pre-drilling for W69		100%	24 10-Sep-10 A	10-Oct-10 A	□ Pre-drilling for W69
	S26AN146	Pipe Pile for W69		100%	77 20-Oct-10 A	24-Dec-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 (horth)
	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 - St
	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 Pile
	S26AN152	Retaining Wall & Drainage W69		100%	120 26-Aug-11 A	19-Jan-12 A	Retaining Wall & Drainage W6
	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	
	S26AN155	Backfilling		100%	75 01-Jun-12 A	16-Jul-12 A	Ba¢kfilling
	Retaining W	all W70					
	S26AN170	Sheet Pile/Excavate & Construct W70 (w/SP)		100%	165 03-Dec-10 A	15-Mar-13 A	
	S26AN171	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	Construction of \$tructure W70 (w/SP
	S26AN173	Drainage & Backfilling		100%	54 18-Feb-13 A	28-Jun-13 A	
	S26AN174	Backfilling behind W68 to W70 and drainage works		100%	60 18-Mar-13 A	25-Nov-13 A	
	S26AN184	Erect Scaffolding & Soil Nail Installation		100%	35 04-Oct-13 A	25-Nov-13 A	
	Retaining W	all W72A (w/SP)					
	S26AN190	Sheet Pile/Excavate & Construct W72A (w/SP)		100%	92 30-Oct-10 A	21-Nov-11 A	\$heet Pile/Excavate & Construct V
	S26AN191	Sheet Pile and Excavation		100%	34 30-Oct-10 A	31-Jan-11 A	Sheet Pile and Excavation
	S26AN192	Construction of Structure W72A (w/SP)		100%	46 03-Jan-11 A	24-Mar-11 A	Canstruction of Structure W72A (w/SP)
	S26AN193	Draiage & Backfilling		100%	68 01-Jun-11 A	21-Nov-11 A	Draiage & Backfilling
	Road Re-Co	nstruction Works, Roadworks & Drainage					
	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 (Fro
	S26AN431	Slip Road R (From W70 to B18A) Stage 1.1 formation		100%	15 26-May-12 A	13-Jun-12 A	Slip Road R (From)
	S26AN432	Slip Road R (From W70 to B18A) Stage 1.1 Drainage & utilities		100%	15 14-Jun-12 A	03-Jul-12 A	□ Slip Road R (From
	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 (Fro
	S26AN435	Slip Road R (From W70 to B18A) Stage 2		100%	93 18-May-12 A	14-Sep-13 A	
	S26AN436	Slip Road R (From W70 to B18A) Stage 2, formation (Remaining)		100%	30 18-May-12 A	06-Aug-13 A	
	S26AN437	Slip Road R (From W70 to B18A) Stage 2, Drainage & utilities (Remaining)		100%	30 27-Jun-12 A	14-Sep-13 A	
	S26AN438	Slip Road R (From W70 to B18A) Stage 2, pavement & roadworks (Remaining)		100%	50 14-Jul-12 A	14-Sep-13 A	
	S26AN447	Construction Slip Road J (Under Bridge 15A)	-13	50%	45 27-Aug-13 A	25-Feb-14	
	S26AN448	Construction Slip Road Q (At W65C)	-13	50%	45 27-Dec-13 A	25-Feb-14	
	S26AN451	Road and Drainage Works (CH 3720 - 4550)		100%	168 24-Jun-13 A	20-Dec-13 A	
	S26AN452	Removal of existing central barrier and forming temporary road (CH3720-4100)		100%	12 24-Jun-13 A	20-Jul-13 A	
	S26AN4525	TTA - Stage 4B-2		100%	0	21-Jul-13 A	
	S26AN453	Road and Drainage Works for Slow and Mid Lane (CH3720 - 3850)	-13	60%	20 08-Jul-13 A	07-Feb-14	
	S26AN454	Road Surface Works for Slow and Mid Lane (CH3720 - 3850)	-6	60%	10 26-Oct-13 A	12-Feb-14	
	S26AN455	Removal of existing central barrier (CH4100-4550)		100%	8 26-Jul-13 A	09-Aug-13 A	
	S26AN456	Road Works for Fast and Mid Lane (CH3850 - CH4550)		100%	20 10-Aug-13 A	25-Nov-13 A	
	S26AN457	Road Surface Works for Fast and Mid Lane (CH3850 - 4550)		100%	10 27-Aug-13 A	25-Nov-13 A	
	S26AN458	Road Works for Fast Lane (CH3720 - 3850)		100%	20 26-Oct-13 A	25-Nov-13 A	
	S26AN459	Road Surface Works for Fast Lane (CH3720 - 3850)		100%	10 26-Oct-13 A	25-Nov-13 A	— []]]]]]]]]]]]]]]]]]

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tivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 201: 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2	Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
S26AN460	Road and Drainage Works for Slow Lane (CH4250 - 4550)	-13	60%	35 05-Oct-13 A	14-Feb-14	12345678911111111111222222222	3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5 5 5 5
S26AN461	Road Surface Works for Slow Lane (CH4250 - 4550)	-13	60%	10 26-Oct-13 A			Road
S26AN462	Road Construction and Remaining Works (along CH 3720 - 4550)	-0	100%	35 05-Oct-13 A			Road Cons
S26AN402 S26AN470	Road and Drainage Works (CH 4550 - 4720)	-15	71.36%	88 26-Oct-13 A			Road
S26AN470 S26AN471	Road and Drainage Works for Fast Lane (CH 4550 - 4720)	-15	100%	35 26-Oct-13 A			E Road and D
S26AN471 S26AN472				8 26-Oct-13 A			
S26AN472 S26AN482	Road Surface Works for Fast Lane (CH4550 - 4720)	15	100%				🗖 Road Surfac
	Road Construction and Remaining Works (along CH 4550 - 4720)	-15	44%	45 05-Oct-13 A	20-FeD-14		Road
	trol & Survelance System	10	700/	50 15 km 10 A	05 Est 14		
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		T¢S
	n of Existing Bridge	1 _1					
S26AN200	Modification of Existing Bridge 15	-7	83.88%	104 24-Jun-13 A			Modif
S26AN230	Demolish of Central Barrier		100%	12 24-Jun-13 A			Demolish of Ce
S26AN240	Raising of Concrete Edge for N/B (CH3800 -3900)		100%	15 09-Sep-13 A			Raising of C
S26AN250	Removal existing M.J and install new M.J for Slow and Mid Lane (S/B)	-7	85%	8 02-Aug-13 A			Remov
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		Ralsir
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 e
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		Remo
Landscapir	ng						
S26AN610	Landscaping Works	5	85%	29 15-Mar-13 A	04-Feb-14		Lạnds
South Bou	ind						
Preliminari	es						
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	Site Clearance	·····
S26AS020	Access Road		100%	75 31-May-10 A	14-Sep-10 A	Access Road	
Slopework					· ·		
	Slope Reinstatement Works (Bridge 15A)	-50	68.42%	95 08-Aug-13 A	05-Mar-14		Slop
S26AS515	Backfilling Slope	-50	85%	30 08-Aug-13 A		——	Backfil
S26AS520	Soil Nail Installation	-50	70%	50 27-Aug-13 A			
S26AS540	Slope Surface Treatment	-50	30%	15 28-Oct-13 A			Sion
		-50	5078	13 20-000-13 A	05-1011-14		
Landscapir	Landscaping	50	0%	30 06-Mar-14	10-Apr-14		
		-50	0%	50 00-Wai-14	10-Api-14		
	onstruction Works, Roadworks, Drainage & Utilities	10	00.440/		00 Mar 14		
S26AS400	Roadworks, Drainages & Utilities (CH 4020 - 4500)	-18	93.11%	399 14-Feb-12 A			Roa
S26AS410	Roadworks, Drainages & Utilities Stage 1 (ch4020-ch4200 & Tai Po Tai Wo Road)		100%	110 14-Feb-12 A			Roadworks, Drainages & Utilities Sta
S26AS411	Removal of existing paving		100%	25 14-Feb-12 A			Removal of existing paving
S26AS412	Utilities		100%	75 14-Feb-12 A			l 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
S26AS420	Roadworks, Drainages & Utilities Stage 2(ch4200-ch4500)		100%	737 14-Feb-12A	· ·		Roadworks, Drainages & Utilities Stage 2
S26AS422	Removal of existing paving		100%	50 14-Feb-12 A			Removal of existing paving
S26AS424	Utilities		100%	75 14-Feb-12A	-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S26AS426	Drainages		100%	75 27-Jun-12 A	11-Aug-12 A		Drainages
S26AS428	Road Surface & Roadmark - Stage 2		100%	8 10-Sep-12A	28-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	21-Jun-13 A		Roadworks Stage 3 (c
S26AS440	Road Construction and Remaining Works (along CH4020 - 4500)		100%	75 28-Jan-13 A	20-Jul-13 A		Road Construction a
S27S4090	HyD/Lighting (Existing Street Light removal by HyD Lightings		100%	52 26-May-11 A	25-Jun-11 A	HyD/Lighting (Existing Stre	et Light removal by HyD Lightings
S27S4100	Slip Road K (utilities & drainage), Stage 1 (excl. WSD connection)		100%	75 14-Feb-12A	19-Apr-12 A		Road K (utilities & drainage), Stage 1 (excl. WSL
S27S4102	Slip Road K (utilities & drainage roadwork), Stage 2 (incl. WSD connection)		100%	50 18-May-12 A	45.0 1.40.4	<u>_</u>	Slip Road K (utilities & drainage roadwor

/ity ID	Activity Name	Total	Activity %	Original Start	Finish	
		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q4 Q1 12 Q2 Q3 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12 Q1 12
S27S4110	Slip Road S (utilities, drainage & roadwork)	-18	45%	50 04-Oct-13 A	03-Mar-14	
S27S4160	TTA Stage 0		100%	0 07-Oct-12 A		◆ :TTA Stage 0:
	iers & Road Barriers					
	rier NB36 & NB37	1				
S26AS300			100%	255 28-Dec-11 A		Construct Noise Barrier & Beam Barrier, N
	Noise Barrier : Foundation Works		100%	75 28-Dec-11 A		🗖 Noise Barrier : Foundation Works
S26AS320	Noise Barrier : Installation of H-column & Panel		100%	60 01-Feb-12 A		Noise Barrier : Installation of H-column & r
S26AS330	Remaining NB36 installation of panel		100%	7 25-May-13 A	15-Jun-13 A	Remaining NB36
	trol & Survelance System					
S26AS480	TCSS (ch3720 - ch4820)		100%	56 30-Nov-12 A		ΤCS\$ (chβ720
S26AS481	TCSS - Stage 1 (ch3720 - ch3900)		100%	24 11-Mar-13 A	· ·	└── TCSS - Stage 1 (¢h3
S26AS482	TCSS - Stage 2 (ch3900 - ch4080)		100%	24 19-Apr-13 A		TCSS - Stage 2 (
S26AS483	TCSS - Stage 3 (ch4080 - ch4260), (Gantry G59) (incl. VO73 Revised Sign Gantry Details)		100%	24 22-Jan-13 A	06-Jun-13 A	TCSS- Stage β (α
S26AS484	TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign Gantry Details)		100%	24 30-Nov-12 A		☐ TCSS - Stage 4 (ch4260 - ch4
S26AS485	TCSS - Stage 5 (ch4440 - ch4620)	17	90%	24 24-Dec-12 A		
S26AS486	TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry Details)		100%	24 07-Jan-13 A	15-Jul-13 A	
North & S	outh Bound					
Slopworks						
S26ANS50	Slopeworks & Reinforced Earth Wall Bridge 18A		100%	72 26-Feb-11 A	27-May-11 A	Slópeworks & Reinforced Earth Wall Bridge 18A
Construction	on of Bridge 18A					
S26AN94	COD: DAN 327 DN800/ 400 - Additional pipeline and thrust blocks	-5	80%	75 06-Aug-12 A	15-Feb-14	
S26ANS10	Construct East & West Abutment of Bridge 18A		100%	91 28-Mar-11 A	19-Aug-11 A	Cohstruct East & West Abutment of Bridge 18A
S26ANS12	Construct East Abutment (RE Wall part 1) & Bearing (Bridge 18A)		100%	36 28-Mar-11 A	14-May-11 A	Construct East Abutment (RE Wall part 1) & Bearing (Bridge 18A)
S26ANS14	Construction West Abutment (RE Wall part 1) & Bearing (Bridge 18A)		100%	36 08-Jul-11 A	19-Aug-11 A	Construction West Abutment (RE Wall part 1) & Bearing (Bridge
S26ANS15	Construction East RE Wall (part 2)		100%	50 19-Aug-11 A	26-Oct-12 A	Construction East RE Wall (part 2
S26ANS16	Construction West RE Wall (part 2)		100%	50 19-Aug-11 A	27-Oct-12 A	Construction West RE Wall (part 2
S26ANS18	Bridge 18A Decking and Watermain Diversion		100%	162 19-Jul-11 A	24-Jan-12 A	Bridge 18A Decking and Watermain Diversion
S26ANS60	Erecting Temporary Bridge Support		100%	48 24-Jun-11 A	16-Jul-11 A	📮 Erecting Temporary Bridge Support
S26ANS70	Construction of Deck		100%	60 27-Oct-11 A	07-Jan-12 A	Construction of Deck
S26ANS80	Construct remaining RE wall (East & West) (incl. VO 21, VO38 and VO79)		100%	40 15-Dec-11 A	29-Apr-13 A	Construct remaining
S26ANS82	Drainage, Utilities & Watermain Installation (incl.VO 53:Concrete Plinths for PCCW Cable Ducts & '		100%	50 28-Dec-12 A	15-Jun-13 A	Drainage, Utilities
S26ANS90	Road Surfacing		100%	10 07-May-13 A	19-Jun-13 A	Roạơ Surfaċing
S26ANS92	TTA Stage 1		100%	0 22-Jun-13 A		I ♦ TTA Stage 1
Roadwork	s, Drainage & Utilities					
S26ANS42			100%	25 20-Feb-13 A	30-Jul-13 A	Diversion of w
	of Existing Bridge 18				_	
S26ANS30	Demolition of Existing Bridge 18		100%	30 24-Jun-13 A	30-Jul-13 A	Demolition of B
Site Area S	SA27					
PHSA2720	Possession of SA27		100%	0 26-Mar-10 A		♦ Possession of SA27
SA270000	Site Area SA27 Works Period	-15	97.51%	1187 26-Mar-10 A		
SA270010	Site Area SA27 Works Completion	-15	0%	0	25-Feb-14	◆
SA270020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	-13	97.65%	959 26-Mar-10 A	25-Feb-14	
SA270030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-13	97.65%	959 26-Mar-10 A	25-Feb-14	
South Bou	und					
Constructi	on 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

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		Float	Complete	Duration		1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q4 Q1 Q3 Q3 Q3 Q3 </th
S27S100	1 Sheet Pile & Excavation		100%	32 28-Dec-10 A	07-Feb-11 A	Sheet Pile;& Excavation
S27S100	2 Construction of Structure W65A		100%	50 11-Apr-11 A	13-Aug-11 A	Construction of Structure W65A
S27S101	2 Backfilling behind W65A and drainage works	-41	85%	40 15-Jul-13 A	11-Feb-14	Baċkfilliń
Retaining	g Wall W65B, (CSD 1)	, 		· · · · · · · · · · · · · · · · · · ·		
S27S104	0 WSD 1220 dia Diversion		100%	36 26-Jul-11 A	17-Dec-12 A	W\$D 1220 dia Diversion
S27S104	1 HyD Lighting relocation		100%	36 26-May-11 A	18-Jun-11 A	Lighting relocation
S27S104	2 Excavate to cut-off level		100%	42 15-Oct-10 A	03-Dec-10 A	Excavate to cut-off level
S27S104	3 COD: CLP overhead cable		100%	75 15-Jan-11 A	11-Apr-11 A	COD: CLP overhead cable
S27S104	4 Relocaltion of Existing Electric Poles, CLP		100%	24 15-Feb-11 A	11-Apr-11 A	Relocation of Existing Electric Poles, CLP
S27S106	0 Capping/Walling for W65B		100%	42 06-Apr-11 A	20-Aug-11 A	Capping/Walling for W65B
S27S107	0 Backfilling for W65A & B		100%	75 10-Sep-11 A	21-Jul-12 A	Backfilling for W65A & B
S27S109			100%	30 17-Dec-12 A		COD: DAN:273- revised thrust:box:
S27S1110	D Backfilling behind W65B and drainage works	-41	85%	40 15-Jul-13 A	11-Feb-14	Baċkfillih
	g Wall W66/67 (CSD 2) & W71					
S27S110			100%	45 02-Oct-10 A	19-Mar-11 A	₩¢6 & ₩67 (C\$D 2)
S27S110			100%	30 02-Oct-10 A	01-Nov-10 A	;Base Slab (₩66);
S27S110			100%	30 02-Nov-10 A		
						Wall Stem (W66)
S27S110			100%	30 08-Nov-10 A		Base Slab (W67)
S27S1113			100%	24 28-Feb-11 A		□ Wall Stem (W67)
S27S1115			100%	61 27-Jun-11 A	15-Oct-11 A	Backfill for W66&67
S27S120			100%	110 02-Jun-10 A	12-Oct-10 A	Retaining:Wall W7;1 (Bay1 - Bay5)
S27S121	0 Retaining Wall W71 : Base Slab		100%	55 02-Jun-10 A		Retaining Wall W71 : Base Slab
S27S122	0 Retaining Wall W71 : Wall Stem		100%	55 07-Aug-10 A	12-Oct-10 A	Retaihing Wall W71 : Wall Stem
S27S123	0 Backfill for W71		100%	50 27-Jun-11 A	24-Aug-11 A	Backfill for W71
Slopewo	rks					
S27S0000	Site Clearance/Access Rd		100%	130 27-Mar-10 A	03-Sep-10 A	Site Clearance/Access Rd
S27S0001	Site Clearance (Stage 1)		100%	40 27-Mar-10 A	18-May-10 A	Sité Clearance (Stage 1)
S27S0002	Site Clearance (Stage 2)		100%	40 19-Jun-10 A	05-Aug-10 A	Site Clearance (Stage 2)
S27S0004	Access Rd (Stage 1)		100%	40 30-Apr-10 A	18-Jun-10 A	Access Rd (Stage 1)
S27S0005	Access Rd (Stage 2)		100%	40 20-Jul-10 A	03-Sep-10 A	Access Rd (Stage 2)
S27S5000	Slopeworks Cut(S34)		100%	46 28-Dec-10 A	23-Feb-11 A	Slopeworks Cut(S34)
S27S5100	Slopeworks Cut(S42), Fill(S43)		100%	75 28-Dec-10 A	29-Mar-11 A	Slopeworks Cut(\$42); Fill(\$43)
S27S5101	Slopeworks Cut(S42)		100%	60 28-Dec-10 A	11-Mar-11 A	Slopeworks Cut(S42)
S27S5102			100%	60 26-Oct-11 A	06-Jan-12 A	Slopeworks Fill(S43)
S27S5110			100%	0 02-Feb-11 A) Slopeworks Cut(\$37)
S27S5111	Slopeworks Cut(S37) - Stage 1, +40mPD		100%	62 18-Nov-10 A		Slopewarks Cut(\$37) - Stage 1, +40mPD
S27S5112			100%	62 30-Jan-12 A		Slopeworks Cut(S37) + Stage 2, +33.8mPD
S27S5120			100%	96 13-Apr-12 A	·	Slopeworks Fill(S38)(Including removal of existi
S27S5120			100%	24 13-Apr-12 A		Slopeworks Fill(S38) : Removal of existing retaining w
S27S5121			100%	24 13-Api-12 A 24 26-May-12 A	-	Slopeworks Fill(\$38) - Stage 1, +32mPD
S27S5122 S27S5123					11-Jul-12 A	□ Slopeworks Fill(\$38);- Stage 2, +34mPD
			100%			
S27S5124			100%	24 11-Jul-12 A	21-Aug-12 A	Slopeworks Fill(S38) -: Stage:3; for ination:level
S27S5130			100%	138 19-Jun-10 A		Slópeworks Cut(S39)
S27S5131			100%	46 19-Jun-10 A		Slopeworks Cut(S39) - Stage 1, +37mPD
S27S5132			100%	46 13-Aug-10 A		Slopeworks Cut(S39) - Stage 2.,+35mPD
S27S5133			100%	46 28-Dec-10 A		Slopeworks Cut(S39) - Stage 3, formation level
S27S5150	Slope Reinstatement Works (S42)	-31	97%	40 06-Sep-13 A	28-Jan-14	Slope Rei
Landscap	ping					

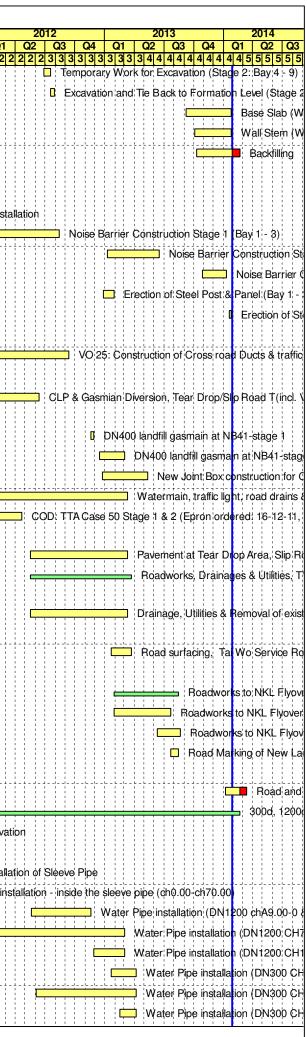
	Activity blome	.	Asticle		Einish	2010 2011 2012 2013 20
ivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 20 21 Q2 Q3 Q4 Q1 Q2 Q3 Q3 Q4 Q4 <thq4< th=""> Q4 <</thq4<>
S27S6010	Landscaping	-41	0%	40 11-Feb-14	29-Mar-14	
Roadworks	s, Drainage & Utilities					
S27S4000	Roadworks, Drainages & Utilities - Stage 1 (CH 3900 - 4740)	-13	93.7%	357 13-Apr-12 A	25-Feb-14	
S27S4004	Utilities - Stage 1 (W66 & W67)		100%	60 13-Apr-12 A	19-Apr-12 A	□ Utiliti¢s - Stage 1 (W66 & W67)
S27S4006	Road and Drainages Works - Stage 1		100%	60 11-May-12 A	31-Jul-12 A	Road and Draimages Works- Stage
S27S4010	Road Surface - Stage 1		100%	50 28-Jul-12 A	11-Dec-12A	Road Surface - Stage 1
S27S4012	Roadmark and Lane Shifting - Stage 1		100%	30 12-Dec-12 A	27-Dec-12 A	Roadmark and Lane Shifting - S
S27S4018	Removal of existing paving - Stage 2 (Remaining CH4500 - 4740)		100%	25 27-Aug-13 A	12-Oct-13 A	——————————————————————————————————————
S27S4035	Road and Drainage Works for Slow Lane - Stage 2 (incl. VO 55: Provision of drainage at Retaining Wall W71 & Bridge B18A)	-18	65%	30 06-Oct-13 A	11-Feb-14	Bo
S27S4055	Road Construction and Remaining Works (along CH4500 - 4740)	-13	75%	30 27-Aug-13 A	25-Feb-14	
Constructi	ion of Bridge 15A					
	ry and Enabling Works					
S26AS205	Site Clearance		100%	102 01-Jun-10 A	30-Sep-10 A	Site Clearance
S26AS210	Hual Road		100%	102 01-Jun-10 A	· ·	Hual Road
S26AS215	11KV Diversion, CLP		100%	102 01-Jun-10 A	· · ·	11/KV Diversion, CLP
S26AS225	2 nos. Existing fresh water mains diversion		100%	36 26-Jan-11 A	· ·	2; nos; Existing fresh water mains diversion
S26AS235	Existing tel cable diversion, PCCW		100%	36 26-Jan-11 A		Existing tel cable diversion, PCCW
S26AS245	HyD/Lighting		100%	60 26-Jan-11 A	09-Apr-11 A	HyD/Lighting
	fure and Pier Construction		10070			
	tment, P1 to P5					
S26AS220	Piling - South Abutmentt, P1 to P5 (incl. VO29: revised piling details)		100%	335 02-Jul-10 A	16-Aug-11 A	Piling:- South Abutmentt, P1 to P5 (incl. VO29: revised piling;details)
S26AS230	Excavation & Cap-South Abutment, P1 to P5 (incl. VO25 revised pilling details)		100%	173 07-Feb-11 A		Excavation & Cap-South Abutment, P1 to P5 (incl. VO6: Bridge 15/
					· · · · · · · · · · · · · · · · · · ·	
S26AS240	Pier & backfill, South Abutment, P1 to P5		100%	112 13-Jun-11 A	20-001-11 A	Pier & backfill, South Abutrhent, P1 to P5
South Abut			1000/	71 00 14 10 4	07 Esh 11 A	
			100%		07-Feb-11 A	Piling - South Abutment
S26AS780	Cap & Backfill - South Abutment		100%	37 07-Feb-11 A		Cap & Backfill - South Abutment
S26AS790	South Abutment		100%	21 13-Jun-11 A		South Abutment
S26AS800	COD: 15ASA Wingwall		100%	14 13-Jun-11 A	14-Jul-11 A	COD: 15ASA Wingwall
P1						
S26AS610	Piling - P1		100%	66 18-Jan-11 A		Piling - P1
S26AS620	Cap & Backfill - P1		100%	37 26-May-11 A		Cap & Backfill - P1
S26AS630	Pier - P1		100%	36 11-Jul-11 A	22-Sep-11 A	——————————————————————————————————————
P2						
S26AS640	Piling - P2		100%	66 26-Apr-11 A		🟳 Pilinģ - P2
S26AS650	Cap & Backfill - P2		100%	37 09-Jun-11 A		Cap & Backfill - P2
S26AS660	Pier - P2		100%	36 26-Aug-11 A	22-Oct-11 A	Pier + P2
P3						
S26AS670	Piling - P3		100%	66 28-Dec-10 A	01-Feb-11 A	🗀 i Piling + P3
S26AS680	Cap & Backfill - P3		100%	37 26-Mar-11 A	14-May-11 A	Gap & Backfill - P3
S26AS700	Pier - P3		100%	36 09-May-11 A	21-Jun-11 A	Pier - P3
P4						
S26AS548	Piling - P4		100%	63 09-Feb-11 A	26-Mar-11 A	Piling -: P4
S26AS550	Cap & Backfill - P4		100%	46 07-Apr-11 A	16-May-11 A	🗖 Cap & Backfill- P4
S26AS560	Pier - P4		100%	36 27-Jun-11 A	08-Aug-11 A	——————————————————————————————————————
P5					-	
S26AS570	Piling - P5		100%			

ity ID	Activity Name To	tal Activity %	Original	Start	Finish			2010			_		011				20		
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S26AS580	Cap & Backfill - P5	100%	36	04-Aug-11 A	16-Sep-11 A			1-1-1	· [-[<u>, , , ,</u>	· · · ·	<u></u>				Backfil			
S26AS590	Pier - P5	100%	36	18-Nov-11 A	29-Feb-12 A											P	'ier - F	25	
P6																1 1 1 1 1 1 1 1 1			
S26AS222	Piling-P6 Stage 1 (6 no.)	100%	20	26-Nov-11 A	19-Dec-11 A										F	Piling-F	P6 Ste	age 1	(6 no.)
S26AS226	Piling-P6 Stage 2 (Remain, 9 no.)	100%	30	18-May-12 A	26-May-12 A												0 F	Piling-I	P6 Stage 2
S26AS232	Cap & Backfill - P6	100%	36	05-Oct-12 A	09-Nov-12 A														🗖 Cap
S26AS242	Pier-P6	100%	12	20-Nov-12 A	13-Dec-12 A														🗖 Pie
North Abut	ment																		
S26AS224	Piling-North Abutment, Stage 1 (11no.)	100%	36	07-Oct-11 A	17-Nov-11 A] Pilii	ng-No	orth Ak	outme	nt, Stage
S26AS228	Piling-North Abutment, Stage 2 (Remain, 16 no.)	100%	60	11-May-12 A	16-Jul-12 A] Pilii	ng-North /
S26AS234	Excavation & Cap-North Abutment	100%	30	08-Aug-12A	18-Dec-12 A														E)
S26AS236	Abutment	100%		24-Dec-12 A															
S26AS244	Backfilling	100%			15-May-13 A														
	nd Finishing																		JL
S26AS250	Bridge Deck (7 spans) (Bearing, Drainage & MJ included) (incl. VO 44: Revised Drainage	100%	314	26-Nov-11 A	28-Mar-13 A														
020/10200	Arrangement for Bridge 15A Deck)	10070	014	201100 1171	20 101														
S26AS251	Bridge Deck - Pier 1 to South Abutment	100%	75	26-Nov-11 A	26-May-12 A														Deck - Pie
S26AS252	Bridge Deck - Pier 2 to Pier 1	100%			29-Aug-12 A														Bridge De
S26AS252	Bridge Deck - Pier 3 to Pier 2	100%			06-Nov-12 A														Bridge De
S26AS253																	· · · · · · · · · · · · · · · · · · ·		
	Falsework dismantling of deck - Pier 3 to Pier 2 Didue Duck - Dive 4 to Dive 2	100%			22-Feb-13 A														
S26AS255	Bridge Deck - Pier 4 to Pier 3	100%		-	22-Dec-12 A														B
S26AS256	Falsework dismantling of deck - Pier 4 to Pier 3	100%			03-May-13 A														
S26AS257	Bridge Deck - Pier 5 to Pier 4	100%		27-Aug-12 A															
S26AS258	Falsework dismantling of deck - Pier 5 to Pier 4	100%			30-May-13 A														
S26AS259	Falsework Erection of deck - Pier 6 to Pier 5	100%			23-Feb-13 A														
S26AS260	Bridge Deck - Pier 6 to Pier 5	100%	75	29-Dec-12 A	19-Apr-13 A														
S26AS261	Falsework dismantling of deck - Pier 6 to Pier 5	100%		06-May-13 A															
S26AS262	Falsework Erection of deck - North Abutment to Pier 6	100%			04-Feb-13 A														
S26AS263	Bridge Deck - North Abutment to Pier 6	100%	50	14-Jan-13 A	28-Mar-13 A														
S26AS264	Falsework dismantling of deck - North Abutment to Pier 6	100%	18	13-May-13 A	14-Jun-13 A														
S26AS269	Parapet (icl, precast concrete skin)	100%	50	06-Dec-12 A	08-Jun-13 A														
S26AS270	Noise Barrier for Bridge 15A	100%	25	27-Mar-13 A	12-Jun-13 A														
S26AS272	Surfacing	100%	10	10-May-13 A	20-Jun-13 A														
S26AS275	Lighting	100%	7	04-May-13 A	07-Jun-13 A														
S26AS280	Handover Inspection of Bridge 15A	100%	3	20-Jun-13 A	22-Jun-13 A				- + - +							+ - + - + -	+ - + - +		
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														
HRW0031	Ready For Pre-Handover Retaining Wall W65A, W65B, W66, W67, W71	3 0%	7	27-Jan-14	06-Feb-14														
Section 4																			
	2000																		
Site Area S		1000(0.000									
PHSA2820	Possession of SA28 (Day0)	100%		26-Feb-10 A	00.4	 	Pos	Sessio	on of	SA28	(Day	<i>I</i>)							
SA280000	Site Area SA28 Works Period	62 92.64%		26-Feb-10 A														· · · · · · · · · · · · · · · · · · ·	
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%		26-Feb-10 A						- + - + - +							· + - + - +		
SA280040	Overall Utilities Diversion (Detail shall refer to supplementary information)	50 92.73%	983	26-Feb-10 A	26-Apr-14		1 1		1 1		1 1		1 1 1	: :	1 1 1			: :	
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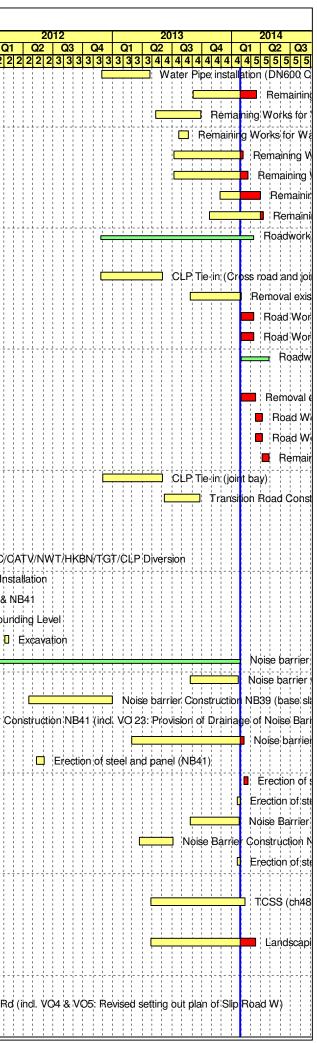
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Activity ID	Activity Name Tota		Origina		Finish	
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S28N0000	Site Clearance/Access Rd	100%	239	26-Feb-10 A	19-Feb-11 A	Site Clearance/Access; Rd
S28N0010	Site Clearance (ch 4830-5250)	100%	75	5 26-Feb-10 A	05-Jun-10 A	Site Clearance (ch 4830-5250)
S28N0020	Site Clearance (ch 5250-5700)	100%	75	5 17-Apr-10 A	23-Jul-10 A	Site Clearance (ch 5250-5700)
S28N0110	Access Rd (ch 4830-5250)	100%	75	5 30-Jun-10 A	04-Oct-10 A	Access Rd (ch 4830-5250)
S28N0120	Access Rd (ch 5250-5700)	100%	75	5 09-Sep-10 A	19-Feb-11 A	Access Rd (ch 5250-5700)
Slopework	S S					
S28N5000	Slopeworks Fill S44	100%	36	28-Dec-11 A	11-Feb-12A	Slopeworks Fill S44
S28N5010	Slopeworks Fill S45 -2	1 0%	40) 27-Jan-14	17-Mar-14	Slopew
Constructio	on of Retaining Wall					
Retaining V	Vall W72B (CSD 1)					
S28N2010	Prepare Piling Platform for W72B	100%	13	3 14-Sep-10 A	29-Sep-10 A	D Prepare Piling Platform for W72B
S28N2020	Pre-drilling for W72B	100%	13	3 14-Sep-10 A	29-Sep-10 A	Pre-drilling:for W72B
S28N2040	Piling works	100%	24	01-Mar-11 A	21-Mar-11 A	□ Pilling works
S28N2050	Capping/Walling for W72B	100%	50) 26-May-11 A	25-Jul-11 A	Capping/Walling for W72B
S28N2051	Pile Cap for W72B	100%	30) 26-May-11 A	09-Jun-11 A	□ Pile Cap for W72B
S28N2052	Walling for W72B	100%		5 21-Jun-11 A		Walling;for W72B
S28N2060	Backfilling	100%		3 26-Sep-11 A		Backfilling
	Vall W73 (CSD 1)					
S28N2071	Excavation & ELS	100%	24	14-Sep-10 A	13-Oct-10 A	Excavation & ELS
S28N2072	W73 wall Structure (7 bays)	100%		5 01-Mar-11 A		₩73 wall Structure (7 bays)
S28N2073	Base Slab W73	100%		01-Mar-11 A	· · ·	Base Slab W73
S28N2074	Wall Stem & W73	100%		25-Mar-11 A		□ Wall Stem & W73
S28N2080	Backfill	100%		5 09-Jul-11 A	24-Dec-11 A	Backfill
	Vall for Accom. Underpass Extn. (CSD 1)	10078				
S28N230	Pre-drilling for Accommodation Underpass Extension	100%	20) 30-Jun-10 A		Pre-drilling for Accommodation Underpass Extension
S28N230	Prepare Piling Platform for Accom.Underpass Extension	100%		30-Jun-10 A	<u> </u>	Prepare Piling Platform for Accom.Underpass Extension
S28N250	Piling works	100%		5 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 AU
S28N270	Capping (AUE)	100%		5 26-Mar-11 A		Cápping (AUE)
S28N280	Walling (AUE)	100%		5 26-May-11 A		₩alijnġ (AÜĒ)
S28N290	Backfilling	100%	62	2 26-Sep-11 A	17-Dec-11 A	Backfilling
Retaining V				1		
S28N2105	Liasion with location resident for slip road diversion	100%		5 26-Feb-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	Pre-drilling for Piles	100%		5 21-Oct-10 A	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%			01-Feb-13 A	Falsework removal beteew NLK dec
S28N2135	Piling work for W74 (Stage 1: Bay1 - 3)	100%		5 21-Feb-13 A	22-Apr-13 A	Piling work for W74 (Stage 1: F
S28N2140	Temporary Work for Excavation (Stage 1: Bay1 - 3)	100%	20) 27-Jun-12 A	31-Jul-12 A	Temporary;Work;for Excavation (Stage 1; Bay1 -
S28N2145	Excavation and Tie Back to Formation Level (Stage 1: Bay1 - 3)	100%	18	8 18-Jul-12 A	31-Jul-12 A	L Excavation and Tie Back to Formation Level (Stag
S28N2150	Pile Head Trimming and bearing plate (Stage 1: Bay1 - 3)	100%	14	27-May-13 A	11-Jun-13 A	Pile:Head:Trimming and be
S28N2155	Retaining Wall Construction (Stage 1: Bay1 - 3)	100%	45	5 11-Jun-13 A	07-Oct-13 A	Retaining Wall Cor
S28N2156	Base Slab (W74) (Bay 1- 3)	100%	30) 25-May-13 A	27-Jul-13 A	Base Slab (W74) (Bay 1
S28N2158	Wall Stem (W74) (Bay 1- 3)	100%	30) 23-Jul-13 A	07-Oct-13 A	└────────────────────────────────────
S28N2160	Retaining Wall Construction (Stage 2: Bay 4 - 9) -1	8 91.34%	202	2 23-Apr-13 A	19-Feb-14	Retaining
S28N2161	Falsework removal bewteen NLK deck P8 - P9	100%	26	6 23-Apr-13 A	20-Jul-13 A	—— Falsework removal bewt

tivity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011
		Float	Complete	Duration	Start		Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
S28N2164	Temporary Work for Excavation (Stage 2: Bay 4 - 9)		100%	18	27-Jun-12 A	17-Jul-12 A	1234567891111111111112222222
S28N2165	Excavation and Tie Back to Formation Level (Stage 2: Bay 4 - 9)		100%		18-Jul-12 A	31-Jul-12 A	——
S28N2167	Base Slab (W74) (Bay 4 - 9)		100%		07-Sep-13 A		—
S28N2168	Wall Stem (W74) (Bay 4 - 9)		100%		05-Oct-13 A	25-Jan-14 A	—
S28N2190	Backfilling	-18	30%		12-Oct-13 A	19-Feb-14	
	er NB43 (AD5)	10	0078	25	12 00 10 4	131 00 14	
S28N2500	Utilities Diversion		100%	197	01-Jun-10 A	10-Feb-11 A	Utilities Diversion
S28N2510	Temporary Noise Barrier Installation		100%		16-Nov-10 A		Temporary/Noise Barrier Insta
S28N2520	Noise Barrier Construction Stage 1 (Bay 1 - 3)		100%		03-Feb-12A		
S28N2525	Noise Barrier Construction Stage 2 (Bay 4 - 9)		100%		09-Jan-13 A	18-Jun-13 A	
S28N2526	Noise Barrier Construction Stage 3 remaining (Bay 4 - 7) Wall		100%		28-Oct-13 A	09-Jan-14 A	
S28N2530	Erection of Steel Post & Panel (Bay 1 - 3)		100%		29-Dec-12 A		
S28N2531	Erection of Steel Post & Panel (Bay 4 - 9)		100%	10	20-Jan-14 A	25-Jan-14 A	
	onstruction Works, Roadworks, Drainage & Utilities						
S28N3890	VO 25: Construction of Cross road Ducts & traffic signal Drawpits at proposed crossing point of tai Wo Service Road West		100%	10	27-Apr-11 A	12-Sep-12 A	
S28N3900	CLP & Gasmian Diversion, Tear Drop/Slip Road T(incl. VO 19: Protection for existing HKCG HP600mm Gasmain at Slip Road T)		100%	75	15-Oct-11 A	12-Jun-12 A	
	HP600mm Gasmain at Silp Road T)						
S28N3902	DN400 landfill gasmain at NB41-stage 1		100%	25	21-Nov-12 A	28-Nov-12 A	
S28N3904	DN400 landfill gasmain at NB41-stage 2		100%	25	17-Dec-12 A	02-Mar-13 A	
S28N3906	New Joint Box construction for CLP 132kV		100%	50	24-Dec-12 A	14-May-13 A	
S28N3910	Watermain, traffic light, road drains & gully, Tear Drop/Slip Road T (incl. VO52)		100%	75	15-Aug-11 A	11-Mar-13 A	
S28N3920	COD: TTA Case 50 Stage 1 & 2 (Epron ordered: 16-12-11, expected delivery date: 23-1-13, actual		100%	24	16-Dec-11 A	21-Apr-12 A	
	delivery date: 12-3-12)						
S28N3970	Pavement at Tear Drop Area, Slip Road T & Traffic diversion		100%	30	18-May-12 A	11-Mar-13 A	
S28N4002	Roadworks, Drainages & Utilities, TWSRW Road from NB41-bay 6 to NB42-bay12 (incl. VO42 &		100%	150	18-May-12 A	23-Mar-13 A	
	VO43)						
S28N4004	Drainage, Utilities & Removal of existing paving (incl.TTA & VO 77 Provision of cable duct for power		100%	75	18-May-12 A	11-Mar-13 A	
	supply)						
S28N4006	Road surfacing, Tai Wo Service Road West from NB41-bay 6 to NB42-bay12 (incl. VO 81		100%	60	22-Jan-13 A	23-Mar-13 A	
	maintenance acess for NB41 & NB42)						
S28N4010	Roadworks to NKL Flyover and Ramps		100%	175	30-Jan-13 A	16-Aug-13 A	
S28N4012	Roadworks to NKL Flyover and Ramp - South Ramp to SA		100%	50	30-Jan-13 A	24-Jul-13 A	
S28N4014	Roadworks to NKL Flyover and Ramp - North Ramp to NA		100%	20	13-Jun-13 A	22-Aug-13 A	
S28N4020	Road Marking of New Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge		100%	10	23-Jul-13 A	16-Aug-13 A	
	to Modified Lam Kam Bridge					-	
S28N4024	Road and Drainage Works (along W74 and NB38)	-18	5%	20	08-Jan-14 A	13-Mar-14	
S28N4030	300d, 1200d watermain (chA9.00-ch182.00) & Firemains	-14	95.03%	362	06-Aug-10 A	19-Feb-14	
S28N4040	Cable Detection and Trial Pit Excavation		100%		06-Aug-10 A	19-Sep-10 A	Cable Detection and Trial Pit Excavat
S28N4050	Sheet Pile & ELS		100%		20-Sep-10 A	· .	Sheet Pile & ELS
S28N4060	TBM Boring and Installation of Sleeve Pipe		100%		16-Feb-11 A		TBM Boring and Installa
S28N4070	Water Pipe installation - inside the sleeve pipe (ch0.00-ch70.00)		100%		24-Mar-11 A		Water Pipe ins
S28N4070	Water Pipe installation (DN1200 chA9.00-0 & DN300 CHA7.3 - 0)		100%		19-May-12 A		
S28N4090	Water Pipe installation (DN1200 CH70-165 & CH210-530 approx)		100%		28-Dec-11 A		
S28N4090	Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) Water Pipe installation (DN1200 CH185 -210 cross road)				28-Dec-11 A		
			100%				
S28N4220	Water Pipe installation (DN300 CH70 -166)		100%		21-Jan-13 A	09-Apr-13 A	
S28N4230	Water Pipe installation (DN300 CH166 -247)		100%		04-Jun-12 A	09-Apr-13 A	
S28N4240	Water Pipe installation (DN300 CHBB5 - 49)		100%	75	15-Feb-13 A	09-Apr-13 A	

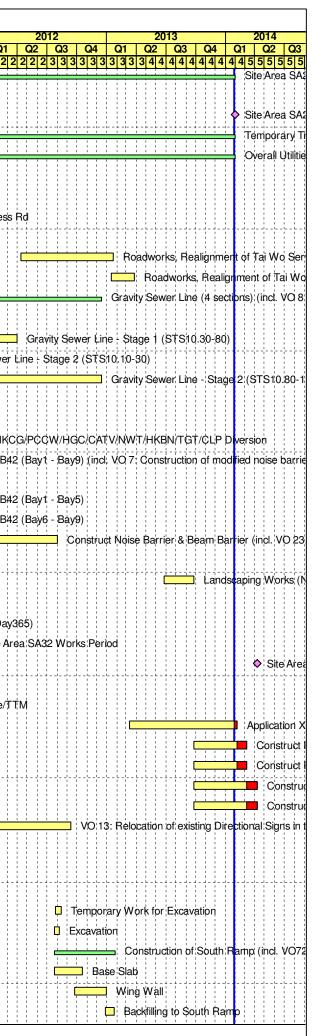


IVIT	ty ID	Activity Name	Total	Activity %	Original	Start	Finish	21		201 2			24	01		011	Q4	Q1
			Float	Complete	Duration			12	34	2	67	89	x4 1 1	Q1 1 1 1		Q3	2 2 2	2222
Γ	S28N4250	Water Pipe installation (DN600 CHB0-84 & CHC0-76 Cross Road)		100%	75	28-Nov-12 A	26-Apr-13 A											
	S28N4260	Remaining Works for Water Pipe installation (DN1200 CH183 - 227 cross road)	-49	45%	75	06-Sep-13 A	19-Mar-14											
	S28N4270	Remaining Works for Water Pipe installation (DN1200 CH280 - 330)		100%	75	14-May-13 A	30-Sep-13 A											
	S28N4280	Remaining Works for Water Pipe installation (DN1200 CH515 - 529)		100%	30	23-Jul-13 A	23-Aug-13 A											
	S28N4290	Remaining Works for Water Pipe installation (DN600 CHB2.8 - 30.2(Revised 51))	-14	88%	60	08-Jul-13 A	07-Feb-14											
	S28N4300	Remaining Works for Water Pipe installation (DN600 CHC10.4 - 28.4(Revised 50))	-14	70%	60	08-Jul-13 A	19-Feb-14											
	S28N4310	Remaining Works for Water Pipe installation (DN300 CH183 - 227 cross road)	-49	30%	75	26-Nov-13 A	01-Apr-14											
	S28N4320	Remaining Works for Water Pipe installation (DN300 CHBB0 - 11(Revised 59))	-38	90%	45	26-Oct-13 A	07-Apr-14											
	S28N4330	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											
	S28N4340	CLP Tie-in (Cross road and joint bay)		100%	75	26-Nov-12 A	04-Jun-13 A											
╞	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											
F	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											
	S28N4370	Road Works and Road Surfacing at Slip Road T (Slow Lane)	-48	0%	30	30-Jan-14	10-Mar-14											
-	S28N4380	Roadworks, Drainages & Utilities at TWSRW Road from NB38 to NB41- bay6 (TTA case 50 stage 9 & 10)	-53	0%	68	30-Jan-14	26-Apr-14											
┝	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											
-	S28N4400	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											
	S28N4410	Road Works and Road Surfacing at Slip Road T (Fast Lane)	-53	0%	18	15-Mar-14	07-Apr-14											
	S28N4420	Remaining Road Works at Slip Road T and TWSRW Road from NB38 to NB41 - bay 6	-53	0%	15	07-Apr-14	26-Apr-14											
	S28N4430	CLP Tie-in (joint bay)		100%		01-Dec-12 A	04-Jun-13 A					- + - +						
	S28N4440	Transition Road Construction Works for TWSRW Road C2/C3 interface		100%		10-Jun-13 A	25-Sep-13 A	_										
- -		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		1				ws	D/DS	D/HK	OG/P0	cw/	IGC/CA
	S28N2302	Temporary Noise Barrier Installation		100%		18-Oct-10 A	26-Dec-10 A							.i.i	1.1.1.	المراجع ال		ier Insta
-	S28N2303	Pre-Drilling for NB39 & NB41		100%		26-Jan-11 A	22-Feb-11 A								1 1 1	1 1 1		39 & NI
	S28N2304	Confirmation of Founding Level		100%		26-Mar-11 A	12-Apr-11 A								1 1 1			f Found
	S28N2310	Excavation		100%		03-Feb-12 A	14-Feb-12 A											
	S28N2314	Noise barrier Construction (NB38 - NB41)	0	100%		26-Apr-11 A	27-Jan-14											
	S28N2314	Noise barrier Construction NB38	0	100%		27-Aug-13 A	22-Jan-14 A					- + - +						
	S28N2318	Noise barrier Construction NB39 (base slab)				19-Apr-12 A	31-Dec-12 A											
	S28N2320	Noise barrier Construction NB41 (incl. VO 23: Provision of Drainage of Noise Barrier 41)		100%		26-Apr-11 A	25-Jun-11 A	; ;							<u> </u>			
			0	100%		•	08-Feb-14	; ;									se pai	rier Co
-	S28N2330 S28N2340	Noise barrier Construction NB39 (Wall) Erection of steel and panel (NB41)	0	100%		27-Feb-13 A 11-May-12 A	05-Jun-12 A											
-		Erection of steel and panel (NB39)	0	100%		10-Feb-14	20-Feb-14											
-	S28N2350		0	100%			20-Feb-14 27-Jan-14 A											
	S28N2355	Erection of steel and panel (NB38)		100%		20-Jan-14 A												
ŀ	S28N2370	Noise Barrier Construction NB40 (Bay1 to Bay3)		100%		27-Aug-13 A	24-Jan-14 A											
	S28N2380	Noise Barrier Construction NB40 (Bay4 to Bay5)		100%		25-Mar-13 A	06-Jul-13 A											
1	S28N2385	Erection of steel and panel (NB40)		100%	10	20-Jan-14 A	27-Jan-14 A	; ; ;	¦		+	- + - +						
		rol & Survelance System				00 A (5.5												
	S28N4800	TCSS (ch4820-ch5640) & (Gantry G29) (incl. VO73 Revised Sign Gantry Details)	7	70%	40	29-Apr-13 A	12-Feb-14											
	Landscapin																	
	S28N6000	Landscaping Works (ch4820 - 5640)	-21	20%	50	27-Apr-13 A	17-Mar-14											
	South Bou																	
	Preliminarie																	
	S28S0000	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			1		1 1	1 1	<mark>≓</mark> ¦S	ite Cle	earand	e/Acce	ess Rd (
4	S28S0010	Site Clearance		100%	75	23-Jun-10 A	18-Sep-10 A			1		_¦\$	itė Ć	Cleara	nce	1 1 1		



ity ID	Activity Name	Total Activi		Original Start	Finish	2010 2011 2012 2013 20
		Float Comp	plete	Duration		21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q1 Q2 Q1 Q2 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1
S28S0020	Access Rd	1	100%	75 27-Jul-10 A	01-Feb-11 A	Access Rd
Roadworks	s, Drainage & Utilities					
S28S4010	Roadworks, Drainages & Utilities (CH4820 - Ch5700)(incl. VO20: Revised Fire mains alignment plan)	6 97.	7.25%	454 11-May-12 A	13-Feb-14	Ro
S28S4012	Removal of existing paving - Stage 1 (CH5300 - 5700 & Slip Road W)	1	100%	75 11-May-12 A	08-Jun-13 A	Removal of existing p
S28S4016	Utilities - Stage 1	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)	1	100%	75 11-May-12 A	25-Jun-13 A	Road and Drainage
S28S4021	Road Surface and Roadmark - Stage 1 (Slow Lane)	1	100%	30 18-Mar-13 A	18-Jul-13 A	Road Surface and
S28S4025	Removal of existing paving - Stage 2 (CH5300 - 5700 & Slip Road W)	1	100%	30 19-Jul-13 A	02-Aug-13 A	[] Removal of existi
S28S4027	Utilities - Stage 2 (CH5300 - 5700) (incl. VO 77 Provision of cable duct for power supply)	1	100%	30 03-Aug-13 A	12-Aug-13 A	D Utilities - Stage 2
S28S4029	Road and Drainages Works - Stage 2	1	100%	30 03-Aug-13 A	12-Aug-13 A	1 Road and Drain
S28S4031	Road Surface and Roadmark - Stage 2 (Fast Lane)	6	85%	30 13-Aug-13 A	04-Feb-14	
S28S4085	Remaining Road Works at Slip Road W	6	80%	40 27-Aug-13 A	13-Feb-14	Re
Noise Barri	iers 44 & Road Barriers				1	
Noise Barri						
S28S2000	Excavation for NB44	1	100%	219 25-Aug-10 A	24-May-11 A	Excavation for NB44
S28S2010	Excavation for NB44 (Bay1& Bay2)	1	100%	44 25-Aug-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		Excavation for NB44 (Bay5 & Bay6)
S28S2040	Excavation for NB44 (Bay7 & Bay8)		100%	36 26-Aug-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		Noise Barrier Footing Construction for NB44 (incl. VO 46: N
S28S2070	Noise Barrier Footing Construction for NB44 (Bay 1)	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	·	Noise Barrier Footing Construction for NB44 (Bay 2)
S28S2090	Noise Barrier Footing Construction for NB44 (Bay 2)		100%	32 26-May-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		□ Noise Barrier Footing Construction for NB44 (Bay 4)
S28S2110	Noise Barrier Footing Construction for NB44 (Bay 5)		100%	24 26-Sep-11 A	-	Noise Barrier Fboting 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)
S28S2120	Noise Barrier Footing Construction for NB44 (Bay 7)			24 23-Nov-11 A		Noise Barrier Footing Construction for NB44 (Bay 7)
			100%	24 23-Nov-11 A		
S28S2140	Noise Barrier Footing Construction for NB44 (Bay 8)		100%			Divise Barrier Footing Construction for NB44 (Bay 8)
S28S2150	Noise Barrier Footing Construction for NB44 (Bay 9)		100%	23 23-Nov-11 A		Dise Barrier Footing Construction for NB44 (Bay 9)
S28S2160	Noise Barrier Footing Construction for NB44 (Bay 10)		100%	18 23-Nov-11 A		Noise Barrier Footing Construction for NB44 (Bay 10)
S28S2170	Remaining NB44 installation of panel	1	100%	7 27-Aug-13 A	26-Sep-13 A	🗖 Rémaihing N
	trol & Survelance System					
S28S4800	TCSS		31.5%	130 28-Feb-13 A		
S28S4810	TCSS - Stage 1 (ch4820 - ch5520)		80%	24 28-Feb-13 A		
S28S4850	TCSS - Stage 5 (ch5520 - ch5640), (Gantry G56) (incl. VO73 Revised Sign Gantry Details)	-5	20%	24 27-Nov-13 A	26-Feb-14	
	on of Existing Bridge					
S28S1200	Modification of Lam Kam Rd. Flyover		9.23%	119 26-Aug-13 A		M
S28S1240	Diversion for modification kerb and road reconstruction (N/B)		95%	43 26-Aug-13 A		Dive
S28S1250	Removal central barrier and road construction	-21	85%	40 26-Sep-13 A		Rei
S28S1260	Diversion for modification kerb and road reconstruction (S/B)	-21	45%	30 02-Dec-13 A	27-Feb-14	Di
Road Cons	struction and Road Resufacing					
S28S4960	Road Construction and Resurfacing S/B for SA28	6	85%	60 26-Sep-13 A	14-Feb-14	Ro
Site Area S	SA29					
PHSA2920	Possession of SA29 (Day270)	1	100%	0 27-Jul-10 A		♦ Possession of SA29 (Day270)

ity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	21	2010) Q3	04	Q	$1 \perp 0$	2011 2 03	Q4	Q1
		Fioal	Complete					56	78	91	111			2 2 2 2 2 2	2
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		¢							
SA290010	Site Area SA29 Works Completion	148	0%	0		30-Jan-14									
SA290020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	118	99.54%	764	27-Jul-10 A	30-Jan-14		 	+-+	- + - +					+-+
SA290030	Overall Utilities Diversion (Detail shall refer to supplementary information)	118	99.54%	764	27-Jul-10 A	30-Jan-14		ľ	<u> </u>		<u> </u>	<u> </u>		· · · · ·	
North Bou	nd	J													
Preliminario								: ; ;							
S29N0000	Site Clearance/Access Rd		100%	60	26-Jan-11 A	09-Apr-11 A						<u> </u>	Site Clear	rance/Acc	, jese
Roadworks	, Drainage & Utilities					· ·		 							
S29N4010	Roadworks, Realignment of Tai Wo Service Rd. West (NB42)		100%	58	13-Apr-12 A	21-Jan-13 A									
S29N4020	Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)		100%	38	15-Jan-13 A	28-Mar-13 A									
S29N4100	Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)		100%		03-Jan-11 A	15-Dec-12 A	_				-				
S29N4110	Gravity Sewer Line - Stage 1 (STS10.30-80)		100%	60	03-Jan-11 A	31-Mar-12 A									<u></u>
S29N4120	Gravity Sewer Line - Stage 2 (STS10.10-30)		100%		01-Apr-11 A	30-Jul-11 A		 	• - + - +	- + - +	- {- {-			iravity Sev	wer
S29N4130	Gravity Sewer Line - Stage 2 (STS10.80-105)		100%		28-May-11 A	15-Dec-12 A									
	ers & Road Barriers		100 /8	00		10 Dec 12 A									
S29N2000	er NB42 on Mini-Piles (AD) WSD/DSD/HKCG/PCCW/HGC/CATV/NWT/HKBN/TGT/CLP Diversion		100%	70	11-Apr-11 A	11-Jul-11 A								SD/DSD/I	ц. Ц.
S29N2000	Footing for NB42 (Bay1 - Bay9) (incl. VO 7: Construction of modified noise barrier foundation for NB42)		100%		06-Dec-10 A	05-Jul-11 A			· - + - +				4-4-4-4-	oting for N	.i.i.
S29N2030	Footing for NB42 (Bay1 - Bay5)		100%	60	06-Dec-10 A	05-Jul-11 A				1			For	oting for N	NB4
S29N2040	Footing for NB42 (Bay6 - Bay9)		100%	50	06-Dec-10 A	05-Jul-11 A				1	1 1	1 1 1 1 1 1	📕 For	oting for N	VB4
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									÷
Landscapin	lg	I			1										
S29N6000	Landscaping Works (Near NB43)		100%	50	27-Jun-13 A	26-Sep-13 A		 		-+-+				·	+-+-
Site Area S	A32														
PHSA3210	Possession of SA32 (Day365)		100%	0	25-Feb-11 A							Pas	session	of SA32 (I	Day
SA320000	Site Area SA32 Works Period		100%	265	26-Feb-11 A	17-Nov-11 A								Site	1.1.
SA320010	Site Area SA32 Works Completion	-46	0%	0		07-Apr-14		: ; ;							
General	•				<u> </u>	· ·		 							
S32G0000	Site Clearance/TTM		100%	72	26-Mar-11 A	25-Jun-11 A							Site	Clearanc	ce/T
S32G4005	Application XP for Construct Roadside Fully Variable Message Sign	-38	90%		11-Mar-13 A	05-Feb-14									
S32G4015	Construct Roadside Fully Variable Message Sign (RFVMS3)(include duct, footing and column)	-38	15%		26-Sep-13 A	07-Mar-14									
S32G4025	Construct Roadside Fully Variable Message Sign (RFVMS2)(include duct, footing and column)	-38	15%		26-Sep-13 A	07-Mar-14								1 1 1 1 1 1 1 1 1 1 1 1	
S32G4035	Construct Roadside Fully Variable Message Sign (RFVMS1)(include duct, footing and column)	-38	15%		26-Sep-13 A	07-Apr-14		 	· - + - +						1 - 1 1 - 1
S32G4045	Construct Roadside Fully Variable Message Sign (TP04)(include duct, footing and column)	-38	15%		26-Sep-13 A	07-Apr-14									
S32G4060	VO 13: Relocation of existing Directional Signs in the Vicinity of Lam Kam Road Interchange		100%		27-Apr-11 A	11-Sep-12 A	; ;						<u> </u>	<u> </u>	<u> </u>
			100 /0	10											
	on of New Lam Kam Road														
	ire and Pier Construction							 							
South Ram			1		1										
S28N1213	Temporary Work for Excavation		100%		27-Jul-12 A	13-Aug-12 A									
S28N1214	Excavation		100%		23-Jul-12 A	08-Aug-12 A									
S28N1215	Construction of South Ramp (incl. VO72: revised North & South Ramps Retaining Wall)		100%		23-Jul-12 A	26-Jan-13 A									
S28N1216	Base Slab		100%	60	23-Jul-12 A	19-Oct-12 A					· · ·			· · · · ·	
S28N1217	Wing Wall		100%	75	24-Sep-12 A	31-Dec-12 A									
S28N1227	Backfilling to South Ramp		100%	40	28-Dec-12 A	25-Jan-13 A						111			1 i



	39					
Activity ID	Activity Name	Total Acti	ivity %	Original Start	Finish	2010 2011 2012 2013 2014 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03
		Float Con	mplete	Duration		Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q4<
Pier NLKP1						
S28N1200	Gas Main Diversion		100%	45 28-Dec-11 A		Gás Main Diversión
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	26-Nov-12 A	Capland Pier (incl. VO29: re <mark>v</mark> ised piling
S28N1236	Pile Cap		100%	25 03-Oct-12 A	11-Oct-12 A	D Pile Cap
S28N1238	Pier		100%	45 15-Oct-12 A	26-Nov-12 A	Pier
South Abut	ment					
S28N1220	Gas Main Diversion		100%	24 28-Dec-11 A	30-Jan-12 A	Gas'Maih Diversión
S28N1230	Piling Work (24shp)		100%	60 15-Feb-12 A	28-Jul-12 A	Piling Work (24shp)
S28N1240	Cap and Abutment (incl. VO29: revised piling details)		100%	115 15-Oct-12 A	25-Jan-13 A	Cap and Abutment (incl. VO29) rev
S28N1250	Pile Cap		100%	40 15-Oct-12 A	10-Nov-12 A	D Pile;Cap
S28N1260	Abutment		100%	50 12-Nov-12 A	15-Dec-12 A	Abutment
S28N1270	Backfilling to South Abutment		100%	40 28-Dec-12 A	25-Jan-13 A	🗖 Backfilling to South Abutment
Pier NLKP2		· · · · ·		J		
S28N1254	Piling Work (28shp)		100%	57 20-Sep-10 A	11-Nov-10 A	Piling Work (28shp)
S28N1259	Pile Cap Construction (incl. VO29: revised piling details)		100%	46 06-Dec-10 A	10-Feb-11 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	} }	I I				
S28N1271	Pre-drilling for Piles		100%	11 11-Sep-10 A	24-Sep-10 A	D Pre-drilling for Piles
S28N1272	Confirmation of Founding Level		100%	21 12-Sep-10 A	15-Oct-10 A	💭 Confirmation of Founding Level
S28N1273	Piling Work (24shp)		100%	68 20-Sep-10 A	16-Nov-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	Excavation to Formation Level
S28N1276	Pile Head Trimming and bearing plate		100%	11 20-Dec-10 A		0' Pile Head Trimming and bearing plate
S28N1277	Pile Cap Construction (incl. VO29: revised piling details)		100%	24 20-Dec-10 A		Pile Cap Construction (incl. VO29: revised piling details)
S28N1278	Backfilling		100%	30 26-Feb-11 A		Backfilling
S28N1279	Pier Construction		100%	61 02-Apr-11 A	· ·	Pier Construction
Pier NLKP4			100 /0			
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		Pre-drilling for Piles
S28N1283	Confirmation of Founding Level		100%	22 16-Aug-10 A		Confirmation of Founding Level
S28N1284	Piling Work (16shp)		100%	63 01-Sep-10 A		 Piling Work (16shp)
S28N1285	Temporary Shoring System		100%	· · ·	23-Oct-10 A	II Temporary Shoring System
S28N1286	Excavation to Formation Level		100%	7 25-Oct-10 A	28-Oct-10 A	F Excavation to Formation Level
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		Pile Cap Construction (incl; VO29: revised piling details)
S28N1289	Backfilling		100%	30 20-Dec-10 A		
S28N1290	Pier Construction		100%	71 02-Feb-11 A	26-Mar-11 A	Pier Construction
Pier NLKP5						
S28N1301	Gas main Diversion		100%	120 13-May-10 A		Gasimain Diversion
S28N1302	Pre-drilling for Piles		100%	7 01-Sep-10 A	· · ·	Pre-drilling for Piles
S28N1303	Confirmation of Founding Level		100%	14 13-Sep-10 A		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	19-Oct-10 A	Piling Work (16shp) (incl. VO001: Revised Layout of Piles at New Lam Kam Road Flyover Pie
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		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: révised piling details)

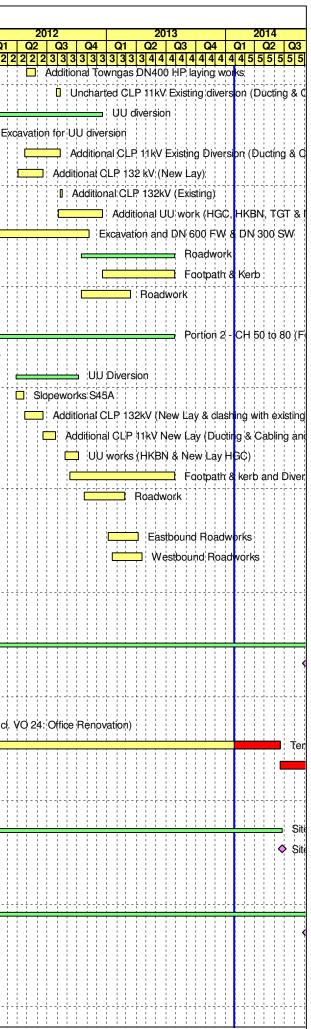
			•		
tivity ID	Activity Name	Total Activity % Float Complete	Original Start Duration	Finish	2010 2011 2012 2013 201 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02
					D1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q4<
S28N1309	Backfilling	100%	30 13-Dec-10 A		0. Backfilling
S28N1310	Pier Construction	100%	74 28-Dec-10 A	28-Mar-11 A	Pier Construction
Pier NLKP					
S28N1321	Gas main Diversion	100%	150 13-May-10 A	10-Nov-10 A	Gas 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	Excavation 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				
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	· · ·	Pré-drilling for Piles
S28N1344	Confirmation of Founding Level	100%	14 13-Sep-10 A	·	Confirmation of Founding Level
S28N1345	Piling Work (16shp)	100%		28-Feb-11 A	□ Piling Work (16shp)
S28N1346	Temporary Shoring System	100%	44 08-Mar-11 A		Temporary Shoring System
S28N1347	Excavation to Formation Level	100%	7 08-Mar-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 details)
S28N1350	Backfilling	100%	30 26-Sep-11 A		
S28N1350	Pier Construction	100%	72 03-Oct-11 A		
		100 %	72 05-00-11 A	24-Dec-11 A	
		100%	45 10 May 10 A	10 10 10 4	Realignment of Existing slip.road
S28N1361	Realignment of Existing slip road	100%	45 19-May-10 A		
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	· · ·	□ Prè-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	25-May-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%	7 15-Oct-11 A	22-Oct-11 A	D' Pile Head Trimming and bearing plate
S28N1370	Pile Cap Construction (incl. VO29: revised piling details)	100%		02-Nov-11 A	Pile Cap Construction (incl. VO29: revised piling details)
S28N1371	Backfilling	100%	24 26-Nov-11 A	23-Dec-11 A	🗀: Backfilling
S28N1372	Pier Construction	100%	72 21-Dec-11 A	31-Jan-12 A	Pier:Construction
Pier NLKP	9				
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%	45 14-Jul-10 A	03-Sep-10 A	Existing Water main Diversion
S28N1383	Pre-drilling for Piles	100%	14 04-Sep-10 A	20-Sep-10 A	Pre-dritting for Piles
S28N1384	Confirmation of Founding Level	100%	14 21-Sep-10 A	08-Oct-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	21-Oct-11 A	COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Main
S28N1386	Piling Work (24shp)	100%	75 22-Oct-11 A	19-Dec-11 A	Piling Work (24shp)
S28N1387	Temporary Shoring System	100%	30 01-Feb-12A	19-Apr-12 A	Temporary Shoring System
S28N1388	Excavation to Formation Level	100%	36 19-Apr-12 A	· · ·	Excavation to Formation Level
S28N1389	Pile Head Trimming and bearing plate	100%	12 27-Jun-12 A		Pile Head Trimming and bearing plate

tivity ID	Activity Name	Total Ac	ctivity %	Original Start	Finish	2010 2011 2012 2013 2
			complete	Duration		21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1
S28N1390	Pile Cap Construction (incl. VO29: revised piling details)		100%	12 12-Jul-12 A	01-Aug-12 A	□ Pile Cap Construction (incl. VO29: revised
S28N1391	Backfilling		100%	12 28-Jul-12 A	14-Sep-12A	Backfilling
S28N1392	Pier Construction		100%	40 15-Sep-12 A	18-Oct-12 A	Pier Construction
Pier NLKP	10		I	J	1	
S28N1401	132 kv Cable Diversion		100%	75 26-Oct-11 A	27-Jan-12 A	132 kv Cable Diversion
S28N1402	Existing Water main Diversion		100%	50 23-Apr-12 A	16-Aug-12 A	Existing Water main Diversion
S28N1405	Piling Work (17shp)		100%	60 23-Jul-12 A	19-Sep-12 A	Piling Work (17shp)
S28N1409	Pile Cap construction (incl. VO29: revised piling details)		100%	25 03-Oct-12 A	01-Dec-12 A	Pile Cap construction (incl. VO29:
S28N1411	Pier Construction		100%	25 11-Dec-12 A	29-Dec-12 A	Piệr Cộnstruction
North Abut	ment					
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 Work (24shp)
S28N1428	Pile Cap Construction (incl. VO29: revised piling details)		100%	30 26-Nov-12 A	02-Jan-13 A	Pile Cap Construction (indi. VQ
S28N1430	Abutment		100%	30 05-Jan-13 A	24-Jan-13 A	Abutment
S28N1580	Backfilling		100%	20 20-May-13 A	31-May-13 A	☐ Bạckfilling
North Ram	P					
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 Cl
S28N1435	Construction of North Ramp (incl. VO72: revised North & South Ramps Retaining Wall)		100%	148 06-Nov-12 A	08-May-13 A	Construction of North
S28N1436	Temporary Work for Excavation		100%	24 06-Nov-12 A		Temporary Work for Excavati
S28N1437	Excavation		100%	22 22-Nov-12 A		
S28N1438	Base Slab		100%	14 31-Dec-12 A		Base Slab
S28N1439	Wing Wall		100%	48 01-Feb-13 A		Wing Wall
S28N1449	Backfilling		100%	20 06-May-13 A		Backfilling
	nd Finishing					
S28N1440	Decking (Bearing, Drainage & MJ included) (incl. VO 40: NLK - Revised Drainage Arrangement for		100%	559 27-Jun-11 A	14-May-13 A	Decking (Bearing, Dra
02011110	Bridge Deck)		100,0			
S28N1450	NLK Deck; P4 - P5		100%	75 27-Jun-11 A	23-Sep-11 A	
S28N1460	NLK Deck; P3 - P4		100%	75 26-Oct-11 A	· · ·	NLK Deck; P3 - P4
S28N1470	NLK Deck; P2 - P3		100%	72 11-May-12 A		NLK Deck; P2 - P3
S28N1475	Falsework erection of deck: P1 - P2		100%	50 29-Sep-12 A		Falsework erection of deck: P1-
S28N1480	NLK Deck; P1 - P2		100%	62 06-Nov-12 A		NLK Deck;P1 - P2
S28N1484	Falsework dismantling of deck: P1 - P2		100%	18 21-Mar-13 A		Falsework dismantling
S28N1485	Falsework erection of deck: South Abutment - P1		100%	25 10-Dec-12 A	· ·	Falsework erection of deck: S
S28N1490	NLK Deck; South Abutment - P1		100%	60 03-Jan-13 A		NLK Deck; South Abutme
S28N1490	Falsework dismantling of deck: South Abutment - P1		100 %	18 15-Apr-13 A		Falsework dismantling
S28N1500	NLK Deck; P5 - P6		100%	75 26-Nov-11 A		NLK Deck; P5 + P6
S28N1500	NLK Deck; P5 - P6 NLK Deck; P6 - P7		100%	75 26-NOV-11 A 75 16-Jun-12 A		NLK Deck; P5 - P6
S28N1510 S28N1520	NLK Deck; P6 - P7		100%	75 16-Jun-12 A 75 03-Sep-12 A		NLK Deck, P0 - P7
S28N1520 S28N1524						
	Falsework dismantling of deck: P7 - P8		100%	26 07-Jan-13 A		Falsework dismantling of dec
S28N1525	Falsework erection of deck: P8 - P9		100%	18 29-Oct-12 A		Falsework erection of deck: F
S28N1530	NLK Deck; P8 - P9		100%	75 20-Dec-12 A		
S28N1534	Falsework dismantling of deck: P8 - P9		100%	26 23-Apr-13 A		Falsework disma
S28N1535	Falsework erection of deck: P9 - P10		100%	34 10-Dec-12 A		Falsework erection of deck: P
S28N1540	NLK Deck; P9 - P10		100%	65 18-Jan-13 A		NL'K'Deck; P9 - P10
S28N1544	Falsework dismantling of deck: P9 - P10		100%	18 20-May-13 A		Falsew
S28N1545	Falsework erection of deck: P10 - North Abutment		100%	18 17-Jan-13 A		Ealsework erection of deck:
S28N1550	NLK Deck; P10 - North Abutment		100%	55 21-Feb-13 A	14-May-13 A	NLK Deck; P10 - Nort
S28N1554				18 20-May-13 A		🗖 Falsework dismantii

ivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
		Tioat			ļ	12345678911111111111222222
S28N1570	Parapet (P3 - P6)		100%	45 03-Dec-12 A	18-Apr-13 A	
S28N1660	Parapet (SA - P3 & P6 - NA)		100%		26-Jun-13 A	
S28N1680	Noise Barriers, Surfacing and Road Lighting		100%	30 10-May-13 A	22-Aug-13 A	
S28N1690	Inspection Handover of NLK Bridge		100%	-	24-Aug-13 A	
S28N1700	TTA Stage 9		100%	0 24-Aug-13 A		
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	
S28N1715	Road Construction Works (N/B) C2/C3 interface	-22	80%	30 26-Aug-13 A	05-Feb-14	
S28N1720	Diversion for removing central barriers Stage 2	-22	45%	18 17-Sep-13 A	17-Feb-14	
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	
S28N1735	Road Construction Works (S/B) C2/C3 interface	-22	0%	10 17-Feb-14	28-Feb-14	
Ready Fo	r 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	
Section 5			· · · · ·			
Site Area						
PHSA3120	Possession of SA31 (Day0)		100%	0 26-Feb-10 A		♦ Possession of \$A31 (Day0)
SA310000	Site Area SA31 Works Period (incl. VO42, VO52, VO59 & VO65)	142	98.98%	884 26-Feb-10 A	04-Feb-14	
SA310010	Site Area SA31 Works Completion	142	0%	0	04-Feb-14	
South Bo	und					
Preliminar	ies					
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/Access
Roadwork	s, Drainage & Utilities					
Portion 3						
S31S5000	Portion 3 - New Footpath (CH0 to 175)		100%	165 11-Jun-11 A	15-Jan-13 A	
S31S5010	Formation level of footpath		100%	45 04-Jan-12 A	28-Feb-12 A	
S31S5020	Preparation for footpath & Cycle Track Diversion		100%	7 11-Jun-11 A	18-Jun-11 A	Preparation for f
S31S5025	Unchartted Towngas DN400 HP		100%	178 29-May-12 A	05-Jan-13 A	
S31S5030	Additional UU works (CLP 132kV & 11kv)		100%	17 10-Oct-12 A	16-Jan-13 A	
S31S5035	Roadworks		100%	215 07-Sep-12A	16-Mar-13 A	
S31S5040	Footpath Sub-base, kerb and concrete surface		100%	17 07-Sep-12A	30-May-13 A	——
S31S5050	CLP Overhead wooden Pole		100%	12 26-Dec-12 A		——
S31S5060	New cycle track formation level		100%	15 28-Nov-12 A	06-Apr-13 A	——
S31S5070	New cycle track (Bitonminous Layer)		100%	10 29-Jan-13 A	25-Apr-13 A	——
S31S5070	New Kerb		100 %	7 07-Jan-13 A	23-Apr-13 A	
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	——
S31S5100	New public lightings poles		100%	15 17-Apr-13 A	20-Apr-13 A	
S31S5100			100%		· ·	
	Reconstruction carriageway	110			20-Apr-13 A	
S31S5120	Traffic Lights	116	0%	5 27-Jan-14	04-Feb-14	
S31S5130	Roadworks (Other area not affected by towngas)		100%	60 21-May-12 A	16-Mar-13 A	
S31S5132	Roadworks (Remaining area affected by towngas)		100%	19 26-Dec-12 A	15-Jan-13 A	
Portion 1		1 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	
S31S4630	Site Clearance		100%	7 20-Jun-11 A	27-Jun-11 A	l Site Clearance
S31S4640	Excavation road formation level		100%	50 28-Jun-11 A	25-Aug-11 A	Excavation
S31S4648	Unchartted Towngas / CLP		100%	65 16-Jan-12 A	10-Aug-12 A	
S31S4650	Trial Pit for Towngas DN400 HP		100%	14 16-Jan-12 A	04-Feb-12 A	
S31S4660	Additional Towngas DN400 HP preparation and materials deliverary		100%	50 06-Feb-12 A	27-Apr-12 A	

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		Float	Complete	Duration		21 Q2	Q3	Q4 (9 1 1 1	Q1 1111	Q2	Q3	Q4 (2 2 2 2	21 2 נ
S31S4670	Additional Towngas DN400 HP laying works		100%	12 28-Apr-12 A	26-May-12 A					***			
S31S4675	Uncharted CLP 11kV Existing diversion (Ducting & Cabling, Tie - in and uncharted cables)		100%	65 30-Jul-12 A	10-Aug-12 A								
S31S4678	UU diversion		100%	67 15-Dec-11 A	18-Dec-12 A							-	-
S31S4679	Excavation for UU diversion		100%	20 15-Dec-11 A	10-Jan-12 A								Ex
S31S4680	Additional CLP 11kV Existing Diversion (Ducting & Cabling, Tie-in and uncharted cables)		100%	10 25-Apr-12 A	10-Aug-12 A								
S31S4690	Additional CLP 132 kV (New Lay)		100%	17 02-Apr-12 A	18-Jun-12 A				1 1 1 1 1 1 1 1 1				
S31S4700	Additional CLP 132kV (Existing)		100%	22 11-Aug-12 A	16-Aug-12 A								
S31S4710	Additional UU work (HGC, HKBN, TGT & NWT)		100%	35 06-Aug-12 A	18-Dec-12 A								
S31S4720	Excavation and DN 600 FW & DN 300 SW		100%	68 28-Jun-11 A	09-Nov-12 A					ļ			=
S31S4725	Roadwork		100%	0 15-Oct-12 A	29-Jul-13 A								
S31S4730	Footpath & Kerb		100%	30 20-Dec-12 A	29-Jul-13 A								
S31S4740	Roadwork		100%	30 15-Oct-12 A	16-Mar-13 A			· - T - A - A - A · · · · · · · · · · · · · ·					
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								
S31S4760	Site clearance		100%	7 20-Jun-11 A	27-Jun-11 A					I	Site c	learance	,
S31S4765	UU Diversion		100%	82 28-Mar-12 A	05-Oct-12 A								
S31S4766	Slopeworks S45A		100%	18 28-Mar-12 A	21-Apr-12 A			, - , - , - , - , - ,					-+
S31S4770	Additional CLP 132kV (New Lay & clashing with existing)		100%	45 25-Apr-12 A	18-Jun-12 A								
S31S4780	Additional CLP 11kV New Lay (Ducting & Cabling and Tie-in)		100%	46 19-Jun-12 A	27-Jul-12 A								
S31S4790	UU works (HKBN & New Lay HGC)		100%	12 27-Aug-12 A	05-Oct-12 A								
S31S4800	Footpath & kerb and Diversion of footpath		100%	15 10-Sep-12A	29-Jul-13 A								
S31S4810	Roadwork		100%	21 25-Oct-12 A	25-Feb-13 A			, - , - , - , - , - ,					- +
Roadworks	s, Drainage & Utilities												
S31S4820	Eastbound Roadworks		100%	50 07-Jan-13 A	08-Apr-13 A								
S31S4830	Westbound Roadworks		100%	50 17-Jan-13 A	20-Apr-13 A								
Section 7													
											•		
Site Area S		- i - i	100%	0 06 Eab 10 A				¥ C A /4 - / (
PHSA4110	Possession of SA41 (Day0) Site Area SA41 Works Period	74	100%	0 26-Feb-10 A	05 Car 14		ession o	f \$A41 ([Jayu)				
SA410000		-71	85.96%	1581 26-Feb-10 A	05-Sep-14								-
SA410010	Site Area SA41 Works Completion	-71	0%	0	05-Sep-14								
	v Site Office				10.11			· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 2 2 2 2 2 2				<u>.</u> .
S41G0000	Site Clearance / TTM		100%	60 26-Feb-10 A	12-May-10 A			arance /	i i i .	-i i i		0"	
S41G9000	Construction of ER & Contractor's Office (incl. VO 24: Office Renovation)		100%	60 26-Feb-10 A	12-May-10 A		onstru	ction of E	н & (Jontra	ictor's	Uttice (ir	Cļ.
S41G9100	Temp Warehouse, Fabrication & Equip Yard	-78	90%	1419 13-May-10 A	17-Jun-14								-
S41G9120	Dismantle of ER & Contractor's Office	-60	0%	68 17-Jun-14	05-Sep-14								
	A42 (Core Storage & Works Area)												
PHSA4210	Possession of SA42 (Day0)		100%	0 26-Feb-10 A		Poss	ession o	f SA42 (I	Day0)				
SA410040	Site Area SA42 Works Period	0	90.51%	1581 26-Feb-10 A	25-Jun-14								-
SA420010	Site Area SA42 Works Completion	0	0%	0	25-Jun-14*								
Site Area S	SA43												
PHSA4310	Possession of SA43 (Day90)		100%	0 04-May-10 A		•	Possessi	ion of \$A	43 (D	ų į			
SA410020	Site Area SA43 Works Period	-72	85.13%	1492 04-May-10 A	05-Sep-14								- 1
SA410030	Site Area SA43 Works Completion	-72	0%	0	05-Sep-14*			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
Mulching H	Production Area												
S41G010	Site Clearance		100%	59 27-May-10 A	05-Aug-10 A		Si	ite Cleara	ance				
S41G020	Site Clearance (Mulching Office Area)		100%	45 27-May-10 A	20-Jul-10 A	i i i		e Clearar	i i i	Лµl¢hir	ıg Offic	æ Area)	
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Activity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011 2012 2013 2014
		Float	Complete	Duration			21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 13 13 13 13 12 Q3 12 Q3 12 Q3 12 Q3 13 12 Q3 13 12 Q3 12 Q3 12 Q3 13 12 Q3 13 12 Q3 12 Q3 13 12 Q3 12 Q3 13 12 Q3 13 12 Q3 13 12 Q3 12 Q3 12 Q3 13 12 Q3 13 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 13 12 Q3 13 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 13 12 Q3 12 Q3 13 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 13 12 Q3 12 Q3 13 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12 Q3 12
S41G040	Construction of Mulching Production Yard		100%	60	06-Aug-10 A	18-Oct-10 A	Construction of Mulching Production 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 Waréh
S41G060	Mulching Production Phase 1 (45m3)		100%	63	13-Sep-10 A	09-Oct-10 A	📮 Mulching Production Phase 1 (45m3)
S41G070	Mulching Production Phase 2 (45m3) (incl. VO16, VO 18)		100%	63	21-Dec-10 A	21-Feb-11 A	Mulching Production Phase 2 (45m3) (incl. VO16, VO 18)
S41G080	Mulching Production Phase 3 (45m3)		100%	63	20-Feb-11 A	24-Apr-11 A	Mulching Production Phase 3 (45m3)
S41G090	Mulching Production Phase 4 (45m3)		100%	63	24-Apr-11 A	26-Jun-11 A	Mulching Production Phase 4 (45m3)
S41G100	Mulching Production Phase 5 (45m3)		100%	63	27-Jun-11 A	28-Aug-11 A	Mulohing Production Phase 5 (45m3)
S41G110	Mulching Production Phase 6 (45m3)		100%	63	29-Aug-11 A	30-Oct-11 A	Mulching Production Phase 6 (45m3)
S41G120	Mulching Production Phase 7 (45m3)		100%			01-Jan-12 A	Mulching Production Phase 7 (45m3)
S41G130	Mulching Production Phase 8 (45m3)		100%	63	02-Jan-12 A	31-Mar-12 A	Mulching Production Phase 8 (45m3)
S41G140	Mulching Production Phase 9 (45m3)		100%		02-Apr-12 A	31-Dec-12 A	Muldhing Production Phase 9 (45m3)
S41G260	Dismantle of Mulching Production Yard	-61	0%		17-Jun-14	05-Sep-14	
S41G270	Dismantle of Mulching Production Yard : Removing Mulching Office	-61	0%		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							
Establish	ment Works						
S21G8000	SA21 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15	
Section 9							
Establish	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							
Establish	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	2						
Establish	ment Works						
S30AG800	SA30A Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15	
S30G8000	SA30 Establishment Works	-214	0%	365	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	
Section 14							
S21G7000	Tentative Start Date for SA21 Route Maintenance Works		1000/	^	17 Son 10 A		♥ Tentative Start Date for \$A21 Route Maintenance Works;
S21G7000 S22G7000	Tentative Start Date for SA21 Route Maintenance Works Tentative Start Date for SA22 Route Maintenance Works		100% 100%		17-Sep-10 A 26-Feb-10 A		Tentative Start Date for SA21 Houte Maintenance Works Tentative Start Date for SA22 Route Maintenance Works
S22G7000	Tentative Start Date for SA22 Route Maintenance Works		100%		25-Aug-10 A		Tentative Start Date for SA22 Route Maintenance Works Tentative Start Date for SA23 Route Maintenance Works
S23G7000 S24G7000	Tentative Start Date for SA23 Route Maintenance Works		100%		25-Aug-10 A 25-Aug-10 A		Tentative Start Date for SA23 moute Maintenance Works Tentative Start Date for SA24 Route Maintenance Works
02407000			100 /6	0	20 Aug-10 A		

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ivity ID	Activity Name	Total Float	Activity % Complete	Original Duration		Finish	Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
00505000							1234567891111111111111222222
S25G7000	Tentative Start Date for SA25 Route Maintenance Works		100%		20-Oct-10 A		◆ Tentative Start Date for SA25 Rou
S26AG700	Tentative Start Date for SA26A Route Maintenance Works		100%		26-Feb-10 A		Tentative Start Date for SA26A Route Maintenance
S26G7000	Tentative Start Date for SA26 Route Maintenance Works		100%		26-Feb-10 A		Tentative Start Date for SA26 Route Maintenance
S27G7000	Tentative Start Date for SA27 Route Maintenance Works		100%		27-May-10 A		Tentative Start Date for SA27 Route Maintei
S28G7000	Tentative Start Date for SA28 Route Maintenance Works		100%		26-Feb-10 A		Tentative Start Date for SA28 Route Maintenance
S29G7000	Tentative Start Date for SA29 Route Maintenance Works		100%	0	20-Oct-10 A		✓ Tentative Start Date for \$A29 Rot
S30AG700	Tentative Start Date for SA30A Route Maintenance Works		100%	0	25-Aug-10 A		Tentative Start Date for SA30A Route
S30G7000	Tentative Start Date for SA30 Route Maintenance Works		100%	0	26-Feb-10 A		Tentative Start Date for SA30 Route Maintenance
S31G7000	Tentative Start Date for SA31 Route Maintenance Works		100%	0	26-Feb-10 A		Tentative Start Date for SA31 Route Maintenance
Section 17	(Subject to Excision and Instruct by Engineer within 819 days	5)					
General							
SC150025	Validity Period		100%	819	25-Feb-10 A	31-Aug-13 A	
SC150030	Latest Date for the Engineer to Issue El		100%	0		31-Aug-13 A	—
	SA28 & SA30						
PHSA2840	Possession of SA28 & SA30	i i	100%	0	26-Feb-10 A		♦ Possession of SA28 & SA30
	Site Area SA28 Works Period					01 Aug 10 A	
SA280005			100%		24-May-12 A	31-Aug-13 A	
SA280020	Site Area SA28 & SA30 Works Completion		100%	0		31-Aug-13 A	
All Area							
Preliminari							
S28N1000	Site Clearance/TTM/Access Rd/Utility Diversion		100%	45	24-May-12 A	26-Sep-13 A	
Site Area S	SA30A						
PHSA30A5	Possession of SA30A	ĺ	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	
SA30A020	Site Area SA30A Works Completion		100%	0)	31-Aug-13 A	—
North Bou	ind	I					
Preliminari							
S30AN100	Site Clearance/TTM/Access Rd/Utility Diversion		100%	75	14-May-12 A	23-May-12 A	
Boadworks	s, Drainage & Utilities						
S30AN415	Section 17 subject to Excision Works Instruction date (Trunk Sewer Line)		100%	245	23-May-12 A	20-Sep-13 A	
S30AN420	Issung of latest design drawing		100%		24-May-12 A	05-Sep-12 A	
S30AN430	Procurement & delivery of Trunk Sewer pipe (Stage 1)		100%		06-Sep-12A	17-Sep-12 A	— []]]]]]]]]]]]]]]]]]
S30AN440	Design clarification period		100%		06-Sep-12A	31-Jul-13 A	
S30AN450	Procurement & delivery of Trunk Sewer pipe (Stage 2)		100%		01-Nov-12 A	31-Jul-13 A	——
S30AN450 S30AN460	Underground Utilities cable detection before ELS works		100%		17-Aug-12 A	24-Aug-12 A	
					-	-	
S30AN470	Gravity Sewer Line STS10_170 to 160 (22m Long)		100%		05-Dec-12 A	06-Feb-13 A	
S30AN480	M/H 170 and M/H160 construction (6m depth)		100%		05-Dec-12 A	23-Jan-13 A	
S30AN490	Pipe laying and concrete surround works		100%		05-Dec-12 A	07-Jan-13 A	
S30AN500	Backfilling (2 Layers + Temp fill)		100%		08-Jan-13 A	06-Feb-13 A	
S30AN510	Gravity Sewer Line STS10_160 to 150 (40m Long)		100%	95	27-Feb-13 A	23-Sep-13 A	
	M/H150 construction (5m depth)		100%	40	27-Feb-13 A	16-Mar-13 A	
S30AN520	Pipe laying and concrete surround works (Stage 1)		100%	25	18-Mar-13 A	30-Apr-13 A	
S30AN520 S30AN530	ripe laying and concrete surround works (chage r)		100%	8	30-Apr-13 A	10-May-13 A	
	Construction of Temporary Access for Villager						
S30AN530			100%	21	13-May-13 A	14-Sep-13 A	
S30AN530 S30AN540	Construction of Temporary Access for Villager		100% 100%		13-May-13 A 27-Jul-13 A	14-Sep-13 A 23-Sep-13 A	—
S30AN530 S30AN540 S30AN550	Construction of Temporary Access for Villager Pipe Laying and concrete works (Stage 2)			8			—
S30AN530 S30AN540 S30AN550 S30AN560	Construction of Temporary Access for Villager Pipe Laying and concrete works (Stage 2) Backfilling (15 Layers)		100%	8 120	27-Jul-13 A	23-Sep-13 A	

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vity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010	2011	2012	2013	2014
		Float	Complete	Duration			Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4 1 1 1 1 1 1 1 1 2 2 2 2 2	Q1 Q2 Q3 Q4		
S30AN590	Backfilling (15 Layers)		100%	20	21-Nov-12 A	03-Jan-13 A				Backfilling (15 Layers	
S30AN600	Gravity Sewer Line STS10_130 to 140 (40m Long)		100%	88	08-Jan-13 A	18-Mar-13 A				Gravity Sewer L	ine \$TS10_130 to
S30AN610	M/H 140 construction (4.5m depth)		100%	40	08-Jan-13 A	19-Jan-13 A				I M/H 140 constructio	n (4.5m depth)
S30AN620	Pipe Laying & concrete Surround works		100%	40	14-Jan-13 A	28-Jan-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pipe Laying & concr	ete Surround wo
S30AN630	Backfilling (12 Layers)		100%	25	01-Mar-13 A	18-Mar-13 A				Backfilling (12 La	ayers)
S30AN640	Gravity Sewer Line STS10_140 to 150 (38m Long)		100%	80	28-Feb-13 A	18-May-13 A				Gravity Sew	ver Line \$TS10_1
S30AN650	Pipe Laying and concrete surround works		100%	50	28-Feb-13 A	18-Mar-13 A				Pipe Laying and	l concrete surroun
S30AN660	Backfilling (15 Layers)		100%	30	22-Mar-13 A	18-May-13 A			+ + + + - + - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Backfilling (15 Layers)
S30AN670	Gravity Sewer Line STS10_120 to 110 (33m Long)		100%	205	03-Aug-12 A	17-Nov-12 A				Gravity Sewer Line STS1	10_1 <mark>2</mark> 0 to 110 (33
S30AN680	M/H 110 construction (2.7m depth)		100%	30	03-Aug-12 A	15-Sep-12A			📫 М/Н	110 construction (2.7m c	jepth)
S30AN690	Pipe laying and concrete surround works		100%	40	06-Oct-12 A	26-Oct-12 A			🗆 P	ipe laying and concrete s	urround works
S30AN700	Backfilling (9 Layers)		100%	20	01-Nov-12 A	17-Nov-12 A				Backfilling (9 Layers)	
S30AN710	Gravity Sewer Line STS10_100 to 105a (56.5m Long)		100%	75	03-Aug-12 A	15-Dec-12 A				Gravity Sewer Line ST	S10_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				M/ H 100), M/ H 105 and M
S30AN730	Pipe Laying and concrete surround works		100%	50	17-Sep-12A	06-Oct-12 A			📮 Pip	be Laying and concrete su	urround works
S30AN740	Construction of temporary access for Villager		100%	30	08-Oct-12 A	22-Oct-12 A			D C	onstruction of temporary	access for Village
S30AN750	Backfilling (5 Layers)		100%	25	24-Oct-12 A	15-Dec-12 A				Backfilling (5 Layers)	
S30AN760	Gravity Sewer Line STS10_105a to 110 and STS10_105 to STS10_105a		100%	8	24-Jun-13 A	13-Aug-13 A			+ + + + + + - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>📛 Gravi</td> <td>ity Sewer Line ST</td>	📛 Gravi	ity Sewer Line ST
S30AN770	Modification of existing DN2200 valve chamber		100%	1	09-Sep-13 A	17-Sep-13 A				0 Mc	dification of existin
S30AN780	Pipe Laying and concrete surround works (2.5m depth)		100%	26	24-Jun-13 A	05-Aug-13 A				🗖 Pipe L	aying and concret
S30AN790	Backfilling (7 Layers)		100%	7	06-Aug-13 A	13-Aug-13 A				I Back	filling (7 Layers)

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.		@
	• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@
	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

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.	1	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

Water Quality - Schedule of Recommended Mitigation Measures

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 landscaping areas. 		V
	Demolition Wastes		
	Segregation of materials to facilitate disposal.		V

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). 	۱. N
Appropriate stockpile management.	V
Planning to reduce over ordering and waste generation.	V
Recycling and re-use of materials where possible (e.g. metal, wood from formwork)	V
 For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 	V
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.	V
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. 	a
Use appropriate and labelled containers.	\ \
 Educate site workers on site cleanliness/waste management procedures. 	N
• If chemical wastes are to be generated, the contractor must register with EPD as a Chemical Waste Producer.	V
 The chemical wastes shall be collected by a licensed chemical waste collector. 	V
Municipal Wastes	
Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	V
Regular, daily collections are required by an approved waste collector.	١

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

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	
 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	V
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.

APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

Appendix D - Summary of Action and Limit Levels

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 1 – Action and Limit Levels for 1-hour TSP

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

Wun Yiu (AM1A)	Operator:	Gary Choi	
15-Mar-14 Next Due Date:		14-May-14	
-53T	Serial No.	10216	
	Ambient Condition		
) 289	Pressure, Pa (mmHg)	767.0	
	-53T	-53T Serial No	-53T Serial No. 10216 Ambient Condition

Orifice Transfer Standard Information						
Serial No:	988	Slope, mc	1.94727	Intercept, bc	0.02332	
Last Calibration Date:	Last Calibration Date: 20-May-13 mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}					
Next Calibration Date: 20-May-14 Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc						

		Calibration of	of TSP Sampler			
		Orfice	HVS Flow Recorder			
Resistance Plate No.	DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)] ^{1/2}		Qstd (m ³ /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	9.0	3.06	1.56	46.0	46.93	
13	6.1	2.52	1.28	36.0	36.72	
10	4.4	2.14	1.09	31.0	31.62	
7	3.5	1.91	0.97	28.0	28.56	
5	2.1	1.48	0.75	22.0	22.44	
By Linear Regre Slope , mw = Correlation Coe	ession of Y on X 	0.9931	Intercept, bw =	-0.3	150	
Slope , mw = Correlation Coe	29.7418 fficient* =	0.9931 heck and recalibrate.	Intercept, bw =	-0.3	150	
Blope , mw = Correlation Coe	29.7418 fficient* = 	theck and recalibrate. Set Point	Intercept, bw = Calculation	-0.3	150	
Blope , mw = Correlation Coe	29.7418 fficient* = 	heck and recalibrate.	-	-0.3	150	
Slope , mw = Correlation Coe If Correlation Co	29.7418 fficient* = pefficient < 0.990, c eld Calibration Cur	theck and recalibrate. Set Point	-	-0.3	150	
Slope , mw = Correlation Coe If Correlation Co	29.7418 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation		150	
Slope , mw = Correlation Coe If Correlation Co	29.7418 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		150	

Remarks:				
QC Reviewer: <u>Y7</u> Le	ung	Signature:	La la	Date: Date: 13-3-19 D:\HVS Calibration Certificate (Existing)\6

Station	Shan Tong New Village (AM2)		Operator:	Gary Choi	
Cal. Date:	15-Mar-14		Next Due Date:	14-May-14	
Equipment No.:	A-001-29T		Serial No.	10202	
			Ambient Condition		
Temperat	ure, Ta (K)	289	Pressure, Pa (mmHg)	767.0	
Temperat		200	(initially)	101.0	

Orifice Transfer Standard Information						
Serial No:	988	Slope, mc	1.94727	Intercept, bc	0.02332	
Last Calibration Date:	Last Calibration Date: 20-May-13 mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}					
Next Calibration Date: 20-May-14 Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc						

		Calibration of	of TSP Sampler		
		Orfice	HVS Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	10.0	3.23	1.64	48.0	48.97
13	7.5	2.79	1.42	42.0	42.84
10	5.6	2.41	1.23	35.0	35.70
7	3.7	1.96	1.00	28.0	28.56
5	2.5	1.61	0.82	24.0	24.48
Slope , mw = Correlation Coe		- 0.9958	Intercept, bw = 	-0.9	966
Slope , mw = Correlation Coe	30.3815 fficient* =	heck and recalibrate.	_	-0.9	966
Slope , mw = Correlation Coe	30.3815 fficient* = pefficient < 0.990, c	heck and recalibrate.	Intercept, bw = Calculation	-0.9	966
Slope , mw = Correlation Coe If Correlation Co From the TSP Fin	30.3815 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	_	-0.9	966
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	30.3815 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate.	_	-0.9	966
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	30.3815 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		966

Remarks:			
QC Reviewer:	XT Lenna	Signature:	Date: 15-3-19
	\checkmark		D:\HVS Calibration Certificate (Existing)\

tation	Riverain Bayside	(AM3)		Operator:	Choi W	ing Ho	_
al. Date:	18-Feb-14			Next Due Date:	18-May-14		_
quipment No.:	A-001-69T	_		Serial No.	71	6	_
			Ambient	Condition			
Temperati	ure, Ta (K)	290	Pressure,	⊃a (mmHg)		762.4	
			Orifice Transfer S	tandard Informatio	n		
Serial No: 988 Slope, mc				1.94727	Interce	ept, bc	0.02332
Last Calibration Date: 20-May		20-May-13	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}				
Next Calibration Date: 20-May-14			Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc				
		•	A 111 (1)	(700.0 1			
		0	Calibration o	of TSP Sampler	HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF	
18	8.9	3.03		1.54	46.0	46.70)
13	7.5	2.78		1.42	43.0	43.66	3
10	5.6		2.40		34.0	34.52	2
7	4.0		2.03	1.03	27.0	27.4	
5	3.0		1.76	0.89	21.0	21.3)

By Linear Regres	sion of Y on X		
Slope , mw =	39.7791		
Correlation Coef	ficient* =	0.9949	

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

Intercept, bw =

From the TSP Field Calibration Curve, take Qstd = 1.30m³/min

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)]^{1/2}

Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)]^{1/2}=

Remarks:		
		· · · · · · · · · · · · · · · · · · ·
QC Reviewer: 47 Sum	Signature:	Date: 22 - 2 - (4

D:\HVS Calibration Certificate (Existing)\6

37.31

-13.8329

Station	168 Shek Kwu Lung Village (AM4		A) Operator:	Gary Choi	_
Cal. Date:	15-Mar-14		Next Due Date:	14-May-14	-
Equipment No.:	A-001-70T	-	Serial No.	10273	-
			Ambient Condition		
Temperature, Ta (K) 289.4		Pressure, Pa (mmHg)	768.3		

Orifice Transfer Standard Information							
Serial No: 988 Slope, mc 1.94727 Intercept, bc 0.02332							
Last Calibration Date:	20-May-13	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}					
Next Calibration Date:	20-May-14	Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc					

		oundration c	of TSP Sampler			
		Orfice		HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	8.8	3.03	1.54	46.0	46.93	
13	7.4	2.78	1.41	42.0	42.85	
10	5.1	2.30	1.17	36.0	36.73	
7	3.2	1.83	0.93	28.0	28.57	
5	2.5	1.61	0.82	23.0	23.47	
Slope , mw = Correlation Coe	31.3458 efficient* =	- 0.9922	Intercept, bw = -	-1.0	021	
Correlation Coe	efficient* =			-1.0	021	
Correlation Coe	efficient* =	0.9922 check and recalibrate.	-	-1.0	021	
Correlation Coe	efficient* =	check and recalibrate.	Calculation	-1.0	021	
Correlation Coe	efficient* = pefficient < 0.990, c	check and recalibrate.	-	-1.0	021	
Correlation Coe *If Correlation Co From the TSP Fi	efficient* = pefficient < 0.990, o ield Calibration Cur	check and recalibrate. Set Point	-	-1.0	021	
Correlation Coe *If Correlation Co From the TSP Fi	efficient* = pefficient < 0.990, o ield Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation		021	
Correlation Coe *If Correlation Co From the TSP Fi	efficient* = pefficient < 0.990, o ield Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation			
Correlation Coe *If Correlation Co From the TSP Fi From the Regres	efficient* = pefficient < 0.990, of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation x [(Pa/760) x (298/1		38.88	
Correlation Coe *If Correlation Co From the TSP Fi From the Regres	efficient* = pefficient < 0.990, of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min "Y" value according to mw x Qstd + bw = IC	Calculation x [(Pa/760) x (298/1			
Correlation Coe *If Correlation Co From the TSP Fi From the Regres	efficient* = pefficient < 0.990, of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min "Y" value according to mw x Qstd + bw = IC	Calculation x [(Pa/760) x (298/1			
Correlation Coe *If Correlation Co From the TSP Fi From the Regres	efficient* = pefficient < 0.990, of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min "Y" value according to mw x Qstd + bw = IC	Calculation x [(Pa/760) x (298/1			

Signature: _

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Date: 15-3-40

D:\HVS Calibration Certificate (Existing)\60



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

Operator Tisch Orifice I.D. 0988 Pa (mm) 751.84 METER ORFICE PLATE VOLUME DIFF DIFF DIFF DIFF OR START STOP VOLUME TIME Hg H20 Run # (m3) (m3) (m3) (min) (mm) (in.) 1 NA NA 1.00 1.3900 3.2 2.00 2 NA NA 1.00 0.9720 6.4 4.00 3 NA NA 1.00 0.8670 7.9 5.00			AIR POLLU	TION MONITORI	NG EQUIPMENT		
Operator Tisch Orifice I.D. 0988 Pa (mm) 751.84 METER ORFICE PLATE VOLUME DIFF DIFF DIFF DIFF OR START STOP VOLUME TIME Hg H20 Run # (m3) (m3) (m3) (min) (mm) (in.) 1 NA NA 1.00 1.3900 3.2 2.00 2 NA NA 1.00 0.9720 6.4 4.00 3 NA NA 1.00 0.8670 7.9 5.00		ORIFICE 7	TRANSFER STA	NDARD CERI	SIFICATION	WORKSHEET	ΓE-5025Α
PLATE OR Run #VOLUME START (m3)VOLUME STOP (m3)DIFF VOLUME (m3)DIFF TIME (min)DIFF Hg (mm)DIFF H2O (in.)1NANA1.001.39003.22.002NANA1.000.97206.44.003NANA1.000.86707.95.00							297 - 751.84
2 NA NA 1.00 0.9720 6.4 4.00 3 NA NA 1.00 0.8670 7.9 5.00	OR	START	STOP	VOLUME	TIME	DIFF Hg	DIFF H2O
	4	NA NA NA	NA NA NA	1.00 1.00 1.00	0.9720 0.8670 0.8270	6.4 7.9 8.7	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 slc intercep coeffici 	ot (b) = ent (r) =	1.94727 0.02332 0.99998 Pa/760)(298/Ta	a)]	Qa slop intercep coeffici y axis =	t (b) =	1.21935 0.01471 0.99998 Ca/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.07a
Sensitivity Adjustment Scale Setting:	557 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM [®]		
Venue:	Cyberport	(Pui Ying Secondary Scho	ool)	
Model No.:	Series 140	OAB		
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	K _o :	12500
Last Calibration Date*:	18 May 20	13		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

557 CPM 557 CPM

Hour	Date (dd-mm-yy)	Time		Amb Conc	bient dition	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	1887	31.45
2	18-05-13	13:30	-	14:30	28.1	78	0.04932	1970	32.83
3	18-05-13	14:30	-	15:30	28.2	77	0.05156	2056	34.27
4	18-05-13	15:30	-	16:30	28.1	78	0.05083	2026	33.77

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9978	
Validity of Calibration Record:	17 May 2014	

Remarks:	

		/		
QC Reviewer: YW Fung	Signature: _	y/	Date:	20 May 2013

Laser Dust Monitor
SIBATA
LD-3
A.005.08a
702 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM®					
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)				
Model No .:	Series 1400AB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	18 May 2013					

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

702	CPM
702	CPM

Hour	Date (dd-mm-yy)	_	Time		Amb Cond		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	1.5	13:30	28.1	78	0.04714	1764	29.40
2	18-05-13	13:30	-	14:30	28.1	78	0.04932	1846	30.77
3	18-05-13	14:30	2	15:30	28.2	77	0.05156	1935	32.25
4	18-05-13	15:30	-	16:30	28.1	78	0.05083	1899	31.65

1. Monitoring data was measured by Rupprecht & Patashnick TEOM® Note:

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0016
Correlation coefficient:	0.9976

Validity of Calibration Record:

17 May 2014

Remarks:

QC Reviewer:	YW Fung	Signature:	-h/	Date:	_20 May 2013

Laser Dust Monitor
SIBATA
LD-3
A.005.09a
797 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 1400AB					
Serial No:	Control:	140AB219899803	_			
	Sensor:	1200C143659803	K _o :	12500		
Last Calibration Date*:	18 May 20	013	=			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

797	CPM
797	CPM

Hour	Date (dd-mm-yy)	Time				0	Total Count ²	Count/ Minute ³
			Temp (°C)	R.H. (%)	Y-axis		X-axis	
1	18-05-13	12:30 - 13:3	28.1	78	0.04714	1885	31.42	
2	18-05-13	13:30 - 14:	28.1	78	0.04932	1965	32.75	
3	18-05-13	14:30 - 15:3	28.2	77	0.05156	2059	34.32	
4	18-05-13	15:30 - 16:3	28.1	78	0.05083	2024	33.73	

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9973	

Validity of Calibration Record:

17 May 2014

Remarks:

QC Reviewer:	YW Fung	Signature:	1/	Date:	_20 May 2013

Laser Dust Monitor
SIBATA
LD-3
A.005.10a
753 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]				
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)			
Model No.:		Series 1400AB			
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	Ko:	12500	
Last Calibration Date*:	18 May 2013				

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

753	CPM
753	CPM

Hour Date (dd-mm-yy)	Hour	Time	Ambi Condi		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	1886	31.43
2	18-05-13	13:30 - 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

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9983	

Validity of Calibration Record:

17 May 2014

Remarks:

QC Reviewer:	YW Fung

Signature:

Date: 20 May 2013

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.11a
Sensitivity Adjustment Scale Setting:	799 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM®			
Venue:	Cyberport (Pui Ying Secondary School)			
Model No.:	Series 1400AB			
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	K _o :	12500
Last Calibration Date*:	18 May 2013			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

799	CPM
799	CPM

Hour Date (dd-mm-yy)	Hour	Time	Ambient Condition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
			Temp R.H. (°C) (%)	Y-axis		X-axis
1	18-05-13	12:15 - 13:15	28.1 78	0.04685	1871	31.18
2	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	0.05127	2055	34.25
4	18-05-13	15:15 - 16:15	28.1 78	0.05060	2021	33.68

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or A	<
Slope (K-factor):	0.0015
Correlation coefficient:	0.9976

Validity of Calibration Record:

_____17 May 2014

Remarks:

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.13a
Sensitivity Adjustment Scale Setting:	643 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	OAB					
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	K _o :	12500			
Last Calibration Date*:	18 May 2013						

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

643	CPM
643	CPM

Hour	Date (dd-mm-yy)	Time			pient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
		×			Temp (°C)	R.H. (%)	Y-axis		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

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X			
Slope (K-factor):	0.0015		
Slope (K-factor): Correlation coefficient:	0.9986		
Validity of Calibration Record:	17 May 2014		

Remarks:	5 s	G-100-110-110-1			
			1		
QC Reviewer:	YW Fung	Signature:	<u> </u>	Date:	20 May 2013

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.16a
Sensitivity Adjustment Scale Setting:	521 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB						
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	K _o :	12500			
Last Calibration Date*:	18 May 20	18 May 2013					

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

521	CPM
521	CPM

Hour	Date (dd-mm-yy)	Time		Amb Conc		Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
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

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9934	

Validity of Calibration Record:

26 July 2014

Remarks:

QC Reviewer:	YW Fung

Signature:

Date: 29 July 2013



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



CERTIFICATE OF CALIBRATION

Certificate No.:	13CA1107 01-02	Page:	1	of	2	
Item tested	1999 - 1999 - 1997 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -					
Description:	Acoustical Calibrator (Class 1)					
Manufacturer:	Rion Co., Ltd.					
Type/Model No.:	NC-73					
Serial/Equipment No .:	10307223 / N.004.08					
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CO.	, LTD.				
Address of Customer:	-	55				
Request No.:	-					
Date of receipt:	07-Nov-2013					
Date of test:	08-Nov-2013				3897 - 240	
		ration				
Date of test: Reference equipment ^{Description:}		ration Serial No.	Expiry Date:	т	raceabl	e to:
Reference equipment	used in the calib		17-Apr-2014	S	SCL	e to:
Reference equipment Description: Lab standard microphone Preamplifier	used in the calib Model: B&K 4180 B&K 2673	Serial No. 2341427 2239857	17-Apr-2014 16-Apr-2014	S	CL EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier	used in the calib Model: B&K 4180 B&K 2673 B&K 2610	Serial No. 2341427 2239857 2346941	17-Apr-2014 16-Apr-2014 24-Apr-2014	S C C	CL EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360	Serial No. 2341427 2239857 2346941 61227	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014	S C C C	CL EPREI EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A	Serial No. 2341427 2239857 2346941 61227 US36087050	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014 10-Dec-2013		CL EPREI EPREI EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360	Serial No. 2341427 2239857 2346941 61227	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014		CL EPREI EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A	Serial No. 2341427 2239857 2346941 61227 US36087050	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014 10-Dec-2013		CL EPREI EPREI EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B	Serial No. 2341427 2239857 2346941 61227 US36087050 GB41300350	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014 10-Dec-2013 15-Apr-2014		CL EPREI EPREI EPREI EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B	Serial No. 2341427 2239857 2346941 61227 US36087050 GB41300350	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014 10-Dec-2013 15-Apr-2014		CL EPREI EPREI EPREI EPREI EPREI	e to:
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter Ambient conditions	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B 53132A	Serial No. 2341427 2239857 2346941 61227 US36087050 GB41300350	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014 10-Dec-2013 15-Apr-2014		CL EPREI EPREI EPREI EPREI EPREI	e to:

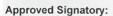
Test specifications

- 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.
- 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

Date: 11-Nov-2013

Company Chop:



Comments: The results reported in this certificate refer to the conditon 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.CARP156-1/Issue 1/Rev.D/01/03/2007

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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.:	14CA0305 06-01		Page	1	of	2	
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2285692	er (Type 1) / 00 9, 0 4	, , ,	Microphone B & K 4188 2250420			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 05-Mar-2014). LTD.					
Date of test:	07-Mar-2014						
Reference equipment	used in the calib	ration					
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227		Expiry Date: 22-Jun-2014 15-Apr-2014 15-Apr-2014	(Traceabl CIGISMEC CEPREI CEPREI	
Ambient conditions							
Femperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 10 hPa						
est 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 uping an electrical tests.
- 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 Park too
- 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.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi

12-Mar-2014 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.

Date:

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

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CERTIFICATE OF CALIBRATION

Certificate No.:	13CA0617 01-01			Page	1	of	2
Item tested							
Description:	Sound Level Meter	(Type 1)	,	Microphone			
Manufacturer:	B&K		,	B&K			
Type/Model No.:	2238		,	4188			
Serial/Equipment No.:	2800927 / N.009.06	0	,	2791211			
Adaptors used:	-		,	-			
Item submitted by							
Customer Name:	AECOM ASIA CO.	LTD.					
Address of Customer:							
Request No.:	-						
Date of receipt:	17-Jun-2013						
Date of test:	18-Jun-2013						
Date of test: Reference equipment		ation					
		ation Serial No.		Expiry Date:		Traceat	ole to:
Reference equipment	used in the calibra			Expiry Date: 22-Jun-2013		Traceat CIGISME	
Reference equipment Description: Multi function sound calibrator	used in the calibra Model:	Serial No.					
Reference equipment	used in the calibra Model: B&K 4226	Serial No. 2288444		22-Jun-2013		CIGISME	
Reference equipment Description: Multi function sound calibrator Signal generator	used in the calibra Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2013 15-Apr-2014		CIGISME CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator	used in the calibra Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2013 15-Apr-2014		CIGISME CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	used in the calibra Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873		22-Jun-2013 15-Apr-2014		CIGISME CEPREI	

Test specifications

- 1, 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%.
- 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.

Actual Measurement data are documented on worksheets.

Approved Signatory:

1 Huang Jian M ⊮Feng Jun Qi

18-Jun-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.

Date:

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E-mail: smec@cigismec.com

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



CERTIFICATE OF CALIBRATION

Certificate No.:	13CA1107 01-01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Meter Rion Co., Ltd. NL-31 00320528 / N.007.0 -))) 2	Microphone Rion Co., Ltd. UC-53A 90565 -			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO., - - 07-Nov-2013	LTD.					
Date of test:	08-Nov-2013						
Reference equipment	used in the calibr	ation					
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227		Expiry Date: 22-Jun-2014 15-Apr-2014 15-Apr-2014		Traceat CIGISME CEPREI CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 10 hPa						

Test specifications

- 1, 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%.
- 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.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi

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.

Date: 11-Nov-2013

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CERTIFICATE OF CALIBRATION

Certificate No.:	14CA0305 06-02			Page	1	of	2
Item tested							
Description:	Sound Level Meter (1	vpe 1)		Microphone			
Manufacturer:	B&K		,	B&K			
Type/Model No.:	2250	2	,	4950			
Serial/Equipment No.:	2681366 //.0	11.01		2665582			
Adaptors used:	-	611 01	,	-			
Item submitted by							
Customer Name:	AECOM ASIA CO. L	TD.					
Address of Customer:							
Request No.:	-						
Date of receipt:	05-Mar-2014						
Date of test:	07-Mar-2014						
Buto of tooli	•••••••••						
		tion					
Reference equipment		tion Serial No.		Expiry Date:		Traceal	ble to:
Reference equipment	used in the calibrat			Expiry Date: 22-Jun-2014		Traceal CIGISME	
Reference equipment Description: Multi function sound calibrator	used in the calibrat	Serial No.					
Reference equipment Description: Multi function sound calibrator Signal generator	used in the calibrat Model: B&K 4226	Serial No. 2288444		22-Jun-2014		CIGISM	EC
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator	used in the calibrat Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014		CIGISM	EC
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	used in the calibrat Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014		CIGISM	EC
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions Temperature: Relative humidity:	used in the calibrat Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014		CIGISM	EC

- 1, 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%.
- 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.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi

12-Mar-2014 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.

Date:

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APPENDIX F EM&A MONITORING SCHEDULES

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Apr	2-Apr	3-Apr	4-Apr	5-Apr
			Site inspection (Contract 1)	Site inspection (Contract 2)	24-hour TSP 1-hour TSP & Noise	
6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr
			Site inspection (Contract 1)	Site inspection (Contract 2) 24-hour TSP 1-hour TSP & Noise		
13-Apr	14-Apr	15-Apr	16-Apr		18-Apr	19-Apr
			Site inspection (Contract 1) 24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 2)		
20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr
		24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 1)	Site inspection (Contract 2)		
27-Apr	28-Apr	29-Apr	30-Apr			
	24-hour TSP 1-hour TSP & Noise		Site inspection (Contract 1)			

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
					24-hour TSP 1-hour TSP	
4-May	5-May	6-May	7-May	8-May	9-May	10-May
			Site inspection (Contract 1)	Site inspection (Contract 1) Site inspection (Contract 2) 24-hour TSP 1-hour TSP & Noise		
11-May	12-May	13-May	14-May	15-May	16-May	17-May
		24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 1)	Site inspection (Contract 2)		
18-May	19-May	20-May	21-May	22-May	23-May	24-May
	24-hour TSP 1-hour TSP & Noise		Site inspection (Contract 1)	Site inspection (Contract 2)		24-hour TSP 1-hour TSP
25-May	26-May	27-May	28-May	29-May	30-May	31-May
			Site inspection (Contract 1)	Site inspection (Contract 2)	24-hour TSP 1-hour TSP & Noise	

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

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

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)
4-Apr-14	9:40	81.1	80.7	81.3
10-Apr-14	11:27	74.9	76.1	77.8
16-Apr-14	10:05	81.1	82.3	83.4
22-Apr-14	9:40	83.4	84.1	85.0
28-Apr-14	9:54	70.3	76.9	76.1
			Average	79.6
			Min	70.3
			Max	85.0

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

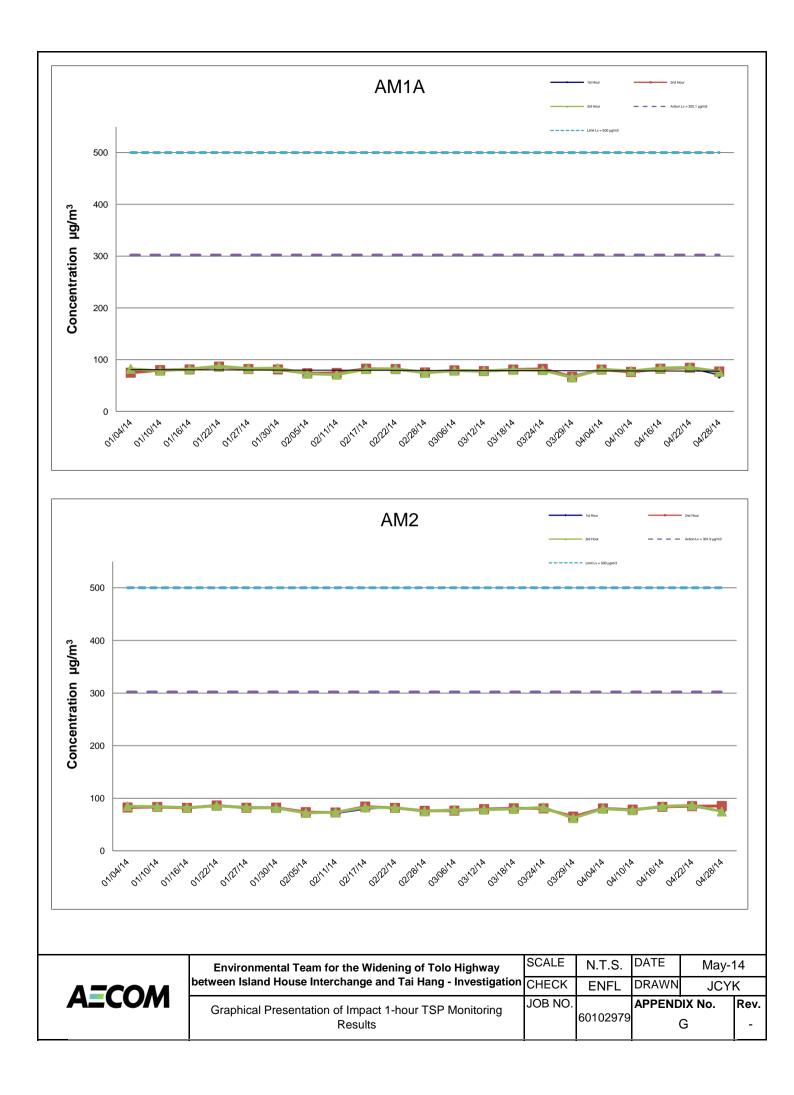
	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m ³)	(µg/m ³)	(µg/m ³)
4-Apr-14	9:50	80.0	80.6	80.2
10-Apr-14	10:56	76.2	78.4	77.3
16-Apr-14	9:55	84.1	83.6	84.8
22-Apr-14	9:50	84.5	85.0	86.6
28-Apr-14	9:30	74.5	85.2	74.8
			Average	81.1
			Min	74.5
			Max	86.6

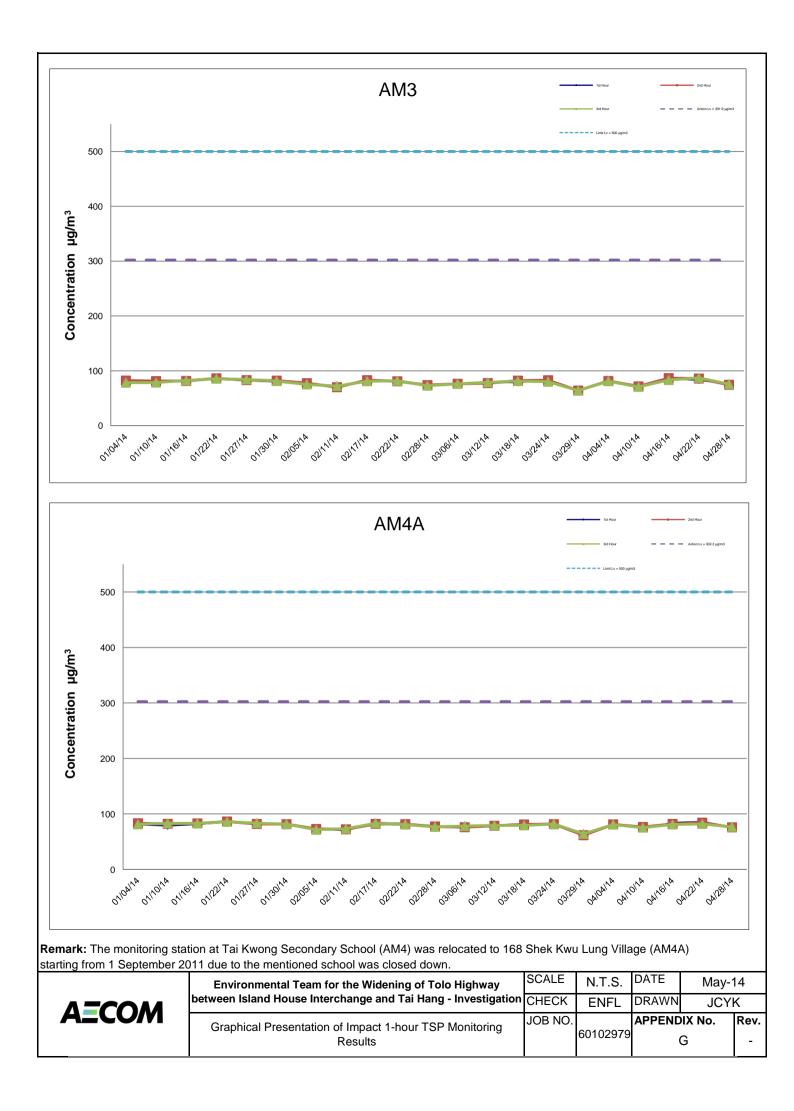
1-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
4-Apr-14	9:30	82.0	81.5	81.1
10-Apr-14	10:01	72.9	71.6	70.7
16-Apr-14	9:45	85.1	86.6	83.2
22-Apr-14	9:30	83.0	85.9	87.1
28-Apr-14	9:40	75.3	74.6	75.8
			Average	79.8
			Min	70.7
			Max	87.1

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/m³)
4-Apr-14	10:05	80.7	81.2	80.9
10-Apr-14	13:36	74.3	76.5	75.4
16-Apr-14	10:25	84.5	82.1	81.1
22-Apr-14	10:35	86.4	84.3	82.1
28-Apr-14	10:10	76.4	75.9	76.8
			Average	79.9
			Min	74.3
			Max	86.4





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 (m ³ /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/m ³)
4-Apr-14	Cloudy	20.6	1016.5	1.33	1.33	1.33	1916.6	2.7253	2.8088	0.0835	20763.46	20787.46	24.00	43.6
10-Apr-14	Fine	22.1	1015.2	1.33	1.33	1.33	1916.6	2.7414	2.8333	0.0919	20787.46	20811.46	24.00	47.9
16-Apr-14	Fine	22.1	1013.3	1.33	1.33	1.33	1916.6	2.7236	2.8447	0.1211	20811.46	20835.46	24.00	63.2
22-Apr-14	Rainy	24.8	1012.6	1.33	1.33	1.33	1916.6	2.7241	2.8660	0.1419	20835.46	20859.46	24.00	74.0
28-Apr-14	Sunny	25.4	1013.5	1.33	1.33	1.33	1916.6	2.7326	2.8809	0.1483	20859.46	20883.46	24.00	77.4
													Average	61.2
													Min	43.6
													Max	77.4

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

Date	Weather	Air	Atmospheric	Flow Rate		Av. flow	Total vol.		/eight (g)	Particulate		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)
4-Apr-14	Cloudy	20.6	1016.5	1.34	1.34	1.34	1925.3	2.7120	2.8154	0.1034	17335.12	17359.12	24.00	53.7
10-Apr-14	Fine	22.1	1015.2	1.34	1.34	1.34	1925.3	2.7161	2.8243	0.1082	17359.12	17383.12	24.00	56.2
16-Apr-14	Fine	22.1	1013.3	1.34	1.34	1.34	1925.3	2.7109	2.7822	0.0713	17383.12	17407.12	24.00	37.0
22-Apr-14	Rainy	24.8	1012.6	1.34	1.34	1.34	1925.3	2.7004	2.8016	0.1012	17407.12	17431.12	24.00	52.6
28-Apr-14	Sunny	25.4	1013.5	1.34	1.34	1.34	1925.3	2.7262	2.8065	0.0803	17431.12	17455.12	24.00	41.7
													Average	48.2
													Min	37.0
													Max	56.2

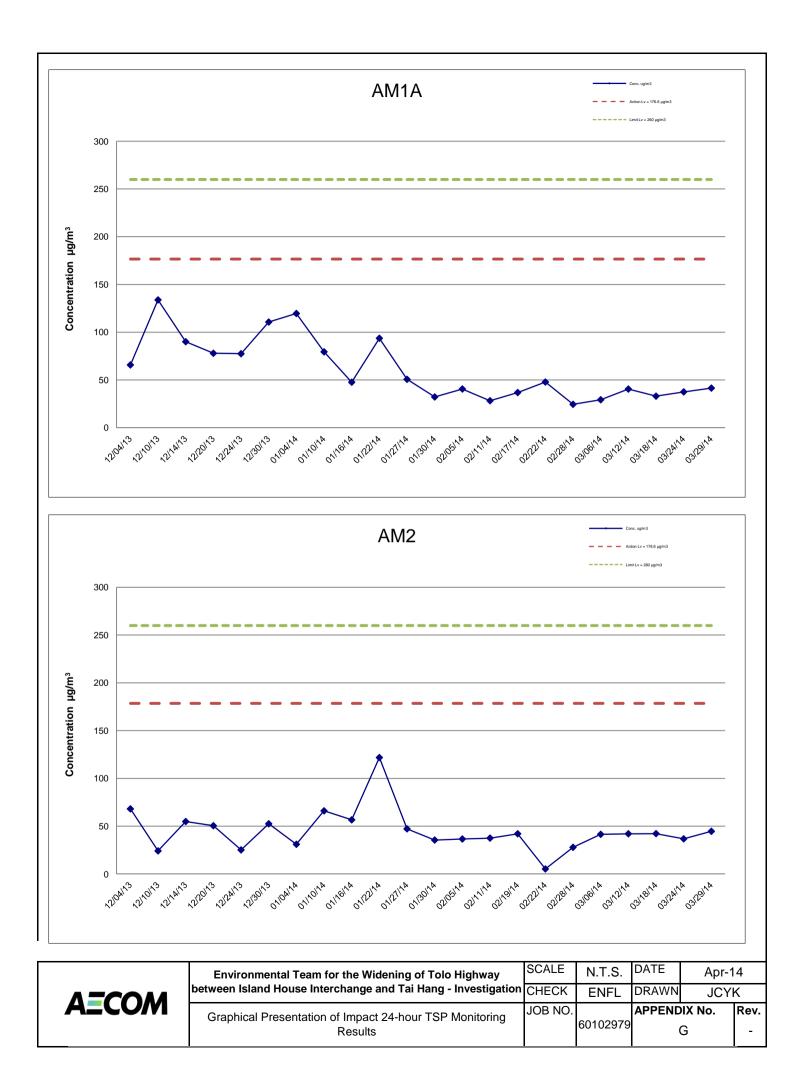
24-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

Date	Weather	Air	Atmospheric	Flow Rate	e (m ³ /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)
4-Apr-14	Cloudy	20.6	1016.5	1.33	1.33	1.33	1921.0	2.7149	2.8727	0.1578	21164.59	21188.59	24.00	82.1
10-Apr-14	Fine	22.1	1015.2	1.33	1.33	1.33	1921.0	2.7312	2.7731	0.0419	21188.59	21212.59	24.00	21.8
16-Apr-14	Fine	22.1	1013.3	1.33	1.33	1.33	1921.0	2.7074	2.7894	0.0820	21212.59	21236.59	24.00	42.7
22-Apr-14	Rainy	24.8	1012.6	1.33	1.33	1.33	1921.0	2.7192	2.8200	0.1008	21236.59	21260.59	24.00	52.5
28-Apr-14	Sunny	25.4	1013.5	1.33	1.33	1.33	1921.0	2.7304	2.8403	0.1099	21260.59	21284.59	24.00	57.2
													Average	51.3
													Min	21.8
													Max	82.1

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

Date	Weather	Air	Atmospheric	Flow Rate	(m ³ /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)
4-Apr-14	Cloudy	20.6	1016.5	1.33	1.33	1.33	1918.1	2.7098	2.7885	0.0787	17194.36	17218.36	24.00	41.0
10-Apr-14	Fine	22.1	1015.2	1.33	1.33	1.33	1918.1	2.7207	2.7866	0.0659	17218.36	17242.36	24.00	34.4
16-Apr-14	Fine	22.1	1013.3	1.33	1.33	1.33	1918.1	2.7073	2.7781	0.0708	17242.36	17266.36	24.00	36.9
22-Apr-14	Rainy	24.8	1012.6	1.33	1.33	1.33	1918.1	2.7467	2.8317	0.0850	17266.36	17290.36	24.00	44.3
28-Apr-14	Sunny	25.4	1013.5	1.33	1.33	1.33	1918.1	2.7081	2.8074	0.0993	17290.36	17314.36	24.00	51.8
													Average	41.7

Average	41.7
Min	34.4
Max	51.8





APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH

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

Date	Mean Pressure at M.S.L.	Ai	r Temperatu	ıre	Mean Dew Point Temperature	Relative Humidity		
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)
1-Apr	* * * * * *	21	19.8	19	* * * *	***	***	***
2-Apr	*****	20.6	19.3	18	* * * *	* * *	***	***
3-Apr	*****	20.8	19.4	18.5	****	***	***	***
4-Apr	*****	23.3	20.2	18.2	****	***	***	***
5-Apr	*****	25.5	20.8	16.8	****	***	***	***
6-Apr	*****	22.4	19.1	17.3	* * * *	***	***	***
7-Apr	*****	20.3	19	17.5	* * * *	***	***	***
8-Apr	*****	21.5	20	19.2	* * * *	***	***	***
9-Apr	* * * * * *	27.4	22.3	19.4	****	***	* * *	***
10-Apr	*****	25.6	22	20.2	****	***	***	***
11-Apr	*****	27.6	23.1	20.8	****	***	***	***
12-Apr	*****	30.3	24.8	21.5	****	***	***	***
13-Apr	*****	32.4	26.4	22.1	****	***	***	***
14-Apr	* * * * * *	24.7	22.7	21	****	***	* * *	***
15-Apr	*****	25.1	22.1	19.9	****	***	***	***
16-Apr	* * * * * *	25.9	22.3	20.9	****	***	* * *	***
17-Apr	*****	30.1	24.7	21.9	****	***	***	***
18-Apr	*****	30.7	25.1	21.9	****	***	***	***
19-Apr	* * * * * *	30.9	25.4	22.5	* * * *	* * *	* * *	***
20-Apr	* * * * * *	30.2	25.7	22.9	* * * *	***	***	***
21-Apr	*****	24.3	23.2	22.5	****	***	***	***
22-Apr	*****	29.5	25.2	22.4	****	***	***	***
23-Apr	*****	24.4	21.8	20.7	****	***	***	***
24-Apr	*****	22.2	21.4	20.8	****	***	***	***
25-Apr	*****	24.2	22.8	21.8	****	***	***	***
26-Apr	* * * * * *	25.7	22.7	21.5	* * * *	***	***	***
27-Apr	*****	31.3	25.9	20.6	****	***	***	***
28-Apr	* * * * * *	29.6	25.2	22.4	* * * *	***	***	***
29-Apr	* * * * * *	27.9	23.9	21.9	* * * *	* * *	***	***
30-Apr	* * * * * *	25	22.6	20.5	* * * *	***	***	***
Mean	*****	26	22.6	20.5	****	***	***	***
Maximum	*****	32.4	26.4	22.9	****	***	***	***
Minimum	* * * * * *	20.3	19	16.8	* * * *	***	***	***

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

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Apr	10.0	60	10.0
2-Apr	35.0	60	12.4
3-Apr	39.5	60	9.8
4-Apr	0.0	80	15.7
5-Apr	0.0	60	13.2
6-Apr	12.5	50	17.8
7-Apr	2.5	60	13.0
8-Apr	16.5	70	6.7
9-Apr	0.0	90	8.2
10-Apr	0.0	80	17.3
11-Apr	0.0	70	11.8
12-Apr	0.0	60	8.4
13-Apr	0.0	270	4.8
14-Apr	0.0	90	15.9
15-Apr	0.0	90	19.7
16-Apr	0.0	70	9.4
17-Apr	0.0	60	6.6
18-Apr	0.0	120	5.2
19-Apr	0.0	60	6.4
20-Apr	0.0	60	3.8
21-Apr	0.0	80	13.8
22-Apr	0.0	60	4.3
23-Apr	5.0	80	20.5
24-Apr	0.5	90	18.5
25-Apr	0.0	90	12.2
26-Apr	1.5	50	10.9
27-Apr	0.0	270	6.0
28-Apr	0.0	140	9.7
29-Apr	0.0	80	12.6
30-Apr	4.0	50	9.6
Mean		60	11.1
Total	127		
Maximum	39.5		20.5
Minimum	0.0		3.8

*** 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, April 2014

Date	Mean Pressure at M.S.L.	Ai	r Temperatı	ıre	Mean Dew Point Temperature	Relative Humidity		
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)
1-Apr	1011	20.5	19.6	19	19	99	96	91
2-Apr	1011.7	20.2	19.3	18.1	18.3	98	94	85
3-Apr	1013.5	20.1	19.3	18.4	18.5	98	95	85
4-Apr	1016.6	21.9	19.9	17.9	16.2	97	80	61
5-Apr	1016.4	23.4	20.3	16.4	13.9	92	69	38
6-Apr	1017.2	21.1	19.2	17.3	16.6	97	85	64
7-Apr	1016.5	20	19.2	17.4	16.4	95	84	78
8-Apr	1014.7	20.5	19.8	19.1	18.6	98	93	84
9-Apr	1014	26.6	22.1	18.8	19.8	99	88	70
10-Apr	1015	23.9	22.1	21	18.6	91	81	66
11-Apr	1013.6	24.5	22.5	20.9	19.6	92	84	72
12-Apr	1012	27.3	24	21.8	20.4	91	81	65
13-Apr	1011.6	30.4	25.6	21.7	21.7	93	80	57
14-Apr	1014.7	24.4	22.8	21.9	19.7	95	83	67
15-Apr	1015.8	23.1	21.8	20.5	16.9	87	74	54
16-Apr	1013.1	23.7	22	21	19	89	83	74
17-Apr	1011.7	28	24	21.7	21	94	84	65
18-Apr	1011.9	27.9	24.2	21.1	21	94	83	67
19-Apr	1011.5	27.1	24.3	21.6	21.7	95	86	74
20-Apr	1010.8	28.8	25	22.5	22.7	95	87	74
21-Apr	1012.4	24.4	23.3	22.7	21.7	94	91	88
22-Apr	1012.4	28.2	24.5	22.5	22.3	94	88	71
23-Apr	1012.2	24.2	22	20.9	21	96	94	90
24-Apr	1011.5	22.4	21.7	21.2	20.2	95	92	86
25-Apr	1012	23.7	22.6	21.6	21.3	96	93	87
26-Apr	1012.8	24.4	22.5	21.4	20.9	98	91	79
27-Apr	1013.1	30.2	25.3	20.4	20.3	95	76	54
28-Apr	1013.4	26.7	24.5	22.3	18.3	87	69	53
29-Apr	1012.9	26	23.5	21.6	20.1	93	82	69
30-Apr	1011.6	24	22.3	20.4	20.1	97	88	79
Mean	1013.2	24.6	22.3	20.4	19.5	94	85	72
Maximum	1017.2	30.4	25.6	22.7	22.7	99	96	91
Minimum	1010.8	20	19.2	16.4	13.9	87	69	38

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

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Apr	****	***	****
2-Apr	****	* * *	****
3-Apr	****	* * *	****
4-Apr	****	* * *	****
5-Apr	****	***	****
6-Apr	****	***	****
7-Apr	****	* * *	****
8-Apr	****	* * *	****
9-Apr	****	***	****
10-Apr	****	* * *	****
11-Apr	****	* * *	****
12-Apr	****	* * *	* * * * *
13-Apr	****	* * *	****
14-Apr	****	* * *	****
15-Apr	*****	***	****
16-Apr	****	* * *	****
17-Apr	****	***	****
18-Apr	****	* * *	****
19-Apr	****	* * *	****
20-Apr	****	***	****
21-Apr	****	* * *	****
22-Apr	****	***	****
23-Apr	****	* * *	****
24-Apr	****	***	****
25-Apr	****	***	****
26-Apr	****	***	****
27-Apr	****	***	****
28-Apr	****	***	****
29-Apr	*****	***	****
30-Apr	****	* * *	****
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, April 2014

Date	Mean Pressure at M.S.L.	Ai	r Temperatu	ıre	Mean Dew Point Temperature	Rela	Relative Humidity			
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)		
1-Apr	1011	21.1	19.8	19	18.8	99	94	83		
2-Apr	1011.9	20.9	19.5	18.2	17.9	98	91	81		
3-Apr	1013.5	20.6	19.4	18.3	18.4	99	93	81		
4-Apr	1016.6	22.8	20.1	18.2	15.8	98	77	56		
5-Apr	1016.4	25.1	20.5	16	13.7	98	68	32		
6-Apr	1017.2	21.4	19.2	17.6	16.3	96	84	60		
7-Apr	1016.6	20.2	19.2	17.5	16	93	82	76		
8-Apr	1014.6	21.3	19.7	19	18.6	100	93	82		
9-Apr	1014	27.2	22.2	18.7	19.5	100	86	63		
10-Apr	1015.1	24.1	22.1	20.8	18.3	89	79	62		
11-Apr	1013.7	25	22.5	20.7	19.2	92	82	70		
12-Apr	1012.1	28.9	24.3	21.6	20	92	78	58		
13-Apr	1011.9	30.8	25.4	20.9	21.2	96	79	56		
14-Apr	1014.8	23.8	22.2	21.2	18.7	93	81	67		
15-Apr	1015.9	23.3	21.4	19.7	16.3	86	73	56		
16-Apr	1013.3	24.9	22	20.6	18.5	89	81	71		
17-Apr	1011.9	28.2	23.9	21.2	20.4	93	82	63		
18-Apr	1012.1	28.2	23.8	20	20.5	98	83	62		
19-Apr	1011.6	27.8	24.1	20.8	21.2	97	85	68		
20-Apr	1011	29.3	24.9	21.9	22	95	84	68		
21-Apr	1012.6	24.6	23	22.1	21.4	95	91	83		
22-Apr	1012.6	28.6	24.5	21.7	21.9	97	86	66		
23-Apr	1012.5	24.5	21.8	20.7	20.7	97	93	86		
24-Apr	1011.8	22.5	21.5	20.9	19.8	94	90	83		
25-Apr	1012.2	24.2	22.7	21.4	21.1	96	91	85		
26-Apr	1013	25.5	22.7	20.8	20.6	95	89	75		
27-Apr	1013.2	30.3	25.5	20.2	19.8	95	72	52		
28-Apr	1013.5	28.8	24.9	22.4	17.5	87	64	47		
29-Apr	1013.1	26	23.4	21.7	19.4	93	79	63		
30-Apr	1011.7	24	22.3	20.6	19.8	96	86	76		
Mean	1013.4	25.1	22.3	20.1	19.1	95	83	68		
Maximum	1017.2	30.8	25.5	22.4	22	100	94	86		
Minimum	1011	20.2	19.2	16	13.7	86	64	32		

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

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Apr	25.0	360	5.0
2-Apr	56.0	350	7.0
3-Apr	42.0	50	4.8
4-Apr	0.0	80	7.1
5-Apr	0.0	20	6.0
6-Apr	8.5	350	5.5
7-Apr	2.5	90	5.4
8-Apr	61.5	350	4.1
9-Apr	0.0	350	5.7
10-Apr	0.0	110	7.0
11-Apr	0.0	70	6.9
12-Apr	0.0	70	5.8
13-Apr	0.0	220	7.1
14-Apr	0.0	90	8.9
15-Apr	0.0	80	9.7
16-Apr	0.0	70	7.9
17-Apr	0.0	30	6.3
18-Apr	0.0	100	4.2
19-Apr	0.0	80	4.3
20-Apr	0.0	210	2.9
21-Apr	0.5	70	5.0
22-Apr	0.0	360	3.5
23-Apr	11.0	80	5.8
24-Apr	0.0	90	9.5
25-Apr	0.5	100	7.3
26-Apr	1.5	70	5.7
27-Apr	0.0	40	5.0
28-Apr	0.0	30	6.2
29-Apr	0.0	100	6.7
30-Apr	9.0	350	6.0
Mean		80	6.1
Total	218		
Maximum	61.5		9.7
Minimum	0.0		2.9

*** 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 Level for 30-min, dB(A)			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)
4-Apr-14	10:05	65.5	67.5	61.0	64.2	59.6	75	Ν
10-Apr-14	13:41	66.8	69.1	63.5	64.2	63.3	75	Ν
16-Apr-14	10:30	59.5	55.0	62.9	64.2	59.5	75	Ν
22-Apr-14	10:40	63.3	65.1	60.6	64.2	63.3	75	Ν
28-Apr-14	10:10	63.7	64.9	61.8	64.2	63.7	75	N

	Corrected Noise Level dB(A)
Average	62.3
Max	63.7
Min	59.5

Location : NM2 (38 Ha Wun Yiu G/F - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured	Measured Noise Level for 30-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)
4-Apr-14	10:10	61.0	63.5	59.0	68.1	61.0	75	Ν
10-Apr-14	10:57	68.3	70.4	65.7	68.1	54.8	75	Ν
16-Apr-14	13:10	73.1	76.5	62.5	68.1	71.4	75	Ν
22-Apr-14	10:30	73.6	75.0	71.5	68.1	72.2	75	Ν
28-Apr-14	13:40	65.4	67.2	63.6	68.1	65.4	75	N

	Corrected Noise Level dB(A)
Average	68.5
Max	72.2
Min	54.8

* +3dB(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 Level for 30-min, dB(A)			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)
4-Apr-14	10:40	64.5	67.0	60.0	64.8	64.5	70	N
10-Apr-14	10:43	65.1	68.2	62.1	64.8	53.3	70	N
16-Apr-14	13:00	61.2	62.0	59.0	64.8	61.2	70	N
22-Apr-14	14:00	65.1	66.5	63.0	64.8	53.3	70	N
28-Apr-14	15:00	64.7	66.9	61.8	64.8	64.7	70	N

	Corrected Noise Level dB(A)
Average	61.8
Max	64.7
Min	53.3

Location : NM4 (Uptown Plaza Block 4 Rooftop - Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured Noise Level for 30-min, dB(A)			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)
4-Apr-14	10:50	65.5	67.0	62.5	67.4	65.5	75	N
10-Apr-14	9:50	66.4	68.5	62.7	67.4	66.4	75	N
16-Apr-14	13:55	60.6	62.0	58.0	67.4	60.6	75	N
22-Apr-14	13:05	66.3	68.0	63.5	67.4	66.3	75	N
28-Apr-14	11:30	64.2	65.7	61.3	67.4	64.2	75	N

	Corrected Noise Level dB(A)					
Average	65.0					
Max	66.4					
Min	60.6					

- 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 Noise Level for 30-min, dB(A)			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)
4-Apr-14	11:25	65.5	67.5	60.5	65.2	53.7	75	N
10-Apr-14	13:34	60.4	63.3	58.6	65.2	60.4	75	N
16-Apr-14	11:25	62.2	63.5	59.0	65.2	62.2	75	N
22-Apr-14	11:35	67.2	68.8	65.1	65.2	62.9	75	N
28-Apr-14	10:51	64.2	65.6	62.4	65.2	64.2	75	N

	Corrected Noise Level dB(A)
Average	61.8
Max	64.2
Min	53.7

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 Noise Level for 30-min, dB(A)			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)
4-Apr-14	11:30	63.0	65.0	60.5	64.5	63.0	70	N
10-Apr-14	11:29	61.7	63.5	57.6	64.5	61.7	70	N
16-Apr-14	10:40	64.3	65.5	63.0	64.5	64.3	70	N
22-Apr-14	13:15	60.3	62.1	56.1	64.5	60.3	70	N
28-Apr-14	13:04	65.9	67.2	63.7	64.5	60.3	70	N

	Corrected Noise Level dB(A)
Average	62.2
Max	64.3
Min	60.3

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

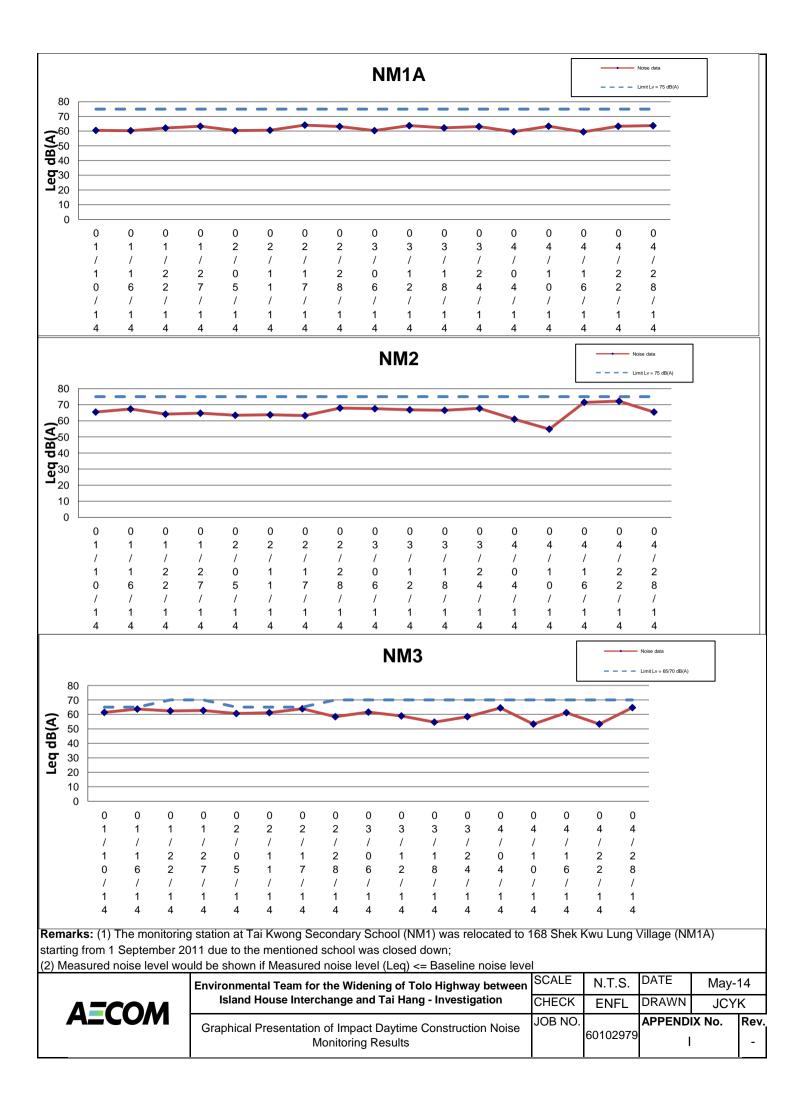
Location : NM7 (Riverain Bayside Switch Room Rooftop - Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

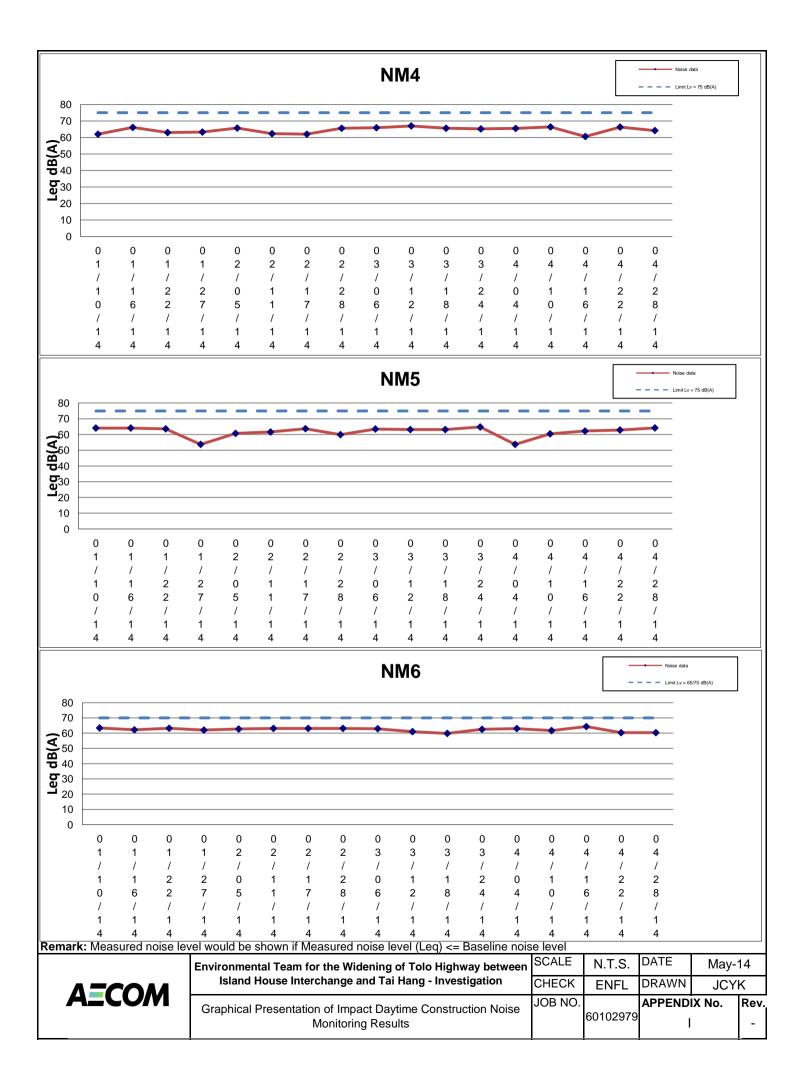
	Measured Noise Level for 30-min, dB(A)			min, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
4-Apr-14	12:00	66.5	68.0	62.0	61.5	64.8	75	N
10-Apr-14	10:03	63.5	66.3	61.2	61.5	59.2	75	N
16-Apr-14	9:50	58.0	59.5	56.5	61.5	58.0	75	N
22-Apr-14	9:35	62.1	63.5	59.5	61.5	53.2	75	N
28-Apr-14	14:20	65.0	66.3	63.4	61.5	62.4	75	N

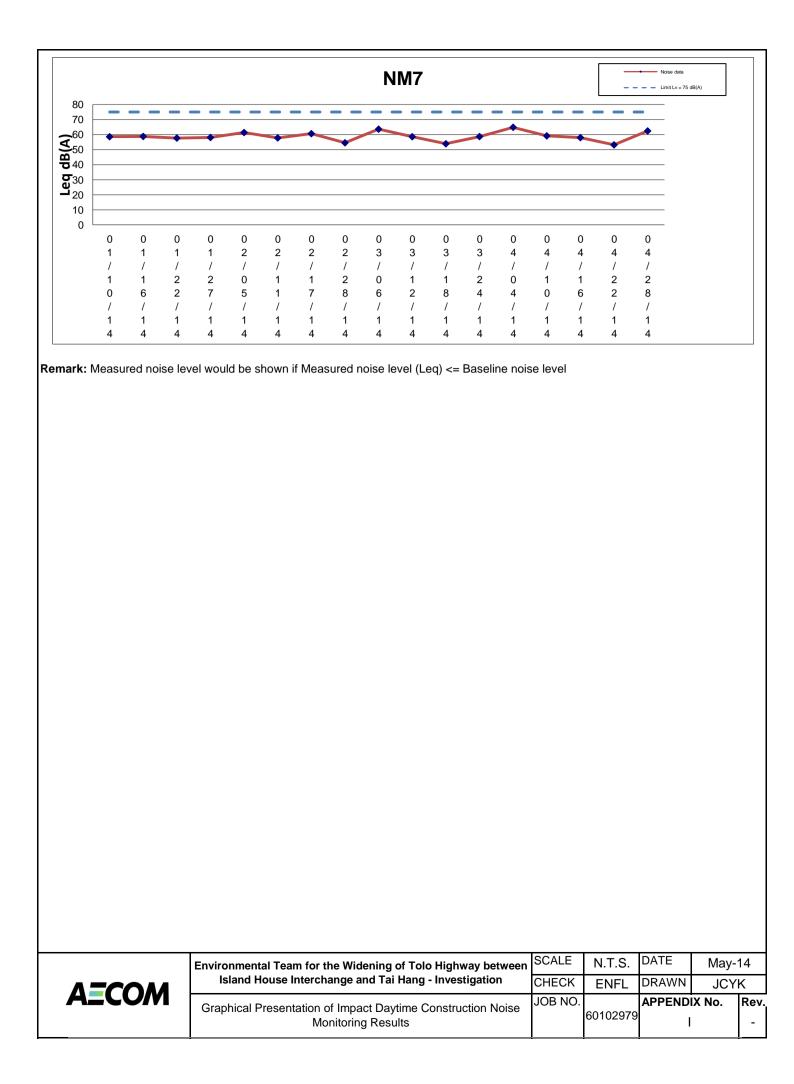
	Corrected Noise Level dB(A)					
Average	61.1					
Max	64.8					
Min	53.2					

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</p>







APPENDIX J EVENT ACTION PLAN

Appendix J – Event Action Plan

Event / Action Plan for Air Quality

Event	Action								
	ET Leader	IEC	ER	Contractor					
Action Level				1					
Exceedance for one sample	 Identify source; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to dailv. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. 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. 	 Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; 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. 	 proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by ER until the exceedance is 						

Event / Action Plan for Noise Impact

Event		Action	n	
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

Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	2 April 2014
Time:	09:00
Inspection No.:	429

Non-compliance

Nil

Observations

Follow Up Observations

Nil.

New Observations

1. The Contractor was reminded to provide a drip tray to the chemicals.

Remarks

Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	3 April 2014
Time:	14:00
Inspection No.:	430

AECOM

Non-compliance

Nil

Observations

Follow Up Observations

Construction materials were removed from the trees (Closed). 1.

New Observations

Nil.

Remarks

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1) BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION

Inspection Information

mopeoaen menne	
Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	7 April 2014
Time:	14:00
Inspection No.:	431

AECOM

Non-compliance

Nil

Observations

Follow Up Observations

1. The chemicals were removed (Closed).

New Observations

2. Stagnant water was observed at the catch pit. The Contractor was reminded to clear the water or treat the water regularly with larvicidal oil to prevent mosquito breeding.

Remarks

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1) BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION

Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	10 April 2014
Time:	14:00
Inspection No.:	432

AECOM

Non-compliance

Nil

Observations

Follow Up Observations

Nil.

New Observations

1. Exposed slope was observed. The Contractor was reminded to prevent soil from being depositing in existing drainage systems and the river nearby by covering the slope with tarpaulin sheets.

Remarks

Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	16 April 2014
Time:	09:00
Inspection No.:	433

Non-compliance

Nil

Observations

Follow Up Observations

1. Stagnant water at the catch pit was cleared (Closed).

New Observations

Nil.

Remarks



Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	17 April 2014
Time:	14:00
Inspection No.:	434

AECOM

Non-compliance

Nil

Observations

Follow Up Observations

Exposed slope is covered (Closed). 1.

New Observations

2. The Contractor was reminded to spray dusty surfaces with water.

Remarks

Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	23 April 2014
Time:	09:00
Inspection No.:	435

Non-compliance

Nil

Observations

Follow U	p Observations

Nil.

New Observations

Nil.

Remarks



EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1) BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION

Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	24 April 2014
Time:	14:00
Inspection No.:	436

AECOM

Non-compliance

Nil

Observations

Follow Up Observations

1. Dusty materials were removed off site (Closed).

New Observations

- 2. General refuse was observed near the worker rest area. The Contractor was reminded to clear the refuse to maintain site cleanliness.
- 3. Oil drums were observed at the east abutment of Bridge 18. The Contractor was reminded to remove the oil drums.

Remarks

Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	30 April 2014
Time:	09:00
Inspection No.:	437

Non-compliance

Nil

Observations

Follow Up Observations

Nil.

New Observations

Nil.

Remarks



EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1) BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION

Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	30 April 2014
Time:	09:00
Inspection No.:	438

AECOM

Non-compliance

Nil

Observations

Follow Up Observations

- 1. General refuse was removed (Closed).
- 2. Oil drums were removed (Closed).

New Observations

3. The Contractor was reminded to clear the water at the wheel-washing facilities.

Remarks

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	15 April 2014	EPD referred a complaint from a resident of Ma Wo Tsuen on 15 April 2014. The complaint was about the dust emission on 12 April 2014 at the construction site of the Tolo Highway widening construction works at Ma Wo. The complaint location was Ma Wo Tsuen near Northbound of Tolo Highway. The complainant complained that there was no water spraying or covering by tarpaulin sheets when the construction works were taking place. Serious dust nuisance has been caused. He claimed that no improvement has been observed. He requested the follow-up by the EPD.	Closed	1	38
Notification of summons	-	_	-	0	0
Successful Prosecutions	-	-	-	0	0