

**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 November 2013

[12/2013]

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

#### Attn.: Mr. James Penny

Dear Sir,

# Widening of Tolo Highway between Island House Interchange and Tai Hang Environmental Permit (EP) No.: EP-324/2008/A Condition 3.3 – Submission of Monthly EM&A Report for December 2013 (Stage 1)

We refer to the captioned Monthly EM&A Report received on 10 and 14 January 2014 submitted by Environmental Team (ET) via email. Pursuant to EP Condition 3.3, I hereby verify the Monthly EM&A Report for December 2013 (Stage 1) for the Project.

Yours faithfully

for MOTT MACDONALD HONG KONG LIMITED

Terence Kong ✓ Independent Environmental Checker

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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 February 2014; while construction programme of Stage 2 is currently under review. 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 31 December 2013.

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

- Temporary shoring, sheetpiling and excavation
- At-grade road construction
- Widening and demolition of central dividers
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier panels installation
- Asphalt laying
- Installation of Drainage Pipes
- Modification of Edge coping

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

- Condition survey of existing structures
- Setting up the temporary traffic arrangement
- Excavation of trial trenches to locate existing utilities
- Construction of haul road
- Construction of concrete profile barrier and beam barrier
- Construction of Pilecap / Spread footing of Noise Barrier / Semi Noise Enclosure
- Slope works, including installation of soil nails
- NTHA mitigation works
- Construction of retaining walls
- 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) noise-related complaint was received on 4 November 2013 and followed up by the Environmental Team in November and December 2013. The summary of investigation is described in Sections 4.6.3 to 4.6.5.

One (1) air-related complaint was received on 13 December 2013 and followed up by the Environmental Team in December 2013. The summary of investigation is described in Sections 4.6.6 to 4.6.8.

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 January 2014; while the construction programme of Stage 2 is currently under review. 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 fiftieth 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 December 2013.

#### 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.

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
<b>Contractor</b> 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
<b>Contractor</b> of Stage 1, Contract 2		Thomson Chang	9213 6569	2559 3410
(Gammon Construction Limited)	Environmental Officer	Crispin Ao	9223 8773	2559 3410
		Jason Cheng	9837 9323	2559 3410
ET of Stage 1 (AECOM Asia Company Limited)	ET Leader	Y T Tang	3922 9393	3922 9797

#### Table 1.1 Contact Information of Key Personnel

#### 1.4 Summary of Construction Works

- 1.4.1 The construction phase of Stage 1 under the EP commenced on 23 November 2009.
- 1.4.2 Details of the construction works carried out by the Contract 1 Contractor (China State Construction Engineering (Hong Kong) Ltd.) in this reporting period are listed below:-
  - Temporary shoring, sheetpiling and excavation
  - At-grade road construction



- Widening and demolition of central dividers
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier panels installation
- Asphalt laying
- Installation of Drainage Pipes
- Modification of Edge coping
- 1.4.3 Details of the construction works carried out by the Contract 2 Contractor (Gammon Construction Ltd.) in this reporting period are listed below:-
  - Condition survey of existing structures
  - Setting up the temporary traffic arrangement
  - Excavation of trial trenches to locate existing utilities
  - Construction of haul road
  - Construction of concrete profile barrier and beam barrier
  - Construction of Pilecap / Spread footing of Noise Barrier / Semi Noise Enclosure
  - Slope works, including installation of soil nails
  - NTHA mitigation works
  - Construction of retaining walls
  - Noise barrier construction
  - Modification of existing bridge structures
  - Entrusted watermains works
  - Sewer Installation
  - Road and drainage works; and 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 2.1Air 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.

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

 Table 2.2
 Locations of Impact Air Quality Monitoring Stations

#### 2.4 Monitoring Parameters, Frequency and Duration

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

 Table 2.3
 Air Quality Monitoring Parameters, Frequency and Duration

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



#### 2.5 **Monitoring Methodology**

- 2.5.1 24-hour TSP Monitoring
  - The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were (a) 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.
    - A minimum of 2 meters separation from walls, parapets and penthouse for rooftop (iii) sampler.
    - A minimum of 2 meters separation from any supporting structure, measured (iv) horizontally.
    - No furnace or incinerator flues nearby. (v)
    - Airflow around the sampler was unrestricted. (vi)
    - Permission was obtained to set up the samplers and access to the monitoring (vii) stations.
    - (viii) A secured supply of electricity was obtained to operate the samplers.
    - The sampler was located more than 20 meters from any dripline. (ix)
    - Any wire fence and gate, required to protect the sampler, did not obstruct the (x) monitoring process.
    - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
  - (b) Preparation of Filter Papers
    - Glass fibre filters, G810 were labelled and sufficient filters that were clean and without (i) 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%.
    - All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which (iii) is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
  - (c) **Field Monitoring** 
    - The power supply was checked to ensure the HVS works properly. (i)
    - The filter holder and the area surrounding the filter were cleaned. (ii)
    - The filter holder was removed by loosening the four bolts and a new filter, with (iii) 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.
    - The swing bolts were fastened to hold the filter holder down to the frame. The (v) pressure applied was sufficient to avoid air leakage at the edges.
    - Then the shelter lid was closed and was secured with the aluminum strip. (vi)
    - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions. A new flow rate record sheet was set into the flow recorder. (viii)
    - On site temperature and atmospheric pressure readings were taken and the flow rate (ix) of the HVS was checked and adjusted at around 1.1 m<sup>3</sup>/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m<sup>3</sup>/min).
    - The programmable digital timer was set for a sampling period of 24 hrs, and the (x) starting time, weather condition and the filter number were recorded.
    - The initial elapsed time was recorded. (xi)
    - At the end of sampling, on site temperature and atmospheric pressure readings were (xii) 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.
- (ví) 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 December 2013 is provided in Appendix F.

### 2.7 Monitoring Results

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

#### 2.8 Results and Observations

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

	-			
	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1A	79.6	72.6 - 86.2	302.1	500
AM2	79.8	73.2 – 84.4	301.9	500
AM3	79.3	73.5 – 84.3	301.9	500
AM4A	80.5	75.9 – 85.0	302.3	500

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

Table 2.5

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

	Average (µg/m³)	Range (µg/m <sup>3</sup> )	Action Level (μg/m³)	Limit Level (µg/m³)
AM1A	92.6	65.7 – 133.8	176.6	260
AM2	45.8	24.1 – 68.1	178.6	260
AM3	56.6	34.1 – 82.0	193.1	260
AM4A	62.2	26.4 – 102.9	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 December 2013 from the Tai Mei Tuk Automatic Weather Station were missing, the weather data from Tai Po Automatic Weather Station in December 2013 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	<b>Noise Monitoring</b>	Equipment
Table 3.1	Noise wonitoring	Equipment

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

#### 3.3 Monitoring Locations

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

Table 3.2	Locat	tions of Impact Noi	se Monitoring Stations
	<b>A</b> ( )		

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

#### 3.4 Monitoring Parameters, Frequency and Duration

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

#### Table 3.3Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration		
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<sub>eq(30-minutes)</sub> during non-restricted hours i.e. 07:00 1900 on normal weekdays; L<sub>eq(5-minutes)</sub> 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 December 2013 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 <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>
NM1A	63.2	61.9 – 64.2	75
NM2	65.9*	62.9 – 67.5*	75
NM3	61.3	58.4 - 63.5	70 <sup>#</sup>
NM4	64.1	57.2 – 65.5	75
NM5	61.9	56.9 - 64.1	75
NM6	61.8*	59.6 - 64.4*	70 <sup>#</sup>
NM7	59.5	54.6 - 62.8	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, 4 site inspections were carried out on 4, 11, 18 and 24 December 2013 for Contract 1 of the Project, and 4 site inspections for Contract 2 of the Project were carried out on 5, 12, 19, 24 and 31 December 2013.
- 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 Dry soil surface was observed on access roads and the Contractor was reminded to spray the access road with water or dust suppression chemicals to maintain the entire surface wet.

#### 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 hold the oil can.
- 4.1.8 Oil drums were observed without drip tray and the Contractor was reminded to provide trays to oil drums as a mitigation measure.

#### Landscape and Visual Impact

4.1.9 No adverse observation was identified in the reporting month.

#### Miscellaneous

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

#### Air Quality

- 4.1.12 The Contractor was reminded to cover the exposed slope at Gate 48 with tarpaulin sheets.
- 4.1.13 Mud was observed at the edge of the footpath at NLKP3. The Contractor was reminded to clear the mud and increase the height of sand bags to prevent the overflow of sand from the construction site.

#### Noise

4.1.14 No adverse observation was identified in the reporting month.



#### Water Quality

4.1.15 Muddy water was observed at the edge of the road at W74. The contractor was reminded to direct the water to an appropriate discharge point so that it will not mix with sand to produce muddy water.

#### Chemical and Waste Management

4.1.16 The Contractor was reminded to provide a drip tray to oil cans at Gate 2 or remove the oil cans.

#### 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), 162m<sup>3</sup> of inert C&D materials was disposed of to the public fill at Tuen Mun 38 (of which 16m<sup>3</sup> was broken concrete), while 117m<sup>3</sup> of general refuse was disposed of at the NENT landfill. 95kg of paper/cardboard packaging, 2,067kg of plastics and 0kg of metals were collected by recycling contractors in the reporting month. 1,614m<sup>3</sup> and 857m<sup>3</sup> 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), 240m<sup>3</sup> of inert C&D materials was disposed of to Tuen Mun 38 and 240m<sup>3</sup> 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. Besides, no chemical waste was collected by the licensed contractor in the reporting period.
- 4.2.4 The Contract 1 Contractor (CSHK) and the Contract 2 Contractor (GCL) are advised to maintain on site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

#### 4.3 Environmental Licenses and Permits

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

Table 4.1	Summary of Environmental Licensing and Permit Status
-----------	--

Statutory Reference	License/ Permit	License or	Valid	Valid Period		Remarks
Reference		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	CSHK	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 Waste Producer Registration	5213-727- C3249-46	25/09/2009	N/A	СЅНК	Chemical waste produced in Contract HY/2008/09
		5213-722- G2347-18	18/05/2010	N/A	GCL	Chemical waste produced in Contract HY/2009/08
WDO	Billing Account for Disposal of Construction Waste	7009328	08/09/2009	N/A	CSHK	Waste disposal in Contract HY/2008/09
		7010320	02/03/2010	N/A	GCL	Waste disposal in Contract HY/2009/08
	Construction Noise Permit	GW- RN0417-13	21/07/2013	17/01/2014	СЅНК	Construction works at Island House Interchange
		GW- RN0468-13	19/08/2013	23/01/2014	СЅНК	Routine Road Maintenance
NCO		GW- RN0561-13	02/10/2013	01/04/2014	СЅНК	Modification of Sign Gantry_G11, G13, G70, G73, G74, G75 & G76
		GW- RN0572-13	07/09/2013	03/12/2013	СЅНК	Modification of Sign Gantry_G14, G15, G16, G17, G65, G66, G67 & G68
		GW- RN0607-13	19/10/2013	22/12/2013	СЅНК	Road Paving on Tolo Highway between Ma Wo and NLKRB (Shatin Bound)



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Statutory	License/	License or	Valid	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
		GW- RN0614-13	19/10/2013	22/12/2013	СЅНК	Road Paving on North Bound of Tolo Highway at Island House Interchange
		GW- RN0620-13	19/10/2013	22/12/2013	СЅНК	Road Paving Reconstruction on Tolo Highway (Fanling Bound) Between NB12 and Tat Wan Road
		GW- RN0647-13	01/11/2013	31/12/2013	СЅНК	Carrying out construction works within MTRC's tracks protection zone
		GW- RN0693-13	16/11/2013	22/12/2013	СЅНК	Road Paving on Tolo Highway at Island House Interchange (Shatin Bound)
		GW- RN0703-13	19/11/2013	28/12/2013	CSHK	Installation of Noise Barrier on Kwong Fuk West Viaduct
		GW- RN0707-13	19/11/2013	28/12/2013	СЅНК	Road Paving Reconstruction on Tolo Highway (Fanling & Shatin Bound) near Shan Tong Road
		GW- RN0710-13	21/11/2013	24/12/2013	СЅНК	Sign Gantry at Tolo Highway between Yuen Chau Tsai and Ma Wo
		GW- RN0726-13	27/11/2013	31/12/2013	СЅНК	Concreting Works on Tolo Highway (Fanling Bound) near Tat Wan Road
		GW- RN0741-13	03/12/2013	28/12/2013	CSHK	Installation of Sign Gantries G18 & G19
		GW- RN0742-13	02/12/2013	28/12/2013	СЅНК	Road Pavement at Shatin Bound of Tolo Highway between Wan Tau Tong Estate and Tai Po Road
		GW- RN0763-13	10/12/2013	28/12/2013	СЅНК	Modification of Sign Gantries G13 G14 G16 G17& G66
		GW- RN0766-13	14/12/2013	23/02/2014	СЅНК	Road Paving on Tolo Highway between Ma Wo and NLKRB (Shatin Bound)



Monthly EM&A Report for December 2013

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit	Remarks
Reference	Fernin	Permit Permit No.	From	То	Holder	
		GW- RN0788-13	22/12/2013	23/02/2014	СЅНК	Road pavement for Slip Road from Tolo Highway to Tai Po Road near Yuen Chau Tsai (Fanling Bound)
		GW- RN0789-13	02/01/2014	31/03/2014	СЅНК	Construction works next to MTRC's tracks protection zone
		GW- RN0801-13	28/12/2013	23/02/2014	СЅНК	Road Marking Alternation at Tolo Highway at Island House Interchange
		GW- RN0807-13	29/12/2013	23/02/2014	СЅНК	Road pavement for Slip Road from Tolo Highway to Tai Po Road near Yuen Chau Tsai (Fanling Bound)
		GW- RN0810-13	31/12/2013	23/02/2014	СЅНК	Road Paving Reconstruction on Slip Road from Tai Po Road-Yuen Chau Tsai
		GW- RN0530-13	03/10/2013	02/02/2014	GCL	Renewal of GW- RN0194-13 Tolo Highway near Tai Po Tau Raw Water Pumping Station
		GW- RN0695-13	17/11/2013	12/05/2014	GCL	General work and asphalt paving at Tolo Highway near Shek Kwu Lung and Ma Wo (CH18.1 - 19.2)
		GW- RN0785-13	28/12/2013	27/02/2014	GCL	Stitching Construction at Section of Tolo Highway (Shatin Bound) CH19 to CH18.8A
		GW- RN0786-13	19/12/2013	11/06/2014	GCL	Renewal of GW- RN0484-13 Tolo Highway and Fanling Highway near Tai Po Tai Wo Road, Lam Kam Interchange & Tai Wo Service Road West



	Statutory Reference	License/ Permit	License or Permit No.	Valid	Period	License/ Permit	Remarks
	Nelelelice	Fernin	Fernit NO.	From	То	Holder	
Ĺ			GW- RN0795-13	24/12/2013	27/02/2014	GCL	Erection of Sign Gantry at Tolo Highway (Fanling Bound) CH19.9 to CH20.1 near Lam Kam Interchange

#### 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 Two (2) complaints were followed up by the Environmental Team in the reporting period
- 4.6.3 One (1) noise-related complaint was received on 4 November 2013 and followed up by the Environmental Team in November and December 2013.
- 4.6.4 EPD referred a noise complaint from a resident living near Uptown Plaza at Tai Po. The complainant expressed that the construction work between late-night hours on 2 November and early morning of 3 November at Tolo Highway disturbed the resident's sleep.
- 4.6.5 According to the information provided by the Contractor (China State Construction Engineering (HK) Ltd.) and confirmed by the Engineer of the Project, road marking alternation works was carried out at Tolo Highway between 23:00 on 2 November 2013 and 05:00 on 3 November 2013. The permitted works area and the exact working area for road marking alternation are indicated in the site location plan.

A valid Construction Noise Permit (CNP no.: GW-RN0607-13) has been obtained for the use of certain specified Powered Mechanical Equipments (PMEs) and carrying out of certain prescribed construction work at Tolo Highway (Shatin Bound) between Grand Dynasty View and the Paragon between 23:00 on Saturdays and 05:00 on Sundays, subject to the conditions imposed in the CNP. The numbers and types of PMEs operated between 23:00 on 2 November 2013 and 05:00 on 3 November 2013 complied with the CNP. The list of plants used during the construction works (provided by the Contractor and confirmed by the Engineer) on 2 and 3 November 2013 was also checked for verification.

Notification was sent to EPD at 13:18 hours on 1 November 2013 prior to the commencement of the construction work but the notification period was less than the required 48 hours before the said works carried out at 23:00 on 2 November 2013.

The Contractor notified the nearby residents in advance of the construction work by disseminating a public notice to the estates management offices of the affected residential buildings on 1 November 2013.

However, the noise complaint is considered project-related.

Upon the receipt of the complaint, the Contractor stopped the road works as soon as practicable as determined by The Highways Department. A safety net had been set up to cover the skip of dump trucks to reduce the dropping height of milling materials (rubbles) to reduce the impact noise for any future works conducted under CNP no.: GW-RN0607-13, but the results were not satisfactory. Hence, this measure will not be implemented. However, the Contractor was urged to shorten the time of handling rubbles as much as possible to minimize the nuisance caused to the nearby residents. Additionally, the Contractor has shut off idling plants at once. The Contractor also wrapped up the reversing alarm of the PMEs with sound-absorbing materials to reduce noise generated from similar works so as to minimize the impacts to nearby residents.

The Contractor has been setting up permanent noise barriers at both sides of the section of the road where road marking alternation works were carried out. Most of the noise barriers have been erected and the Contractor will install all the remaining noise barrier panels by January 2014. The Contractor was prompted to install the remaining permanent noise barriers as soon as it can.

The Contractor also visited the Management Offices of nearby estates thereafter to introduce them about its works programme and night works of the coming two months. Meanwhile, a public notice was disseminated to the estates on 6 November 2013 and is displayed at the lift lobby of the estates to inform the residents about its works.

According to the Contractor, no further works in relation to CNP no.: GW-RN0607-13 is scheduled before the CNP expires at 05:00 on 22 December 2013, even though the CNP permits such prescribed use of the specified PMEs for a total of 10 nights during its validity period. However, the



Contractor was urged to comply with conditions of this and subsequent CNPs for future works and make advance notifications to the EPD at least 48 hours before the scheduled commencement of works. The Contractor was prompted to improve their management and schedule night works as early as possible to prevent late notification. The Contractor was reminded to review the current working method and implement noise mitigation measures so as to minimize nuisance caused to sensitive receivers.

In addition, the Contractor is advised to implement the mitigation measures as stated in "Recommended Mitigation Measures" below:

- Strictly comply with the requirements of the approved CNP for works carried out in restricted hours;
- Have better scheduling of works to minimize noise nuisance;
- Instruct the site workers to keep the noise in minimum during construction works in restricted hours; and
- Foster better public relations with the sensitive receivers nearby.
- 4.6.6 One (1) air-related complaint was received on 13 December 2013 and followed up by the Environmental Team in December 2013.
- 4.6.7 EPD referred a complaint from a resident of Ma Wo Tsuen about the dust emission at the construction site of the Tolo Highway widening construction works at Ma Wo. The complainant has complained about the air pollution problem for three years and that no improvement has been seen.

The complainant stated that there are no water sprinklers in the construction site and the residents of Ma Wo Tsuen have requested the Contractor to use tarpaulin sheets.

4.6.8 As informed by the Contractor (Gammon Construction Ltd) and confirmed by the Engineer of the Project, catchment drain, backfilling and compaction work of general fill materials at W38 and delivery of fill materials from W48 to W38 by dump truck on 12 December 2013 (Thursday) and 13 December 2013 (Friday) were carried out at the work areas near the residential flat of the complainant.

Mitigation measures, including water spraying by sprinklers on haul roads and exposed slopes, covering non-working slopes by tarpaulin sheets at a sight distance from the complainant before the complete construction of permanent footpath, full-time manual water spraying, and the tarpaulin dust screen of appropriately 1.8 m in height set on the top of W45-47 which is along W44 and NB31, and a section of footpath on W38, were taken by the Contractor. As shown in Figure 4B, water is sprayed 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. As shown in Figure 5, the loading and unloading height of general fill materials at W38 was kept to a minimum. Besides, in case any dump truck passes through W45-47, the mechanical covering will not open until they reach the unloading point.

Wheel washing has been carried out at the site entrance. The dump truck responsible for the delivery of fill materials for W38 only moved within W48 and W38, which was not exiting from the site entrance on 12 and 13 December 2013.

With reference to the monitoring results recorded on the day closest to the day of complaint at the nearest EM&A monitoring station (AM1A- Sheung Wun Yiu), the 24-hour TSP level on 10 December 2013 was 133.8 ug/m<sup>3</sup>, which was below the action level of 176.6 ug/m<sup>3</sup>. Besides, the average 1-hour TSP 10 December 2013 at the nearest EM&A monitoring station (AM1A- Sheung Wun Yiu) was 83.5 ug/m<sup>3</sup>, which was also below the action level of 302.3ug/m<sup>3</sup>.

Nevertheless, the complaint was considered project-related.

Therefore, the Contractor is reminded to enhance the dust mitigation measures as stated in the "Recommended Mitigation Measures" below:



- 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 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;
- Cover the backfilling surface after work;
- Keep soil surfaces wet before loading and unloading activities;
- 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;
- Inform the complainant before dusty activities (e.g. rock breaking, excavation, grouting and backfilling) are carried out; and
- Foster better public relations with the sensitive receivers and complainants nearby.
- 4.6.9 No new notification of summons and prosecution was received in the reporting period.
- 4.6.10 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 Months

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

#### 5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in January 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 January 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 9 times in December 2013. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.6 Two (2) complaints were followed up by the Environmental Team in the reporting period.
- 6.1.7 One (1) noise-related complaint was received on 4 November 2013 and followed up by the Environmental Team in November and December 2013. The summary of investigation is described in Sections 4.6.3 to 4.6.5.
- 6.1.8 One (1) air-related complaint was received on 13 December 2013 and followed up by the Environmental Team in December 2013. The summary of investigation is described in Sections 4.6.6 to 4.6.8
- 6.1.9 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.



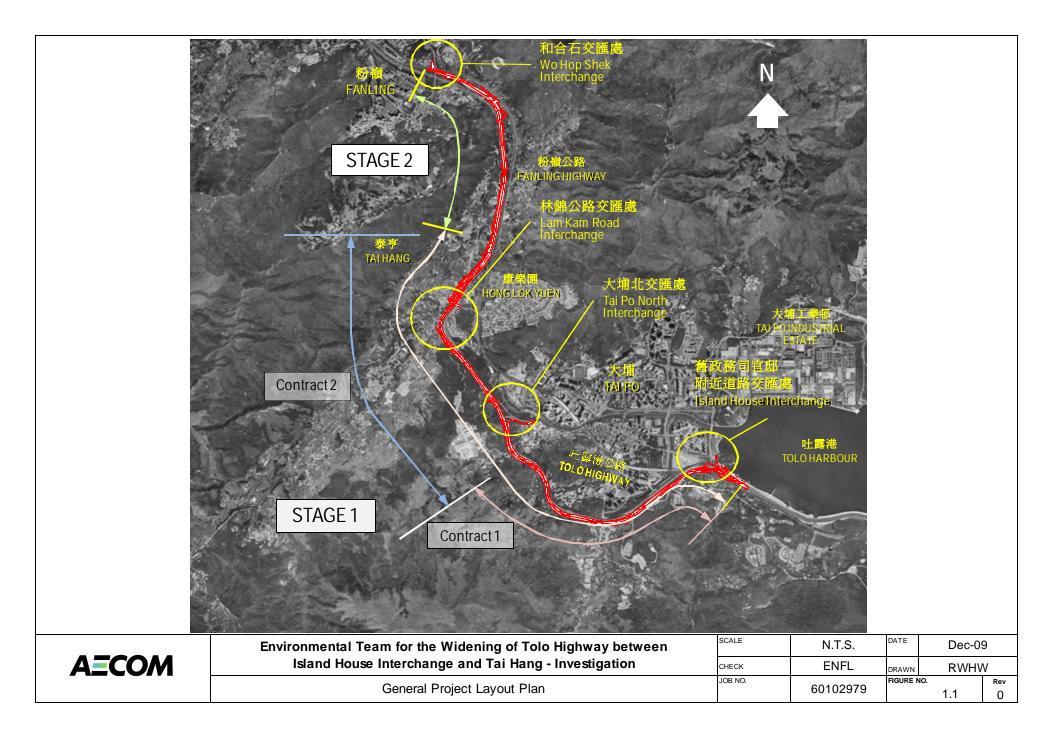
### Chemical and Waste Management

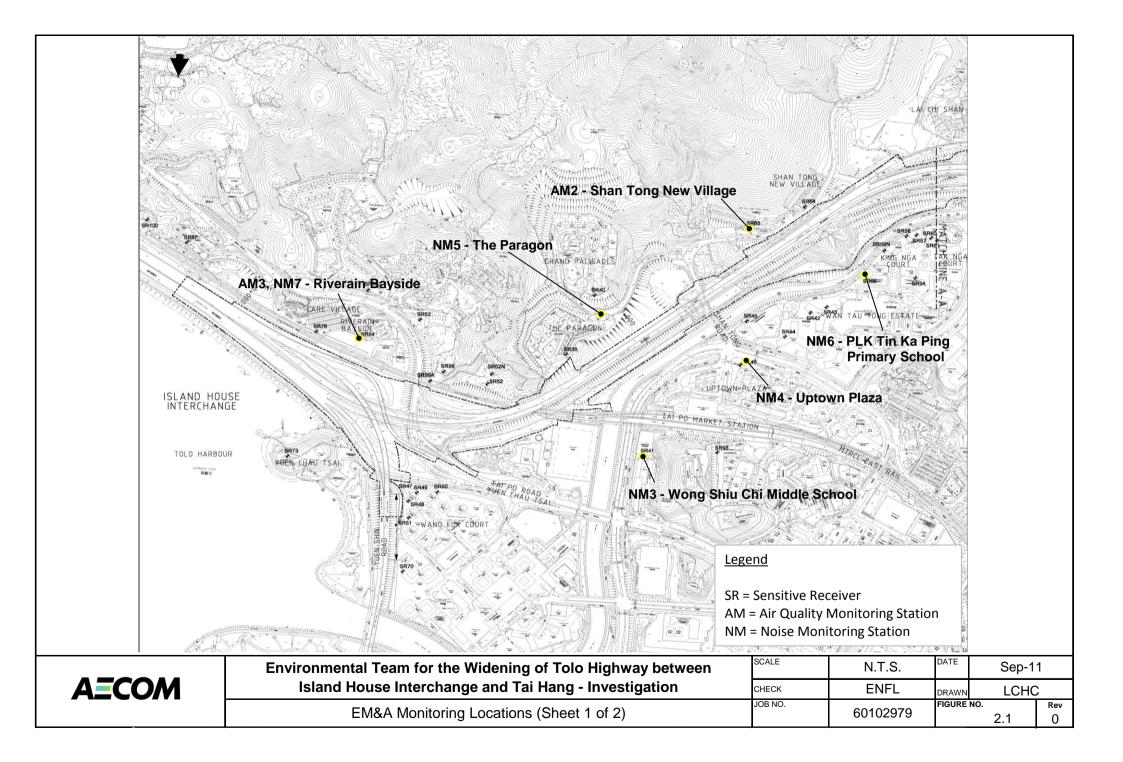
- C&D materials and wastes, general refuse should be sorted properly and removed timely.
- All chemical containers and oil drums should be properly stored.
- All plants and vehicles on site should be properly maintained to prevent oil leakage.
- All drain holes of the drip trays utilized within works 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.

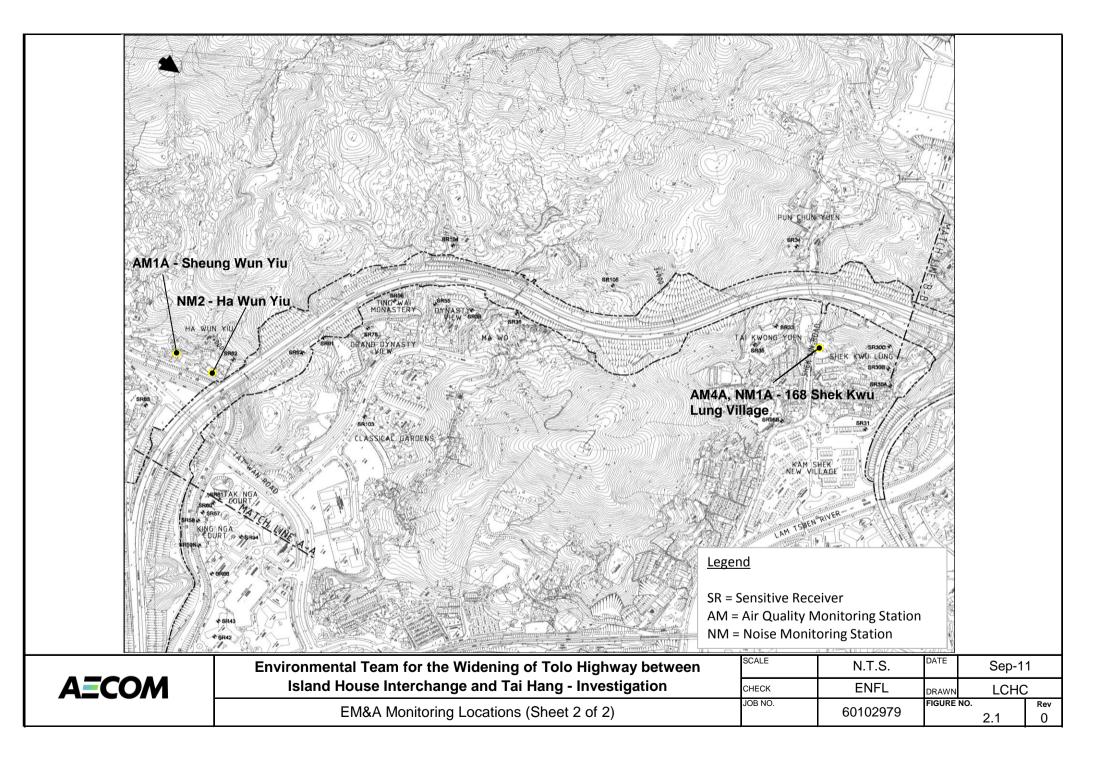
### Landscape and Visual Impact

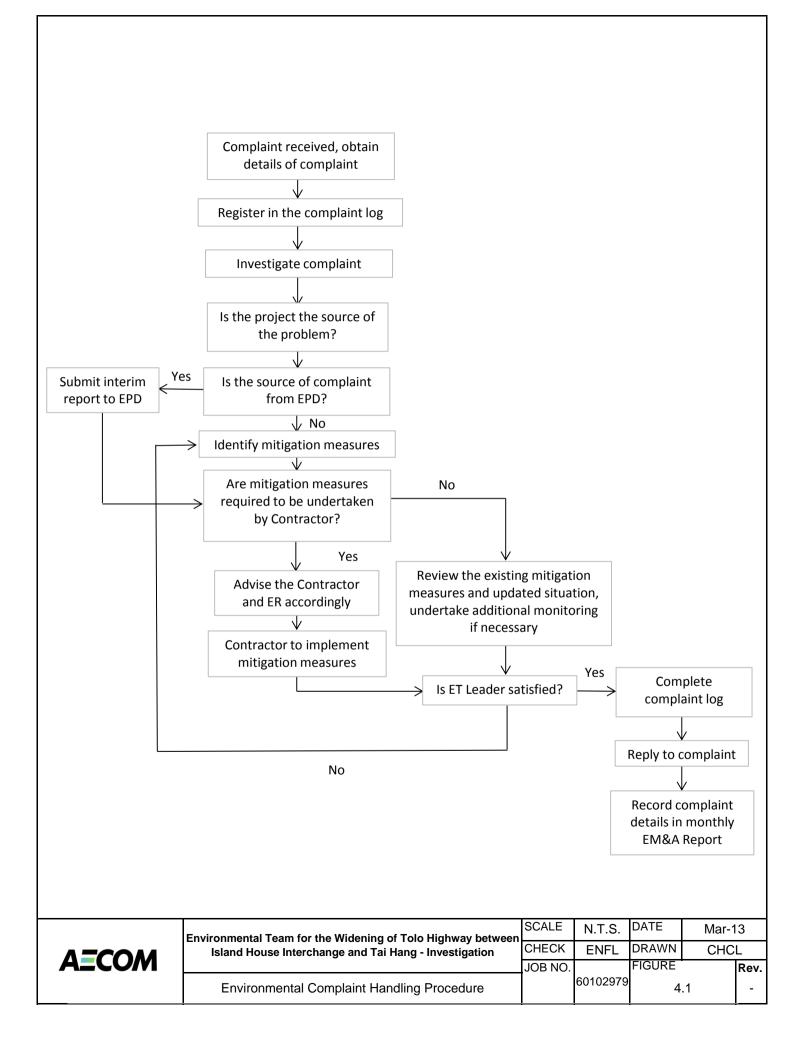
• All retained trees should be properly fenced off at the works area.

FIGURES

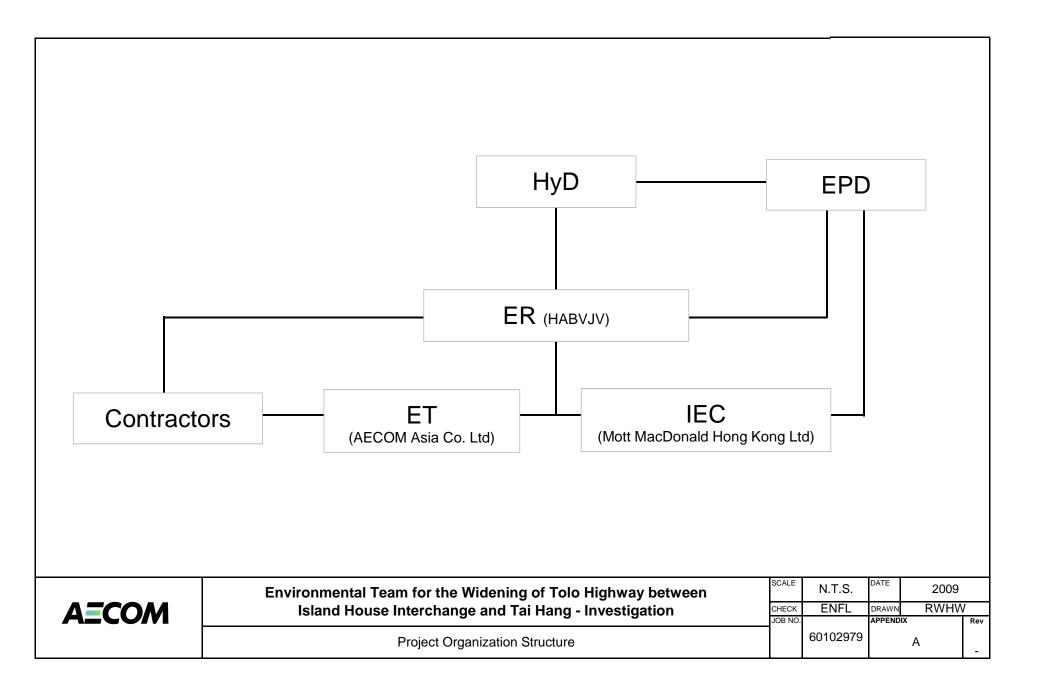








APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

ivity ID	Activity Name	Original	Start	Finish	2013					2014		
		Durat			er Decemi 7 24 01 08 15		29   0	January 5   12   1		Febr 02 09		Mar 0 02 0
KEY DATES												
Section Complet												
Section Complet Key Date	Ion Date											
KD-300900	KD9 Section 9 Area SA1, 3 to 9A Road Maintenance (1580)	0		23-Dec-13*		♦ KE	9 Sec	tion 9 Ai	rea SA	1. 3 to 9	Road	Maintena
KD-300200	KD2 Section 2 Areas SA8,SA9 + SA9A Work (1052d)	0		27-Feb-14*								KD2 S
REMAINDER (	OF SOFT LANDSCAPE: SECT. 6 WORKS											
Landscaping Wo												
Landscape Work												
S6-212800	Remainder Irrigation + Landscape Soft Works	30	28-Feb-14	29-Mar-14								
<b>ROUTINE MAI</b>	NTENANCE: SECT. 9 WORKS											
Road Maintenan	ce											
Routine Maintena	ance of Road Network											
<b>CO</b> 400000	Deed Meisterseen of Deed Natural	4.404	00 Est 40 A	00 Dec 40*	_							
S9-100000	Road Maintenance of Road Network	1401	22-Feb-10 A	23-Dec-13*			ad	aintenan	ce of H	load Net	work	
	an West Bridge Construction			-					_			
New Banyan Brid Bridge Deck	1ge								_			
S1-080870	Painting Bridge (after bridge opening)	177	20-Nov-12 A	30-Nov-13 A	Painting B	idae (s	ftor h		aning)			
S1-080970	New Banyan Bridge Completion	0	20-110V-12 A	30-Nov-13 A 30-Nov-13 A	Painting B ♦ New Banya							
New Banyan Brid		1										
Bridge Deck												
S1-090860	Painting Bridge (w/ TTA & night works)	227	19-Sep-12 A	30-Nov-13 A	Painting B	1 T (	1			1		
S1-090900	New Banyan West Bridge Completion	0		30-Nov-13 A	New Bany	in Wes	t Brid	gė Comp	pletion			
	Kwong Fuk West Kwong Fuk West Viaduct											
Noise Barrier Fou												
	Pier Head (incl. all cast-in item)-PC2B(Steel formwork)	8	11-Oct-13 A	30-Nov-13 A	Pier Head	ünd.a	ll cast	-in item)-	PC2B	Steel for	mwork)	
S1-180510b040	Pier Head (incl. all cast-in item)-PC3A (Steel formwork)	8	15-Oct-13 A	25-Nov-13 A	Pier Head (in	`i i	1	1 1		1 1	1 1 1	
S1-180510A040		9	21-Oct-13 A	31-Dec-13				r Head (			1 21	11
S1-180510b020	Pier Head (incl. all cast-in item)-PC1A (Tradition formwork)	8	23-Oct-13 A	30-Nov-13 A	Pier Head	· · · · · ·				11 I.		
S1-180510b050 S1-180700A	Pier Head (incl. all cast-in item)-PC4A (Steel formwork) KFWV structural steel, (bay 1-5)	8 18	30-Oct-13 A 24-Feb-14	05-Dec-13 A 15-Mar-14	Pier He	ad (inc	i ali c	ast-in ite	m)-PC	4A (Stee	tormwc	prk)
S1-180810	KFWV structural steel, (bay 5-7)	26	24-Feb-14	25-Mar-14								1 1
S1-180800	KFWV Panel Installation, (bay 1-5)	14	17-Mar-14	01-Apr-14								
TCSS Works/Othe	er Utlities											
S1-180905	Civl prov. works (CPW)-TCSS Pillar Box B	18	09-Jan-14	29-Jan-14					<u> </u>	Civlprov	. works	(CPW)-
TCSS Works												
New Sign Gantry	/ Construction											
G18 (VO205 Slip F	Road)											
GS1778	Design information for Footing besides Slip road (pending for Engin	45	21-Aug-13 A	20-Nov-13 A	Design information	n for F	ooținț	g beside:				
GS1810 GS1792	G18 Footing construction besides Slip road VO341 - Reconstruct existing drain pipe at G18 LHS footing issued	25 0	20-Nov-13 A 20-Nov-13 A	20-Jan-14	VO341 - Recons	ruct dy	ietina	drain bir	I	ooting c	1 1	1
GS1800	Design information by Engineer for footing construction available (C	0	21-Nov-13 A		<ul> <li>Design informati</li> </ul>							
GS1860	Design information by Engineer for existing NB modification availabe	0	09-Jan-14					Desigi	n infor	nation b	-	10 0
GS1802	VO341 - Reconstruct existing drain pipe at G18 LHS footing	20	21-Jan-14	21-Feb-14								0341 - F
GS1870	Existing NB modification	14	22-Feb-14	10-Mar-14								
GS1790	Erect column besides slip road & Gantry Beam	4	11-Mar-14	14-Mar-14					_			
Existing Sign Ga	ntry Modification											
GS2650	Carry out Sign Gantry modification (LCS, TCSS etc)-New Gantry	14	15-Mar-14	31-Mar-14								
TCSS E&M Work		14	10-1vid1=14	5 i fividi = 14								
S1-700075	T&C - Lighting	20	15-Mar-14	07-Apr-14								
S1-700080	T&C - power supply system to TCSS	20	15-Mar-14	07-Apr-14								
Southbound Wo	ork- Ret. Wall, Noise B, Rd	1										
NB6, and Slope S												
High Mast Lightin	ng											
S1-203068	Install/delete lamps at high mast HM2 & HM3	18	20-Dec-13	11-Jan-14		· ·	1	📕 Insta	ll/dele	te lamps	at high r	mast HM
Noise Barrier NB												
S1-207055	NB production period	76	10-Apr-13 A	15-Feb-14							i i'	oduction
S1-207060	NB6 Structural Steel	6 5	17-Feb-14	22-Feb-14							1	B6 Struc
S1-208060	NB6 NB Panels	5	24-Feb-14	28-Feb-14								NB6 N
Road Lighting/ or		00	<u>∧7   4 4</u>	00						Cabl		م م العد الع
S1-700050 S1-203067	Cabling works for utilities/Lighting Relocate pillar box for high mast HM1 - HM10	20 18	07-Jan-14 09-Jan-14	29-Jan-14 29-Jan-14	-			: :	- i - I	Cabling Relocate		16 i i
S1-203067	Pillar Box + MCB Board installation	18	09-Jan-14 09-Jan-14	29-Jan-14 29-Jan-14				: :	- 1	Pillar Bo		
Cut Slope S4		10	55-Jail-14	20-0all-14								
S1-031060B	Cut Slope S4 - drainage/ u channels	20	15-Oct-13 A	29-Jan-14						Cut Slop	e S4 - d	lrain ade/
	, Ch 0-300, after NB3											
TCSS Works/Othe												
S1-035045	TCSS P57 - footing	14	20-Nov-13 A	04-Jan-14		<u> </u>		r¢ss þ5	7 - foc	ting		
		С	ontract: HY/20	08/09								
		na of Te			av		<b>T</b> 6	0 M	4h a 17		<b>.</b>	mme
	Wideni			aniino Hinnw			. nr6			~ ~ ~ ~ ·		
		•	olo Highway / I		-				tns R	olling	rogra	mine
		•	House Interch		-	fc		Period of		-	-	

tivity ID	Activity Name	Original Durat		Finish	2013 er Decemb	
S1-035055	TCSS S167 - footing	14	06-Jan-14	21-Jan-14		22         29         05         12         19         26         02         09         16         23         02         09         1           TCSS S167 - footing
Road Lighting/ o		14	00-Jan-14	21-Jan-14		
S1-051215	Public Lighting - install Lamp Pole + Lamps	18	26-Nov-13 A	30-Nov-13 A	Public Light	ing - install Lamp Pole + Lamps
S1-051215A	Public Lighting - cabling works	18	04-Jan-14*	24-Jan-14		Public Lighting - cabling works
S1-051215B	Public Lighting - power supply connection & test	18	04-Jan-14	24-Jan-14		Public Lighting - power supply
Roadworks	:		·			
S1-051205	Roadworks- 2nd TTA - Slow lane	26	20-Oct-13 A	28-Nov-13 A	Roadworks	2nd TTA - Slow lane
S1-051210 S1-051230	Roadworks- 3rd TTA - middle lane Roadworks- 4th TTA - fast lane	18 26	29-Nov-13 A 30-Dec-13	28-Dec-13 28-Jan-14		Roadworks- 3rd TTA - middle lane Roadworks- 4th TTA - fast la
	64A, after TB1 demolition	20	30-Dec-13	20-3411-14		
	6 (remaining 1 bay after TB1 removal)					
S1-208130	NB6 Structural Steel	10	17-Feb-14*	27-Feb-14		NB6 Stru
S1-208135	NB6 NB Panels	6	28-Feb-14	06-Mar-14		NB6
Cut Slope S4A						
S1-208140A	Cut Slope S4A - excavation	30	24-Oct-13 A	30-Dec-13		Cut Slope S4A - excavation
S1-208140B	Cut Slope S4A - u channels	30	31-Dec-13	12-Feb-14		Cut Slope S4A - u
	3 & F124, after TB2 dem.					
High Mast Lightin						
S1-200112	High Mast HM5 - footing + relocation + lamp	30	13-Jan-14*	25-Feb-14		High Mast
Noise Barrier NB			44 Nov 42 A	00 Nov 40 A		
S1-208120 S1-207110	W3A construction NB11 Structural Steel	14	14-Nov-13 A 17-Feb-14*	22-Nov-13 A 27-Feb-14	W3A constructio	n 🗖 NB11 Str
S1-208110	NB11 NB Panels	10	28-Feb-14	11-Mar-14		
Cut Slope S4B, S						
S1-031040A	Cut Slope S4B, S4C - excavation	21	17-Feb-14*	12-Mar-14	1	
S1-031040B	Cut Slope S4B, S4C - drainage/ channels	48	17-Feb-14	12-Apr-14	┨┊ │ ┊ ┊┃	
South Bound Ro	ad and Drain, Ch 300-500					
Road Drainage						
S1-051347	Road Drainage - pipelayinng + manhole, L=200	7	30-Dec-13	06-Jan-14		Road Drainage - pipelayinng + manhole, L
Firemain		I	1			
S1-051305	Firemain- excav, pipe install + pit/new hydrants	14	20-Dec-13	07-Jan-14		Firemain- excav, pipe install + pit/new hyc
TCSS Works/Oth	er Utlities	1	4	4		
S1-051325	Utilities & TCSS buried ducts	24	30-Dec-13	25-Jan-14		Utilities & TCSS buried ducts
S1-051303	Civl prov. works (CPW)- TCSS Pillar Box A	18	09-Jan-14	29-Jan-14		Civi prov. works (CPW)- TC
Road Lighting/ o						
S1-051350 S1-051350A	Public Lighting - Lamp Pole + Lamps Public Lighting - cabling works	18	26-Nov-13 A 30-Dec-13	07-Jan-14 18-Jan-14		Public Lighting - Lamp Pole + Lamps
S1-051350A	Public Lighting - cabling works Public Lighting - power supply connection & test	18	30-Dec-13	18-Jan-14		Public Lighting - cauling works
Roadworks	Tublic Lighting - power supply connection a test	10	30-200-13	10-0411-14		
S1-051340	Roadworks- 2nd TTA - Slow lane	11	05-Nov-13 A	02-Dec-13 A	Roadwork	s- 2nd TTA - Slow lane
S1-051345	Roadworks- 3rd TTA - middle lane	18	09-Dec-13 A	28-Dec-13		Roadworks- 3rd TTA - middle lane
S1-051355	Roadworks- 4th TTA - Fast lane	19	07-Jan-14	28-Jan-14		Roadworks- 4th TTA - Fast
S1-051360	South Bound Road CH300-500 Complete	0	29-Jan-14			◆ South Bound Road CH300+
TCSS HUB (near	r KFW Viaduct)					
TCSS Hub					_	
S1-700030 S1-700020	CLP Cable laying and provide power TCSS HUB - E&M	180 40	15-May-13 A 21-Oct-13 A	18-Jan-14 10-Dec-13 A		CLP Cable laying and provide pow
TCSS HUB (Ma I		40	21-001-13 A	10-Dec-13 A		
TCSS Hub	,					
S1-700190	TCSS HUB - E&M	40	23-Sep-13 A	10-Dec-13 A		SHUB - E&M
<b>Central Median</b>	Work- Noise Barrier + Road/Drain					
Noise Barrier NE	33 CH0-357					
Road Lighting/ o	_		1	1		
S1-208040	Public Lighting - Lamp Pole + Lamps	18	22-Aug-13 A	21-Jan-14		Public Lighting - Lamp Pole + La
S1-208040A S1-208040B	Public Lighting - cabling works Public Lighting - power supply connection & test	18	22-Aug-13 A 01-Jan-14	21-Jan-14 21-Jan-14		Public Lighting - cabling works Public Lighting - power supply co
	10 CH444-500,after TB2 demolition	10		21 dan 11		
Noise Barrier Fo						
S1-200094	Pending VO for searching existing ducting for TCSS wo	rks 10	20-Dec-13	02-Jan-14		Pending VO for searching existing ducting fo
Noise Barrier Str	uctural Steel & Panels					
S1-207100	NB10 Structural Steel + Lighting	12	02-Nov-13 A	15-Jan-14		NB10 Structural Steel + Lighting
S1-208100	NB10 NB Panels	12	16-Jan-14*	29-Jan-14		NB10 NB Panels
Northbound Wo	rk- Ret. Wall, Noise B, Rd					
	1, NB2 Ch200-300					
Noise Barrier NB			1			
S1-208015	Northbound work Complete	0	10-Feb-14			Northbound work Control
Cut Slope S1						
S1-031015020 S1-031015015	Fill Slope S1- drain age Fill Slope S1- backfilling (remaining 50% after relocation	26 n of HM7) 57	18-Oct-13 A 20-Nov-13 A	30-Jan-14 27-Jan-14		Fill Slope S1- drainage
	Dr, Ch 0-300, after NB3		20-110V-13 A	21 Jall 14		
Roadworks						
S1-051115	Roadworks- 3rd TTA (middle lane)	18	21-Oct-13 A	21-Nov-13 A	Roadworks- 3rd	TA (middle lane)
S1-051135	Drainage at Slow Lane	15	20-Nov-13 A	10-Jan-14		Drainage at Slow Lane
S1-051137	Roadworks- 4th TTA (Slow lane)	12 0	26-Nov-13 A	10-Jan-14		Roadworks 4th TTA (Slow lane) ◆ Implement TTA
S1-051145		0	11-Jan-14			
		C	Contract: HY/20	08/09		
		\A/;	ala llatara di	Contine 111-1	<b>.</b>	
		Widening of T	olo Highway / I	-aniing Highwa	ау	Three Months Rolling Programme
		Between Island	House Interch	ange and Fan	ling	for the Period of 21 Dec 2013 to 20 Mar 2014
		Between Island Stage 1 - Between Is		-	-	for the Period of 21 Dec 2013 to 20 Mar 2014

Activity ID	Activity Name	Original	Start	Finish	2013				2014		
Activity ib		Durat	Start	1 111311	er Decemi 7 24 01 08 15			nuary	Febr	uary	March 3 02 09 16
Slip Rd B after B	anyan Br. Completion					<u>    -</u>	00		20 02 03	10120	
Slip Rd B					_						
S1-051150	Slip Road B - drainage + road reconstruction anyan West Completion	193	11-Oct-12 A	10-Jan-14		1 1 1 1		Slip Roa	id B - draina	ige + roa	d reconstruct
Slip Rd A										· · · · · · · · · · · · · · · · · · ·	
S1-051155	Slip Road A - drainage + road reconstruction	175	20-Oct-12 A	29-Jan-14		· ·			Slip Roa	ad A - dr	ainage + roac
	after TB1 demolition					+ +				+ +	
High Mast Lightin S1-031037	High Mast HM6 - footing, relocation + lamp	10	14-Jan-14*	24-Jan-14	-				High Mast	HM6 - fo	oting, relocati
S1-031039	High Mast HM10 - install/delete lamps	6	25-Jan-14	10-Feb-14					T: :	1 1	st HM10 - ins
Noise Barrier NB	2										
S1-031055	NB2 Structural Steel	10	17-Feb-14*	27-Feb-14							NB2 Struct
S1-031065 Cut Slope S2	NB2 NB Panels	10	28-Feb-14	11-Mar-14						<u> </u>	NB2
S1-031025B	Cut Slope S2- channel	30	27-Jan-14	11-Mar-14	-						Cut
NB9, Slope F121	, S5, (after TB2 demolition)										
Noise Barrier NB	-			1							
S1-200130	NB9 Structural Steel	5	17-Feb-14*	21-Feb-14							B9 Structural
S1-200135 Cut Slope S5	NB9 NB Panels	5	22-Feb-14	27-Feb-14							NB9 NB Pa
S1-200140	Slope F121 + S5	28	14-Jan-14*	24-Feb-14	-						Slope F121 +
North Bound Ro	ad and Drain, Ch 300-500			1							
Road Drainage											
S1-200155 Firemain	Road Drainage - pipelayinng + manhole	15	22-Nov-13 A	08-Jan-14				oad Dra	inage - pipe	layinng	+ manhole
S1-200170	Firemain- excav, pipe install + pit/new hydrants	15	10-Jan-14*	27-Jan-14					Firemain	excav.	pipe in stall +
TCSS Works/Oth				·		1 1 1 1 1 1 1 1 1 1					
S1-200180	Utilities & TCSS buried ducts	15	20-Dec-13*	08-Jan-14				tilities &	TCSS burie	d ducts	
Road Lighting/ or											
S1-200205 S1-200175	Public Lighting - Lamp Pole + Lamps Public Lighting - buried ducts	15 15	10-Dec-13 A 10-Jan-14*	27-Jan-14 27-Jan-14		1 I 1 I 1 I		1 1	PublicLio PublicLio	Jhting - L Jhting - t	.amp Pole + I puried ducts
Roadworks										,	
S1-200190	Roadworks - 2nd TTA - Slow lane	20	07-Nov-13 A	14-Dec-13 A	R	adwor	ks - 2nd	TTA - SI	ow lan e		
S1-200195	Roadworks - 3rd TTA - middle lane	14	16-Dec-13 A	28-Dec-13		<u> </u>	1 1		TTA - midd	1 1	
S1-200200 S1-200210	Roadworks - 4th TTA - fast lane VO339 Modification of the Existing Road Markings	6 5	30-Dec-13 06-Jan-14	04-Jan-14 10-Jan-14	_	-			- 4th TTA - 1 Acdification		xisting Road I
S1-200210	complete	0	27-Jan-14	10-0411-14					complete		
Z2: CH 500 to	CH 1100: SECT. 4 WORKS										
	o Ch1100 (Section 4 Works)										
	1) - Diversion of Existing Stormwater Drain in Kwong Fuk Pa	ark									
VO28-1080 VO28-1085	Construct Half to manhole P (18m) (sheet pile, trench excavation, p Town Gas installation works (from main to complete connection to		19-Aug-13 A 05-Dec-13 A	04-Dec-13 A 25-Jan-14	Constru	t Half t	o manho	ole P (18			h excavation on works (fro
VO28-1085 VO28-1090	Backfill Topsoil Manhole Z to P	18	27-Jan-14	25-Jan-14 25-Feb-14					Town Gas		Backfill Tops
VO28-1150	Completion of VO28	0		25-Feb-14						•	Completion
	CCTV+ E&M Works										
TCSS E&M Work	s & Handover					+ +					
S4-208355	Cabling works for Utilities/TCSS/Lighting	22	20-Sep-13 A	15-Jan-14	_			Cabli	ng works fo	r I Itilitios	/TCS\$/Lightir
S4-208355 S4-208370	T&C - power supply system to TCSS/Lighting	22	16-Jan-14	21-Feb-14	-						&C - power si
Section Comple	tion										
Section Complet	lion Date										
		0			_						
KD-300400A	ZONE 2 COMPLETE - KD4 Section 4	0		25-Feb-14							ŻONE 2 COI
New Sign Gantry	/ Construction										
G20											
GS1820	Footing for SL (NB16 bay 11)	20	18-Nov-13 A	09-Dec-13 A			L (NB16	bay 11)			
GS1840 GS1850	Erect Column SL Erect Gantry Beam	4	10-Dec-13 A 10-Dec-13 A	10-Dec-13 A 10-Dec-13 A	I Erec						
G63			10-DCC-10 A	10-DCC-10 A			, Beam				
GS2200	Erect Gantry Beam	4	18-Dec-13 A	18-Dec-13 A		Erect (	Santry B	eam			
<b>G64</b>	Front column (EL)		10 D 10 1	10 Dec 40 1							
GS2255 GS2260	Erect column (FL) Erect Gantry Beam	4	12-Dec-13 A 12-Dec-13 A	12-Dec-13 A 12-Dec-13 A			nn (FL) ry Beam				
	ound Work- Ret. Wall, Noise B, Rd			,							
	Deck + Noise Barrier										
Bridge Deck	Nation for miss David		00 B 17	45 1							
S4-N01375 S4-N01385	Noise barrier Post	15 9	30-Dec-13*	15-Jan-14 25-Jan-14	_				barrier Pos	1 1	
	Noise barrier panel <b>be S7+NB15, NB12+Slip Rd L</b>	3	16-Jan-14	20-Jall-14					Noise barr		
Noise Barrier NB											
S4-208120	NB12 NB Panels	454	01-Feb-12 A	20-Dec-13		NB12	NB Par				
S4-208260	NB12 (bay 1-3) NB structure steel	7	20-Dec-13*	30-Dec-13		<u> </u>	NB12 (	bay 1-3)	NB structur	e steel	
		C	ontract: HY/20	08/09							
	mme				<b>.</b>						
	Widen	ning of To	lo Highway / I	aniing Highw	ау		Three	Month	s Rolling	Progra	mme
	Between Betwee	en Island	House Interch	ange and Fan	ling	fo	r the Pe	riod of 2	21 Dec 2013	3 to 20 N	lar 2014
	(Stage 1 - B	etween Is	land House In	terchange and	l Ma Wo)						
		-			-						

y ID	Activity Name	Original Durat	Start	Finish	er	2013 Decen				uary		ruary	Ma	
S4-208270	NB12 (bay 1-3) NB Panel	7	31-Dec-13	07-Jan-14	7 24 0	1   08   1	5 22	29			-β) NB P		02	0
Cut Slope S6 and	Slip Rd L			1			ł							
S1-203065A	Cut slope S6 - excavation	403	01-Feb-12 A	31-Dec-13					cut slop	e S6 - e	cavation	í		
S1-203065B	Cut slope S6 - drainage/U-channels	11	01-Jan-14	13-Jan-14			1			Cut slop	e S6 - dr	ainage/U	chann	el
Fill Slope S7				-			ł							-
S4-031070A	Fill Slope S7- backfilling to RW coping level	1066	07-May-10 A	23-Jan-14		1 1 1 1	 		1 I 1 I	📛 ¦Fi	I Slope S	87- backfi		
S4-031070B	Fill Slope S7- backfilling to road level	1016	20-Jul-10 A	13-Feb-14								Fill Slo		
S4-031070C	Fill Slope S7- u channels	24	20-Jan-14	25-Feb-14							: :		Fill Slo	
S4-031070D	Fill Slope S7- metal works + hand rails etc.	18	12-Feb-14	04-Mar-14									Fi	-il
Retaining Wall W														
S4-035070A	Retaining Wall W7, excav + base slab + wall stem	37	20-Jul-13 A	10-Dec-13 A		Re	aining	Wa	W7¦, e	- I - I		+ wall ste	1 1	
S4-035070B	Retaining Wall W7, backfill (assumed rockfill as VO No. 90) Road&Drain+Utilities	23	11-Dec-13 A	15-Jan-14			1	!		Retaini	ng wall v	N7, back	till (ass	SI
TCSS Works/Othe								-						
		00	00 <b>C</b> an 40 A	45 100 44	_		1			<b>C</b> h d h m				_
S4-512850 S4-512880	CivI prov. works (CPW)- TCSS Pillar Box C Utilities+ TCSS + CPW- SC 63/S63	20	20-Sep-13 A 16-Oct-13 A	15-Jan-14 15-Jan-14		1 1	1		ı ı			(CPW)- + CPW- \$		
S4-031160	Power supply cable ducts	31	20-Nov-13 A	15-Jan-14			!	:	!!!			able ducts	1 1	ĺ
Road Lighting/ or								-						_
S4-031178	Public lighting - Lamp Pole + Lamps	12	18-Oct-13 A	13-Jan-14			1	:	<u> </u>	Public liq	hting - L	amp Pole	) + Lam	n
S4-031178A	Public Lighting - cabling works	6	18-Oct-13 A	17-Jan-14								ı-cabling		
S4-031178A10	Public Lighting - cabling works	13	20-Dec-13	06-Jan-14			-	-	Pub	lic Lightir	ng - cabli	ng works		
S4-512930	Public lighting - Lamp Pole + Lamps	18	07-Jan-14	27-Jan-14			i.			÷	Publiclig	ghting - La	amp Pc	0
S4-031178B	Public Lighting - power supply connection & test	4	14-Jan-14	17-Jan-14						Public	Lighting	- power	supply	0
S4-031178B10	Public Lighting - power supply connection & test	12	14-Jan-14	27-Jan-14							Public Li	ghting - p	ower s	SI
Roadworks	I			1			i							-
S4-512900	Roadworks- subbase + subsoil drain + gully connect	48	20-Jun-13 A	23-Nov-13 A	Roadv	works-s	ubbase	; ;+s	ubsoild	rain + gu	Ily conne	ct		
S4-512910	Roadworks - base course to friction course	6	02-Dec-13 A	07-Dec-13 A							ion cours			
S4-512920	Roadworks - road marking + furnitures	6	09-Dec-13 A	18-Jan-14			, ,		1 I 1 I			oad mark		
S4-031185	Implement TTA - Divert to completed southbound (RW 8 Bay 1 ~ E	3a 5	16-Dec-13 A	20-Dec-13 A			Imp	lem	ent TTA	- Divert	to comple	eted sout	hbounc	d
<u> </u>	Median - Ret. Wall, Noise B, Rd													
loise Barrier NB	10, NB14, NB17 Foundation Works						i.							
Noise Barrier NB	10													
S4-203195	NB10 (5,6 bays) Steel Column & NB Panel	14	28-Nov-13 A	15-Jan-14		1 I	1	:	1 1	NB10 (	5,6 bays)	Steel Co	lumn 8	Z
Noise Barrier NB							i.							
	NB14 (bay 1-8) Steel Column & NB Panel	11	16-Nov-13 A	17-Jan-14			1	:	1 I	<b>NB</b> 14	(bay 1-8	3) Steel C	olumn	8
Noise Barrier NB <sup>*</sup>														
	NB17 (Bay 21-26)Steel Column & NB Panel	12	17-Sep-13 A	22-Nov-13 A	■ NB17	(Bay 21-	26)Ste						, Donald	
	NB17 (Bay 1-8)Steel Column & NB Panel Road&Drain+Utilities	21	22-Nov-13 A	31-Dec-13			1			ay 1-8)	steel Coll	umn & NB	Panel	-
	, Road&Dialit+Othtues													_
Road Drainage	Deed Designers an inclusion of a merch of	20	04 Aug 40 A	07 Dec 42 A										
S4-208285 TCSS Works/Othe	Road Drainage - pipela yinng + manhole	30	01-Aug-13 A	07-Dec-13 A	-	Road		age	pipela	yinng + n	lannoie			-
S4-208305	Power supply cable ducts	36	14-Aug-13 A	15-Jan-14			i			Power		able ducts		
S4-208300	Utilities+TCSS buried ducts + civil prov. works	48	16-Aug-13 A	15-Jan-14	-	1 1	1			1 1		puried duo	11 1	v
Road Lighting/ or	· ·							-						-
S4-208325A	Public Lighting - cabling works	18	20-Sep-13 A	15-Jan-14						PublicI	_ighting -	cabling	works	
S4-208325	Public lighting - Lamp Pole + Lamps	24	20-Dec-13	18-Jan-14			Ļ.					- Lamp F		L
S4-208325B	Public Lighting - power supply connection & test	18	30-Dec-13	18-Jan-14						Publi	cLighting	g - power	supply	,
Roadworks														
S4-208310	Roadworks- subbase + subsoil drain + gully connect	40	24-Aug-13 A	23-Nov-13 A	Road	works-s	ubbase	; + s	ubsoild	rain + gu	lly conne	ct		
S4-208315	Roadworks - base course to friction course	11	20-Dec-13	03-Jan-14			'		1 1			se to fricti	on cou	JI
S4-208320	Roadworks - road marking + furnitures	16	20-Dec-13	09-Jan-14			; 	:	R	adworks	road m	narking +	furnitur	n
S4-208335	Central Median Works Complete	0	18-Jan-14							🔶 Centr	al Media	n Works (	Comple	e
tage 2: Northbo	ound Work- Ret. Wall, Noise B, Rd						1							-
-	m Kam Railway Br. +Noise B.													-
							1							-
S4-193840	Road Works	9	21-Oct-13 A	07-Dec-13 A		Roac	l Work	ŝ						
S4-193890	Lam Kam Railway Bridge Modification Completion	0		07-Dec-13 A		🔶 Lam	Kam R	ailw	ay Bridg	je Modifi	cation Co	mpletion		
S4-193900	LKRB NB plinth at slow lane (besides W4A)	75	20-Dec-13	28-Mar-14			<b>—</b>					<b></b>	÷	
loise Barrier NB	16						1							
Noise Barrier Fou	Indation Works													
S4-513145	NB16 - (5-7) bay Remaining Wall Stem & plinth	42	06-Dec-13 A	13-Feb-14			1		. I. I. I.			NB16 -	1 1	
S4-513140	NB16 - (18,19) bay Remaining Wall Stem	18	19-Dec-13 A	31-Dec-13			<b>•</b>		NB16 - (	(18,19) b	ay Rema	ining Wa	I Stem	1
S4-513150	NB16 - Drainage work	26	14-Feb-14	15-Mar-14			i -							1
S4-513160	NB16 - Backfilling	12	17-Mar-14	29-Mar-14								· · ·		
<b>v</b>	VAA & NB13 & Slip Rd M						1							_
Retaining Wall W4	8													
S4-03504A040	RW W4A (last 4 bays) excavation + base slab (I&P)	30	30-Dec-13	12-Mar-14				-				<b></b>	÷	•
S4-03504A050	RW W4A (last 4 bays), wall stem (I&P)	30	14-Mar-14	21-May-14										_
Noise Barrier NB	13													
S4-207130	NB13 Structural Steel	5	30-Dec-13*	03-Jan-14				<b> </b>	NB13	Structura	Steel			
S4-208130	NB13 NB Panels	8	09-Jan-14	17-Jan-14	1					B NB13	NB Pane	ls		
IB: CH500-1100,	Road&Drain+Utilities													-
Road Drainage														-
S4-031210	Road Drainage - pipela yinng + manhole	44	02-Jul-13 A	15-Jan-14			1			Road D	rainage	- pipelayiı	ning + n	n
Firemain							-							
S4-031220	Firemain- excav, pipe install + pit/new hydrants	36	25-Jul-13 A	15-Jan-14		1 1		·		Firema	n- excav	, pipe ins	tall + p	)i
		Co	ontract: HY/20	08/09										-
	Wid	Inning of To	Ja Highway / I	anling Highw	av			т	nroo M	onthe	Dolling	Drogra	mme	
		lening of 10	no nigriway / i	annigingin	_ <b>_</b>					Unitins	Noming	Tiogra		
		•	•	ange and Fan	-						-	3 to 20 N		

T000 M/s al - /0/1	Activity Name		Original Durat	Start	Finish	2013           er         Decen           7         24         01         08         1				2014 Februa 02 09 1		March
1055 Works/Oth	er Utlities			1								02 00
S4-031225	Utilities + TCSS + CPW- SC 20/S20		36	17-Jul-13 A	15-Jan-14					+ TC\$S + C		C 20/S20
S4-031230	Power supply cable ducts		36	20-Jul-13 A	15-Jan-14				Power s	upply cable	ducts	
Road Lighting/ o S4-031250A	Public Lighting - cabling works		18	04-Oct-13 A	15-Jan-14	_			Public I	ighting - cat		orke
S4-031250	Public lighting - Lamp Pole + Lamps		24	20-Dec-13	18-Jan-14			i i		lighting - La		
S4-031250B	Public Lighting - power supply connection & tea	st	18	30-Dec-13	18-Jan-14				Public	Lighting + p	ower su	upply con
Roadworks												
A1040	Road Re-construction for Lane 4 (Fast Lane)		22	09-Oct-13 A	30-Nov-13 A	Road Re						
A1060	Road Re-construction for Lane 3 (2nd middle I	,	22	21-Oct-13 A	30-Nov-13 A	Road Re				l middle lan		
A1080 A1010	Road Re-construction for Lane 2 (1st middle la NB14 (bay1-8) backfilling work complete	ane)	22 0	15-Nov-13 A	28-Dec-13 20-Nov-13 A	▶ NB14 (bay1-8) I				on for Lane	2 (1st n	modie lar
A1070	Stage 3 (Open Lane 3,4 & Close Lane 1,2)		0		07-Dec-13 A		1 I T		1 1	Lane 1,2)		
A1090	Stage 4 (Open Lane 2 & Close HS)		0		28-Dec-13		•	Stage 4 (O	Open Lan	e 2 & Close	HS)	
A1100	Road Re-construction for Lane 1 (slow lane)		28	30-Dec-13	30-Jan-14					Road Re-	constru	ction for L
A1110	4 lane opening Complete (including slip Road)		0		30-Jan-14				•	4 lane ope		11 - 11
S4-031260	Northbound road substantial completed in Zon	e 2	0	10-Feb-14						Nor	rthboun	d road su
:3: CH 1100 t	o CH 2000: SECT. 4 WORKS											
Section Comple	etion											
Section Comple	tion Date											
KD-300400B	ZONE 3 COMPLETE - KD4 Section 4		0		28-Feb-14						•	ZONE 3
CSS Works												
New Sign Gantry	y construction											
GS1900	Erect Column SL/FL		4	24-May-13 A	05-Dec-13 A		) Dolumni S					
GS1900 GS1910	Erect Column SL/FL Erect Gantry Beam		4	24-May-13 A 07-Dec-13 A	05-Dec-13 A 07-Dec-13 A		Gantry B					
G22												
GS1970	Erect Gantry Beam		1	22-Nov-13 A	23-Nov-13 A	Erect Gantry E	eam					
G62												
GS2135	Erect Column SL/FL		4	13-Aug-13 A	27-Dec-13			rect Colu				
GS2140	Erect Gantry Beam		4	21-Dec-13	27-Dec-13			rect Gant	ry Beam			
TCSS E&M Worl	ks & Handover											
S4-0512765	Cabling works for Utilities/TCSS/Lighting		24	20-Sep-13 A	30-Jan-14					Cabling w	orke for	l Itilitioe/
S4-0512780	T&C - power supply system to TCSS/Lighting		36	20-Sep-13 A	30-Jan-14			1 1	1 1	T&C - pow	1 1	
S4-0512785	Handover to TCSS Contractor		0		30-Jan-14				•	Handover		
Stage 1: Southb	oound Work- Ret. Wall, Noise B, Rd											
Fill Slope S13 a	nd NB21				-							
Fill Slope S13												
S4-031130C	Fill Slope S13- u channels		363	12-Mar-12 A	16-Jan-14			<u></u>	Fill Slop	e S13- u ch	nannels	
S4-031130D	Fill Slope S13- metal works + hand rails etc.		236	15-Aug-12 A	16-Jan-14				Fill Slop	e S13- met	al work	s + hand
	i L, Ret. Wall W11, W12											
Slip Rd P			005	40 1 40 4	04 D + 40 A	_						
S4-208231	Slip Rd P- road reconstruction, Stage 2 0, L=410m, Road&Drain+Utilities		265	13-Jul-12 A	21-Dec-13 A		SIIPR	a P- road	reconstr	uction, Stag	ez	
Road Lighting/ o									- i - i		1	
S4-050785B	Public Lighting - power supply connection & te							1 1			- i - li	
Roadworks		st	18	20-Dec-13	11-Jan-14			P	Public Ligh	ting - powe	r supply	connect
S4-0507845		st	18	20-Dec-13	11-Jan-14			P	Public Ligh	ting - powe	r supply	y connect
	Roadworks - base course to friction course	st	18 219	20-Dec-13 31-Aug-12 A	11-Jan-14 31-Dec-13	-				ting - powe		
S4-0507850	Roadworks - road marking + furnitures			31-Aug-12 A 31-Aug-12 A				Roadwo Roadwo	rks - base rks - roac	e course to f I marking + 1	friction of	course es
S4-0507865	Roadworks - road marking + furnitures Complete (divert SB traffic to RW10, B11A, RV		219	31-Aug-12 A	31-Dec-13			Roadwo Roadwo	rks - base rks - roac	course to f	friction of	course es
S4-0507865 Stage 3: Centra	Roadworks - road marking + furnitures Complete (divert SB traffic to RW10, B11A, RV I Median - Ret. Wall, Noise B, Rd		219 244	31-Aug-12 A 31-Aug-12 A	31-Dec-13			Roadwo Roadwo	rks - base rks - roac	e course to f I marking + 1	friction of	course es
S4-0507865 Stage 3: Centra CM: CH1260-160	Roadworks - road marking + furnitures Complete (divert SB traffic to RW10, B11A, RV I Median - Ret. Wall, Noise B, Rd 00, L=410m, Road&Drain+Utilities		219 244	31-Aug-12 A 31-Aug-12 A	31-Dec-13			Roadwo Roadwo	rks - base rks - roac	e course to f I marking + 1	friction of	course es
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth	Roadworks - road marking + furnitures Complete (divert SB traffic to RW10, B11A, RV I Median - Ret. Wall, Noise B, Rd 00, L=410m, Road&Drain+Utilities ner Utilities		219 244 0	31-Aug-12 A 31-Aug-12 A 11-Jan-14	31-Dec-13 31-Dec-13			Roadwo Roadwo	rks - base rks - roac complete (	course to f marking + t divert SB tr	friction c furniture affic to I	course es
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts		219 244	31-Aug-12 A 31-Aug-12 A	31-Dec-13			Roadwo Roadwo	rks - base rks - roac complete (	e course to f I marking + 1	friction c furniture affic to I	course es
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utlities         Power supply cable ducts         r High Mast		219 244 0 91	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A	31-Dec-13 31-Dec-13 16-Jan-14			Roadwo Roadwo	rks - base rks - roac complete ( Power s	e course to f marking + 1 divert SB tr divert sB tr	friction c furniture affic to i	course es RW10, B
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts		219 244 0	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14			Roadwo Roadwo	rks - base rks - roac complete ( Power s	e course to f I marking + 1 divert SB tr supply cable ighting - ca	friction c furniture affic to I	course es RW10, B
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works	V8 area)	219 244 0 91 91	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A	31-Dec-13 31-Dec-13 16-Jan-14			Roadwo Roadwo	rks - base rks - roac complete ( Power s	e course to f marking + 1 divert SB tr divert sB tr	iriction of furniture affic to i ducts bling wo	course ∋s RW10, B orks ∋ + Lamp
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-0512730	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public lighting - Lamp Pole + Lamps	V8 area)	219 244 0 91 91 23	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14			Roadwo Roadwo	rks - base rks - roac complete ( Power s	course to f marking + 1 divert SB tr upply cable ighting - ca ghting - ca	iriction of furniture affic to i ducts bling wo	course ∋s RW10, B orks ∋ + Lamp
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-0512730 S4-051273B	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public lighting - Lamp Pole + Lamps	V8 area)	219 244 0 91 91 23	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14			Roadwo Roadwo C	rks - base rks - roac complete ( Power s Public L Public L Public L	course to f marking + 1 divert SB tr upply cable ighting - ca ighting - po narking + ful	friction of furniture affic to f e ducts bling w mp Pole wwer sup	course es RW 10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Central CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-0512730 S4-051273B Roadworks	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utlities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - bower supply connection & text	V8 area)	219 244 0 91 91 23 12	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14			Roadwo Roadwo C	rks - base rks - roac complete ( Power s Public L Public L Public L	course to f marking + 1 divert SB tr upply cable ighting - ca ighting - po	friction of furniture affic to f e ducts bling w mp Pole wwer sup	course es RW 10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512740 Noise Barrier Str	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - bower supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels	V8 area)	219 244 0 91 91 23 12 18 0	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13			Roadwo Roadwo C	rks - base rks - roac complete ( Power s Public I Public I Public I Public V Road V	e course to f I marking + f divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fur Vorks comp	friction of furniture affic to f e ducts bling wo np Pole wwer sup rnitures	course es RW 10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - bower supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels	V8 area)	219 244 0 91 91 23 12 18	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14			Roadwo Roadwo C	rks - base rks - roac complete ( Power s Public I Public I Public I Public V Road V	course to f marking + 1 divert SB tr upply cable ighting - ca ighting - po narking + ful	friction of furniture affic to f e ducts bling wo np Pole wwer sup rnitures	course es RW 10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Central CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S2	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - bower supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels	V8 area)	219 244 0 91 91 23 12 18 0	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13			Roadwo Roadwo C	rks - base rks - roac complete ( Power s Public I Public I Public I Public V Road V	e course to f I marking + f divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fur Vorks comp	friction of furniture affic to f e ducts bling wo np Pole wwer sup rnitures	course es RW 10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         uctural Steel & Panels         NB20 & NB23 NB Panels	V8 area)	219 244 0 91 91 23 12 18 0 160	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I Road V Road V	ecourse to f I marking + 1 divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fui Vorks comp	iriction of furniture affic to i e ducts bling wo np Pole wer sup rnitures leted Panels	course es RW10, B orks e + Lamps pply conn
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AA	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation	V8 area)	219 244 0 91 91 23 12 18 0 160 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13*	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 25-Jan-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I Road V Road V	e course to f I marking + f divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fur Vorks comp	iriction of furniture affic to I e ducts bling w mp Pole wer sup rnitures leted Panels	course es RW 10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Central CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AB	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         P0, L=410m, Road&Drain+Utilities         rer Utlities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels	V8 area)	219 244 0 91 91 23 12 18 0 160	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I Road V Road V	ecourse to f I marking + 1 divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fui Vorks comp	iriction of furniture affic to I e ducts bling w mp Pole wer sup rnitures leted Panels	course es RW10, B orks e + Lamps pply conn
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AA S4-03120AB Stage 2: Northb	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & term         Roadworks - road marking + furnitures         Road Works completed         vuctural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         round Work- Ret. Wall, Noise B, Rd	V8 area)	219 244 0 91 91 23 12 18 0 160 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13*	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 25-Jan-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I Road V Road V	ecourse to f I marking + 1 divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fui Vorks comp	iriction of furniture affic to I e ducts bling w mp Pole wer sup rnitures leted Panels	course es RW10, B orks e + Lamp pply conn
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AA S4-03120AB Stage 2: Northb Modification of I	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - cabling works         Public Lighting - cabling works         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drain age/channels         round Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B	V8 area)	219 244 0 91 91 23 12 18 0 160 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13*	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 25-Jan-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I Road V Road V	ecourse to f I marking + 1 divert SB tr supply cable ighting - ca ighting - ca ighting - po narking + fui Vorks comp	iriction of furniture affic to I e ducts bling w mp Pole wer sup rnitures leted Panels	course es RW 10, B orks e + Lamp pply conn
S4-0507865         Stage 3: Central         CM: CH1260-160         TCSS Work s/Oth         S4-0512710         Road Lighting/ o         S4-051273A         S4-051273B         Roadworks         S4-0512725         S4-0512740         Noise Barrier Str         S4-208200         W20A + Slope S20A         S4-03120AA         S4-03120AB         Stage 2: Northb         Modification of L         Bridge Roadword	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         P0, L=410m, Road&Drain+Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         round Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B         ks & Furnitures	V8 area)	219 244 0 91 91 23 12 18 0 160 30 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 25-Jan-14 27-Feb-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - po narking + fu Vorks comp & NB23 NB 1 ut Slope \$2	iriction of furniture affic to i e ducts bling we np Pole wer sup rnitures leted Panels	course es RW10, B orks e + Lamp pply conr cavation Cut Slop
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AA S4-03120AB Stage 2: Northb Modification of I	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - cabling works         Public Lighting - cabling works         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drain age/channels         round Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B	V8 area)	219 244 0 91 91 23 12 18 0 160 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13*	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 25-Jan-14	Modify Coping		Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I NB20 8 NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - po narking + fu Vorks comp & NB23 NB 1 ut Slope \$2	iriction of furniture affic to i e ducts bling wo np Pole wer sup rnitures leted Panels	course es RW10, B orks e + Lamp pply conr corvation Cut Slop
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S2 Cut Slope S20A S4-03120AA S4-03120AB Stage 2: Northb Modification of I Bridge Roadworl S4-194870	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         10, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         cutural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         ound Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B         ks & Furnitures         Modify Coping (1st half from east end)-after W	V8 area)	219 244 0 91 23 12 18 0 160 30 30 30 80	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 28-Dec-13 17-Jan-14 25-Jan-14 27-Feb-14 23-Nov-13 A			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I NB20 8 NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - Lar ighting - po narking + ful Vorks comp & NB23 NB 1 ut Slope \$2	iriction of furniture affic to i e ducts bling wo np Pole wer sup rnitures leted Panels	course es RW10, E orks e + Lamp pply conr ; cavation Cut Slop
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AA S4-03120AA S4-03120AB Stage 2: Northb Modification of L Bridge Roadwork S4-194870 S4-194899	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         ound Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B         ks & Furnitures         Modify Coping (1st half from east end)-after W         Road Surfacing & Fumitures	V8 area)	219 244 0 91 91 23 12 18 0 160 30 30 30 30 30 30 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14 07-Oct-13 A 20-Dec-13	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 25-Jan-14 25-Jan-14 27-Feb-14 23-Nov-13 A 11-Jan-14	Modify Coping         Modify Coping		Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I NB20 8 NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - Lar ighting - po narking + ful Vorks comp & NB23 NB 1 ut Slope \$2	iriction of furniture affic to i e ducts bling wor np Pole wer sup rnitures leted Panels 0A - exc	course es RW10, B orks e + Lamp pply conr corks
S4-0507865 Stage 3: Central CM: CH1260-160 TCSS Works/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512740 Noise Barrier Str S4-0312740 W20A + Slope S20A S4-03120AB S4-03120AB Stage 2: Northb Modification of L Bridge Roadwork S4-194899 S4-194889	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         works & Furnitures         Modify Coping (1st half from east end)-after W         Road Surfacing & Furnitures         Install noise barrier (2nd half to west end)	V8 area)	219 244 0 91 91 23 12 18 0 160 30 30 30 30 30 30 30 30 30 30 30 30 30	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14 07-Oct-13 A 20-Dec-13 04-Jan-14	31-Dec-13 31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 28-Dec-13 17-Jan-14 28-Dec-13 25-Jan-14 27-Feb-14 23-Nov-13 A 11-Jan-14 28-Feb-14 28-Feb-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I NB20 8 NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - Lar ighting - po narking + ful Vorks comp & NB23 NB 1 ut Slope \$2	iriction of furniture affic to i e ducts bling wor np Pole wer sup rnitures leted Panels 0A - exc	course es RW10, B orks e + Lamp pply conn s cavation Cut Slop
S4-0507865 Stage 3: Centra CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AB Stage 2: Northb Modification of I Bridge Roadwork S4-194899 S4-194889	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         works & Furnitures         Modify Coping (1st half from east end)-after W         Road Surfacing & Furnitures         Install noise barrier (2nd half to west end)	V8 area) V8 area) St St 20A complete	219 244 0 91 91 23 12 18 0 160 30 30 30 30 30 30 30 30 30 5 6 5 6	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14 07-Oct-13 A 20-Dec-13 04-Jan-14 09-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 28-Dec-13 25-Jan-14 27-Feb-14 27-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14			Roadwo Roadwo C	rks - base rks - road complete ( Public L Public I Public I Public I NB20 8 NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - Lar ighting - po narking + ful Vorks comp & NB23 NB 1 ut Slope \$2	iriction of furniture affic to i e ducts bling wor np Pole wer sup rnitures leted Panels 0A - exc	course es RW10, B orks e + Lamp pply conr corks
S4-0507865 Stage 3: Central CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AB Stage 2: Northb Modification of I Bridge Roadword S4-194899 S4-194889	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         works & Furnitures         Modify Coping (1st half from east end)-after W         Road Surfacing & Furnitures         Install noise barrier (2nd half to west end)	V8 area) V8 area) St St 20A complete	219 244 0 91 91 23 12 18 0 160 30 30 30 30 30 30 30 30 30 5 6 5 6	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14 07-Oct-13 A 20-Dec-13 04-Jan-14 09-Jan-14	31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 17-Jan-14 28-Dec-13 25-Jan-14 27-Feb-14 27-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14		(1st half	Roadwo Roadwo C C C C C C C C C C C C C C C C C C C	rks - base rks - road complete ( Public L Public I Public I Public I Public I NB20 8 NB20 8	e course to f I marking + 1 divert SB tr upply cable ighting - ca ighting - ca ighting - Lar ighting - Lar ighting - po narking + ful Vorks comp & NB23 NB 1 ut Slope \$2	rriction of furniture affic to if e ducts bling wo mp Pole wer sup rnitures leted Panels 0A - exc mplete nitures	course es RW10, E orks e + Lamp pply conr cavation Cut Slop
S4-0507865         Stage 3: Central         CM: CH1260-160         TCSS Work s/Oth         S4-0512710         Road Lighting/ o         S4-051273A         S4-051273B         Roadworks         S4-0512725         S4-0512740         Noise Barrier Str         S4-03120AA         S4-03120AB         Stage 2: Northb         Modification of I         Bridge Roadword         S4-194899         S4-194889	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         wound Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B         ks & Furnitures         Modify Coping (1st half from east end)-after W         Road Surfacing & Fumitures         Install noise barrier (2nd half to west end)	V8 area) V8 area) St St 20A complete Widenin	219 244 0 91 91 23 12 18 0 160 30 30 30 30 30 30 30 30 30 30 5 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14 07-Oct-13 A 20-Dec-13 04-Jan-14 09-Jan-14 <b>5ontract: HY/20</b> olo Highway / F	31-Dec-13 31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 28-Dec-13 17-Jan-14 28-Dec-13 23-Nov-13 A 11-Jan-14 28-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14 58/09 Fanling Highwa	ay	(1st half	Roadwo Roadwo C C C C C C C C C C C C C C C C C C C	rks - base rks - road complete ( Public L Public I Public I Public I Public I Road V NB20 8 NB20 8	course to f marking + 1 divert SB tr supply cable ighting - ca ighting	rriction of furniture affic to if e ducts bling wo mp Pole wer sup rnitures leted Panels 0A - exc mp lete nitures	course es RW10, E orks e + Lamp pply conr s cavation Cut Slop
S4-0507865 Stage 3: Central CM: CH1260-160 TCSS Work s/Oth S4-0512710 Road Lighting/ o S4-051273A S4-051273B Roadworks S4-0512725 S4-0512725 S4-0512740 Noise Barrier Str S4-208200 W20A + Slope S20A S4-03120AB Stage 2: Northb Modification of I Bridge Roadword S4-194899 S4-194889	Roadworks - road marking + furnitures         Complete (divert SB traffic to RW10, B11A, RV         I Median - Ret. Wall, Noise B, Rd         00, L=410m, Road&Drain+Utilities         ner Utilities         Power supply cable ducts         r High Mast         Public Lighting - cabling works         Public Lighting - Lamp Pole + Lamps         Public Lighting - power supply connection & text         Roadworks - road marking + furnitures         Road Works completed         ructural Steel & Panels         NB20 & NB23 NB Panels         20         Cut Slope S20A - excavation         Cut Slope S20A - drainage/channels         wound Work- Ret. Wall, Noise B, Rd         Existing Bridge No. 10 + Noise B         ks & Furnitures         Modify Coping (1st half from east end)-after W         Road Surfacing & Fumitures         Install noise barrier (2nd half to west end)	V8 area) V8 area) St St 20A complete Widenin	219 244 0 91 91 23 12 18 0 160 30 30 30 30 30 30 30 30 30 30 5 5 6 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7	31-Aug-12 A 31-Aug-12 A 11-Jan-14 20-Feb-13 A 06-Aug-13 A 03-Jan-14 11-Nov-13 A 17-Jan-14 15-Dec-12 A 20-Dec-13* 15-Jan-14 07-Oct-13 A 20-Dec-13 04-Jan-14 09-Jan-14 09-Jan-14 <b>Contract: HY/20</b> olo Highway / F House Interch	31-Dec-13 31-Dec-13 31-Dec-13 16-Jan-14 16-Jan-14 16-Jan-14 28-Dec-13 28-Dec-13 17-Jan-14 28-Dec-13 23-Nov-13 A 11-Jan-14 28-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14 28-Feb-14	ay	(1st half	Roadwo Roadwo C C C C C C C C C C C C C C C C C C C	rks - base rks - road complete ( Public L Public I Public I Public I Public I Road V NB20 8 NB20 8	e course to f I marking + I divert SB tr supply cable ighting - ca ighting - ca ighting - ca ighting - po narking + ful Vorks comp & NB23 NB I vorks comp & NB23 NB I ut Slope S2	rriction of furniture affic to if e ducts bling wo mp Pole wer sup rnitures leted Panels 0A - exc mp lete nitures	course es RW10, E orks e + Lamp pply conr cavation Cut Slop

y ID	Activity Name	Original Durat	Start	Finish	2013         2014           er         December         January         February         Mar           7         24         01         08         15         22         29         05         12         19         26         02         09         16         23         02         00
S4-194990	Bridge No. 10 Modification Completion	0		11-Jan-14	7         24         01         08         15         22         29         05         12         19         26         02         09         16         23         02         0
	after Road opening				
S4-195894	Greenin works (Pending for VO of Deletion) Existing Bridge No.11 + Noise B	45	01-Mar-14	24-Apr-14	
Bridge Roadwork					
S4-195895	Road Surfacing & Fumitures after stitching	18	20-Dec-13	11-Jan-14	Road Surfacing & Furnitures after st
S4-195910	Install Noise barrier panel	30	20-Dec-13	25-Jan-14	Install Noise barrier pan el
S4-195900	Bridge No. 11 Modification Completion	0		25-Jan-14	<ul> <li>Bridge No. 11 Modification</li> </ul>
_	after Road opening	00	40 1- 44	01 4 4 4	
S4-1958211	Greening works (Pending for VO of Deletion) 9, & Noise Barrier NB19, NB22	60	13-Jan-14	01-Apr-14	
Noise Barrier NB <sup>2</sup>					
S4-207190	NB19 Structural Steel, 10 bays	10	28-Jan-14*	17-Feb-14	NB19 Struct
S4-207190A	NB19 Structural Steel, 21 bays	10	28-Jan-14*	17-Feb-14	NB19 Struct
S4-208190	NB19 NB Panels, 10 bays	10	18-Feb-14	28-Feb-14	NB19
S4-208190A	NB19 NB Panels, 21 bays	10	18-Feb-14	28-Feb-14	NB19
Noise Barrier NB2 S4-207220	NB22 Structural Steel	13	20-Sep-13 A	15-Jan-14	NB22 Structural Steel
S4-208220	NB22 NB Panels	24	20-Sep-13 A	15-Jan-14	NB22 Of detail o
Fill Slope S9					
S4-031095A	Fill Slope S9- backfilling	24	20-Dec-13*	18-Jan-14	Fill Slope S9- backfilling
S4-031095B	Fill Slope S9 - drainage 0, L=410m, Road&Drain+Utilities	12	13-Jan-14	25-Jan-14	Fil Slope S9 - drainage
Road Drainage	J, L=41011, Koad&Drain+Otinties				
S4-0512620	Road Drainage - pipelayinng + manhole	48	01-Aug-13 A	17-Jan-14	Road Drainage - pipelayinng + r
Firemain					
S4-0512630	Firemain- excav, pipe install+pit/new hydrants	24	17-Sep-13 A	17-Jan-14	Firemain- excav, pipe install+pit
TCSS Works/Othe S4-0512635	Utilities +TCSS buried ducts + civil prov. works	36	21-Oct-13 A	30-Jan-14	Utilities +TCSS buried o
S4-0512635	Power supply cable ducts	17	20-Dec-13*	10-Jan-14	Power supply cable ducts
S4-0512627	TCSS High mast M7/S117 - footing	17	30-Dec-13*	17-Jan-14	TCSS High mast M7/S117 - foo
Road Lighting/ or	High Mast				
S4-0512660 S4-051266A	Public lighting - Lamp Pole + Lamps Public Lighting - cabling works	36	21-Oct-13 A 21-Oct-13 A	30-Jan-14 30-Jan-14	Public lighting - Lamp F
S4-051266A S4-051266B	Public Lighting - cabing works Public Lighting - power supply connection & test	36 12	17-Jan-14	30-Jan-14 30-Jan-14	Public Lighting - cabling Public Lighting - power
Roadworks			]		
S4-0512645	Roadworks +Slip Road N- Resurfacing	26	18-Oct-13 A	30-Jan-14	Roadworks +Slip Road
S4-0512655	Roadworks +Slip Road N- road marking + furnitures	6	24-Jan-14	30-Jan-14	Roadworks +Slip Road
	o CH 2400: SECT. 2 WORKS				
	bound - S14-, RW21-28, TP7,Rd/Dr				
Retaining Wall W Cut Slope S17	/24 to W28 & Slope S17				
S2-031170	Slope S17 (SB) (after 29A & W29B part)	45	03-Jun-13 A	15-Jan-14	Slope S 17 (SB) (after 29A & W29
	, Ch 2000-2200, L=200m				
TCSS Works/Othe	er Utlities				
S2-031295	Power supply cable ducts	277	25-Jul-12 A	17-Jan-14	Power supply cable ducts
Cut Slope S14					
S2-031140E10	Slope S14 - Soil nail & remaining drainage work (VO343-additional	61	10-Jun-13 A	15-Feb-14	Sløpe \$14 - 5
	bound- S15-S19, RW31-33, Rd/Dr				
<b>_</b>	/30, W31, W32(Piled), W33				
Retaining Wall W					
S2-035325C10 S2-GCL026	RW W31,W32,33 - wall stem + backfill (5 months) Southbound Stage 7A - GCL's earliest interfacing work completion d	161 0	18-Mar-13 A	16-Jan-14 20-Nov-13 A	RW W31,W32,33 - wall stem + t Southbound Stage 7A - GCL's earliest interfacing work completion da
S2-GCL036	Northbound - GCL interfacing work completion for Lane 1,2,3 open	0		20-Dec-13*	♦ Northbound - GCL interfacing work completion fo
S2-GCL046	Completion of works subject to GCL works completion	30	20-Dec-13	25-Jan-14	Completion of works subje
tage 2A: South	bound- S17, RW 29-34, NB27-29				
loise Barrier NB					
Noise Barrier NB		_		40.1.44	
S2-035350	NB29 NB Panels N29 & NB27(@W29)	7	16-Oct-13 A	16-Jan-14	NB29 NB Panels
Retaining Wall W					
S2-03529AB	RW W29A facing panel structure (bay 1)	30	15-Jan-14*	27-Feb-14	RWV
B: CH2200-2400	0, L=200m, Road&Drain+Utilities				
Road Drainage			1		
S2-031250	W29A bay 1 road drainage after GCL TTA stage 6A	20	11-Feb-14	05-Mar-14	
TCSS Works/Othe S2-031287	er Utlities TCSS S160 (VDS) - footing	23	14-Sep-13 A	15-Jan-14	TCSS S(60 (VDS) - footing
Roadworks		20	1- Jup-13 A	10-0411-14	
S2-031255	W29A bay 1 road work after GCL TTA stage 6A	20	11-Feb-14	05-Mar-14	1
S2-031265	Remaining roadwork to final pavement level after GCL TTA stage 6A	6	06-Mar-14	12-Mar-14	
	Median- NB26, NB29 +Road&Drain				
	8 L=400m & Road&Drain+Utilities				
ייטושב שמויופר סנרו					
		С	ontract: HY/20	08/09	
	Widen	ing of Ta	olo Highway / I	anling Highwa	av Three Months Bolling Programme
		-			
		-	House Interch		

Activity ID	Activity Name	Original	Start	Finish		2	013				2014		
		Durat	Otart		er	D	ecen			anuary	Febr	uary	March
S2-208300	NB26 NB Structural Steel	7	08-Jul-13 A	11-Jan-14	7 24	01	08   1	5 22	29 05		26 02 09 Structural		02 09 1
S2-208300 S2-208310	NB26 NB Panels	12	30-Dec-13	11-Jan-14			i	ł		NB26 NE	11 1	Sleei	
				11-Jail-14	-					1 1		<b>T</b> A <b>H</b> ina	
S2-208395	Implement TTA- divert traffic to new SB, NB & CM	0	23-Jan-14								nptement I	A- dive	rt traffic to r
Stage 2B: Nort													
Noise Barrier N	NB25												
S4-207250	NB25 Structural Steel	10	01-Jan-14*	11-Jan-14						NB25 Str	uctural Ste	el	
S4-208250	NB25 NB Panels	10	13-Jan-14	23-Jan-14							IB25 NB Pa	anels	
TCSS Works													
TCSS E&M Wo	rks & Handover												
										<u>i i i</u> 1 i i 1 i i			
S2-208420	Lighting & T&C	24	15-Oct-13 A	16-Jan-14						l iahti	ng & T&C		
S2-208450	T&C - power supply system to TCSS	22	20-Dec-13	16-Jan-14							-	olv svste	m to TCSS
S2-208425	Handover to TCSS Contractor	0		16-Jan-14	-					1 I I	over to TC	i i	1 1 1
		0		10-3411-14				_					
26: ICSS IN	PORTION SA11: SECT. 4 WORKS												
TCSS Works													
New Sign Gant	ry Construction												
G14 (Outside Si	ite Boundary)												
GS1660	Erect Column	4	05-Dec-13 A	06-Dec-13 A	1		Erect	Colum	n				
GS1670	Erect Gantry Beam	3	11-Dec-13 A	11-Dec-13 A	1				ntry Bear	'n			
GS1680	Reinstatement & Shifting of traffic lane	52	20-Dec-13	01-Mar-14	1			<u> </u>	1   1 1	1 1 1 1 1 1		1 1 1 1	Reinstate
G15										· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
GS1720	Erect Gantry Beam	4	04-Dec-13 A	04-Dec-13 A		ΙĖ	rect C	Santry I	Beam				
G65													
GS2320	Erect Gantry Beam	2	22-Nov-13 A	22-Nov-13 A	 I Ere	ct Ga	ntrv B	eam		1 I I 1 I I 1 I I			
Existing Sign G	Gantry Modification												
	al Modification Works of Sign Gantries)								1 1 1 1 1 1	1 1 1 1 1 1 1 1 1		1 1 1 1 1 1	1 I I 1 I I 1 I I
GS2410	Carry out Sign Gantry modification (LCS, TCSS etc)	52	27-Jan-14	05-Apr-14									
G16		02	27 641 11	00740111									
GS2490	Carry out Sign Gantry modification (LCS, TCSS etc)	52	25-Jul-13 A	06-Dec-13 A			Corne		dn Chata	modifiedti		Tee hto)	
G32490 G17	Carry our Sign Gantry modification (LCS, TCSS etc)	52	25-Jul-13 A	00-Dec-13 A			Cariy		gri Ganu	modificati			
GS2570	Correction Contraction (ICC TCCC etc)	50	05 Jul 42 A	06-Dec-13 A	_		Corne			, modificati			
	Carry out Sign Gantry modification (LCS, TCSS etc) al Modification Works of Sign Gantries)	52	25-Jul-13 A	00-Dec-13 A			Carly		gri Ganu	ymouncau			
GS2730	Carry out Sign Gantry modification (LCS, TCSS etc)	30	12-Dec-13 A	25-Jan-14	-								ry modifica
GS2730 G68	Carry out Sign Gantry modification (LCS, TCSS etc)	30	12-Dec-13 A	25-Jan-14		+		1	: :		Carry out a	agn Gan	ty modifica
	Carry out Sign Gantry modification (LCS, TCSS etc)	50	10 hun 10 h	00 Nov 40 A				-		ation (LCS	TOCOLAN		
GS2890 G70	Carry out Sign Gantry modification (LCS, TCSS etc)	52	18-Jun-13 A	22-Nov-13 A			t Sign	Ganu		ation (LCS	TCSS etc.		
	Correction Contraction (ICC TCCC etc)	50	10 km 10 A	21 Nov 12 A			Cidm	-	, modifier		TOSS hte		
GS2970	Carry out Sign Gantry modification (LCS, TCSS etc) al Modification Works of Sign Gantries)	52	18-Jun-13 A	21-Nov-13 A		ry out	Sign	Gantry		tion (LCS,	TCSS etc)		
		50	26 Nov 12 A	20 lon 14									botulmodi
GS3290	Carry out Sign Gantry modification (LCS, TCSS etc) al Modification Works of Sign Gantries)	52	26-Nov-13 A	30-Jan-14		:		;	: :	; ; ;		ut sign G	antry modil
		50	00 Nov 40 A	00 la a 44		÷		}					
GS3370	Carry out Sign Gantry modification (LCS, TCSS etc) 7 - Ground Works & Ducts Works for TCSS (Outside Site Bound	52	26-Nov-13 A	30-Jan-14		:		1	: :			ui sign G	antry modil
		ai y)			<u> </u>								
	e site Boundary- Install UPVC Ducts for TCSS Works-Road Side Work	00	04 14-140 4	00 D : 10								000	
GS3570	Road Side Works - SK1258 - G66	20	01-May-13 A	28-Dec-13	-		1	-	Road	Side Works	11 1	1 1	1050 044
GS3490	Road Side Works - SK1252, SK1253 - G11 LHS (Case 113/111-112)	26	20-Dec-13	21-Jan-14							au side W		(1252, SK1
GS3530	Cycle Track G73 - G74 Sk1253	26	22-Jan-14	01-Mar-14									Cycle Tra
	e site Boundary- Install UPVC Ducts for TCSS Works-Cross Road Work			1				li -					
GS3610	(Pending for VO for cancellation)Cross Road Ducts - SK1253 - P12	30	20-Dec-13	25-Jan-14				-			(Pending f	or VO for	cancellatio
GS3620	(Pending for VO for cancellation)Cross Road Ducts - SK1253 - P12	30	27-Jan-14	11-Mar-14									(P
GS3630	(Pending for VO for cancellation)Cross Road Ducts - SK1256 - P59	30	12-Mar-14	15-Apr-14				<u> </u>					
	Trial Pits for P11, P12, S107 and P59												
GS3680	Trial Pils for P11, P12, S107 and P59	30	20-Dec-13	25-Jan-14	1				i   _i		Trial Pils fo	r P11, P	12, S107 an

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 Dec 2013 to 20 Mar 2014
(Stage 1 - Between Island House Interchange and Ma Wo)	

vity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish		Q2	Q3	Q4	Q1	Q2	2011 2 Q3	Q4	Q1	
HY/2009/0	08 TOLO HIGHWAY WIDENING, Update on 2013	31125						- <u> -</u>		<u>+ - + - +</u>					<u>1-1-</u>
EXECUT	IVE SUMMARY														
Design															
A1330	Alternative Design		100%	292 26-Jul-10 A	14-Jan-11 A					🗕 A	ternati	ive Desi	gn		
Construct	tion	,,		·											
Section 1												+-+-+			
A1000	SA21 - North Bound	-97	95.6%	959 15-Oct-10 A	07-Jan-14										<u> </u>
A1010	SA21 - South Bound	-97	94.82%	814 15-Oct-10 A	07-Jan-14										<u> </u>
A1020	SA21 - Middle Lane	-79	91.27%	275 08-May-12 A	19-Dec-13										
Section 2															
 A1030	SA22 - North Bound	-53	94.49%	1016 26-Feb-10 A	20-Jan-14				+ - +¦	+-+		+-+-+		-+-+-+-	·
A1040	SA22 - South Bound	-83	91.71%	1037 01-Apr-10 A	19-Feb-14			<u> </u>	<u> </u>	<u> </u>		<u></u>		<u> </u>	<u> </u>
A1060	SA23 - South Bound	-77	79.51%	388 28-Dec-11 A	13-Feb-14										+ +
A1070	SA24 - North Bound	-58	92.25%	787 25-Aug-10 A	25-Jan-14			-							+
A1080	SA25 - South Bound	-53	94.34%	777 20-Oct-10 A	08-Jan-14				i 📥	++++					+++
A1090	SA26 - North Bound	-41	96.38%	1216 26-Feb-10 A	08-Jan-14				i - ii			÷		- +	
A1100	SA26 - South Bound	-92	92.19%	1216 26-Feb-10 A	28-Feb-14										
Section 3															
A1110	SA26A - North Bound	-12	94.88%	1191 26-Feb-10 A	25-Jan-14				<u> </u>					<u> </u>	<u>   </u>
A1120	SA26A - South Bound	-1	94.31%	879 26-Feb-10 A	14-Jan-14		<u> </u>								
A1130	SA26A - North & South Bound		100%	612 26-Feb-11 A	30-Jul-13 A					-: : ¢		+			
A1140	SA27 - South Bound	-28	90.74%	826 27-Mar-10 A	10-Feb-14			<u> </u>		++++					<u> </u>
Section 4												$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
A1150	SA28 - North Bound	-57	90.45%	1216 26-Feb-10 A	22-Mar-14										<u>+ +</u>
A1160	SA28 - South Bound	-33	91.65%	1099 23-Jun-10 A	25-Feb-14							<u></u>			<u></u>
A1170	SA29 - North Bound		100%	909 26-Jan-11 A	26-Sep-13 A										
A1180	SA32 - Roadside FVMS		100%	265 26-Mar-11 A	15-Dec-11 A									J SA32	- R
Section 5															
A1190	SA31 - South Bound		100%	884 26-Feb-10 A	28-Mar-13 A		<u> </u>		<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>
Section 7															
A1200	SA41 - Site Office	-15	85.59%	1581 26-Feb-10 A	11-Jul-14				· - · - · · ·		!!	+-+-+			
A1210	SA42 - Temporary Contractor's Works Area	0	86.6%	1582 25-Feb-10 A	25-Jun-14	-	<u> </u>	<u> </u>	<u> </u>						; ;
Section 1	7 (Subject to Excision, Engineer may instruct within 819	9 davs)													
A1300	Validity Period	202	98.6%	819 25-Feb-10 A	07-Dec-13										
A1310	SA28 - North Bound		100%	34 24-May-12 A	31-Aug-13 A										
A1320	SA30A - North Bound		100%	155 14-May-12 A	31-Aug-13 A					+-+		+			
	ES/ MILESTONES														
			<u>.</u>		_										
	andover Dates														
_Section 1	(Site Area SA21)														
	PDATE 2013NOV Current Bar	Highwa	avs Depar	tment - Contract	No. HY/2009/0	)8									
ect Name: HY/2 ENING	009/08 TOLO HIGHWAY	•													
Date:27-Nov-1			-	olo Highway/ Fan											
Date: 26-Nov-1	3	-		etween Ma Wo an											

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Updated Works Programme, 26 November 2013

2	_	12	Q3			Q4			Q1			Q2		13	Q3			Q4			Q1			14 Q2		Q	3
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tivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013	2014
,		Float	Complete	Duration		21 Q2 Q3 Q4 Q1 Q2 Q1 Q2 Q1	Q3 Q4 Q1 Q2
PHSA2100	Possession of SA21 (Day365)		100%	0 16-Jul-10 A		♦ Possession of SA21 (Day365)	
Section 3	(Site Area SA26A and SA 27)						
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)	
Section 2	(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 SA23 (Day180)	
PHSA2400	Possession of SA24 (Day180)		100%	0 04-May-10 A		Possession of SA24 (Day180)	
PHSA2500	Possession of SA25 (Day270)		100%	0 04-May-10 A		♦ Possession of SA25 (Day270)	
PHSA2600	Possession of SA26 (Day0)		100%	0 26-Feb-10 A		Possession of SA26 (Day0)	
Section 4	(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)	
Section 5	(Site Area SA31)						
PHSA3100	Possession of SA31 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA31 (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 SA42 (Day0)	
PHSA4300	Possession of SA43 (Day90)		100%	0 04-May-10 A		Possession of SA43 (Day90)	
Section 8	(Estiblishment Works in Site Area SA21)			-			
PHSA2110	Possession of SA21 (Day1217)	-152	0%	0 26-Nov-13			Possession of the second se
	(Estiblishment Works in Site Area SA22, SA23, SA24,			•			
PHSA2210	Possession of SA22 (Day1217)	-152	0%	0 26-Nov-13			Possession of the second se
PHSA2310	Possession of SA23 (Day1217)	-152	0%	0 26-Nov-13			Possession
PHSA2420	Possession of SA24 (Day)217)	-152	0%	0 26-Nov-13			Possessión i
PHSA2510	Possession of SA25 (Day1217)	-152	0%	0 26-Nov-13			Possession d
PHSA2610	Possession of SA26 (Day1217)	-152	0%	0 26-Nov-13			Possession
	0 (Estiblishment Works in Site Area SA26A and SA27)	102	0,0				
PHSA26A1	Possession of SA26A (Day1217)	-152	0%	0 26-Nov-13			🔷 Possession
PHSA2710	Possession of SA27 (Day1217)	-152	0 %	0 26-Nov-13			Possession
		132	078	0 20 100 10			
Section 11		450	00/	0 00 Nev 10			
PHSA2810	Possession of SA28 (Day1217)	-152	0%	0 26-Nov-13			
PHSA2910	Possession of SA29 (Day1217)	-152	0%	0 26-Nov-13			🔷 Possession
	2 (Estiblishment Works in Site Area SA30 and SA30A)						
PHSA3000	Possession of SA30 (Day1217)	-152	0%	0 26-Nov-13			Possession
PHSA30A0	Possession of SA30A (Day1217)	-152	0%	0 26-Nov-13			🔷 Possession i
_Section 13							
PHSA3110	Possession of SA31 (Day1217)	-128	0%	0 26-Nov-13*			Possession
PHSA3220	Possession of SA32 (Day1217)	-128	0%	0 26-Nov-13*			🔷 Possession
PHSA4120	Possession of SA41 (Day1217)	-128	0%	0 26-Nov-13*			🔷 Possession
PHSA4220	Possession of SA42 (Day1217)	-128	0%	0 26-Nov-13*			Possession
PHSA4330	Possession of SA43 (Day1217)	-128	0%	0 26-Nov-13*			Possession
Section 14	4 Comprises Routine Maintenance of Road Network in	Site Area S	A21 to S	A31)			
PHSA2130	Possession of SA21 for Routine Maintenance (Day365)		100%	0 16-Jul-10 A		Possession of \$A21 for Routine Maintenance (Day365)	
PHSA2230	Possession of SA22 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		Possession of SA22 for Routine Maintenarice (Day0)	

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ctivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2
PHSA2330	Possession of SA23 for Routine Maintenance (Day180)		100%	0 04-May-10 A		1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2
PHSA2430	Possession of SA24 for Routine Maintenance (Day180)		100%	0 04-May-10 A		♦ Possession of SA24 for Routine Maintenance (Day180)
PHSA2530	Possession of SA25 for Routine Maintenance (Day270)		100%	0 04-May-10 A		♦ Possession of SA25 for Routine Maintenance (Day270)
PHSA2630	Possession of SA26 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		Possession of SA26 for Routine Maintenance (Day0)
PHSA26A3	Possession of SA26A for Routine Maintenance (Day0)		100%	0 26-Feb-10 A		Possession of SA26A for Routine Maintenance (Dav0)
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 SA30 for Routine Maintenance (Day0)
PHSA30A4	Possession of SA30A for Routine Maintenance (Day180)		100%	0 27-Jul-10 A		Possession of SA30A for Routine Maintenance (Day180)
PHSA3130	Possession of SA31 for Routine Maintenance		100%	0 26-Feb-10 A		Possession of SA31 for Routine Maintenance
Section 17	7 (Subject to Excision and Instruct by Engineer within 819	davs)				
PHSA3030	Earliest Date to Possession of SA30	/uuyo/	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
	(include EOT GCL submitted and awarded upto Jun 2013	1	100 /0			
HDS01000	KD1: Completion of Section 1 - (Day1216)	- <b>)</b> -97	0%	0	07-Jan-14*	KD1: Compl
HDS02000	KD2: Completion of Section 2 - (Day1216)	-97		0	28-Feb-14*	→ KD1: Compi
HDS03000	KD3: Completion of Section 3 - (Day1216)	-92		0	12-Feb-14*	→ KD2:00
HDS04000	KD4: Completion of Section 4 - (Day1216) - Overall Completion of Works	-57	0%	0	22-Mar-14*	→ KD3. ¢01
HDS04000	KD4: Completion of Section 4 - (Day1216) - Substantial Completion for Road Open	-25		0	25-Feb-14*	— ♦ KD4: Co
HDS05000	KD5: Completion of Section 5 - (Day884)	-23	100%	0	23-1 eb-14 28-Mar-13 A	♦ KD5::Completion of Section 5 - (D
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 12 (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	0	100%	0	31-Aug-13 A	
			100 /8	0	ST-Aug-13 A	
DESIGN S	SUBMISSION					
Alternative	Design					
Ground In	vestigation & Reporting					
AD000010	Ground Investigation for Alternative Design		100%	54 22-Mar-10 A	29-May-10 A	Ground Investigation for Alternative Design
AD000020	Report of Ground Investigation		100%	56 12-Apr-10 A	18-Jun-10 A	Report of Ground Investigation
Package A	AD1: W56B					
AD000110	AD1 - Design Period		100%	80 29-Mar-10 A	08-Jul-10 A	AD1 - Design Period
AD000120	AD1 - Full Package to ICE for Certification		100%	20 09-Jul-10 A	31-Jul-10 A	AD1 - Full Package to ICE for Certification
AD000130	AD1 - Approval by ER/CLIENT/CEDD (GEO)		100%	101 09-Jul-10 A	06-Nov-10 A	AD1 - Approval by ER/CLIENT/CEDD (GEO)
Package A	AD2: W57B					
AD000210	AD2 - Design Period		100%	72 14-Apr-10 A	10-Jul-10 A	AD2 - Design Period
AD000220	AD2 - Full Package to ICE for Certification		100%	44 12-Jul-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)
Package A						
AD000310	AD3 - Design Period		100%	75 03-May-10 A	31-Jul-10 A	AD3 - Design Period
	AD3 - Full Package to ICE for Certification			57 02-Aug-10 A		AD3 - Full Package to ICE for Certification

tivity ID	Activity Name	Total Activity %	Original Start	Finish	
		Float Complete	Duration		21 Q2 Q3 Q4 Q1 Q
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	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 Period
AD000520	AD5 - Full Package to ICE for Certification	100%	51 23-Oct-10 A	22-Dec-10 A	AD5 - Full Package to ICE for Certification
AD000530	AD5 - Approval by ER/CLIENT/CEDD (GEO)	100%	74 18-Oct-10 A	14-Jan-11 A	AD5 - Approval by ER/CLIENT/¢EDØ (GEO)
MATERIA	ALS PROCUREMENT				
	erials (Detail shall refer to supplementary informati	on)			
_Water Wo					
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 & De
Vehicular	r 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	Fabricațion, 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	Fąbricątion, Maņufacturing & Delivery
Movemen					
	Place Order	100%	0 31-Aug-10 A		♦ Place Order
MA001030	Fabrication, Manufacturing & Delivery	100%	620 31-Aug-10 A		Fabrication, Manufacturing & Delivery
		10070	020 OT Aug TO A	of Aug 12 A	
CONSTR	UCTION PHASE				
Prelimina	ries & General Requirement				
Prelimina	iries				
General S	Submissions				
PR000000	Commencement of Works	100%	0 26-Feb-10 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	04-May-10 A	Erect Contractor's Office Compound
PR001040	Submit SIte Organization Chart	100%	14 26-Feb-10 A	10-Mar-10 A	Submit Site Organization Chart
PR001050	Submit Site Layout Plan	100%	7 26-Feb-10 A	03-Mar-10 A	0 Submit Site Layout Plan
PR001060	Prepare/Submit Initial Works Programme	100%	7 26-Feb-10 A	03-Mar-10 A	Prepare/Submit Initial Works Programme
PR001070	Approval on Initial Works Programme	100%	30 04-Mar-10 A	02-Apr-10 A	Approval on Initial Works Programme
111001070	Prepare/Submit Detailed Works Programme	100%	58 03-Apr-10 A	30-May-10 A	Prepare/Submit Detailed Works Programme
PR001080	Trepare/Submit Detailed Works Trogramme				Protocol (Sub mit Stiel 2 month Bedermine
	Prepare/Submit First 3-month Programme	100%	14 26-Feb-10 A	10-Mar-10 A	Prepare/Submit First 3-month Programme
PR001080			14 26-Feb-10 A 14 26-Feb-10 A		Submit initial 12-month Pgr for Roy. Maint. Work
PR001080 PR001090	Prepare/Submit First 3-month Programme	100%		10-Mar-10 A	
PR001080 PR001090 PR001100	Prepare/Submit First 3-month Programme Submit initial 12-month Pgr for Rou. Maint. Work	100% 100%	14 26-Feb-10 A	10-Mar-10 A 10-Mar-10 A	Submit initial 12-month Pgr for Rou. Maint. Work
PR001080 PR001090 PR001100 PR001110	Prepare/Submit First 3-month Programme         Submit initial 12-month Pgr for Rou. Maint. Work         Submit Rolling 3month Routine Maint. Program	100% 100% 100%	14 26-Feb-10 A 14 26-Feb-10 A	10-Mar-10 A 10-Mar-10 A 26-Mar-10 A	Submit initial 12-month Pgr for Rou. Maint. Work     Submit Rolling 3month Routine Maint. Program     Prepare/Submit Subcon Management:Plan (SMP):
PR001080 PR001090 PR001100 PR001110 PR001170	Prepare/Submit First 3-month Programme         Submit initial 12-month Pgr for Rou. Maint. Work         Submit Rolling 3month Routine Maint. Program         Prepare/Submit Subcon Management Plan (SMP)	100% 100% 100% 100% 100%	14 26-Feb-10 A 14 26-Feb-10 A 30 26-Feb-10 A	10-Mar-10 A 10-Mar-10 A 26-Mar-10 A 25-Apr-10 A	Submit initial 12-month Pgr for Rou. Maint. Work     Submit Rolling 3month Routine Maint. Program     Prepare/Submit Subcon Management Plan (SMP)     Submit Interface Management Plan
PR001080 PR001090 PR001100 PR001110 PR001170 PR001200 PR001242	Prepare/Submit First 3-month Programme         Submit initial 12-month Pgr for Rou. Maint. Work         Submit Rolling 3month Routine Maint. Program         Prepare/Submit Subcon Management Plan (SMP)         Submit Interface Management Plan         Application of Expressway Permit	100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%	14 26-Feb-10 A 14 26-Feb-10 A 30 26-Feb-10 A 60 26-Feb-10 A 7 26-Feb-10 A	10-Mar-10 A 10-Mar-10 A 26-Mar-10 A 25-Apr-10 A 03-Mar-10 A	Submit initial 12-month Pgr for Rou. Maint. Work     Submit Rolling 3month Routine Maint. Program     Prepare/Submit Subcon Management Plan (SMP):     Submit Interface Management Plan     Application of Expressway Permit
PR001080 PR001090 PR001100 PR001110 PR001170 PR001200 PR001242 PR001244	Prepare/Submit First 3-month Programme         Submit initial 12-month Pgr for Rou. Maint. Work         Submit Rolling 3month Routine Maint. Program         Prepare/Submit Subcon Management Plan (SMP)         Submit Interface Management Plan         Application of Expressway Permit         Approval of Expressway Permit	100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%	14         26-Feb-10 A           14         26-Feb-10 A           30         26-Feb-10 A           60         26-Feb-10 A           7         26-Feb-10 A           21         04-Mar-10 A	10-Mar-10 A         10-Mar-10 A         26-Mar-10 A         25-Apr-10 A         03-Mar-10 A         24-Mar-10 A	<ul> <li>Submit initial 12-month Pgr for Rou. Maint. Work</li> <li>Submit Rolling 3month Routine Maint. Program</li> <li>Prepare/Submit Subcon Management Plan (SMP)</li> <li>Submit Interface Management Plan</li> <li>Application of Expressway Permit</li> <li>Approval of Expressway Permit</li> </ul>
PR001080 PR001090 PR001100 PR001110 PR001170 PR001200 PR001242	Prepare/Submit First 3-month Programme         Submit initial 12-month Pgr for Rou. Maint. Work         Submit Rolling 3month Routine Maint. Program         Prepare/Submit Subcon Management Plan (SMP)         Submit Interface Management Plan         Application of Expressway Permit	100%           100%           100%           100%           100%           100%           100%           100%           100%           100%           100%	14 26-Feb-10 A 14 26-Feb-10 A 30 26-Feb-10 A 60 26-Feb-10 A 7 26-Feb-10 A	10-Mar-10 A         10-Mar-10 A         26-Mar-10 A         25-Apr-10 A         03-Mar-10 A         24-Mar-10 A	Submit initial 12-month Pgr for Rou. Maint. Work     Submit Rolling 3month Routine Maint. Program     Prepare/Submit Subcon Management Plan (SMP):     Submit Interface Management Plan     Application of Expressway Permit

ctivity ID	Activity Name Total	Activity %	Original	Start	Finish	2010 2011 2012 2013 2014
	Float	Complete	Duration			21 Q2 Q3 Q4 Q1 Q2 Q1 Q2 Q1 Q2 Q1
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	Prépare/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 Tiree 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	24-Jun-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	24-Jul-10 A	Design for Irrigation System
PR001380	Approval for Irrigation System	100%			21-Mar-11 A	Approval for Irrigation System
PR001385	Detail review of the natural terrain hazard assessment by GEO	100%				Detail review of the natural terrain hazard assessment by GEO
PR001390	Design for Permanent Debris Catch Fence	100%			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%			12-Sep-10 A	Temporary Works Design
PR001420	Complete All Technical Submission	100%	0		22-Feb-12 A	♦ Complete All Technical Submission
		10078	0			
PR001220	Consultants Nominate/Submit Horticulturist for Approval	100%	45	26 Eab 10 A	10-Apr-10 A	Nominate/Submit Horticulturist for Approval
PR001220 PR001230						Nominate/Submit IIC (Highway Structures)
	Nominate/Submit IIC (Highway Structures)	100%		26-Feb-10 A 26-Feb-10 A	· ·	
PR001240 PR001440	Nominate/Submit Traffic Consultant for Approval           Complete Engagement of Specialist Consultants	100% 100%	7		10-Apr-10 A	Nominate/Submit Traffic Consultant for Approval     Scomplete Engagement of Specialist Consultants
QSHE Sub		10070	0			
PR001120	Prepare/Submit Quality Plan	100%	28	26-Eeb-10 A	24-Mar-10 A	Prepare/Submit Quality Plan
PR001130	Prepare/Submit Draft Health & Safety Plan	100%			10-Mar-10 A	Prepare/Submit Draft Health & Safety Plan
PR001130	Prepare/Submit Drait Health & Safety Plan	100%			31-Mar-10 A	<ul> <li>Prepare/Submit Final Health &amp; Safety Plan</li> <li>Prepare/Submit Final Health &amp; Safety Plan</li> </ul>
PR001150	Prepare/Submit Draft Env Management Plan	100%			17-Mar-10 A	Prepare/Submit Draft Env Management Plan
PR001160	Prepare/Submit Final Env Management Plan	100%		26-Feb-10 A		Prepare/Submit Final Env Management Plan
PR001180	Submit Site Management Plan for Trip Ticket Sys	100%		26-Feb-10 A		Submit Site Management Plan for Tríp 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%		17-Jun-10 A		♦ VO.1: Revised layout of Piles, NLKP5
VO000020	VO. 2: Fencing Detaills Along Site Boundaries of SA29	100%		20-Aug-10 A		♦ VO: 2: Fertcing: Detaills Along Site Boundaries of SA29
VO000030	VO. 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)	100%		17-Sep-10 A		VOJ 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)
VO000040	VO. 4: Revised Setting Out Plan of Slip Road W in SA28 & SA31	100%	0	15-Sep-10 A		♦ VO. 4 Revised Setting Out Plan of Slip Road W in SA28 & SA31
VO000050	VO. 5: Revised Setting Out Plan of Slip Road W in Site Area SA30	100%		15-Sep-10 A		♦ VO. 5; Revised Setting Out Plan of Slip Road W in Site Area SA30
VO000060	VO. 6: Bridge 15A Pilecap Sleeving Details	100%		19-Oct-10 A		♦ VO. 6: Bridge 15A Pilecap Sleeving Details
VO000070	VO. 7: Modification of Noise Barrier Footing for NB42 & NB44	100%	0	14-Dec-10 A		VD: 7: Modification of Noise Barrier Fobting for NB42 & NB44
VO000080	VO. 8: Revised Layout of Southen Trunk Sewer	100%		15-Dec-10 A		VD 8 Revised Layout of Southen Trunk Sewer
VO000090	VO. 9: Relocation and Deletion of Access Door at Noise Barrier	100%	0	04-Jan-11 A		VO. 9: Relocation and Deletion of Access Door at Noise Barrier
VO000100	VO. 10: Fencing details along Site Boundaries of Section subject to Excision	100%	0	04-Jan-11 A		VO. 10: Fencing details along Site Boundaries of Section subject to Excision
VO000110	VO. 11: Fencing details along Site Boundaries of Section subject to Excision	100%	0	04-Jan-11 A		VO. 11: Fencing details along Site Boundaries of Section subject to Excision
VO000120	VO. 12: Fencing for Former Lot 1308 S.B in D.D.6	100%	0	12-Jan-11 A		VO. 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 T
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

Activity ID	Activity Name	Total Activity %	Original Start	Finish	2010 2011 2012 2013 20
	Activity Name	Float Complete		1 111311	01 Q2 Q3 Q4 Q1 Q
VO000160	VO. 16: Additional Packaging Requirement for Mulch Delivered to LCSD	100%	0 25-Jan-11 A		1234567891111111111112222222222233333333344444444
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%	· · ·		♦ VQ. 18: Delivered 5 cubic meters of Mulch to EPD
VO000190	VO. 19: Protection for Existing HKCG HP 600mm Gasmain at Slip Rd T	100%			VO. 19: Protection for Existing HKCG HP 600mm Gasmain at Slip Rd T
VO000200	VO. 20: Revised Fire Mains alignment Plan	100%			VO. 20; Revised Fire Mains alignment Plan
VO00210	VO. 21: Reinforced Earth Walls at Bridge 18A Abutment	100%			♦ VO. 21: Reinfprced Earth Walls at Bridge 18A Abutment
VO000220	VO. 22: Revised Layout of Proposed Lighting and Meter Box at Ma Wo Subway (T	100%	· · · · · · · · · · · · · · · · · · ·		♦ VO. 22: Revised Layout of Proposed Lighting and Meter Box at Ma Wo Subway (TP
VO000230	VO. 23: Provision of Drainage at Noise Barriers 41 & 42	100%	· · ·		VO. 23: Provision of Drainage at Noise Barriers 41 & 42
VO00250	VO. 25: Construction of Cross Road Ducts and Traffic Signal Drawpits	100%	· · ·		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%	· · ·		VO. 26; Permanent Diversion of Existing DN80 WSD Watermain at MA Wo Subwa
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 \$A22 and \$A25
VO000300	VO. 30: Removal of dead trees under LKB	100%	0 05-Jul-11 A		♦ VQ. 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: Fencing for Former Lot 1308S.B. in D.D.6
VO000330	VO. 33: Drainage Details at W48	100%	0 03-Aug-11 A		🔶 VO. 33; Drainage 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 road 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	100%	0 03-Dec-11 A		♦ VO. 38: Bridge 18A -Reforced earth walls at West Abutment & as
VO000390	Works 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 d	100%			♦ VO. 40: New Lam Kam Road Flyover - Revised drainage arrangen
VO000410	VO. 41: 450mm Diameter U-channel flap valve behind noise barrier NB42	100%			♦ VO. 41: 450mm Diameter U-channel flap valve behind noise barri
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 ba
VO000440	VO. 44: Bridge 15A - Revised drainage arrangement for bridge deck	100%	0 12-Jan-12 A		♦ VO. 44: Bridge 15A - Revised drain age arrangement for bridge
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 Ro
VO000460	VO. 46: Modification of noise barrier footing for NB44	100%	0 13-Feb-12 A		♦ 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-12 A		♦ 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		VO. 53: Bridge 18A - Concrete Plinths for PCCW cable
VO000550	VO. 55: Provision of drainage at retaining wall W71 and Bridge B18A	100%	0 18-Apr-12 A		VO: 55: Provision of drainage at retaining vall W71 and
VO000590	VO. 59: Relocation of Existing WSD pumping station (PS106) gate at Hong Lok Yuen Road	100%	0 23-Apr-12 A		♦ VO. 59: Relocation of Existing W\$D pumping station (F
VO000620	VO. 62: Revised Metal Cover Details for Bridge Deck Soffit Access	100%	0 29-May-12 A		VO. 62: Revised Metal Cover Details for Bridge Dec
VO000650	VO. 65:Details of additional Vehicular Access Gate for Lot 412 at Tai Wo Servise	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 Ba
VO000690	VO. 69: Revised Lighting Layout at Ma Wo Subway TP9	100%	0 01-Aug-12 A		♦ VO. 69 Revised Lighting Layout at Ma Wo Sub
VO000700	VO. 70: Provision of Digital callipers	100%	0 10-Aug-12 A		♦ VD. 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		VO, 71: Details of Typical Section for Slip Roa
VO000720	VO. 72: New Lam Kam Road Flyover - revised North and South Ramps Retaining	100%	0 06-Sep-12 A		VO. 72: New Lam Kam Road Flyover- revise
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		─────────────────────────────────────
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 C
VO000760	VO. 76: Conduct Resistograph and Tomography Assessment to the Internal Decay of Important Tree T13076 at LKR Intercharge	100%	0 19-Sep-12 A		VO: 76: Conduct Resistograph and Tomogr

ctivity ID	Activity Name		tivity %	Original Start	Finish		010			2011			2012				2013			2014
		Float Co	omplete	Duration		21 Q2 1 2 3 4 5	Q3		Q1 Q2	2 Q3	Q4	Q1 C	2 Q3	Q4	Q1	Q2	Q			Q1 Q2
VO000770	VO. 77: Provision of Cable Duct for Power Supply in Site Area SA28 and SA31		100%	0 17-Oct-12 A				<u>• • • • • • • • • • • • • • • • • • • </u>			<u>+-+-+-</u> +-	<u>+-t-t-t</u>								r Power S
VO000780	VO. 78: Bridge 18A Revised CLP Concrete Cable Trough Details		100%	0 22-Oct-12 A										🔷 VO	. 78: Br	idge	18A F	levised		Concrete
VO000790	VO. 79: Bridge 18A East Abutment - Reinforced Concrete Wall (Bay3)		100%	0 14-Nov-12 A			$\begin{array}{cccccccccccccccccccccccccccccccccccc$		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		<b>◊</b> V	Э. 79: <b>Г</b>	Bridge	e 18A	East A	butmer	nt - Reinf
VO000800	VO. 80: Removal and Storage of Remaining Parts of Existing Speed Camera No. W05, W06 at NB and W10 at SB		100%	0 03-Dec-12 A										<b></b>	VO. 80	: Rem	noval	and Sto	raġe c	of Remain
VO000810	VO. 81: Details of Maintenance Access of Noise Barrier NB41 and NB42 along Tai Wo Service Road West		100%	0 04-Jan-13 A										<b>-</b>	> VO. (	81: De	etails	of Maii	tenan	ice Acces
VO000820	VO. 82: Irrigation System Along the Vehicular Access to Wai Tau Tsuen		100%	0 04-Feb-13 A											♦ V¢	). 82:	: Irrige	tion Sy	stem A	Along the
VO000830	VO. 83: Stormwater Drainage System MN18.1 to MN18.11 in Front of Retaining W		100%	0 08-Feb-13 A											♦ V(	O. 83	: Stori	mwater	Draina	age Syste
VO000840	VO. 84: Removal and Storage of Remaining Parts of Existing Speed Enforcement Camera No. TO06 at Tolo Highway Southbound		100%	0 08-Feb-13 A											♦ V0	D. 84:	: Rem	ioval ar	d Stor	rage of R
VO000860	VO. 86: Provision of Verge Tubular Railing Adjacent to Retaining Wall W67		100%	0 12-Apr-13 A		-										♦ vc	J. 86:	Provisi	on of V	Verge Tuk
VO000870	VO. 87: Existing Retaining Wall at Tai Po Tai Wo Road - Modification Works		100%	0 19-Apr-13 A			· • • • • • • • • • • • • • • • • • • •		1-1-1-1-1							<b>◊</b> ٧(	O 87	: Existir	g Reta	aining Wa
VO000880	VO. 88: Additional Hospital Sign Plate for Existing Directional Signs DSX01A and		100%	0 10-May-13 A												( 🔷	VO. 8	8: Addi	ional I	Hospital
VO000890	VO. 89: Change of Material of Southern Trunk Sewer Pipes between manhole		100%	0 10-May-13 A												\ ا	VO. 8	9: Cha	ge of	Material
VO000900	VO. 90: Revised Southern Trunk Sewer Details		100%	0 10-May-13 A												\ 🔷	VO. 9	0: Revi	ed So	outhern T
VO000910	VO. 91: Nosing Details at South Abutment of Bridge 13A - Modification Works		100%	0 02-Jul-13 A													<b>•</b> V	0. 91: I	losing	) Deitails a
VO000920	VO. 92: Revised Noise Barrier Footing fro NB30 Bay 1		100%	0 14-Jun-13 A					+-+							*	♦ VO	. 92: R	vişed	l Noise Ba
VO000930	VO. 93: Irrigation System for the Shrub Planting Area Adjacent to Fanling Highway		100%	0 13-Jun-13 A												•	🔷 vo	. 93: Iri	igation	n System
VO000940	VO. 94: Irrigation System for the Shrub Planting Area Adjacent to Lam Kam Road Interchange with connection to Firemain		100%	0 11-Jun-13 A												<	> vo	. 94: Irr	gation	n System
VO000950	VO. 95: Revised Sign Gantry G101 Details		100%	0 07-Jun-13 A													> VO.	. 95: Re	vised S	Sign Gar
VO000970	VO. 97: Provision of Stormwater Drainage System for the Wai Tau Tsuen Access Raod Behind W74		100%	0 13-Jun-13 A												<	vo	97: Pi	ovisior	n of Storr
VO000980	VO. 98: Revised Sign Gantry G101 Sign Face DS T8(B) Details		100%	0 11-Jun-13 A												<	vo	. 98: R	vised	Sign Gar
VO000990	VO. 99: Revised Sign Gantry G59 Details		100%	0 11-Jun-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				<	♦ vo	. 99: R	vised	Sign Gar
VO001000	VO. 100: Revised Sign Gantry G58 Details		100%	0 11-Jun-13 A			$\begin{array}{cccccccccccccccccccccccccccccccccccc$					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				111		111		d Sign Ga
VO001010	VO. 101: Existing Bridges 12&13 - Revised Detail of the Strengthening Beam of the Stitching Slab		100%	0 02-Jul-13 A													♦ V <sup>i</sup>	0. 101	Existir	ng Bridge
VO001030	VO. 103: Parapet Wall PW1 - Revised Drainage and Miscellaneous Details		100%	0 03-Jul-13 A													<b>•</b> v	0. 103	Parap	oet Wall F
VO001040	VO. 104: Revised Alignment and Layout of Noise Barrier NB38		100%	0 26-Jun-13 A					<u>.</u>								🔷 V(	D. 104:	Revise	ed Alignr
VO001050	VO. 105: Additional Precast Concrete Cover for Catchpit No. CP1.1		100%	0 02-Jul-13 A													<b>&gt;</b> V	0. 105	Additi	ional Pred
VO001060	VO. 106: Revised Details fo Retaining Wall No. W71 and Slope S43 at CH0.00 to CH4.00		100%	0 02-Jul-13 A													<b>ب</b> ک	O. 106	Revis	ed Detail
VO001070	VO. 107: Revised Alignment of U-Channel at Interface of Retaining Wall W66 and Slope S38		100%	0 02-Jul-13 A													¢ ۷۰	O. 107	Revis	ed Alignr
VO001080	VO. 108: Revision for Proposed Cut Slope S31A		100%	0 11-Jul-13 A													۵ ۱	/O. 108	Revis	sion for P
VO001090	VO. 109: Revision for Proposed Cut Slope S45		100%	0 19-Jul-13 A														- L - L - J -		ision for F
VO001100	VO. 110: Revised Base Plate Details of Noise Barrier NB38		100%	0 19-Aug-13 A		—											<	vo.	10: Re	evised Ba
	s of Temporary Traffic Arrangement																			
TTA000	TTA Stage 0 - Divert the traffic to new Slip Road J & K		100%	0 07-Oct-12 A										ТТА	Stade	0 - Dir	ivertit	ne traffi	to ne	ew Slip R
TTA010	TTA Stage 1 - divert the traffic to new bridge 18a		100%	0 23-Jun-13 A											ישרי	111		1 1 1	1 i i	livert the
TTA050	TTA Stage 5 - Full enclorsure of Tai Wo Road (CH3350 - CH3540)		100%	0 27-Sep-12 A											Stane F					WoRoad
TTA060	TTA Stage 5 - Open the new Northbound but reserve one lane & close the existing Northbound		100 %	0 25-Feb-12 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					♦ TTA				1 1 1		1 1 1		one lan
TTA070	TTA Stage 7 - Close the existing southbound and temporary divert the traffic to the existing Northbound		100%	0 25-Feb-12 A					·         ·			♦ TTA	Stage 7	- Close t	ne exis	ting s	outhb	odunda	nd tem	n pora ry d

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tivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 2014 21 Q2 Q3 Q4 Q1 Q2
			-			1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2
TTA090	TTA Stage 9 - NLK Open the new Northbound but reserve one lane & close the existing Northbound	-39	0%	0 26-Nov-13		🔷 TTA Stage 9 -
TTA110	TTA Stage 11 - Open the new LB2 and link up the LB1 & LB3	-10	0%	0 10-Dec-13		🗢 TTA Stage 11
TTA310	TTA Stage 5A-1 Diversion the traffic to B13A and B15A		100%	0 23-Jun-13 A		♦ TTA Stage 5A-1 Diversion
TTA320	TTA Stage 4B-1 Diversion the traffic to (CH2600 - CH3000) N/B		100%	0 05-May-13 A		TTA Stage 4B-1 Diversion the
TTA330	TTA Shift Lane for C1/C2 interface Final Stage (N/B)	-76	0%	0 03-Jan-14		🔷 TTA Shift L
TTA340	TTA Shift Lane for C1/C2 interface Final Stage (S/B)	-58	0%	0 10-Dec-13		♦ TTA Shift Lar
TTA350	TTA Shift Lane for C2/C3 interface at TWSRW Road (Transition)	48	0%	0 26-Nov-13		🔶 TTA Shift:Lane
TTA360	TTA Shift Lane for C2/C3 interface (N/B)	22	0%	0 27-Dec-13		♦ TTA Shift La
TTA370	TTA Shift Lane for C2/C3 interface (S/B)	-24	0%	0 24-Feb-14		🔶 TTA Sh
Section 1						
Site Area	SA21					
PHSA2120	Possession of SA21 (Day141)		100%	0 16-Jul-10 A		♦ Possession of \$A21 (Day141)
SA210000	Site Area SA21 Works Period	171	96.08%	1076 16-Jul-10 A	07-Jan-14	Site Area S
SA210010	Site Area SA21 Works Completion	171	0%	0	07-Jan-14	│
SA210020	Temporary Traffic Management (Detail shall refer to supplementary information)	138	96.19%	872 16-Jul-10 A	07-Jan-14	Temporary
SA210030	Overall Utilities Diversion (Detail shall refer to supplementary information)	138	96.19%	872 16-Jul-10 A	07-Jan-14	Overall Util
North Bou	und					
Preliminar						
S21N0000	Site Clearance/Access Rd & acquisition of Sub-con		100%	63 15-Oct-10 A	30-Dec-10 A	Site Cléarance/Access Rd & acquisition of Sub-con
Slopework	(S					
S21N5000	Slopeworks Fill(S21)	-79	90%	10 16-Feb-12 A	05-Dec-13	Slopeworks F
S21N5010	U-Channel and Berm	-59	50%	10 05-Oct-13 A	11-Dec-13	U-Qhạnŋel a
S21N5100	Slopeworks Cut (S22)	-63	93.53%	266 17-Feb-11 A	16-Dec-13	Slopeworks (
S21N5110	Slopeworks Cut (S22) - Stage 1 (Upper +59mPD)		100%	72 17-Feb-11 A	20-May-11 A	Slopeworks Cut (\$22) - Stage 1 (Upper +59mPD)
S21N5120	Slopeworks Cut (S22) - Stage 2 (Middle +57mPD)		100%	72 26-Oct-11 A	20-Jan-12 A	Slopeworks Cut (S22) - Stage 2 (Middle +57mPD)
S21N5130	Slopeworks Cut (S22) - Stage 3 (Lower +55mPD)	-79	90%	72 28-May-12 A	04-Dec-13	Slopeworks C
S21N5140	U-Channel and Berm	-63	50%	20 05-Oct-13 A	16-Dec-13	U-Çhannel a
S21N5210	Slopeworks Fill(S24)	-74	90%	55 14-Jan-13 A	02-Dec-13	Slopeworks;F
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 Stab
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 Culvett (TP9), Upstream (CSD 3) (incl. VO.22)
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	05-Jul-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	31-Dec-11 A	Construction of Top Slab
Constructi	ion of Retaining Wall	11				
Retaining	-					
S21N2000	Sheet Pile/Excavate & Construct W35		100%	53 26-Mar-11 A	02-Jun-11 A	Sheet Pile/Excavate & Construct W35
S21N2010	Opencut excavation		100%	18 26-Mar-11 A	16-Apr-11 A	Opencut excavation
S21N2020	Construction of W35 Structure		100%	30 26-May-11 A	18-Jun-11 A	Construction of W35 Structure
S21N2030	Backfilling		100%	14 26-Jul-11 A	10-Aug-11 A	D Backfilling
/	Wall W36					

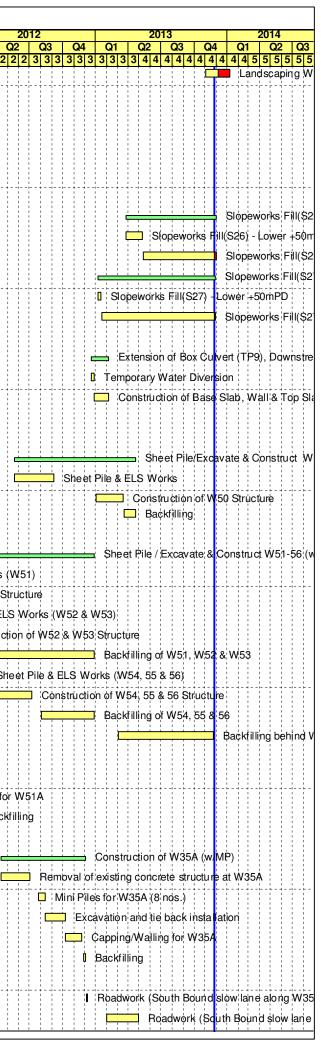
tivity	/ ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010 2011 21 Q2 Q3 Q4 Q1 Q2 Q3 Q 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 2 2	Q4 Q1 Q2 22222222
	S21N2100	Sheet Pile/Excavate & Construct W36		100%	85	11-Aug-11 A	23-Apr-12 A		
	S21N2110	Opencut excavation		100%	12	11-Aug-11 A	24-Aug-11 A	D Ope	encult excavation
	S21N2120	Construction of W36 Structure		100%	50	19-Sep-11 A	23-Apr-12 A		¢
	S21N2130	Backfilling		100%	0	06-Feb-12 A	18-Feb-12 A		Baokf
	S21N2140	Backfilling behind W36 and drainage works	-60	80%	70	04-Mar-13 A	11-Dec-13		
	Retaining W	all W38 (AD4)					1		
	S21N2210	Pre-drilling		100%	24	26-Feb-11 A	25-Mar-11 A	🗖 Pré-drilling	
	S21N2220	Prepare Piling Platform for W38		100%	30	26-Feb-11 A	01-Apr-11 A	🔲 Prepare Piling	Platform for W3
	S21N2225	COD: Mobilization of 1 no. rig from W56B to W38 for piling work		100%	60	14-Mar-11 A	27-Jun-11 A		obilization of 1 r
	S21N2230	Pile for W38 (2 rig)		100%	141	26-Mar-11 A	22-Jun-11 A	Pile for V	W38 (2 rig)
	S21N2231	Installation of Piles - Stage 1 (CH2470-2545)		100%	69	26-Mar-11 A	22-Jun-11 A		ion of Piles - Sta
	S21N2232	Installation of Piles - Stage 2 (Remain)		100%	72	12-Apr-11 A	22-Jun-11 A		lon of Piles - Sta
	S21N2240	Retaining Wall & Drainage W38		100%	230	27-Jun-11 A	24-Dec-12 A		
╟	S21N2242	Excavation to +54.5mPD		100%	60	27-Jun-11 A	05-Sep-11 A	—	cavation to +54.
┠	S21N2244	Excavation to formation		100%			06-Dec-11 A	—	Excavation
╟	S21N2250	Construction of Base & Wall - Stage 1 (CH2470 - 2520)		100%		07-Dec-11 A		—	Constru
┝	S21N2252	Backfilling to road formation - Stage 1 (CH2470 - 2520)		100%			18-Feb-12 A		Backf
┞	S21N2252	Construction of Base & Wall - Stage 2 (Ch2520 - 2600)		100 %			29-Sep-12 A		
┞							29-Sep-12 A 24-Dec-12 A		. I I I <mark></mark>
┞	S21N2256	Backfilling to formation level - Stage 2 (CH2520 - 2600)		100%					
L	S21N2266	Backfilling behind W38 and drainage works	-49	95%	70	04-Mar-13 A	29-INOV-13		
F		all W39 (CDS 3)		1000(	10	07.1.44.4			
ŀ	S21N2302	Clearing & Prepare Piling Platform & Pre-drilling for W39		100%			09-Jul-11 A	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	ng & Prepare Pili
_	S21N2304	Piling Works		100%		03-Oct-11 A	14-Nov-11 A		Piling Works
	S21N2306	Sheet Pile/ Excavate & Construct W39		100%		-	01-Dec-12 A		
L	S21N2307	Opencut Excavation		100%		-	03-Sep-12 A		
	S21N2308	Construction of W39 Structure		100%	50	04-Sep-12 A	21-Nov-12 A		
	S21N2309	Backfilling		100%	12	26-Nov-12 A	01-Dec-12 A		
	S21N2319	Backfilling behind W39 and drainage works	-60	80%	70	04-Mar-13 A	11-Dec-13		
	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	<b>a</b>	Clearing & Prep
	S21N2314	Excavation for W40		100%	12	20-Aug-12 A	06-Sep-12 A		
	S21N2316	Construct W40		100%	40	07-Sep-12 A	13-Oct-12 A		
	S21N2326	Backfilling		100%	11	20-Dec-12 A	29-Dec-12 A		
	S21N2336	Backfilling behind W40 and drainage works	-74	60%	70	04-Mar-13 A	30-Dec-13	—	
	Retaining W	all W41A							I     I     I     I     I     I       I     I     I     I     I     I     I       I     I     I     I     I     I     I
ſ	S21N2400	Sheet Pile/Excavate & Construct W41A		100%	72	26-Sep-11 A	25-Nov-11 A		Sheet Pile/E
ŀ	S21N2410	Opencut Excavation		100%	7	26-Sep-11 A	04-Oct-11 A		Opencut Excava
ŀ	S21N2420	Construction of W41A Structure		100%		05-Oct-11 A		—	Construction of
ŀ	S21N2430	Backfilling		100%			25-Nov-11 A		Backfilling
	Retaining W	all W41B							9
Г	S21N2618	Sheet Pile/Excavate & Construct W41B	1	100%	71	26-Sep-11 A	25-Nov-11 A	—	Sheet Pile/E
╟	S21N2628	Opencut Excavation		100%		26-Sep-11 A			Opencut Excava
┝	S21N2648	Construction of W41B Structure		100%		05-Oct-11 A		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Construction of
┝	S21N2658	Backfilling		100%			25-Nov-11 A		Backfilling
4		all W45-48/A		10076	17				
		Sheet Pile/Excavate & Construct W45-48/A		100%	174	01-Mar-11 A	11- lan-19 A		
ſ	SOT KIDENN								
	S21N2500 S21N2510	Opencut Excavation (W45, W46 & W47)		100%			23-Nov-11 A		Dpencut Exc

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	Activity Name	Total	Activity 0/	Original Start	Finich	2010 2011 2012 2013 2014
ctivity ID	Activity Name		Activity % Complete	Original Start Duration	Finish	21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 A Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
S21N2530	Construction of RW Structure (W47)		100%	75 01-Mar-12 A	25-Aug-12 A	1234567891111111111122222222222333333333344444444
S21N2540	Construction of RW Structure (W48)		100%	45 13-Apr-12 A	19-Nov-12 A	Construction of RW Structure (W48)
S21N2550	Construction of RW Structure (W48A)		100%	60 01-Apr-11 A	06-May-11 A	Construction of RW Structure (W48A)
S21N2560	Backfilling W47, W48 & W48A		100%	40 28-Aug-12 A	11-Jan-13 A	Backfilling W47, W48 & W48A
S21N2570	Construction of RW Structure (W45)		100%	75 26-Jan-12 A	04-Jun-12 A	Construction of RW Structure (W45)
S21N2580	Construction of RW Structure (W46)		100%	75 01-Mar-12 A	26-May-12 A	Construction of RW Structure (W46)
S21N2590	Backfilling W45 & W46		100%	40 28-Aug-12 A	20-Oct-12 A	Backfilling W45 & W46
S21N2600	Backfilling behind W45 to W48 and drainage works	-63	75%	70 04-Mar-13 A	16-Dec-13	Backfilling
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 Platform & Pre-drilling for W49
S21N2610	Sheet Pile/Excavate & Construct W49		100%	96 26-Mar-11 A	26-Jul-11 A	Sheet Pile/Excavate & Construct W49
S21N2620	Opencut Excavation		100%	18 26-Mar-11 A	16-Apr-11 A	Opencut Excavation
S21N2630	Construction of W49 Structure		100%	36 08-Mar-11 A	20-Aug-11 A	Construction of W49 Structure
S21N2640	Backfilling		100%	15 22-Aug-11 A	12-Nov-11 A	Backfilling
S21N2650	Backfilling behind W49 and drainage works		100%	70 04-Mar-13 A		 ₽
Road Re-Co	onstruction Works, Roadworks & Drainage					
S21N4000	Road works Slow Lane (Ch2400 ~ 2650)		100%	20 14-Dec-12 A	04-Jan-13 A	□ Road works Slow Lane (Ch2400 ~ 26
S21N4010	Road works Slow Lane (Ch2650 ~ 2840)		100%	20 10-Jan-13 A	11-Apr-13 A	Road works Slow Lane (Ch26
S21N4100	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-76	77.44%	133 06-Aug-11 A	02-Jan-14	Róadwor
S21N4110	Removal of existing paving		100%	25 06-Aug-11 A	13-Jul-13 A	Removal of existing pa
S21N4120	Drainages (incl. VO 33 : Drainage details at W48)		100%	25 06-Aug-12 A	05-Apr-13 A	Drainages (in cl. VØ 33): Drain
S21N4130	Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Watermain at Ma	-53	70%	25 08-Jul-13 A	04-Dec-13	Utilities (inc
	WO Subway TP9)					
S21N4135	Road Surface (Stage 1: CH2400 - CH2520)		100%	75 26-Dec-11 A	24-Feb-12 A	Road Surface (Stage 1: CH2400 - CH2520)
S21N4140	Road Surface (Stage 2 : CH2520 - CH2840)	-76	60%	75 08-Jan-13 A	02-Jan-14	Rộaợ Sur
S21N4141	Road Construction Works (CH2600 - CH3000) for traffic diversion stage 4B-1		100%	75 10-Jan-13 A	04-May-13 A	Road Construction Works (
S21N4142	Road Construction Works (Fast Lane) for C1/C2 Interface stage 6B		100%	40 21-Jan-13 A	11-May-13 A	Rpad Construction Works (I
S21N4143	Road Construction Works (Mid Lane) for C1/ C2 Interface stage 7B		100%	28 13-May-13 A	09-Jun-13 A	Road Construction Works
S21N4144	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 8B		100%	27 10-Jun-13 A	06-Jul-13 A	Road Construction Wo
S21N4145	Road Construction Works for C1/ C2 Interface Final stage	-67	40%	36 08-Jul-13 A	20-Dec-13	Road Con
S21N4150	Shift lane for C1/C2 Interface (Stage 1)		100%	0 27-Feb-12 A		Shift lane for C1//C2 Interface (Stage 1)
S21N4152	Shift lane for C1/C2 interface (Stage 2: North Bound along W38 to W46)		100%	0 20-Jan-13 A		Shift lane for C1/ C2 interface (Stag
S21N4153	Shift lane for (CH2600 - CH3000) stage 4B-1		100%	0 05-May-13 A		Shift lahe for CH2600 - CH
S21N4155	Shift lane for C1/ C2 Interface stage 6B		100%	0 12-May-13 A		♦ Shift lạne for C1/ C2 Interfa
S21N4156	Shift lane for C1/ C2 Interface stage 7B		100%	0 09-Jun-13 A		♦ Shift lane for C1/ C2 Inter
S21N4157	Shift lane for C1/ C2 Interface stage 8B		100%	0 07-Jul-13 A		Shift lane for C1/ C2 Int
S21N4160	Shift lane for C1/C2 interface Final stage	-76	0%	0 03-Jan-14		Shift:lane
Noise Barrie	ers & Road Barriers					
Noise Barrie	er NB31					
S21N3010	NB31 (CH 0-183.6, W39 - W49)		100%	80 07-Nov-12 A	17-Jan-13 A	NB31 (CH 0-183.6, W39 - W49)
S21N3060	NB31 : Excavation and Footing (Bay 1-4)		100%	24 07-Nov-12 A	05-Jan-13 A	NB31 : Excavation and Footing (Bay
S21N3070	NB31 : Excavation and Footing (Bay 5 - 7)		100%	24 01-Dec-12 A	08-Jan-13 A	NB31 : Excavation and Footing (Bay
S21N3080	NB31 : Erecting H-Column		100%	18 02-Jan-13 A	10-Jan-13 A	INB31 : Erecting H+Column
S21N3090	NB31 (CH 90-183.6) : Installation Panel		100%	18 11-Jan-13 A	17-Jan-13 A	I NB31 (CH:90-183.6) : Installation Pa
S21N3100	Remaining NB31 Installation of Panel	-46	98.01%	7 27-Jun-13 A	26-Nov-13	Remaining t
Traffic Cont	trol & Survelance System					
	TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)		100%	50 10-Jan-13 A	07-Sep-13 A	T¢ <mark>\$</mark> S (Gantry G23
Landscapin				I		

ity ID	Activity Name	Total	Activity %	Original		Finish		2010		2011		
		Float	Complete	Duration			21 Q2 1 2 3 4		Q4 Q1	Q2 1 1 1 1 1	Q3 Q4	
S21N6000	Landscaping Works	-79	10%	25	02-Nov-13 A	07-Jan-14						
South Bou	Ind											
Preliminari												
S21S0000	Site Clearance/Access Rd		100%	48	15-Oct-10 A	10-Dec-10 A			Site C	1.1.1.1.	Access Ro	
S21S0010	Site Clearance		100%	36	15-Oct-10 A	26-Nov-10 A			🗖 Site Cl	1 1 1 1		
S21S0030	Access Road		100%	34	02-Nov-10 A	10-Dec-10 A				s Road		
Slopework									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		
S21S5000	Slopeworks Fill(S26)	-78	85.94%		25-Mar-13 A							
S21S5010	Slopeworks Fill(S26) - Lower +50mPD		100%		25-Mar-13 A	-						
S21S5020	Slopeworks Fill(S26) - Upper +55mPD	-78	75%		13-May-13 A							
S21S5100	Slopeworks Fill(S27)	-76	97.5%		09-Jan-13 A							
S21S5110	Slopeworks Fill(S27) - Lower +50mPD		100%		09-Jan-13 A							
S21S5120	Slopeworks Fill(S27) - Lower +55mPD	-76	95%	60	18-Jan-13 A	28-Nov-13						
	of Culverts											
S21S1100	Extension of Box Culvert (TP9), Downstream		100%		20-Dec-12 A							
S21S5130	Temporary Water Diversion		100%	12	20-Dec-12 A	28-Dec-12 A						
S21S5140	Construction of Base Slab, Wall & Top Slab		100%	48	29-Dec-12 A	06-Feb-13 A						
Construction	on of Retaining Wall											
Retaining V	Nall W50								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			
S21S2000	Sheet Pile/Excavate & Construct W50 (w/SP)		100%	215	21-May-12 A	23-Apr-13 A						
S21S2010	Sheet Pile & ELS Works		100%	24	21-May-12 A	07-Sep-12 A						
S21S2020	Construction of W50 Structure		100%		02-Jan-13 A							
S21S2030	Backfilling		100%	50	20-Mar-13 A	23-Apr-13 A						
	Nall W51-56 (CSD 3)											
			100%		25-Feb-11 A							
S21S2110	Sheet Pile & ELS Works (W51)		100%			11-May-11 A				She	et Pile & E	LS Works (V
S21S2120	Construction of W51 Structure		100%	42	19-Apr-11 A	14-Jun-11 A						
S21S2130	Sheet Pile & ELS Works (W52 & W53)		100%	24	28-Jul-11 A	16-Sep-11 A					She	et Pile & ELS
S21S2140	Construction of W52 & W53 Structure		100%	42	17-Oct-11 A	05-Dec-11 A						Constructio
S21S2150	Backfilling of W51, W52 & W53		100%	24	17-Jan-12 A	27-Dec-12 A						
S21S2160	Sheet Pile & ELS Works (W54, 55 & 56)		100%	24	17-Feb-12 A	03-Mar-12 A						🛛 She
S21S2170	Construction of W54, 55 & 56 Structure		100%	75	15-Feb-12 A	06-Jul-12 A						
S21S2180	Backfilling of W54, 55 & 56		100%	30	02-Aug-12 A	27-Dec-12 A						
S21S2190	Backfilling behind W51 to W56 and drainage works		100%	70	04-Mar-13 A	25-Nov-13 A				$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Retaining V	Nall W51A (CSD 3)											
S21S2163	Excavate to cut-off level		100%	8	17-Jan-11 A	25-Jan-11 A			0 E>	cavate to	cut-off lev	rel
S21S2164	Capping/Walling for W51A		100%	18	12-Jul-11 A	01-Aug-11 A					l Capping	g/Walling for
S21S2165	Backfilling		100%	30	28-Dec-11 A	04-Feb-12 A						🔲 Backfi
Retaining V	Nall W35A, (CSD 2)											
S21S2211	Construction of W35A (w/MP)		100%	198	13-Apr-12 A	05-Dec-12 A						
S21S2212	Removal of existing concrete structure at W35A		100%	35	13-Apr-12 A	03-Jul-12 A				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S21S2218	Mini Piles for W35A (8 nos.)		100%	30	25-Jul-12 A	14-Aug-12 A				-  +	-             	
S21S2230	Excavation and tie back installation		100%	25	15-Aug-12 A	09-Oct-12 A						
S21S2240	Capping/Walling for W35A		100%	40	10-Oct-12 A	24-Nov-12 A						
S21S2250	Backfilling		100%	6	29-Nov-12 A	05-Dec-12 A						
Road Re-co	onstruction Works, Roadworks & Drainage					<u> </u>						
S21S3895	Roadwork (South Bound slow lane along W35A)		100%	6	06-Dec-12 A	09-Dec-12 A			-+- -+ -++++++++++++++++++++++++++	-   +              	             	- +
S21S3896	Roadwork (South Bound slow lane along W50 - W56)		100%	00	01-Feb-13 A	00 4 40 4				1 1 1 1		



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		Float	Complete	Duration		21 1 2 3	Q2 3 4 5 6	Q3 6 7 8 9	Q4 C	Q1 1 1 1	Q2	Q3	Q4   0	Q1 0
S21S3900	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-74	91.83%	150 25-Jan-13 A	10-Dec-13									
S21S4001	Removal of Existing Paving	-74	75%	40 25-Jan-13 A	06-Dec-13				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
S21S4002	Drainages (incl. VO33: Drainage details at W48)	-76	50%	30 14-Sep-13 A	12-Dec-13									
S21S4003	Utilities (incl. VO 26 & VO69)	-76	50%	30 27-Jul-13 A	02-Jan-14									
S21S4010	Road Surface (CH2400 - CH2840)	-74	65%	65 04-Mar-13 A	06-Jan-14									
S21S4011	Road Construction Works (Fast Lane) for C1/C2 Interface stage 4A		100%	40 21-Jan-13 A	13-Apr-13 A				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
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	-74	95%	45 02-Jul-13 A	10-Dec-13									
S21S4030	Shift lane for C1/C2 interface (South Bound along W35A)		100%	0 09-Dec-12 A										
S21S4031	Shift lane for C1/C2 Interface stage 4A		100%	0 14-Apr-13 A					$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
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 10-Dec-13										
Noise Barrie	ers			· · · · ·	,									
Noise Barrie	er NB29													
S21S3010	NB29A (CH 0-62.3) on W35A (incl. VO 9: Construction of double leaf access door for noise barrier)	-46	97.5%	20 01-Aug-13 A	26-Nov-13									
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	-46	95%	10 27-Aug-13 A	26-Nov-13									
Noise barrie														
S21S3020	NB30 (CH 0-201.9) (incl. VO 9: Construction of double leaf access door for noise barrier)	-47	99.04%	104 01-Aug-12 A	26-Nov-13									
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				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
S21S3027	NB30 - Excavation and Footing (bay 4 - bay 12)		100%	45 02-Jul-13 A	18-Sep-13 A	1 1								
S21S3028	NB30 : Erecting H-Column		100%	10 16-Sep-13 A	09-Nov-13 A									
S21S3029	NB30 : Installing Panel	-47	90%	10 17-Oct-13 A	26-Nov-13									
Noise Barrie	er NB33													
S21S3030	NB33 (CH 0-143) (incl. VO 9: Construction of double leaf access door for noise barrier)		100%	102 01-Sep-12 A	09-Nov-13 A									
S21S3031	NB33 : Excavation, construction of Footing & Backfilling (bay 3 - bay 13)		100%	75 01-Sep-12 A	10-Jan-13 A				+-+-+-					
S21S3032	NB33 : Erecting H-Column (bay 3 - bay 13)		100%	15 14-Jan-13 A	17-Jan-13 A									
S21S3033	NB33 : Installing Panel (bay 3 - bay 13)		100%	12 25-Jan-13 A	02-Mar-13 A									
S21S3034	NB33 : Excavation, construction of Footing & Backfilling (bay 1 - bay 2)		100%	15 07-Mar-13 A	21-Mar-13 A				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
S21S3035	NB33 : Erecting H-Column (bay 1 - bay 2)		100%	7 26-Apr-13 A	27-Apr-13 A									 
S21S3036	NB33 : Installing Panel (bay 1 - bay 2)		100%	7 17-Oct-13 A	09-Nov-13 A									
Traffic Cont	trol & Survelance System													
S21S4800	TCSS (Gantry G60A) (incl. VO73 Revised Sign Gantry Details)	-74	60%	45 02-Jul-13 A	30-Dec-13									
Landscapin	ıg								$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
S21S6000	Land scaping Works	-79	0%	25 02-Nov-13 A	07-Jan-14									
Middle Lan	10													
Road Re-co	Instruction Works													
S21M4030	Roadworks, Drainage & Utilities (CH 2400 - 2840)	-67	67.69%	65 08-May-12 A	19-Dec-13									
S21M4035	Removal of Central barrier & Roadmark		100%	25 08-May-12 A	06-Jun-13 A									
S21M4040	Removal of Existing Paving		100%	25 18-May-12 A	06-Jun-13 A		-		1 1 1 İ		1 1 1			

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rity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011
		Float	Complete	Duration			21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2
S21M380	Excavate to cut-off level (Stage 1: Bay 1 - Bay 2)		100%	7	31-Jan-13 A	25-Feb-13 A	
S21M390	Construction for NB32 (Stage 1: Bay 1 - Bay 2)		100%	15	25-Feb-13 A	16-Mar-13 A	
S21M391	Excavate to cut-off level (Stage 2: Bay 3 - Bay 26)		100%	15	18-May-13 A	10-Aug-13 A	
S21M392	Construction for NB32 (Stage 2: Bay 3 - Bay 26 with G23A and G60A)		100%	50	31-May-13 A	07-Sep-13 A	
S21M393	Erecting H-Column, NB32		100%	20	05-Sep-13 A	26-Sep-13 A	
S21M394	Installing Panel & Road Barrier, NB32	-47	95%	30	05-Sep-13 A	27-Nov-13	
S21M400	Backfilling (Stage 1: Bay 1 - Bay 2)		100%	10	18-Mar-13 A	20-Apr-13 A	
S21M401	Backfilling (Stage 2: Bay 3 - Bay 26)	-67	90%	20	15-Jul-13 A	27-Nov-13	
S21M403	Road Lighting Works	-67	70%	10	29-Apr-13 A	30-Nov-13	
S21M404	Remaining Roadworks & Road Surfacing	-67	60%	40	03-Oct-13 A	19-Dec-13	
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	-53	0%	7	26-Nov-13	03-Dec-13	
HRW0011	Ready For Pre-Handover Retaining Wall W35A, W50, W51, W52, W53, W54, W55, W56	-53	0%	7	26-Nov-13	03-Dec-13	
Section 2							
Site Area S	SA22						
PHSA2220	Possession of SA22 (Day0)		100%	0	26-Feb-10 A		♦ Possession of SA22 (Day0)
SA220000	Site Area SA22 Works Period (incl. VO 28: Provision of hoarding at site boundry of	127	92.93%	1216	26-Feb-10 A	19-Feb-14	
SA220010	Site Area SA22 Works Completion	127	0%	0		19-Feb-14	
SA220020	Temporary Traffic Management (Detail shall refer to supplementary information)	127	91.27%	985	25-Feb-10 A	19-Feb-14	
SA220030	Overall Utilities Diversion (Detail shall refer to supplementary information)	127	91.27%	985	25-Feb-10 A	19-Feb-14	
North Bou	nd						
Preliminari	es						
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	01-Apr-10 A	Site Clearance - Stage 1 (Near W56A)
S22N0002	Access Road - Stage 1 (Near W56A)		100%	30	22-Mar-10 A	29-Apr-10 A	Access Road - Stage 1 (Near W56A)
S22N0003	Site Clearance - Stage 2 (Near W56B)		100%				
			100 /0	30	19-Apr-10 A	25-May-10 A	🗔 Site Clearance - Stage 2 (Near W56B)
S22N0004	Access Road - Stage 2 (Near W56B)		100%		19-Apr-10 A 13-May-10 A		Site Clearance - Stage 2 (Near W56B)
S22N0004 S22N0030	Access Road - Stage 2 (Near W56B) Erection of Temp Safety Fence (N/B ch2840-3150)			30	•	18-Jun-10 A	Access Road - Stage 2 (Near W56B)
			100%	30 60	13-May-10 A	18-Jun-10 A 21-Jul-10 A	
S22N0030	Erection of Temp Safety Fence (N/B ch2840-3150)		100% 100%	30 60 30	13-May-10 A 10-May-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A	Access Road - Stage 2 (Near W56B)
S22N0030 S22N0040	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)		100% 100% 100%	30 60 30	13-May-10 A 10-May-10 A 10-May-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A	Access Road - Stage 2 (Near W56B) Erection of Temp Safety Fence (N/B ch2840-3150 Erection of Temp Safety Fence (N/B ch2840-3000)
S22N0030 S22N0040 S22N0050	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)		100% 100% 100%	30 60 30 30	13-May-10 A 10-May-10 A 10-May-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150
S22N0030 S22N0040 S22N0050 Slopeworks	Erection of Temp Safety Fence (N/B ch2840-3150) Erection of Temp Safety Fence (N/B ch2840-3000) Erection of Temp Safety Fence (N/B ch3000-3150)		100% 100% 100% 100%	30 60 30 30 421	13-May-10 A 10-May-10 A 10-May-10 A 15-Jun-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Erection of Temp Safety Fence (N/B ch3000-3150     Erection of Temp Safety Fence (N/B ch3000-3150
S22N0030 S22N0040 S22N0050 Slopeworks S22N5000	Erection of Temp Safety Fence (N/B ch2840-3150) Erection of Temp Safety Fence (N/B ch2840-3000) Erection of Temp Safety Fence (N/B ch3000-3150) S Slopeworks Cut & U-Channel/Berm (S29-sn), C4		100% 100% 100% 100%	30 60 30 30 421 12	13-May-10 A 10-May-10 A 10-Jun-10 A 15-Jun-10 A 22-Jul-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (\$29) & U-channel/Berm - Stage 1 (0)
S22N0030 S22N0040 S22N0050 Slopeworks S22N5000 S22N5010	Erection of Temp Safety Fence (N/B ch2840-3150)         Erection of Temp Safety Fence (N/B ch2840-3000)         Erection of Temp Safety Fence (N/B ch3000-3150)         S         Slopeworks Cut & U-Channel/Berm (S29-sn), C4         Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)		100% 100% 100% 100% 100%	30 60 30 30 421 12 12	13-May-10 A 10-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Erection of T
S22N0030 S22N0040 S22N0050 S10peworks S22N5000 S22N5010 S22N5020	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)		100% 100% 100% 100% 100% 100%	30 60 30 30 421 12 12 50	13-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 26-Mar-11 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-Channel/Berm - Stage 1 (5
S22N0030           S22N0040           S22N0050           Slopeworks           S22N5000           S22N5010           S22N5020           S22N5040	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)		100% 100% 100% 100% 100% 100% 100%	30 60 30 30 421 12 12 50 21	13-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 26-Mar-11 A 19-Aug-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A 19-Oct-10 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-Channel/Berm - Stage 1 (0     Slopeworks (S29) & U-Channel/Berm - Stage 2
S22N0030 S22N0040 S22N0050 S10peworks S22N5000 S22N5010 S22N5020 S22N5020 S22N5040 S22N5050	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)		100% 100% 100% 100% 100% 100% 100% 100%	30 60 30 421 12 12 50 21 28	13-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 26-Mar-11 A 19-Aug-10 A 02-Apr-11 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A 19-Oct-10 A 30-Apr-11 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-Channel/Berm - Stage 2     Slopeworks (S29) & U-Channel/Berm - Stage 2     Slopeworks (S29) & U-Channel/Berm - Stage 2
S22N0030 S22N0040 S22N0050 S10peworks S22N5000 S22N5010 S22N5020 S22N5040 S22N5050 S22N5050 S22N5070	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)Slopeworks (S29) & U-Channel/Berm - Stage 3 (Cutslope)		100% 100% 100% 100% 100% 100% 100% 100%	30 60 30 421 12 12 50 21 28 36	13-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 26-Mar-11 A 19-Aug-10 A 02-Apr-11 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A 19-Oct-10 A 30-Apr-11 A 13-Nov-10 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (S29) & U-channel/Berm - Stage 1 ((     Slopeworks (S29) & U-channel/Berm - Stage 1     Slopeworks (S29) & U-Channel/Berm - Stage 2     Slopeworks (S29) & U-Channel/Berm - Stage 2     Slopeworks (S29) & U-Channel/Berm - Stage 2
S22N0030           S22N0040           S22N0050           Slopeworks           S22N5000           S22N5010           S22N5020           S22N5020           S22N5050           S22N5050           S22N5050           S22N5050           S22N5050           S22N5070           S22N5080	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)		100% 100% 100% 100% 100% 100% 100% 100%	30 60 30 421 12 12 50 21 28 36 36	13-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 26-Mar-11 A 19-Aug-10 A 02-Apr-11 A 21-Oct-10 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A 19-Oct-10 A 30-Apr-11 A 13-Nov-10 A 08-Aug-11 A 07-Dec-11 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-Channel/Berm - Stage 2
S22N0030           S22N0040           S22N0050           Slopeworks           S22N5010           S22N5020           S22N5040           S22N5050           S22N5050           S22N5070           S22N5080           S22N5100	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)Slopeworks (S29) & U-Channel/Berm - Stage 4 (Cutslope)		100% 100% 100% 100% 100% 100% 100% 100%	30 60 30 421 12 12 50 21 28 36 36 36	13-May-10 A 10-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 22-Jul-10 A 22-Jul-10 A 22-Jul-10 A 20-Apr-11 A 21-Oct-10 A 26-Oct-11 A	18-Jun-10 A 21-Jul-10 A 21-Jul-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A 19-Oct-10 A 30-Apr-11 A 13-Nov-10 A 08-Aug-11 A 07-Dec-11 A 28-Nov-11 A	Access Road - Stage 2 (Near W56B)     Erection of Temp Safety Fence (N/B ch2840-3150     Erection of Temp Safety Fence (N/B ch2840-3000)     Erection of Temp Safety Fence (N/B ch3000-3150     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-channel/Berm - Stage 1 (0     Slopeworks (S29) & U-channel/Berm - Stage 2     Slopeworks (S29) - Stage 2     Slopeworks (S29) - Stage 2     Slopeworks (S29) - Stage 2     Slopeworks (S29) - Stage 2     Slopeworks (S29) - Stage 2     Slopeworks (S29) - Stage 2     Slopeworks (S29) - Stage 2
S22N0030           S22N0040           S22N0050           Slopeworks           S22N5000           S22N5010           S22N5020           S22N5020           S22N5050           S22N5050           S22N5050           S22N5050           S22N5070           S22N5080           S22N5110	Erection of Temp Safety Fence (N/B ch2840-3150)Erection of Temp Safety Fence (N/B ch2840-3000)Erection of Temp Safety Fence (N/B ch3000-3150)SSSlopeworks Cut & U-Channel/Berm (S29-sn), C4Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)Slopeworks (S29) - Stage 4 (Soil Nail Installation : EFGH)		100% 100% 100% 100% 100% 100% 100% 100%	30 60 30 421 12 12 50 21 28 36 36 36 36	13-May-10 A 10-May-10 A 10-May-10 A 15-Jun-10 A 22-Jul-10 A 22-Jul-10 A 22-Jul-10 A 23-Aug-10 A 19-Aug-10 A 21-Oct-10 A 27-Jun-11 A 26-Oct-11 A	18-Jun-10 A 21-Jul-10 A 14-Jun-10 A 21-Jul-10 A 21-Jul-10 A 17-Dec-11 A 04-Aug-10 A 09-Apr-11 A 19-Oct-10 A 30-Apr-11 A 13-Nov-10 A 08-Aug-11 A 07-Dec-11 A 28-Nov-11 A 31-Jan-13 A	Access Road - Stage 2 (Near W56B) Erection of Temp Safety Fence (N/B ch2840-3150 Erection of Temp Safety Fence (N/B ch2840-3000)
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ity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011 2012
		Float	Complete	Duration			11         Q2         Q3         Q4         Q1         Q1<
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
S22N2160	Base Slab for W56A		100%	141	05-Jul-11 A	19-Dec-11 A	Base Slab for W56A
S22N2165	Base Slab for W56A (Stage 1), South		100%	50	05-Jul-11 A	17-Sep-11 A	Base Slab 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
S22N2170	Wall Stem		100%	172	11-Aug-11 A	17-Nov-12 A	Wall
S22N2171	Wall Stem (Bay 1e & 1f)		100%	25	11-Aug-11 A	23-Sep-11 A	Wall Stem (Bay 1e & 1f)
S22N2173	Wall Stem (Bay 1c & 1d, 1a & 1b, 1g)		100%	25	26-Sep-11 A	26-Oct-11 A	🔲 🔲 Wall Stem (Bay 1c & 1d, 1a & 1b, 1
S22N2174	Wall Stem (Bay 2a, 2bnb, 2b)		100%	75	16-Jul-12 A	13-Oct-12 A	Wali Stu
S22N2175	Wall Stem (Bay 2c, 2d)		100%	30	06-Aug-12 A	03-Nov-12 A	Walls
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 W	Vall W56B (AD 1)						
S22N2210	Prepare Piling Platform for W56B		100%	37	02-Oct-10 A	11-Feb-11 A	Prepare Piling Platform for W56B
S22N2220	Pre-drilling for W56B		100%	37	02-Oct-10 A	15-Nov-10 A	Pre-drilling for W\$6B
S22N2240	Pipe Pile for W56B		100%	98	20-Nov-10 A	21-Mar-11 A	Pipe Pile for W56B
S22N2241	Pipe Pile for W56B - Stage 1		100%	75	20-Nov-10 A	23-Feb-11 A	Pipe Pile for W56B - Stage 1
S22N2242	Pipe Pile for W56B - Stage 2		100%	75	31-Jan-11 A	23-Sep-11 A	Pipe Pile for W56B - Stage 2
S22N2250	Construction of W56B		100%	276	17-Sep-11 A	06-Apr-13 A	
S22N2251	Excavation (W56B), upper		100%	75	17-Sep-11 A	05-Jan-12 A	Excavation (W56B), upper
S22N2252	Excavation (W56B), Middle		100%	60	06-Jan-12 A	26-May-12 A	Excavation (W/56E
S22N2254	Excavation (W56B), bottom		100%			29-Sep-12 A	Excavati
S22N2260	Base Slab (W56B), (Bay 1 -3)		100%		27-Jul-12 A	10-Sep-12 A	Base Slab
S22N2262	Base Slab (W56B), (Bay 4 - 8)		100%			10-Nov-12 A	Base
S22N2264	Base Slab (W56B), (Bay 9, 10 & 12A)		100%		' 27-Jul-12 A	13-Oct-12 A	Base \$I
S22N2270	Wall Stem (W56B), (Bay 1 - 3, Total 18 pours)		100%			06-Apr-13 A	
S22N2274	Wall Stem (W56B), (Bay 4 - 8, Total 30 pours)		100%			06-Apr-13 A	
S22N2276	Wall Stem (W56B), (Bay 9 - 10, Total 12 pours)		100%			06-Apr-13 A	
S22N2290	Backfilling (Bay 1 to Bay 3)		100%			19-Jan-13 A	
S22N2292	Backfilling (Bay 4 to Bay 10)		100%			05-Mar-13 A	
	& Drainage		10070				
S22N4000	Roadworks, Drainages & Utilities (CH 2840 - 3140)	-42	65.12%	129	15-Jan-13 A	20- lan-14	
S22N4000	Roadworks Stage 1 (CH 2840 - 3000)		100%			29-Mar-13 A	
S22N4010	Draina ges Stage 1 (CH2840 - 3000)		100 %			05-Mar-13 A	
S22N4030	Road Surface Works		100 %			23-Apr-13 A	
S22N4040 S22N4042	Roadworks Stage 2 (CH3000 - 3140)		100%			30-Jul-13 A	
S22N4042	Draina ges Stage 2 (CH3000 - 3140)		100%			11-Apr-13 A	
S22N4044	Road Surface Works		100%			18-Aug-13 A	
S22N4046	Road Construction Works Remain Fast Lane (along CH2840 - 3140)	-42	100%		25-Nov-13 A		
		-42	10 /0	50	20 NOV-10 A	20 0011-14	
Noise Barrie							
			100%	74	15 Oct 12 A	22-Nov-12 A	
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	22-110V-12 A	→ NB3
S22N3021	NB31A (CH 0-21.9) on W56A : Erecting H-Column		100%	2D	15-Oct-12 A	19-Oct-12 A	I_NB31A
S22N3021 S22N3022	NB31A (CH 0-21.9) on W56A : Installing Panel		100%			22-Nov-12 A	
			100%	30	22-001-12 A	22-11UV-12 A	
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S22S0020           Slopeworks           S22S5000           S22S5010           S22S5030           S22S5040           S22S5060           S22S5070	Site Clearance Access Road Slopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Slope S28)	Float	Complete 100%	Duration		11         Q2         Q3         Q4         Q1         Q3         Q4         Q1         Q2         Q2         Q2         Q2         Q2         Q2         Q3         Q3         Q3         Q3         Q3         Q3         Q3         Q3         Q3         Q3<
S22S0020           Slopeworks           S22S5000           S22S5010           S22S5030           S22S5040           S22S5060           S22S5070	Access Road		100%			
Slopeworks           S22S5000           S22S5010           S22S5030           S22S5040           S22S5060           S22S5070				72 01-Apr-10 A	02-Jul-10 A	Site Clearance
S22S5000           S22S5010           S22S5030           S22S5040           S22S5060           S22S5070			100%	72 20-Apr-10 A	16-Jul-10 A	Accesis Rolad
S22S5010           S22S5030           S22S5040           S22S5060           S22S5070	Slopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Slope S28)			,		
S22S5030           S22S5040           S22S5060           S22S5070			100%	198 21-Oct-10 A	17-Aug-11 A	Słopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Słope S28)
S22S5040 S22S5060 S22S5070	Slopeworks Cut(S28) - Stage 1 (Cutslope)		100%	23 21-Oct-10 A	16-Nov-10 A	Slopeworks Cut(S28) - Stage 1 (Cutslope)
S22S5060 S22S5070	Slopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)		100%	23 17-Nov-10 A	08-Feb-11 A	Stopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)
S22S5070	Slopeworks Cut(S28) - Stage 2 (Cutslope)		100%	37 11-Dec-10 A	03-Jan-11 A	Slopeworks: Cut(S28) - Stage 2 (Cutslope)
	Slopeworks Cut(S28) - Stage 2 (Soil Nail Installation : EFGH)		100%	37 08-Feb-11 A	23-Mar-11 A	Slopeworks Cut(\$28) - Stage 2 (Soil Nail Installation : EFGH)
S22S5090	Slopeworks Cut(S28) - Stage 3 (Cutslope)		100%	36 06-Jul-11 A	17-Aug-11 A	— Słopeworks Cut(S28) - Stage 3 (Cutslope)
	Slopeworks Cut(S28) - Stage 3 (Soil Nail Installation : ABCD)		100%	36 20-Aug-11 A	04-Oct-11 A	Slopeworks Cut(S28) - Stage 3 (Soil Nail Installation : ABCD)
S22S5100	Slope Reinstatement Works (Bridge 12B)	-62	0%	40 26-Nov-13	14-Jan-14	Slog
Construction	n of Retaining Wall					
Retaining Wa	-					
	Pre-drilling for RWB12B		100%	24 16-Jul-10 A	12-Aug-10 A	□ Pre-drilling for RWB12B
	Piles for RWB12B		100%	116 13-Aug-10 A	-	Piles for RWB12B
S22S2130	Excavate to cut-off level		100%	60 26-Jan-11 A		Excavate to cut-off level
	Capping/Walling for Bay 1-2, RWB12B		100%	60 28-Mar-11 A	10-May-12 A	Capping/Walling for Bay 1-2, RWB12B
	Capping/Walling for Bay 3-6, RWB12B		100%	75 11-May-12 A	-	Capping/Walling for Bay 3-6, RWB12B
	Backfilling		100%	60 04-Sep-12 A		Backfilling
	nstruction Works, Roadworks & Drainage					
	Road Re-construction Works (CH 2840 - 3450)	-65	63.19%	185 06-May-13 A	19-Eeb-14	
	Road and Drainages Works for Fast Lane (CH2840 - 3000)	-69	90%	45 06-May-13 A		Road a
	Road Surface Works for Fast Lane (CH2840 - 3000)	-69	0%	12 30-Nov-13	14-Dec-13	Road
	Road Re-Construction Works for Mid 2 Lane (CH2840 - 3000)	-69	0%	24 14-Dec-13	15-Jan-14	
	Road and Drainages Works for Fast and Mid Lane (CH3000 - 3450)	-69	0%	24 14-Dec-13	15-Jan-14	—
	Road Surface Works for Fast Lane and Mid Lane (CH3000 - 3450)	-69	0%	12 15-Jan-14	29-Jan-14	
	Road and Drainages Works for Slow Lane (CH2840 - 3450)			12 13-3an-14	15-Feb-14	
	Road Surface Works for Slow Lane (CH3000 - 3450)	-69 -69	0%	7 15-Feb-14	24-Feb-14	
	Road Construction Works Remaining Works (along CH2840 - 3450)				19-Feb-14	
		-65	0%	7 12-Feb-14		
	Roadworks for Realignment of Existing Shek Lin Road	-55	0%	18 15-Jan-14	07-Feb-14	
	rol & Survelance System		400/	50 40 0 40 4		
	TCSS - (Gantry 60) (incl. VO73 Revised Sign Gantry Details)	-69	40%	50 16-Sep-13 A	24-Feb-14	
	of Existing Bridge 12					
	Demolish Existing Parapet & Stitching Works for bridge 12 & 12B (incl. VO3 & VO29)	-65	2.86%	70 16-Sep-13 A		
	VO 3: Existing Bridge 12 pile cap construction		100%	30 17-Sep-10 A		VO 3: Existing Bridge 12 pile cap construction
	Removal of Existing Steel Barrier and Surface	-10	80%	8 22-Jul-13 A	27-Nov-13	Remov
	Stitching Works of Existing Bridge Decks B12 and B12B	-10	80%	20 08-Aug-13 A		Stitchin
	Road Surface of B12B for TW Slip Road	-10	0%	7 02-Dec-13	10-Dec-13	Road S
	Removal of existing central barrier along B12 and Erection breaking platform	-65	0%	12 16-Sep-13 A		Remov
	Breaking the existing stitch of B12 and condition survey	-65	0%	18 26-Nov-13	16-Dec-13	Break
	Removal M.J and Replacement M.J	-65	0%	8 17-Dec-13	27-Dec-13	📱 Remo
	Stitching Works for B12	-65	0%	35 28-Dec-13	11-Feb-14	s
S22S1332	Road Surface Works	-65	0%	7 12-Feb-14	19-Feb-14	
Landscaping	9					
S22S6000	Land scaping Works	-62	16.67%	30 23-Sep-13 A	15-Feb-14	
Site Area S	A23					
PHSA2320	Possession of SA23 (Day180)		100%	0 04-May-10 A		Possession of SA23 (Day180)

rity 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
SA230010	Site Area SA23 Works Completion	134	0%	0	13-Feb-14	21         Q2         Q3         Q4         Q1         Q4         Q4<
	·	134	0 /8	0	13-1 60-14	
South Bou						
Preliminari S23S0000	Site Clearance / Site Access		100%	144 28-Dec-11 A	24 Aug 12 A	Site Clearance / Sit
	Site Clearance			72 28-Dec-11 A	•	
S23S1000			100%			
S23S2000	Site Access		100%	72 28-Dec-12 A	24-Aug-13 A	Site Access
Slopework		i	1000/	00 00 Nov 10 A	04 lag 10 4	
S21N2638	Slopeworks Fill (S27)		100%	99 29-Nov-12 A		Slopeworks Fill (\$27)
S21N26381			100%	33 29-Nov-12 A		□ Slopeworks Fill (S27) - Stage 1, +45mP
	Slopeworks Fill (S27) - Stage 2, +50mPD		100%	33 08-Dec-12 A		☐ Slopeworks Fill (S27) - Stage 2, +50m
	Slopeworks Fill (S27) - Stage 3, +55mPD		100%	33 04-Jan-13 A	24-Jan-13 A	□ Slopeworks Fill (S27) - Stage 3, +55
Landscapir	- T					
S23S6000	Landscaping Works	-60	80%	50 23-Sep-13 A	13-Feb-14	Lands
Site Area S						
PHSA2410	Possession of SA24 (Day180)		100%	0 04-May-10 A		♦ Possession of SA24 (Day180)
SA240000	Site Area SA24 Works Period	-58	92.26%	788 04-May-10 A	25-Jan-14	Site Are
SA240010	Site Area SA24 Works Completion	152	0%	0	25-Jan-14	Site Ard
North Bou	ind					
Preliminari	ies					
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 Clearance
S24N0020	Access Road		100%	72 07-Sep-10 A	09-Dec-10 A	Access Road
Slopework	S S	I				
S24N5000	Slopeworks Cut(S31A)		100%	150 01-Jun-11 A	25-Nov-11 A	Slopeworks Cut(S31A)
S24N5010	Slopeworks Cut (S31A) & Soil Nail : Stage 1 (Upper +80mPD)		100%	60 01-Jun-11 A	06-Aug-11 A	Slopeworks Cut (S31A) & Soil Nail : Stage 1 (Upper +80mPD)
S24N5020	Slopeworks Cut (S31A) & Soil Nail : Stage 2 (Lower +72mPD)		100%	60 08-Aug-11 A	22-Oct-11 A	Slopeworks Cut (S31A) & Soil Nail ::Stage 2 (Lower +72mPD)
S24N5030	Slopeworks Cut (S31A) : Shortcreting		100%	30 24-Oct-11 A	25-Nov-11 A	Slopeworks Cut (S31A) : Shortcreting
S24N5810	Erect Scaffolding & Soil Nail Installation (Area 4)		100%	60 19-Mar-13 A	08-May-13 A	Erect Scaffolding & Soil Nai
S24N5831	Slope Reinstatement Works (Bridge 12ASA incl. VO74)	-21	70%	75 30-Apr-13 A	· ·	
	on of Retaining Wall					
	Wall W56B-2 (Bay 12) (AD)					
	Prepare Piling Platform for W56B-2		100%	24 02-Oct-10 A	07-Feb-11 A	Prepare Piling Platform for W56B-2
S24N2120			100%	18 28-Oct-10 A		Pre-drilling for W56B-2
S24N2130			100%	255 21-Jan-11 A		Retaining Wall W56B-2
S24N2130			100%	75 21-Jan-11 A		Piles for W56B-2 (Stage 2)
S24N2140			100%	75 26-Sep-11 A		E Fines for W 300-2 (Stage 2)
S24N2150			100%	60 26-Sep-11 A		Excavation, Middle
						Excavation, Middle
S24N2155			100%	75 11-May-12 A		
S24N2160			100%	75 27-Jul-12 A	-	Construction of Base Slab (Bay 12)
S24N2162			100%	40 01-Oct-12 A		Retaiping Wall Structure (Bay 12B)
	Drainage & Backfilling W56B-2		100%	75 27-Feb-13 A	22-May-13 A	Drainage & Backfilling W5
Retaining V					4 <b>-</b> 4	
S24N2200			100%	35 26-Jun-13 A	-	Construction of W57
S24N2202			100%	20 26-Jun-13 A		Construction of Struct
	Backfilling		100%	7 22-Jul-13 A	17-Aug-13 A	🗖 Backfilling
Retaining V	Wall W57B (AD 2)					
S24N2310	Prepare Piling Platform for W57B		100%	18 11-Jan-11 A	31-Jan-11 A	Prepare Piling Platform for W57B

/ity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011
		Float	Complete	Duration			21         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           1         2         3         4         5         6         7         8         9         1         1         1         1         1         1         1         1         1         2 <td< th=""></td<>
S24N2320	Pre-drill for W57B		100%	20	01-Apr-11 A	13-Apr-11 A	□ Pre÷drill for W57B
S24N2330	Piles for W57B		100%	45	01-Apr-11 A	14-May-11 A	Piles for W57B
S24N2340	Excavate at W57B		100%	75	26-May-11 A	23-Aug-11 A	Excavate at W57E
S24N2360	Retaining Wall W57B		100%	75	19-Apr-12 A	11-Dec-12 A	—
S24N2370	Backfilling & Drainage W57B		100%	60	25-Jan-13 A	17-Aug-13 A	
Retaining W	/all W57C, (CSD 2)					1	
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	Piles for W57C
S24N2407	Excavate to cut-off level		100%	75	26-May-11 A	23-Aug-11 A	Ex¢avate to cut-of
S24N2408	Retaining Wall, W57C		100%	75	19-Apr-12 A	13-Dec-12 A	
S24N2420	Backfilling & Drainage for W57C		100%	54	25-Jan-13 A	17-Aug-13 A	
Retaining W	/all RWB12A						
S24N1500	Piling & Construct RWB12A		100%	195	04-Jun-11 A	31-Jan-12 A	Piling
S24N1510	Piling of RWB12A, Stage 1 (28/34 nos)		100%	60	04-Jun-11 A	31-Aug-11 A	Piling of RWB12
S24N1515	Piling of RWB12A, Stage 2 (6nos)		100%	24	01-Sep-11 A	23-Sep-11 A	□ Piling of RWB1
S24N1517	Piles Load Test		100%		26-Nov-11 A		Piles Lu
S24N1520	Construction of Base Slab, RWB12A		100%		23-Apr-12 A		
S24N1522	Construction of Wall, RWB12A		100%		18-Apr-13 A	· ·	—
S24N1530	Backfilling		100%		09-May-13 A		—
S24N1540	Construction the wing slab of RWB12A		100%		16-Sep-13 A		
	, Drainage & Utilities		100 /0	00			
S24N4000	Roadworks, Drainages & Utilities (ch3140-3400, exclude B12A)	-47	97.71%	109	19-Aug-13 A	28-Nov-13	
S24N4000	Road and Drainage Works		100%		19-Aug-13 A		
S24N4015	Road Surface Works for Mid and Slow Lane		100 %		27-Aug-13 A		
S24N4025	TTA - Stage 4B-3		100 %	0	-	14-Sep-13 A	
S24N4020	Road Construction Fast Lane and Remaining Works (along CH3140 - 3400)	-47	95%	-	26-Oct-13 A	28-Nov-13	
		-47	90%	50	20-001-13 A	20-1100-13	
		47	00/	50	00 Nev 10	05 lan 14	
S24N6000	Landscaping Works	-47	0%	50	26-Nov-13	25-Jan-14	
Site Area S							
PHSA2520	Possession of SA25 (Day270)		100%		04-May-10 A		Possession of SA25 (Day270)
SA250000	Site Area SA25 Works Period (incl, Provision of hoarding at site boundary of SA25)	157	92.73%	770	04-May-10 A	20-Jan-14	
SA250010	Site Area SA25 Works Completion	157	0%	0		20-Jan-14	
SA250020	Temporary Traffic Management (Detail shall refer to supplementary information)	126	94.12%	765	04-May-10 A	20-Jan-14	
SA250030	Overall Utility Diversion (Detail shall refer to supplementary information)	126	94.12%	765	04-May-10 A	20-Jan-14	
South Bou	nd						
Preliminarie	9S						
S25S0000	Site Clearance/Access Rd (ch3400-3600)		100%	97	20-Oct-10 A	16-Feb-11 A	Site Clearance/Access Rd (ch 3
S25S0010	Site Clearance (ch3400-3600)		100%	75	20-Oct-10 A	18-Jan-11 A	Site Clearance (ch3400-3600)
S25S0020	Access Road (ch3400-3600)		100%	75	15-Nov-10 A	16-Feb-11 A	Access Road (ch3400-3600)
Slopeworks		,J					
S25S5000	Slopeworks Fill(S30A)		100%	60	15-Oct-12 A	10-Nov-12 A	
S25S5010	Slopeworks Fill (S30A) - Stage 1: +53.5mPD		100%	30	15-Oct-12 A	30-Oct-12 A	
S25S5020	Slopeworks Fill (S30A) - Stage 2: 55.8mPD		100%	30	31-Oct-12 A	10-Nov-12 A	
S25S5110	Slope Reinstatement Works (Bridge 13A)	-42	30%	25	26-Sep-13 A	16-Dec-13	
S25S5140	Slope Reinstatement Works (Bridge LB1)	-42	30%		26-Sep-13 A		—
S25S5150	Slope Reinstatement Works (S30A)	-42	60%		28-Sep-13 A		—– ++++++++++++++++++++++++++++++++++++
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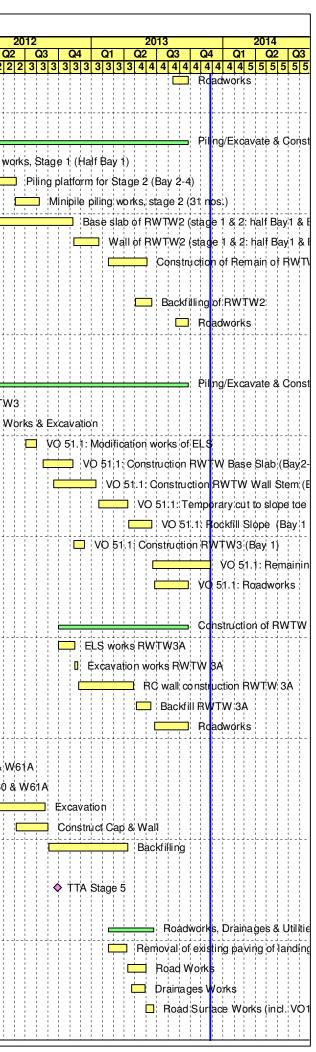
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		Float	Complete	Duration		11         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           1         2         3         4         5         6         7         8         9         1 <td< th=""></td<>
Retaining \	Nall W58B, (CSD 2)					
S25S2020	Site Formation		100%	25 01-Nov-10 A	30-Nov-10 A	Site Formation
S25S2030	Excavate to cut-off level		100%	10 01-Nov-10 A	31-Dec-10 A	Excavate to cut-off level
S25S2050	Construction of Structure W58B		100%	75 13-May-11 A	15-Sep-12 A	
S25S2060	Backfilling		100%	45 05-Nov-12 A	08-Feb-13 A	
Road Re-co	onstruction Works, Roadworks & Drainage				1	
S25S4000	Roadworks, Drainages & Utilities (CH 3400 - 3600)	171	100%	109 27-Feb-13 A	26-Nov-13	
S25S4025	Road Works for Mid and Slow Lane		100%	60 27-Feb-13 A	03-Jun-13 A	
S25S4030	Drainages Works		100%	60 04-Mar-13 A	19-Apr-13 A	
S25S4040	Road Surface for Mid and Slow Lane		100%	10 31-May-13 A	21-Jun-13 A	
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)	0	90%	30 27-Jul-13 A	28-Nov-13	
S25S4200	Slip Road H	-2	90%	50 27-Aug-13 A	30-Nov-13	
Noise Barri	iers & Road Barriers					
Noise Barr						
S25S3000	Construct Noise Barrier & Beam Barrier, NB34		100%	95 13-Nov-12 A	04-Feb-13 A	
S25S3010	NB34 : Foundation Works		100%	36 13-Nov-12 A	03-Jan-13 A	
S25S3020	NB34 : Installation of H-column & Panel		100%	36 23-Jan-13 A		—
	trol & Survelance System					
S25S4810	TCSS - Stage 1 (Bridge 13A)		100%	30 08-Apr-13 A	25-May-13 A	
Site Area						
PHSA2620		Í	100%	0 26-Feb-10 A		♦ Possession of SA26 (Day0)
	Possession of SA26 (Day0) Site Area SA26 Works Period	00	100%		00 Eab 14	
SA260000		-92	92.19%	1216 26-Feb-10 A		
SA260010	Site Area SA26 Works Completion	-92	0%	0	28-Feb-14	
SA260020	Temporary Traffic Management (Detail shall refer to supplementary information)	-73	92.27%	983 26-Feb-10 A		
SA260030	Overall Utility Diversion (Detail shall refer to supplementary information)	-73	92.27%	983 26-Feb-10 A		
SA260040	Additional work to existing ball valves, HKCG	-49	0%	52 26-Nov-13	28-Jan-14	
North Bou						
Preliminari						
S26N0000	Site Clearance/Access Rd (Tai Wo Road)		100%	150 26-Feb-10 A		Şite Çlearance/Acces's Rd (Tai Wo Road)
S26N0010	Site Clearance (Tai Wo Road)		100%	75 26-Feb-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	S					
S26N5000	Slopeworks Cut(S31A-sn)		100%	150 01-Jun-11 A	25-Nov-11 A	Slopeworks (
	Slopeworks Cut(S31A-sn) - Stage 1 (Upper +65mPD)		100%	50 01-Jun-11 A	06-Aug-11 A	Slopeworks Cut(S31A
S26N5010	Slopeworks Gui(SSTA-SIT) - Slage T (Opper +65IIIPD)					
	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)		100%	50 08-Aug-11 A	22-Oct-11 A	Slopeworks Cut
S26N5010			100% 100%		22-Oct-11 A 25-Nov-11 A	Slopeworks Cut
S26N5010 S26N5020	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)	-14				
S26N5010 S26N5020 S26N5030 S26N5040	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD) Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)	-14	100%	50 24-Oct-11 A	25-Nov-11 A	
S26N5010 S26N5020 S26N5030 S26N5040	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)         Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)         Remaining Works of S31A         on of Retaining Wall	-14	100%	50 24-Oct-11 A	25-Nov-11 A	
S26N5010 S26N5020 S26N5030 S26N5040 Construction	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)         Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)         Remaining Works of S31A         on of Retaining Wall	-14	100%	50 24-Oct-11 A	25-Nov-11 A 16-Dec-13	
S26N5010           S26N5020           S26N5030           S26N5040           Construction           Retaining V	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD) Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD) Remaining Works of S31A on of Retaining Wall Wall W59	-14	100% 70%	50 24-Oct-11 A 40 27-Jul-13 A	25-Nov-11 A 16-Dec-13 22-Mar-13 A	
S26N5010           S26N5020           S26N5030           S26N5040           Construction           Retaining V           S26N2000	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)         Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)         Remaining Works of S31A         on of Retaining Wall         Nall W59         Excavate & Construct W59 (w/SP)	-14	100% 70% 100%	50 24-Oct-11 A 40 27-Jul-13 A 286 01-Mar-12 A	25-Nov-11 A 16-Dec-13 22-Mar-13 A	
S26N5010           S26N5020           S26N5030           S26N5040           Construction           Retaining V           S26N2000           S26N2002	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)         Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)         Remaining Works of S31A         on of Retaining Wall         Wall W59         Excavate & Construct W59 (w/SP)         W59: Base Slab of Bay 1-3	-14	100% 70% 100%	50 24-Oct-11 A 40 27-Jul-13 A 286 01-Mar-12 A 60 01-Mar-12 A	25-Nov-11 A 16-Dec-13 22-Mar-13 A 04-Jun-12 A	
S26N5010           S26N5020           S26N5030           S26N5040           Construction           Retaining V           S26N2000           S26N2002           S26N2004	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)         Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)         Remaining Works of S31A         on of Retaining Wall         Wall W59         Excavate & Construct W59 (w/SP)         W59: Base Slab of Bay 1-3         W59: Wall of Bay 1-3	-14	100% 70% 100% 100%	50 24-Oct-11 A 40 27-Jul-13 A 286 01-Mar-12 A 60 01-Mar-12 A 60 02-Jul-12 A	25-Nov-11 A 16-Dec-13 22-Mar-13 A 04-Jun-12 A 24-Dec-12 A	
S26N5010           S26N5020           S26N5030           S26N5040           Construction           Retaining V           S26N2000           S26N2002           S26N2004           S26N2004           S26N2006	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)         Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)         Remaining Works of S31A         or of Retaining Wall         Wall W59         Excavate & Construct W59 (w/SP)         W59: Base Slab of Bay 1-3         W59: Wall of Bay 1-3         W59: Base Slab & Wall of Bay 9-12a	-14	100% 70% 100% 100% 100%	50 24-Oct-11 A 40 27-Jul-13 A 286 01-Mar-12 A 60 01-Mar-12 A 60 02-Jul-12 A 56 19-Apr-12 A	25-Nov-11 A 16-Dec-13 22-Mar-13 A 04-Jun-12 A 24-Dec-12 A 12-Jan-13 A	

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ity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 20 bt - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2
		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 Q4 Q1 Q2 Q3 Q4 Q1 12 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
S26N2020	Backfilling		100%	24 23-Apr-12 A	22-Mar-13 A	Backfilling
Roadworks	, Drainage & Utilities					
S26N4000	Roadworks, Drainages & Utilities (ch3400-3720)	-8	87.72%	92 29-Jul-13 A	09-Dec-13	Roadwor
S26N4035	Removal of existing paving	-28	60%	7 29-Jul-13 A	28-Nov-13	Removal
S26N4055	Road and Drainage Works for Slow and Mid Lane	-28	90%	25 27-Jul-13 A	02-Dec-13	Road and
S26N4065	Road Surface for Slow and Mid Lane	-28	90%	10 27-Aug-13 A	03-Dec-13	Road Su
S26N4075	Road Construction Fast Lane and Remaining Works (along CH3400 - 3720)	-8	90%	50 26-Oct-13 A	09-Dec-13	Road Co
Traffic Cont	rol & Survelance System					
S26N4810	TCSS - (15m High mast M9), (SEC Poles SC24/ S24) & (Gantry 24) (incl. VO73 Revised Sign Gantry Details)	-22	50%	40 08-Jul-13 A	27-Dec-13	TÇSŞ-
Modificatio	n of Existing Bridge					
	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	D VO 27: Temporary access and lighting for inspection on Bridge
S26N1210	Construction of Temporary Pier supports & Installation of Jacks	-32	73.88%	134 22-Jul-13 A	08-Jan-14	
S26N1260	Removal of existing central barrier along B13, Erection breaking platform and		100%	14 22-Jul-13 A	25-Sep-13 A	Removal of ex
	re-construction of existing parapet					
S26N1270	Breaking the existing stitch of B13 and conditional survey		100%	25 27-Jul-13 A	04-Nov-13 A	Breaking th
S26N1330	Removal existing M.J, Bridge Jacking and replacement bearing & M.J		100%	35 27-Jul-13 A	23-Nov-13 A	
S26N1340	TTA - Stage 4B-4	159	0%	0	26-Nov-13	─────────────────────────────────────
S26N1350	Stitch Works for B13 (Rebar and Formwork)		100%	35 07-Sep-13 A	25-Nov-13 A	Stitch Wol
S26N1355	Stitch Works for B13 (Concreting)	159	0%	12 26-Nov-13	09-Dec-13	D Stitch Wo
S26N1360	Road Surfacing and Road Diversion	-32	0%	35 26-Nov-13	08-Jan-14	Road S
Landscapin						
S26N6040	Landscaping Works (CH3400 - 3720)	-28	50%	50 16-Sep-13 A	04-Jan-14	
South Bou						
Preliminarie						
	Site Clearance/Access Rd (Tai Wo Road)		100%	129 26-Feb-10 A	04-Aug-10 A	Site Cleara nœ/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)	-73	33.33%	24 18-Feb-13 A	13-Dec-13	Slopewo
S26S5010	Slopeworks Fill (S32) - Stage 1 (Lower +42mPD)		100%	20 18-Feb-13 A		Slopeworks Fill (S32)-5
S26S5020	Slopeworks Fill (S32) - Stage 2 (Upper +45mPD)	-73	30%	20 08-Jun-13 A		Slopewod
S26S5110	Slope Reinstatement Works (besides LB3)	-15	25%	24 04-Mar-13 A		Slope R
S26S5120	Slope Reinstatement Works (besides LB3) - Lower: below +24mPD	-15	70%	20 04-Mar-13 A		
S26S5120	Slope Reinstatement Works (besides LB3) - Lower : below +24mPD Slope Reinstatement Works (besides LB3) - Upper: above +24mPD	-15	40%	20 04-Mai-13 A 20 27-Aug-13 A		
	on of Retaining Wall	-13	-+U /o	20 21-Aug-13 A	10 000-10	
	/all RWTW1, (CSD 1)					
S26S1289	Pre-drilling for RWTW1 part 1		100%	11 26-May-11 A	08-Jun-11 A	Pre-drilling for RW/TW1 part 1
S26S1269	Construct RWTW1N & RWTW1S		100%	325 26-Nov-11 A		Construct RW
					· ·	Construct RW
S26S1391	Temp. Working Platform		100%	30 26-Nov-11 A		
S26S1392	Construction of Structure (mini piles)		100%	60 04-Jan-12 A		Construction of Structure (mini piles)
S26S1394	Construction of Structure (part 1, Half of North & South RW)		100%	50 29-Dec-11 A		Construction of Structure (part 1, Half of North & Sbuth RW)
S26S1395	Backfilling (part 1, Half of North & South RW)		100%	30 18-Feb-12 A		Backfilling (part 1, Half of North
S26S1401	ELS Works, Excavation and Protection Existing Gas Main Construction of Structure (part 2, Remaining RW)	_	100%	20 25-Mar-13 A 35 19-Apr-13 A		ELŞ Works, Excavatio
S26S1402						

vity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	21 1 2	Q2		Q4	Q		2011 2 C	03 Q4	Q1	1 Q2
S26S1404	Roadworks		100%	18	15-Aug-13 A	25-Sep-13 A		<u>-   -  </u> -	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>- 1- 1 - 1</u>				<u> </u>		
Retaining W	/all RWTW2, (CSD 1)															1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S26S1379	Pre-drilling for RWTW2		100%	12	12-Jan-11 A	25-Jan-11 A						Pre-dri	illing fo	or RWTW	2	
S26S1380	Piling/Excavate & Construct RWTW2		100%	609	26-May-11 A	25-Sep-13 A										
S26S1381	Minipile Piling works, Stage 1 (Half Bay 1)		100%	50	26-May-11 A	24-Sep-11 A							<u> </u>		ipile Pi	iling wor
S26S1382	Piling platform for Stage 2 (Bay 2-4)		100%	9	19-Apr-12 A	04-Jun-12 A										
S26S1383	Minipile piling works, stage 2 (31 nos.)		100%	58	04-Jun-12 A	08-Aug-12 A										
S26S1384	Base slab of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	75	26-Nov-11 A	10-Nov-12 A						· •ii				i
S26S1386	Wall of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	48	12-Nov-12 A	22-Jan-13 A										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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%		-	18-Jun-13 A										
S26S1540	Roadworks		100%	20	22-Aug-13 A	25-Sep-13 A										           
	all RWTW3, (VO)															
S26S1389	Pre-drilling for RWTW3		100%			11-Jan-11 A					D F	Pre-drill	ing for	RWTW3		
S26S1390	Piling/Excavate & Construct RWTW3		100%	708	01-Aug-11 A	25-Sep-13 A										
S26S1591	Piling for RWTW3		100%	24	01-Aug-11 A	23-Sep-11 A								📥 Pilir	ng for F	RWTW3
S26S1592	ELS Works & Excavation		100%	24	28-Dec-11 A	28-Jan-12 A										ELS Wo
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										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S26S1600	VO 51.1: Temporary cut to slope toe		100%	25	22-Jan-13 A	12-Apr-13 A										$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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	169	90%	20	19-Jun-13 A	27-Nov-13										
S26S1608	VO 51.1: Roadworks		100%	30	26-Jun-13 A	25-Sep-13 A										
Retaining W	/all RWTW3A															
S26S1614	Construction of RWTW 3A		100%	168	01-Oct-12 A	25-Sep-13 A										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S26S1628	ELS works RWTW3A		100%	32	01-Oct-12 A	15-Nov-12 A	- L - 1             					· <b>4</b> 11        			- <u>1</u>         	
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										$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Retaining W	/all W60 & W61A (CSD 2)								- L - J1 1 1 1 1 1 1		!					1 L
S26S2020	Pre-drilling for W60 & W61A		100%	7	06-May-11 A	24-Jun-11 A							🗖 P	re-drilling	for W	60 & We
S26S2030	Mini Piles for W60 & W61A		100%	30	15-Jun-11 A	20-Aug-11 A								J Mini P	iles for	r W60 &
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		   						- L - J - J L - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Temporary I	Bridge bet. RWTW2 & RWTW1															
	TTA Stage 5		100%	0	27-Sep-12 A											
Road Re-co	nstruction Works, Roadworks, Drainage & Utilities															
S26S4000	Roadworks, Drainages & Utilities (Landing between B13A & B15A within CH 3600		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%		-	30-May-13 A										
S26S4010	Road Surface Works (incl. VO14: Revised Layout of Police Observation Platform at		100%		•	21-Jun-13 A										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



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.y.2		Float	Complete	Duration			21 Q2 Q3 Q4 Q1 Q2 Q1 Q2 Q1 Q2 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1
Noise Barri	ers & Road Barriers				1		
Noise Barri	er NB35						
S26S3000	Construct Noise Barrier & Beam Barrier, NB35		100%	60	15-Mar-13 A	18-Jun-13 A	Construct Noïse Bariner
S26S3010	Construct Noise Barrier : foundation Works. NB35		100%	30	15-Mar-13 A	11-May-13 A	Construct No <mark>se Barrier</mark> : fo
S26S3020	Construct Noise Barrier : Installation of H-coulmn & Panel NB35		100%	7	17-May-13 A	18-Jun-13 A	💭 Construct Noise Barrier
S26S3030	Remaining Works of NB35	-73	80%	10	27-Aug-13 A	27-Nov-13	Remaining
Traffic Con	trol & Survelance System				1		
S26S4800	TCSS		100%	57	12-Mar-13 A	10-Aug-13 A	
S26S4810	TCSS - Stage 1 (LB1) (VSLS Pole P55)		100%	30	12-Mar-13 A	21-Sep-13 A	TOSS - Stage 1
S26S4820	TCSS - Stage 1 (LB2)		100%	15	15-Jul-13 A	20-Aug-13 A	TiCSS - Stagle 1 (Li
S26S4830	TCSS - Stage 1 (LB3), (Gantry G101) (incl. VO73 Revised Sign Gantry Details)		100%	30	10-Jun-13 A	10-Aug-13 A	TCSS - Stage 1 (LB
Landscapir	ng				I		
S26S6000	Landscaping Works	-73	0%	60	14-Dec-13	28-Feb-14	
S26S6010	Landscaping Works - Stage 1, East of B13A	-73	0%	30	14-Dec-13	21-Jan-14	💻 Landsc
S26S6040	Landscaping Works - Stage 2, West of B13A	-73	0%	30	22-Jan-14	28-Feb-14	Land
Middle Lar	ne						
	onstruction Works, Roadworks & Drainage						
	Removal of existing pa ving (CH3400 - CH3720)		100%	25	26-Aug-13 A	13-Sep-13 A	🗖 Removal of exist
S26S4019	Road Works and Surface Works (CH3400 - 3720)		100%		-	13-Sep-13 A	Road Works and
	on of Bridge 12B				5 -		
S22S1310	Construction of Bridge 12B		100%	267	15-Apr-10 A	20 10 12 0	Construction of Bridg
			100 %	307	13-Api-10 A	20-301-13 A	
	ry and Enabling Works		1000/		45 4 40 4	01 14-10 4	
S22S1210	Prepare Piling Platform		100%			31-May-10 A	Prepare Piling Platform
S22S1220	Pre-drilling Works		100%	26	15-Apr-10 A	15-May-10 A	🟳 Pre-drilling Works
	ion Works of Bridge 12B						
S22S1230	Socketed H-Pile (B12BP8)		100%			13-Aug-10 A	Socketed H-Pilė (B12BP8)
S22S1250	Modify Pile caps & Additional Foundation (B12BP8)		100%		02-Jul-10 A		Modify Pile caps & Additional Foundation (B12BP8)
S22S1251	Excavation & ELS Works		100%			12-Aug-10 A	Excavation & ELS Works
S22S1260	VO 17.1: Modify Pilecap of Bridge 12, Pier 5, 6 & 7 (Deleted)		100%		-	28-May-12 A	L VO 17.1: Modify Pilecap of Bridge 12, Pler 5, 6 & 7 (D
S22S1270	VO 17.1: Modify Pilecap of Bridge 12, Pier 8 (Deleted)		100%		-	28-May-12 A	U VO 17.1: Modify Pilecap of Bridge 12, Pier 8 (Deleted
S22S1280	VO 17.2: Piling for C9		100%			20-Aug-11 A	UO:17.2: Piling:for C9
S22S1290	VO 17.2: Piling for C10		100%	20	26-Sep-11 A	08-Oct-11 A	VO 17/2: Piling for C10
S22S1340	VO 17.2: Pilecap construction of C9		100%	60	06-Mar-12 A	02-Jun-12 A	VO 17.2: Pilecap construction of C9
S22S1350	VO 17.2: Pilecap construction of C10		100%	54	01-Jun-12 A	21-Aug-12 A	VO 17.2: Pilecap construction of C10
S22S1400	VO 17.2: Backfilling & Site Formation		100%	24	11-May-12 A	05-Jan-13 A	VO 17:2: Backfilling & Site Formation
S22S1410	VO 17.2: Pier Construction of C9 & C10		100%	94	01-Jun-12 A	20-Sep-12 A	VO:17.2: Pier Construction of C9 & C10
S22S1420	VO 17.2: Pier Construction of C9		100%	60	01-Jun-12 A	31-Jul-12 A	VO 17.2: Pier Construction of C9
S22S1430	VO 17.2: Pier Construction of C10		100%	75	28-Aug-12 A	13-Oct-12 A	VO 17.2: Pier Construction of C10
S22S1440	Construction of 12B North Abutment		100%	75	26-Aug-11 A	31-Oct-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 Const
S22S1460	VO 17.2: Scaffolding & Falsework		100%	35	20-Dec-12 A	28-Mar-13 A	VO 17.2: \$caffolding & Falsev
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 Formw
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 172 Deck Formw
S22S1500	Stressing		100%	5	15-Jul-13 A	20-Jul-13 A	I. Stressing
S22S1520	Parapet (Steel Barrier)	-37	95%	15	15-Aug-13 A	26-Nov-13	Parapet (S
S22S1540	Road surface & road work	-37			26-Nov-13	12-Dec-13	■ Road surf
-						-	

ivity ID	Activity Name	Total Activity %	Original Start	Finish	20	010			2011			20	12			2013			2014
		Float Complete	Duration		Q1 Q2	Q3	Q4 9 1 1	Q1 ( 1 1 1 1	Q2 Q2 1 1 1 1	3 Q4	Q1	Q2 2 2 2 2 2	Q3 3 3 3 3	Q4 3 3 3 3	Q1 C 3333	Q2 Q 4 4 4 4	3 Q 4 4 4 4		1 Q
S24S1280	Construction of Bridge 12A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills)	100%	451 25-Aug-10 A	14-Sep-13 A														structio	
Prenarator	ry and Enabling Works																		
S24N1210	Site Clearance	100%	42 25-Aug-10 A	14-Oct-10 A			Site (	Clearanc	e						$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
S24N1220	Haul Road	100%	42 25-Aug-10 A			1 1 1	Haul												
S24N1230	Gas main Diversion, HKCG	100%	55 25-Aug-10 A			┆╴┆╴┢			Gasma	ain Diver	sion H	KCG				·			
S24N1240	11 KV Cable Diversion	100%	55 25-Aug-10 A	· ·				V Cable		1 1 1 1	31011,1								
S24N1240	Telephone Cable Diversion	100%	55 25-Aug-10 A				1 1 1 1	phone C	1 1 1	1 1 1 1									
	ure and Pier Construction	100 %	55 25-Aug-10 A	30-001-10 A															
South Abut																			
S24N1260	Piling-South Abutment	100%	29 15-Oct-10 A	$19_{-}$ lan-11 A				ı Piling-	South A	hutmont	+					·			
S24N1260	Preparing piling platform	100%	18 15-Oct-10 A					paring pi							. I I I I I I I I I I I I I I I				
S24N1262	Pre-drilling	100%	18 15-Oct-10 A					-drilling	- i i i										
S24N1263	Piling (21nos)	100%	43 27-Nov-10 A			1 1 1 1 1 1 1 1 1		] Piling		1 1 1 1									
S24N1310	Excavation & Cap-South Abutment	100%	35 04-May-11 A									South Ab							
S24N1360	Pier & backfill, South Abutment	100%	36 27-Jun-11 A	17-Aug-11 A						Pier &	backfil	, South A	Abutment	t					
Pier 1						1 1 1 1 1 1 1 1 1													
S24N1270	Piling-Pier 1 (15nos)	100%	30 02-Mar-11 A	07-Apr-11 A					Piling-Pi	er 1 (15	nos)								
S24N1320	Cap-Pier 1 & Backfill	100%	36 23-May-11 A	05-Jul-11 A					C C	ap-Pier	1 & Ba	ckfill							
S24N1370	Pier 1 (Pierhead included)	100%	96 26-Sep-11 A	17-Dec-11 A							Dier	1 (Pierh	ead inclu	ided)					
Pier 2																			
S24N1280	Piling-Pier 2 (15nos)	100%	38 02-Aug-10 A	15-Sep-10 A			Piling-F	Pier 2 (15	onos)										
S24N1330	Cap-Pier 2 & Backfill	100%	38 20-Nov-10 A	19-Jan-11 A			: : 📫	I Çap-P	Pier 2 & E	Backfill									
S24N1380	Pier 2 (Pierhead included)	100%	96 14-Apr-11 A	12-Aug-11 A					<u> </u>	Pier 2	(Pierhe	ad incluc	ed)						
Pier 3																			
S24N1290	Piling-Pier 3 (15nos)	100%	38 16-Feb-11 A	27-Apr-11 A			+ii-	- + - +	Piling-I	Pier 3 (1	5nos)			- + - +		·			
S24N1340	Cap-Pier 3 & Backfill	100%	32 26-May-11 A							ap-Pier		ckfill							
S24N1390	Pier 3 (pierhead included)	100%	96 11-Jul-11 A									pierhead	included	1)					
North Abutr																			
S24N1300	Pre-drilling & Preparation for Piling (incl. VO 39: Revised Foundation for North Abutment)	100%	24 26-May-11 A	23-Jun-11 A					🗖 Pr	e-drilling	& Pre	paration f	or Piling	(incl. VC	) 39: R∉	⊮vised F	oundati	on for N	√orth
S24N1302	ELS for North abutment	100%	75 19-Jan-12 A	07-Nov-12 A				- + - +						ELS	for Nor	th abutn	nent		
S24N1350	Cap-North Abutment	100%	25 08-Nov-12 A	20-Nov-12 A										🛛 Ca	p-North	Abutme	ent		
S24N1400	Abutment, Drainage & backfill, North Abutment	100%	75 21-Nov-12 A	25-Jun-13 A											<u> </u>	Ał	outment	Draina	ågę≀ &
Decking ar	nd Finishing																		
S24N1410	Deck-South Abutment to Pier 1	100%	62 07-Dec-11 A	26-Apr-12 A								🗖 De	ck-South	Abutm	ent to P	ier 1			
S24N1420	Deck-Pier 1 to Pier 2	100%	75 23-Apr-12 A	30-Aug-12 A		-            		- + - +  -           	- +	· • • - • • • • • • • • • • •	- +           		p	eck-Pie	r 1 to Pie	er 2			
S24N1430	Deck-Pier 2 to Pier 3	100%	75 02-Jun-12 A	22-Dec-12 A											)eck-Pi	er 2 to P	Pier 3		
S24N1434	Erection of Falsework	100%	25 29-Dec-12 A	22-Jan-13 A											Erecti	on of Fa	lsework		
S24N1440	Deck-Pier 3 to North Abutment	100%	60 22-Jan-13 A	30-Apr-13 A												Deck-	Pier 3 to	North	Abutn
S24N1444	Dismantling of Falsework	-21 95%	25 14-May-13 A	27-Nov-13													· · · ·	Dism	nantlin
S24N1450	Parapet (icl, precast concrete skin)	100%	21 18-Feb-13 A	09-Jul-13 A				- + - +!!-	+	· • - • • • • • • •							Parapet	(icl, pre	cast c
S24N1457	Erecting Railing (Short Column and barrier)	100%	10 13-Aug-13 A														🗖 Ere		1 1 1
S24N1463	Noise Barrier (Erecting H-Column and Panel)	100%	15 06-Jun-13 A															se Barr	1 1 1
S24N1470	Road Lighting	100%	12 27-Aug-13 A	· ·													🔲 Roa		1.1.1
S24N1480	Surfacing	100%	12 30-Jul-13 A	-	_											1 1 1	Sur		1 T 1
				· ·			· · · · · · · · · · · · · · · · · · ·	- + - +11-	+	·	+!!							1 1 T	
S24N1490	Inspection and Handover of Bridge 12A	100%	3 12-Sep-13 A	14-Sep-13 A													I Ins	þ	ection

vity ID	Activity Name	Total Activity %	Original Start	Finish	2010 2011 2012 2013 20 201 00 00 00 00 00 00 00 00 00 00 00 00 0
		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 Q4 Q1 Q2 Q3 Q4 Q1 Q
Constructi	on of Bridge LB2				
S26S1200	Construction of Bridge LB2 (incl. VO29 & 37: revised piling details and pile caps sl	100%	641 16-Apr-11 A	25-Sep-13 A	Construction o
Preparator	y and Enabling Works				
S26S1205	Gas main Diversion at East Abutment (No Connection)	100%	15 24-Jan-13 A	28-Feb-13 A	Gas main Diversion at East Ab
S26S1215	Temporary Traffic Arrangement for Piling Work	100%	75 28-Dec-11 A	04-Jun-12 A	Témporary Traffic Arrangement for Pilir g Work
Substructu	Ire and Pier Construction	V			
TW4					
S26S1203	Excavation and lateral support	100%	20 05-Mar-12 A	30-Jun-12 A	Excavation and lateral support
S26S1204	Coring and backfill for Piling works	100%	75 02-Jul-12 A	28-Jul-12 A	🖂 Çoʻring and baçkfill for Piling works
S26S1212	Piling-TW4 (20)	100%	49 30-Jul-12 A	17-Oct-12 A	Piliņg-TŴ4 (20)
S26S1217	Pile Load Test (1 Tension & 2 compression)	100%	25 31-Oct-12 A	22-Nov-12 A	Pile Load Test (1 Tension & 2 compres
S26S1222	Cap-TW4 & Backfill	100%	35 23-Nov-12 A	05-Feb-13 A	Capi-TW4 & Backfill
S26S1225	Pier-TW4 Pier	100%	35 06-Feb-13 A	16-Mar-13 A	Pier-TW4 Pier
TW5					
S26S1206	Els, coring and backfill for Piling works	100%	30 19-Jun-12 A	12-Oct-12 A	E(s, corring and backfill for Pilling works
S26S1210	Piling-TW5 (20)	100%	40 09-Nov-12 A		Piling-TW5 (20)
S26S1220	Cap-TW5 & Backfill	100%	24 23-Jan-13 A	22-Feb-13 A	□: Cap-TW5¦& Backfil
S26S1227	Pier-TW5 Pier	100%	35 23-Feb-13 A		D Pier-TW5 Pier
East Abutm					
S26S1214	Piling-East Abutment, Stage 1	100%	36 16-Apr-11 A	30-Jun-11 A	Piling-East Abutment; Stage 1
S26S1218	Piling-East Abutment, (stage 2, 6 nos. piles remain)	100%	18 29-Oct-12 A		□ Piling-East Abutment, (stage 2, 6 nos. p
S26S1219	Pile Load Test (1 compression)	100%	15 28-Nov-12 A		Pile:Load Test (1 compression)
S26S1213	Excavation & Pilecap (Delay by gasmain)	100%	28 04-Mar-13 A		Eccavation & Pilecap (Delay)
S26S1224	East Abutment	100%	30 02-Apr-13 A		
S26S1254	Backfilling	100%	14 04-Jun-13 A	· .	I Backfilling
		100 %	14 04-5011-15 A	10-3011-13 A	
S26S1202	Els, coring & backfill for Piling works	100%	75 26-Nov-11 A	08 Oct 12 A	Els, coiring & backfill for, Piling works
S26S1202	Piling-West Abutment (28)	100%	65 09-Oct-12 A		Piling-West Abutment (28)
S26S1210	Excavation & Pilecap	100%	28 27-Dec-12 A		Excavation & Pilecap
S26S1236	West Abutment	100%	35 02-Feb-13 A	· .	West Abutment
S26S1256	Backfilling	100%	14 29-Apr-13 A	07-Aug-13 A	Backfi ling
	nd Finishing				
S26S1238	Bridge Decking (Bearings, Drainage & MJ inculded)	100%	84 18-Mar-13 A	· ·	Bridge Decking
S26S1240	Falsework Erection of Deck - West Abutment to TW4	100%	14 18-Mar-13 A	· ·	Falsework Erection of Dec
S26S1241	Bridge Deck - West Abutment to TW4	100%	48 20-Apr-13 A		Bridge Deck - West Ab
S26S1242	Falsework Dismantling of deck - West Abutment to TW4	100%	10 10-Jul-13 A	-	
S26S1243	Falsework Erection of Deck - TW4 to TW5	100%	14 18-Mar-13 A	· ·	Falsework Erection of Dec
S26S1244	Bridge Deck - TW4 to TW5	100%	48 24-Apr-13 A		Bridge Deck - TW4 to
S26S1245	Falsework Dismantling of deck - TW4 to TW5	100%	10 10-Jul-13 A		Falsework Disma
S26S1246	Falsework Erection of Deck - TW5 to East Abutment	100%	14 08-May-13 A	-	Falsework #rection of D
S26S1247	Bridge Deck - TW5 to East Abutment	100%	48 15-May-13 A		Bridge:Deck-TW5 tr
S26S1248	Falsework Dismantling of deck - TW5 to East Abutment	100%	10 10-Jul-13 A		Falsework Disma
S26S1260	Parapet (icl, precast concrete skin)	100%	25 08-Jul-13 A	-	Parapet (icl. pr
S26S1265	Road Lighting	100%	5 27-Aug-13 A	-	D Road Lighting
S26S1270	Surfacing	100%	10 16-Sep-13 A	25-Sep-13 A	D: Surfacing;
S26S1310	Handover Inspection of LB2 (TTA Stage 11)	100%	158 18-Mar-13 A	25-Sen-13 A	Handover Insp

vity ID	Activity Name		Original Start	Finish	2010 2011 2012 2013 201
vity iD		Total Activity % Float Complete	Duration	FINISN	2017 2017 2017 2017 2017 2017 2017 2017
S26S1280	Construction of Bridge LB3( incl. excavation & backfill) (incl. VO29 & VO37)	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	Piling for East Abutment
S26S1330	Piling for West Abutment	100%	60 14-May-11 A	26-Jul-11 A	Piling for West Abutment
S26S1340	ELS & Excavation for East & West Abutment	100%	36 07-Dec-11 A	21-Jan-12 A	ELS & Excavation for East & West Abutment
S26S1350	Construction of East/West Abutment Structure	100%	45 19-Jan-12 A	13-Jul-12 A	Construction of East/West Abutment Structure
Decking a	nd Finishing				
S26S1370	Bridge Deck (Bearings, Drainage & MJ included)	100%	257 19-Apr-12 A	24-Nov-12 A	Bridge Deck (Bearings, Drainage & MJ
S26S1371	Falsework and Scaffolding	100%	36 19-Apr-12 A	31-Aug-12 A	Falsework and Scaffolding
S26S1372	Construction of Deck	100%	69 05-Sep-12 A	24-Nov-12 A	Construction of Deck
S26S1373	Falsework dismantling of Deck	100%	24 21-Dec-12 A	09-Jan-13 A	Falsework dismantling of Deck
S26S1375	Parapet (icl, precast concrete skin)	100%	20 26-May-13 A	20-Jul-13 A	Parapet (iċl, precast
S26S1376	Erecting of Short Column	100%	20 19-Jun-13 A	13-Aug-13 A	Erecting of Short C
S26S1377	Installing M-Barrier	100%	7 27-Aug-13 A	21-Sep-13 A	🗖 Ins <mark>tall</mark> ing M-Bari
S26S1378	Surfacing	100%	8 16-Sep-13 A	25-Sep-13 A	D: Surfacing
S26S1385	Handover Inspection of LB3	100%	1 02-Oct-13 A	02-Oct-13 A	I Handover Inspe
Constructi	ion of Bridge LB1				
S26S1400	Construction of Bridge LB1 (incl. VO29 & VO37: revised piling details and pile caps	100%	643 03-May-10 A	02-Oct-13 A	Construction of
	sleeving detaills)				
Preparato	ry and Enabling Works				
S26S1405	Site Clearance	100%	75 03-May-10 A	06-Aug-10 A	Site Cle arance
S26S1406	Site Clearance - Stage 1 (LB1-North Abutment)	100%	60 03-May-10 A	14-Jul-10 A	Site Clearance - Stage 1 (LB1-North Abutment )
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 Abutment)
S26S1412	Access Road - Stage 2 (LB1-TW3)	100%	60 20-May-10 A	31-Jul-10 A	Access Ro ad - Stage 2 (LB1-TW3 )
S26S1450	SA25-Site Clearance (TW1 & TW2)	100%	53 26-Mar-11 A	02-Jun-11 A	SA25-Site Clearance (TW1 & TW2)
S26S1455	SA25 - Access Road (TW1 & TW2)	100%	53 26-Mar-11 A	02-Jun-11 A	SA25 - A¢c¢s\$ Road (TW1 & TW2)
S26S1465	VO 31: Fencing for Former Lot 1308 S.B in D.D.6	100%	10 27-Jun-11 A	09-Jul-11 A	VO 31; Fencing for Former Lot 1308 S.B in D.D.6
Substruct	ure and Pier Construction	· ·	/		
North Abut	ment				
S26S1420	Piling-North Abutment	100%	51 01-Jun-10 A	31-Jul-10 A	Piling-North Abułment
S26S1430	Excavation & Cap-North Abutment	100%	54 11-Nov-10 A	28-Dec-10 A	Excavation & Cap-North Abutment
S26S1440	Pier & backfill, North Abutment	100%	56 26-Jan-11 A	04-Apr-11 A	Pier & backfill; North Abutment
TW3		<u> </u>	I	, 	
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	19-Jul-11 A	Cap & Backfill - TW3
S26S1442	Pier-TW3 (Pierhead included)	100%	75 08-Aug-11 A	17-Dec-11 A	Pier-TW3 (Pierhead included)
TW1		P P P P			
S26S1460	Piling-TW1	100%	70 21-Oct-10 A	11-Nov-10 A	D Piling-TW1
S26S1470	Cap & Backfill - TW1	100%	36 27-Jan-11 A	19-Feb-11 A	—— □ Cap & Backfill - TW1
S26S1480	Pier-TW1 (Pierhead included)	100%	75 23-May-11 A	08-Jul-11 A	Pier+TW1 (Pierhead included)
TW2			I	<u> </u>	
S26S1462	Piling-TW2	100%	41 28-Mar-11 A	15-Apr-11 A	□ Piling-TW2
S26S1472	Cap & Backfill - TW2	100%	45 21-Jun-11 A	15-Jul-11 A	Cap & Backfill - TW2
S26S1482	Pier-TW2 (Pierhead included)	100%	75 26-Jul-11 A	11-Feb-12 A	Pier-TW/2 (Pierhead included)
Dooking o	nd Finishing	<u> </u>	I		

tivity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011 2011
,, <b>,</b>		Float	Complete	Duration			21         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           1         2         3         4         5         6         7         8         9         1 <td< th=""></td<>
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 Canti
S26S580	Preparing of Travelling Form		100%	18	27-Jul-11 A	17-Aug-11 A	Preparing of Travell
S26S590	Construction of Cantiliver Deck, TW1		100%	40	30-Sep-11 A	17-Dec-11 A	Constructi
S26S610	South End Span		100%	40	28-Dec-11 A	16-Feb-12 A	South
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-12 A	29-Feb-12 A	D Prep
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	
S26S670	Balanced Cantilever at TW3 & Stitching (TW2-TW3)		100%	52	28-Dec-11 A	19-Apr-12 A	E
S26S680	Preparing of Travelling Form		100%	12	28-Dec-11 A	11-Jan-12 A	D Preparin
S26S690	Construction of Cantiliver Deck, TW3		100%	40	12-Jan-12 A	19-Apr-12 A	C
S26S700	Stitching TW2-TW3		100%	22	18-May-12 A	22-Jun-12 A	
S26S720	North End Span		100%	50	18-May-12 A	12-Jul-12 A	
S26S740	Parapet (icl, precast concrete skin)		100%	52	05-Nov-12 A	21-Sep-13 A	
S26S750	Erecting of Precast Parapet		100%	32	05-Nov-12 A	27-Aug-13 A	
S26S760	Installing M-Barrier		100%	6	15-Aug-13 A	21-Sep-13 A	
S26S770	Noise Barrier		100%	6	15-Aug-13 A	07-Sep-13 A	
S26S780	Surfacing		100%	7	16-Sep-13 A	25-Sep-13 A	
S26S790	Road Lighting		100%	7	27-Aug-13 A	14-Sep-13 A	
	Handover Inspection of LB1		100%	1	02-Oct-13 A	02-Oct-13 A	
S26S800							
	•						
	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills)		100%		03-May-10 A		
Construct S26S1300	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps						
Construct S26S1300	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills)			744		22-Jun-13 A	D Site Cléarance
Construct S26S1300 Preparato	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills) ry and Enabling Works		100%	744 24	03-May-10 A	22-Jun-13 A 31-May-10 A	Site Cléararice
<b>Construct</b> S26S1300 <b>Preparato</b> S26S1610	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills) ry and Enabling Works Site Clearance		100%	744 24 63	03-May-10 A 03-May-10 A	22-Jun-13 A 31-May-10 A 17-Jul-10 A	Access Road
Construct           S26S1300           Preparato           S26S1610           S26S1611	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills) ry and Enabling Works Site Clearance Access Road		100% 100% 100%	744 24 63 37	03-May-10 A 03-May-10 A 03-May-10 A	22-Jun-13 A 31-May-10 A 17-Jul-10 A 15-Jul-10 A	Access Road
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Construct           S26S1300           Preparato           S26S1610           S26S1610           S26S1610           S26S1610           S26S1610           S26S1610           S26S1610           S26S1610           S26S1620           S26S1690           S26S1700           S26S1710           Substruct           North Abut           S26S1630	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills) ry and Enabling Works Site Clearance Access Road Gas main Diversion at North/South Abutment, HKCG SA25-Site Clearance SA25 Haul Road SA25-Gas Main diversion at South Abutment & P1 ure and Pier Construction ment Piling-North Abutment		100% 100% 100% 100% 100% 100% 100% 100%	744 24 63 37 25 25 25 25 25 65 20	03-May-10 A 03-May-10 A 03-May-10 A 01-Jun-10 A 26-Feb-11 A 26-Feb-11 A 26-Feb-11 A	22-Jun-13 A 31-May-10 A 17-Jul-10 A 15-Jul-10 A 26-Mar-11 A 26-Mar-11 A 26-Mar-11 A 30-Sep-10 A 07-Aug-10 A	Access Road Gas main Diversion at North/South Abutment, HKC SA25-Site Clearance SA25 Haul Road SA25-Gas Main diversion at So Piling-North Abutment
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Construct           S26S1300           Preparato           S26S1610           S26S1610           S26S1611           S26S1620           S26S1620           S26S1690           S26S1700           S26S1710           Substruct           North Abut           S26S1630           S26S1631           S26S1632	ion of Bridge 13A Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving detaills) <i>ry and Enabling Works</i> Site Clearance Access Road Gas main Diversion at North/South Abutment, HKCG SA25-Site Clearance SA25-Site Clearance SA25-Gas Main diversion at South Abutment & P1 <i>ure and Pier Construction</i> <i>ment</i> Piling-North Abutment Pre-drilling & Preparing of piling platform Piling		100% 100% 100% 100% 100% 100% 100% 100%	744 24 63 37 25 25 25 25 25 65 20 45 50	03-May-10 A 03-May-10 A 03-May-10 A 01-Jun-10 A 26-Feb-11 A 26-Feb-11 A 26-Feb-11 A 26-Feb-11 A 16-Jul-10 A	22-Jun-13 A 31-May-10 A 17-Jul-10 A 15-Jul-10 A 26-Mar-11 A 26-Mar-11 A 26-Mar-11 A 30-Sep-10 A 07-Aug-10 A 30-Nov-10 A 04-Apr-11 A	Access Road Gas main Diversion at North/South Abutment, HKC SA25-Site Clearance SA25 Haul Road SA25-Gas Main diversion at So Pilling-North Abutment Pre-drilling & Preparing of piling platform
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S26S1960	Backfill Stage 2, South Abutment		100%	43	19-Nov-12 A	25-Feb-13 A											
S26S1970	COD: 13ASA 18 days additional Drainage works (if RFI can be replied before 4-12-2012)		100%	18	01-Apr-13 A	19-Apr-13 A											
P1						<u> </u>											
S26S1730	Piling-P1		100%	20	18-Oct-10 A	30-Nov-10 A					Piling	P1					
S26S1760	Cap & Backfill - P1		100%	33	26-May-11 A	30-Jun-11 A								Cap & I	Backfil	ll- P1	
S26S1790	Pier-P1		100%	75	26-Jul-11 A	24-Oct-11 A				+ - +			[		] Pier	-P1	
S26S1820	Pier-P1 Pierhead		100%	48	14-Feb-12 A	19-Apr-12 A											1
P2						/											
S26S1740	Piling-P2		100%	35	28-Mar-11 A	16-Apr-11 A						F	iling	P2			
S26S1770	Cap & Backfill - P2		100%	38	26-May-11 A	11-Jul-11 A							<u> </u>	Cap &	Backf	ill - P2	
S26S1800	Pier-P2		100%	75	26-Oct-11 A	27-Jan-12 A				· - +			+			D Pier	-P2
S26S1910	Pier-P2 Pierhead		100%	53	01-Aug-12 A	12-Oct-12 A											
P3						l				· · · ·							
S26S1640	Piling-P3		100%	50	26-Feb-11 A	19-Mar-11 A						] Pili	ng-P:	3			
S26S1660	Cap & Backfill - P3		100%	50	26-May-11 A	30-Jul-11 A								i i i	& Bacl	kfill - P3	
S26S1680	Pier-P3		100%	96	26-Sep-11 A	20-Jan-12 A							+ - +		<u></u>	] Pier	-P3
S26S1920	Pier-P3 Pierhead		100%	48	19-Apr-12 A	31-Jul-12 A											Ė
Deckina 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											
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										· -ii i- ·	
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%			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%		29-Oct-12 A												
S26S1851	End Spans for B13A		100%		29-Oct-12 A												
S26S1852	Post Tentioning Works		100%		18-Feb-13 A												
S26S1860	Parapet (icl, precast concrete skin)		100%			25-May-13 A							+ - +				
S26S1863	Erection of Short Column and Barrier		100%		03-May-13 A												1
S26S1873	Noise Barrier (Erection of H-Column and Panel)		100%		03-May-13 A												
S26S1875	Lighting		100%		25-May-13 A												
S26S1880	Surfacing		100%		25-May-13 A												
S26S1900	Handover Inspection of Bridge 13A		100%		21-Jun-13 A								+				
	r Pre-Handover Retaining Wall of Section 2																1
HRW0020	Ready For Pre-Hando ver Retaining Wall W56A, W56B, W57A, W57B, W57C, W59 and RWB12A(N)	-4	0%	7	26-Nov-13	03-Dec-13											
HRW0021	Ready For Pre-Handover Retaining Wall W58, W60, W61A, RWTW1, RWTW2, RWTW3, RWTW3a and RWB12B	-4	0%	7	26-Nov-13	03-Dec-13											

		2 Q2		12	Q3			Q4			Q1			Q2	_	13	Q3			Q2	1		Q1			14 Q2		Q	3
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		Float C	Complete	Duration	21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 C3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 C3 Q4 Q1 Q2 Q3 Q1 Q2 Q1 Q1 Q1 Q1 Q1 Q1 Q2 Q3 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1 Q1
Section 3					
Site Area	SA26A				
PHSA26A2	Possession of SA26A (Day0)		100%	0 26-Feb-10 A	♦ Possession of SA26A (Day0)
SA26A000	Site Area SA26A Works Period	-12	94.98%	1215 26-Feb-10 A 25-Jan-14	Site Area S
SA26A010	Site Area SA26A Works Completion	-12	0%	0 25-Jan-14	♦ Site Area S
SA26A020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	-11	94.91%	983 26-Feb-10 A 25-Jan-14	Temporary
SA26A030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-11	94.91%	983 26-Feb-10 A 25-Jan-14	Overall Utili
North Bo	und		· · · · · ·		
Preliminar	ries				
S26AN000	Site Clearance/Access Rd		100%	75 26-Feb-10 A 18-Jun-10 A	Site Clearance/Access Rd
S26AN010	Site Clearance		100%	60 26-Feb-10 A 12-May-10 A	Site Cle arance
S26AN020	Access Rd		100%	60 07-Apr-10 A 18-Jun-10 A	Access Rol
Slopeworl	ks				
S26AN502			100%	48 26-Apr-12 A 03-Jul-12 A	Cut Ślope (\$37A)
S26AN506	Cut Slope (S40-sn, Including removal of existing retaining wall)		100%	168 19-Jun-10 A 08-Jan-11 A	Cut Slope (S40-sn., Including removal of existing retaining wall)
S26AN508	Slopeworks Cut(S40) - Stage 1 (Cut Slope and Erect Scaffolding)		100%	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)		100%	11 19-Jul-10 A 18-Aug-10 A	Slopeworks Cut(\$40) - Stage 1 (Soil Nail Installation : QRST)
S26AN514	Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	14 19-Aug-10 A 17-Sep-10 A	Slopeworks Cut(\$40) - Stage 2 (Cut Slope and Erect Scaffolding)
S26AN516	Slopeworks Cut(S40) - Stage 2 (Soil Nail Installation : MNOP)		100%	14 21-Nov-10 A 26-Dec-10 A	Slopeworks Cut(S40) - Stage 2 (Soil Nail Installation: MNOP)
S26AN518	Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	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)		100%	17 27-Dec-10 A 01-Feb-11 A	Slopeworks Cut(S40) - Stage 3 (Soil Nail Installation : IJKL)
S26AN522	Slopeworks Cut(S40) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12 28-Jan-11 A 15-Feb-11 A	Slopeworks Cut(S40) - Stage 4 (Cut Slope and Erect Scatfolding)
S26AN524	Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)		100%	12 02-Feb-11 A 19-Feb-11 A	Slopeworks Cut(\$40) - Stage 4 (Soil Nail Installation : EFGH)
S26AN525	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)		100%	15 29-Oct-11 A 16-Nov-11 A	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)
S26AN526	Slopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)		100%	18 16-Nov-11 A 07-Dec-11 A	Slopeworks' Cut(S40) - Stage 5 (Soil Naiil Installation : ABCD)
S26AN528	Removal of Existing Retaining Wall		100%	30 11-Apr-11 A 20-May-11 A	Removal of Existing Retaining Wall
S26AN530	Cut Slope (S41-sn)		100%	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)		100%	11 19-Jun-10 A 16-Jul-10 A	Cut Slope (S41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)
S26AN532			100%	11 19-Jul-10 A 13-Aug-10 A	Cut Slope (S41;sn) - Stage 1 (Spil Nail Installation : MNOPQ)
S26AN533	Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	26 23-Aug-10 A 17-Sep-10 A	Cut;Slope (S#1-sn) - Stage 2;(Cut;Slope and Erect Sca;ffolding)
S26AN534	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)		100%	26 28-Dec-10 A 27-Jan-11 A	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)
S26AN535	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	20 20-Sep-10 A 27-Nov-10 A	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)
S26AN536	Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)		100%	19 30-May-11 A 22-Jun-11 A	Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)
S26AN537	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12 26-Oct-11 A 08-Nov-11 A	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)
S26AN538	Cut Slope (S41-sn) - Stage 4 (Soil Nail Installation : ABCD)		100%	12 03-Dec-12 A 14-Jan-13 A	Cut/Slope (S41-sri) + Stage 4 (Sbil/Nail/Ir
S26AN540	Slope 7NW-B/C 349		100%	75 02-Oct-10 A 25-Nov-10 A	Slope 7NW-B/C 349
S26AN541	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.		100%	15 02-Oct-10 A 19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.
S26AN542	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD) 270nos.		100%	72 20-Oct-10 A 25-Nov-10 A	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD) 270nos
S26AN550	Slope 7NW-A/C35-sn		100%	200 01-Sep-10 A 20-Nov-10 A	Slope 7NW-A/C35-sn
S26AN560	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.		100%	10 01-Sep-10 A 11-Sep-10 A	□ Erect Scaffolding & Soll Nail Installation (7NW-A/C35-sh) - Stage 1 (OP) 25rios.
S26AN570	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OF) 25hos. Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 2 (KLMN) 285nos.		100%	40 13-Sep-10 A 19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (/NW-A/C35-sh) - Stage 2 (KLMN) 285rlos.
S26AN570 S26AN580	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 2 (REINN) 265h5s.		100%	57 30-Sep-10 A 19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C33-sh)- Stage 3 (GHIJ) 370nos.
S26AN580 S26AN590				62 20-Oct-10 A 19-Nov-10 A	Erect Scatfolding & Soil Natil Installation (7NW-A/C35-sn) - Stage 3 (GHU) 370nos.     Erect Scatfolding & Soil Natil Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.
S26AN590 S26AN650	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.		100%	31 01-Nov-10 A 20-Nov-10 A	
	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 204nos.		100%		Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 204nos.
S26AN660	Slope 7NW-A/CR39		100%	80 22-Nov-10 A 28-Mar-11 A	Slope 7NW-A/CR39
S26AN670	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.		100%	10 22-Nov-10 A 15-Dec-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.
S26AN680	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGHI) 162nos.		100%	40 16-Dec-10 A 25-Feb-11 A	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGHI) 162nos.

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Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration		Finish		2010 2 Q3	2011         2012         2013         2014           Q4         Q1         Q2         Q3         Q4         Q1         Q1         Q2         Q3         Q1         Q1         Q2         Q3         Q1         Q1         Q2         Q3         Q1         Q1         Q2         Q3         Q1         Q1         Q1
S26AN690	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109nos.		100%	30	22-Feb-11 A	28-Mar-11 A			Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) + Stage 3 (ABC) 109nps.
S26AN930	Erect Scaffolding & Soil Nail Installation (Area 6-1)		100%	75	20-Feb-13 A	25-Nov-13 A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Erect Scaffolding
Constructio	n of Retaining Wall								
Retaining W	/all W65C (w/SP)								
S26AN100	Sheet Pile/Excavate & Construct W65C (w/SP)		100%	150	27-Jun-11 A	25-Jul-11 A			Sheet Pile/Excavate & Construct W65C (w/SP)
S26AN101	Sheet Pile and Excavation		100%	24	27-Jun-11 A	25-Jul-11 A			\$heet Pile and Excavation
S26AN102	Construction of Structure W65C		100%	72	27-Jun-11 A	25-Jul-11 A			Construction of Structure W65C
S26AN103	Backfilling		100%	24	27-Jun-11 A	25-Jul-11 A			□ Ba¢kfilling
Retaining W	all W68				·				
S26AN120	Sheet Pile/Excavate & Construct W68 (w/SP)		100%	99	15-Nov-10 A	16-Jul-12 A			Sheet Pile/Excavate & Construct W68 (w/SP)
S26AN121	Sheet Pile and Excavation		100%	19	15-Nov-10 A	04-Dec-10 A			Sheet Pile and Excavation
S26AN122	Construction of Structure W68		100%	75	5 26-Aug-11 A	24-Nov-11 A			Construction of Structure W68
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 W/69 - Stage 1 (south)
S26AN148	Pipe Pile for W69 - Stage 2 (north)		100%	26	20-Nov-10 A	19-Dec-10 A			□ Pipe Pile for W69 - Stage 2 (north)
S26AN149	Excavate and Tension Piles W69		100%	110	26-Mar-11 A	11-Aug-11 A			Excavate and Tension Piles W69
S26AN150	Excavation and Installation of Tension Piles - Stage 1 (south)		100%	55	5 26-Mar-11 A	04-Jun-11 A			Excavation and Installation of Tension Piles - Stage 1 (south)
	Excavation and Installation of Tension Piles - Stage 2 (north)		100%	55	5 13-Jun-11 A	16-Aug-11 A			Excavation and Installation of Tension Piles - Stage 2 (horth)
	Retaining Wall & Drainage W69		100%		26-Aug-11 A				Retaining Wall & Drainage W69
	Construction of Structure W69		100%		5 26-Aug-11 A				Construction of Structure W69
	Drainage		100%		06-Feb-12 A				Drainage
	Backfilling		100%		6 01-Jun-12 A				Backfilling
Retaining W				-					
	Sheet Pile/Excavate & Construct W70 (w/SP)		100%	165	03-Dec-10 A	15-Mar-13 A	_		She'eti Pille/Excavate'& Construct W7
	Sheet Pile and Excavation		100%		03-Dec-10 A				Sheet Pile and Excavation
	Construction of Structure W70 (w/SP)		100%		5 18-Jul-11 A	15-Oct-11 A			Construction of Structure W70 (w/SP)
	Drainage & Backfilling		100%		18-Feb-13 A				Drainage & Backfilling
S26AN174	Backfilling behind W68 to W70 and drainage works		100%		18-Mar-13 A				Backfilling behind
	Erect Scaffolding & Soil Nail Installation		100 %		04-Oct-13 A				Erect Scaffolding
			100 /8		04-001-13 A	23-110V-13 A			
	All W72A (w/SP) Sheet Pile/Excavate & Construct W72A (w/SP)		100%	00	2 30-Oct-10 A	21-Nov-11 A			Sheet Pile/Excavate & Construct W72A (w/SP)
	Sheet Pile and Excavation		100%		30-Oct-10 A				Sheet Pile and Excavation
	Construction of Structure W72A (w/SP)		100%		6 03-Jan-11 A				Construction of Structure W72A (w/SP)
	Draiage & Backfilling				03-Jan-11 A				
			100%	50		21-INUV-11 A			Draiage & Backfilling
	nstruction Works, Roadworks & Drainage		1000/		20 lon 10 4	05 Jul 10 A			
S26AN430	Slip Road R (From W72A to W73) Stage 1 (incl. VO 36: Slip Road R & Drainage detail.)		100%	15	5 30-Jan-12 A	20-JUI-12 A			Slip Road R (From W72A to W73) Stage 1 (incl. VO 36
S26AN431	Slip Road R (From W70 to B18A) Stage 1.1 formation		100%	4 6	5 26-May-12 A	12- Jun 12 A			Slip:Road R (From W70 to B18A) Stage 1.1 formation
					-		_		
S26AN432	Slip Road R (From W70 to B18A) Stage 1.1 Drainage & utilities		100%		5 14-Jun-12 A				□ Slip Road R (From: W70 to B18A) Stage 1.1 Drainage &
	Slip Road R (From W70 to B18A) Stage 1.1 pavement & roadworks		100%		6 04-Jul-12 A				□ Slip Road R (From W70 to B18A) Stage 1.1 pavement
	Slip Road R (From W70 to B18A) Stage 2		100%		18-May-12 A				Slip Road R (From W7)
	Slip Road R (From W70 to B18A) Stage 2, formation (Remaining)		100%		18-May-12 A				Slip Road R (From W70 t
S26AN437	Slip Road R (From W70 to B18A) Stage 2, Drainage & utilities (Remaining)		100%		27-Jun-12 A	-			Slip Road R (From W7
S26AN438	Slip Road R (From W70 to B18A) Stage 2, pavement & roadworks (Remaining)		100%	50	14-Jul-12 A	14-Sep-13 A			Slip Road R (From W7

ivity ID	Activity Nome	Tatal	Activity	Original Class	Finish		2010			2011	1			2012				2013			2014
ivity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	21 O	2 Q3	Q4	Q1	Q2	Q3		1 Q2	Q	3 Q	4 Q	Q2	2 Q	3 C	4 C	2014 Q1 Q2 4 5 5 5
S26AN447	Construction Slip Road J (Under Bridge 15A)	-4	5%	45 27-Aug-13 A	17-Jan-14			8911					<u> </u>	2 3 3	333	333	334	444			Construc
S26AN448	Construction Slip Road Q (At W65C)	-6	0%	45 26-Nov-13	20-Jan-14			1 1 1 1 1 1 1 1 1 1 1 1													Construc
S26AN451	Road and Drainage Works (CH 3720 - 4550)	-11	70.28%	168 24-Jun-13 A	25-Jan-14			I						+			+	· · · · · ·			Road an
S26AN452	Removal of existing central barrier and forming temporary road (CH3720-4100)		100%	12 24-Jun-13 A	20-Jul-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											Remov	al of ex	kisting ce
S26AN4525	TTA - Stage 4B-2		100%	0	21-Jul-13 A													$\diamond$	TTA - S	tage 4	<b>⊦</b> ₿-2
S26AN453	Road and Drainage Works for Slow and Mid Lane (CH3720 - 3850)	-1	40%	20 08-Jul-13 A	09-Dec-13														<u>     </u>	📕 Ro	ad and D
S26AN454	Road Surface Works for Slow and Mid Lane (CH3720 - 3850)	-1	40%	10 26-Oct-13 A	16-Dec-13															<b>I</b> Ro	oad Surfa
S26AN455	Removal of existing central barrier (CH4100-4550)		100%	8 26-Jul-13 A	09-Aug-13 A												+		Remo	val of e	existing c
S26AN456	Road Works for Fast and Mid Lane (CH3850 - CH4550)		100%	20 10-Aug-13 A	25-Nov-13 A			1 1 1 1 1 1 1 1 1 1 1 1											<u> </u>	Roa	d Works
S26AN457	Road Surface Works for Fast and Mid Lane (CH3850 - 4550)		100%	10 27-Aug-13 A	25-Nov-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											<u> </u>	Roa	d Surface
S26AN458	Road Works for Fast Lane (CH3720 - 3850)		100%	20 26-Oct-13 A	25-Nov-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												Roa	d Works
S26AN459	Road Surface Works for Fast Lane (CH3720 - 3850)		100%	10 26-Oct-13 A	25-Nov-13 A															Roa	d Surface
S26AN460	Road and Drainage Works for Slow Lane (CH4250 - 4550)	-11	20%	35 05-Oct-13 A	30-Dec-13			-									+			R	Road and
S26AN461	Road Surface Works for Slow Lane (CH4250 - 4550)	-11	20%	10 26-Oct-13 A	09-Jan-14															<b>-</b>	Road Sur
S26AN462	Road Construction and Remaining Works (along CH 3720 - 4550)	-11	60%	35 05-Oct-13 A	25-Jan-14																Road Co
S26AN470	Road and Drainage Works (CH 4550 - 4720)	-6	48.86%	88 26-Oct-13 A	20-Jan-14			1 1 1 1 1 1 1 1 1 1 1 1													Roadan
S26AN471	Road and Drainage Works for Fast Lane (CH 4550 - 4720)		100%	35 26-Oct-13 A	25-Nov-13 A			1 1 1 1 1 1 1 1 1 1 1 1													d and Dr
S26AN472	Road Surface Works for Fast Lane (CH4550 - 4720)		100%	8 26-Oct-13 A	25-Nov-13 A					+				+			 +   				d Surface
S26AN482	Road Construction and Remaining Works (along CH 4550 - 4720)	-6	0%	45 26-Nov-13	20-Jan-14			1 1 1 1 1 1 1 1 1 1 1 1													Road Co
	ntrol & Survelance System							1 1 1 1 1 1 1 1 1 1 1 1													
S26AN480	TCSS (G25, G26, G27, G28 & SEC Poles SC58/S58) (incl. VO73 Revised Sign	2	50%	50 15-Jun-13 A	10-Jan-14			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												Li, j.	TCSS (G
020/111-00	Gantry Details)		0070		no ban na			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
Modificatio	on of Existing Bridge							1 1 1 1 1 1 1 1 1 1 1 1													
S26AN200	Modification of Existing Bridge 15	5	67.08%	104 24-Jun-13 A	08- Jan-14			   + - 													Modificati
S26AN230	Demolish of Central Barrier	5	100%	12 24-Jun-13 A		_															sh of Cen
S26AN240	Raising of Concrete Edge for N/B (CH3800 -3900)		100 %	15 09-Sep-13 A		_															sing of Co
		F				_															
S26AN250	Removal existing M.J and install new M.J for Slow and Mid Lane (S/B)	5	80%	8 02-Aug-13 A		_															noval exi
S26AN260	Raising of Concrete Edge for S/B (CH3800 - 4020) and N/B (CH3900 - 4020)	5	10%	25 09-Sep-13 A					+-+	i +i				+			+		╶╞╶╶┧╴		alsing of
S26AN270	Removal existing M.J and install new M.J for Fast Lane (S/B and N/B)		100%	10 04-Oct-13 A				1 1 1 1 1 1 1 1 1 1 1 1													noval exis
S26AN280	Removal existing M.J and install new M.J for Slow and Mid Lane (N/B)	5	50%	20 09-Sep-13 A	08-Jan-14			1 1 1 1 1 1 1 1 1 1 1 1													Removal
Landscapir								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
	Landscaping Works	29	65%	29 15-Mar-13 A	07-Dec-13			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												Lar	ndscaping
South Bou																4-4-6-	 				
Preliminari																					
S26AS000	Site Clearance/Access Rd		100%	164 26-Feb-10 A					1 1 1 1	e/Access	s Rd										
S26AS010	Site Clearance		100%	75 26-Feb-10 A			🗖 Site	Clearar	1 1 1 1												
S26AS020	Access Road		100%	75 31-May-10 A	14-Sep-10 A				ss Rolad												
Slopework																					
S26AS510	Slope Reinstatement Works (Bridge 15A)	-23	34.74%	95 08-Aug-13 A	12-Feb-14			$\begin{array}{cccccccccccccccccccccccccccccccccccc$												<b>i</b> i i	Slope I
S26AS515	Backfilling Slope	-23	60%	30 08-Aug-13 A																📕 Bao	ckfilling S
S26AS520	Soil Nail Installation	-23	30%	50 27-Aug-13 A	22-Jan-14																Soil Nail
S26AS540	Slope Surface Treatment	-23	0%	15 23-Jan-14	12-Feb-14																Slope S
Construction	on of Retaining Wall																				
Retaining V	Wall W65A																				
S27S1000	Sheet Pile/Excavate & Construct W65A		100%	83 28-Dec-10 A	08-Apr-11 A					Sheet	Pile/Ę	cavate 8	. Constru	ct W6	5A						
S27S1001	Sheet Pile & Excavation		100%	32 28-Dec-10 A	07-Feb-11 A				🗀 Sh	neet Pile	& Exca	vation									
S27S1002	Construction of Structure W65A		100%	50 11-Apr-11 A	13-Aug-11 A						Co	nstructio	n of Strue	ture V	V65A						
S27S1012	Backfilling behind W65A and drainage works	11	60%	40 15-Jul-13 A	30-Dec-13				111			1111			: : :	: i i			111	В	Backfilling

Retaining Wall W65B, (CSD 1)         IDE	/ ID	Activity Name	Total	Activity %	Original	Start	Finish		2010			2011		
Residue Visit Visits (2007)           SetTission (2007)			Float	Complete	Duration			21 Q1 1 2 3 4	2 Q3	Q4 8 9 1 1	Q1	Q2 Q3	Q4 Q 2 2 2 2 2 2	21 Q2 22222
9975014       MO Lights paradian       1005       59       2448+114       1414         9275050       Concents start of freed       1005       64       1005-104       1005-	Retaining W	all W65B, (CSD 1)												
927942       Converse to conflicted       1999       44       504104       Concent to conflicted         9279144       Concent to conflicted       1997       44       504104       Concent to conflicted         9279144       Concent to conflicted       1997       44       154er11A       114er11A         9278145       Concent to conflicted       1997       44       154er11A       114er11A         9278146       Concent to conflicted       1997       44       154er11A       114er11A       114er11A         9278146       Concent to conflicted       1997       44       154er11A       124er11A       124er11A       124er11A         9278147       Concent to conflicted and and and and and and and and and an	S27S1040	WSD 1220 dia Diversion		100%	36	26-Jul-11 A	17-Dec-12 A							
957/004       000000000000000000000000000000000000	S27S1041	HyD Lighting relocation		100%	36	26-May-11 A	18-Jun-11 A					🗖 HyD	Lighting rela	ocation
12872044       Hostatian of Calabia Decre Paties O.P.       1005       24       15 Feb 11 A       2 Aug 11 Aug - 11 A         2570000       Capacity Weining ArWalds       1005       42       0 April 1A       2 Aug 12 Aug       2 Aug	S27S1042	Excavate to cut-off level		100%	42	15-Oct-10 A	03-Dec-10 A				Excava	te to cut-off	level	
19257100       Copying Wanging ter W695.       Image: Section of W695       Image: Secti	S27S1043	COD: CLP overhead cable		100%	75	15-Jan-11 A	11-Apr-11 A					COD: CLI	overhead (	cable
	S27S1044	Relocaltion of Existing Electric Poles, CLP		100%	24	15-Feb-11 A	11-Apr-11 A					Relocaltic	n of Existing	) Electric
1975 100             00.04H 23 - Reveal that bax definition agrings for UN1220             105             105	S27S1060	Capping/Walling for W65B		100%	42	06-Apr-11 A	20-Aug-11 A						Capping/W:	alling for
192110       Red/Hing behind Weiße and drainage works       16       705       40       16-Jul 13A       20 De 13         Read Reconstructure       83.087       83.087400       Readworks, Drainages & Utilites Gut 40:00       1       83.087       110       14-8e-12A       14-Jan 14         S2654700       Readworks, Drainages & Utilites GUT 40:00-1000       1005       501       110       14-8e-12A       12-Jul-12A         S2654700       Readworks, Drainages & Utilites GUT 40:00-1000       1005       50       14-8e-12A       12-Jul-12A         S2654710       Readworks, Drainages & Utilites Stage 1       1005       1005       75       72-Jul-12A       31-Jul-12A         S2654720       Readworks, Drainages & Utilites Stage 1       1005       1005       16-16e-12A       32-Jul-12A         S2654720       Readworks, Drainages & Utilites Stage 1       1005       1005       16-16e-12A       32-Jul-12A         S265420       Readworks, Drainages & Utilites Stage 1       1005       1005       16-16e-12A       32-Jul-12A         S265420       Readworks, Drainages & Utilites Stage 1(0+020-d-500)       1005       16-16e-12A       32-Jul-12A       32-Jul-12A         S265420       Readworks, Drainages & Utilites Stage 10-100       1005       16-169-12A       32-Jul-12A <td< td=""><td>S27S1070</td><td>Backfilling for W65A &amp; B</td><td></td><td>100%</td><td>75</td><td>10-Sep-11 A</td><td>21-Jul-12 A</td><td></td><td></td><td></td><td></td><td></td><td>· · · · · ·</td><td></td></td<>	S27S1070	Backfilling for W65A & B		100%	75	10-Sep-11 A	21-Jul-12 A						· · · · · ·	
Read Re-Construction Works, Roadworks, Drainage & Ullities         Status 400         Activation (Dimage & Ullities (Cit 4400-4500)         1         88.494         200         14 Reh 24 Reh 24         14 Reh 24	S27S1090	COD: DAN 273- revised thrust box detail and additional works for DN1220		100%	30	17-Dec-12 A	24-Jan-13 A							
SebAction         Readworks, Drainages & Unities (Stapp 1 (dx420) - 4000)         1         89 98%         300         14 Feb 12 A         11 June 12 A           SebAction         Readworks, Drainages & Unities Stapp 1 (dx420) et420 & Tal Po Tal Wo Road)         100%         110         14 Feb 12 A         11 Doc 12 A           SebAction         Readworks, Drainages & Unities Stapp 1 (dx420) et420 & Tal Po Tal Wo Road)         100%         75         14 Feb 12 A         11 Doc 12 A           SebAction         Analoge         100%         75         14 Feb 12 A         11 Doc 12 A           SebAction         Readworks, Drainages & Unities Stapp 1 (dx420) et420 (dx10)         100%         75         14 Feb 12 A         11 Doc 12 A           SebAction         Readworks, Drainages & Unities Stapp 2         100%         75         14 Feb 12 A         25 Stap 12 A           SebAction         Readworks Drainages 8 (dx020-et4200 K Tal Po Tal Wo Road)         100%         75         24 June 12 A         25 Stap 12 A           SebAction         Readworks Brainage 8 (dx020-et4200 K Tal Po Tal Wo Road)         100%         75         24 June 12 A         25 Stap 12 A           SebAction         Readworks Brainage 1 (dw100 Food)         100%         75         24 June 12 A         25 Stap 12 A           SebAction         Roadworkina Brainage 1 (dw10 Food) </td <td>S27S1110</td> <td>Backfilling behind W65B and drainage works</td> <td>15</td> <td>70%</td> <td>40</td> <td>15-Jul-13 A</td> <td>23-Dec-13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	S27S1110	Backfilling behind W65B and drainage works	15	70%	40	15-Jul-13 A	23-Dec-13							
SBAR491         Readworks. Dranages & Utilities Stapp 1 (ch4000 dr A200 & Tai Po Tai Wo Road)         100%         110         14 Feb 12 A         11 De 12 A           SBAR411         Utilities         100%         75         14 Feb 12 A         02 Jul 12 A           SBAR412         Utilities         100%         75         14 Feb 12 A         02 Jul 12 A           SBAR414         Rado Stude & Radomán. Stapp 1         100%         75         14 Feb 12 A         23 Jul 12 A           SBAR424         Radoworks. Dranages & Utilities         Stapp 2 (ph 220-ph 4300)         100%         51         14 Heb 12 A         28 Sep 12 A           SBAR424         Remout of adding paring         100%         50         14 Heb 12 A         28 Sep 12 A           SBAR4242         Remout of adding paring         100%         70         14 Feb 12 A         28 Sep 12 A           SBAR444         Rado Straps A Str	Road Re-Co	nstruction Works, Roadworks, Drainage & Utilities	I <u> </u>				,							
SB04411       lemonal of existing parking       Images	S26AS400	Roadworks, Drainages & Utilities (CH 4020 - 4500)	-1	89.98%	399	14-Feb-12 A	14-Jan-14	-						
SERAS410         Herrowal dreating parking	S26AS410	Roadworks, Drainages & Utilities Stage 1 (ch4020-ch4200 & Tai Po Tai Wo Road)		100%	110	14-Feb-12 A	11-Dec-12 A							
S28A5410         Utilines         Utilines         100%         7.5         14-16-12.A         31-Juli 12.A           S28A5410         Pranagos         100%         7.5         7.4-17-12.A         31-Juli 12.A           S28A5410         Roadworks, Dranages & Utilines Staps (1/4 200 ch 4500)         100%         7.5         14-fob 12.A         28.867-12.A           S28A5420         Roadworks, Dranages & Utilines Staps (1/4 200 ch 4500)         100%         7.5         14-fob 12.A         18.Jul- 13.A           S28A5420         Roadworks, Dranages & Utilines Staps (1/4 200 ch 4500)         100%         7.5         14-fob 12.A         28.807+2.A           S28A5420         Roadworks Staps (1/4 200 ch 4200 ch 4200)         100%         7.5         14-fob 12.A         28.807+2.A           S28A5420         Roadworks Staps 2 (cm 4020 ch 4200 ch 4200 ch 4200)         100%         7.5         14-fob 12.A         28.907+2.A           S28A5440         Road Construction and Remaining Works (along Ch+4200 - 4200)         100%         7.5         14-fob 12.A         28.907+2.A           S28A5440         Road Construction and Remaining Works (along Ch+4200 - 4200)         100%         50         28-Jun-13.A         2-Jun-13.A           S28A5440         Road Construction and Remaining Works (along Ch+4200 - 4200)         100%         0	S26AS411	Removal of existing paving		100%	25	14-Feb-12 A	02-Jul-12 A							
S286A318       Road Surtaos & Roadmark - Stage 1       In 100%       100%       1       11-Dec 12 A         S286A342       Roadworks, Dranages & Utilies Stage 2(h4200-dh4500)       In 100%       77       14-Foi 12 A       28 Sep 12 A         S286A342       Utilies Stage 2(h4200-dh4500)       In 100%       77       14-Foi 12 A       28 Sep 12 A         S286A342       Utilies Stage 2(h4200-dh4500)       In 100%       75       14-Foi 12 A       28 Sep 12 A         S286A342       Datasgas       In 100%       75       7-Jun 12 A       11-Aug 12 A         S286A342       Road Surface & Roadmark - Stage 2       In 100%       16       10-Sep 12 A       28-Jun 13 A         S286A448       Road Surface & Roadmark - Stage 2       In 100%       100%       52       28-Jun 13 A       21-Jun 13 A         S286A440       Road Surface & Roadmark - Stage 2       In 100%       100%       50       14-Foi 12 A       19-Apr-12 A         S286A440       Road Surface & Roadmark - Stage 2       In 100%       100%       50       14-Foi 12 A       14-Jun 13         S2874100       S19 Road K (utilinies drainage roadwork)       Stage 2 Col 10       00%       15       14-Foi 12 A       19-Apr-12 A         S2874100       TS Bage Con 1000%       L000%	S26AS412	Utilities		100%	75	14-Feb-12 A	31-Jul-12 A							
82843420       Roadworks. Drahages & UNINES Stage 2(chi 4200 ch 4500)       Images       Images<	S26AS416	Drainages		100%	75	27-Jun-12 A	31-Jul-12 A							
82843420       Roadworks. Drahages & Ullikes Stage 2(cht 4200 cht 500)       Image       100%       77       14 Feb 12 A       28 Sep 12 A         8286.4224       Ullinein       Image       100%       100%       150       14 Feb 12 A       28 May 12 A         8286.4242       Ullinein       Image       100%       100%       75       14 Feb 12 A       28 May 12 A         8286.4242       Ullinein       Alload Suriano & Roadmark Stage 2       100%       100%       15       27 Jun 12 A       11 Aug - 12 A         8286.4348       Road Suriano & Roadmark Stage 2       11 Aug - 12 A       28 Jun 13 A       20 Jun 13 A         8286.4340       Road Contraction and Remaining Works (along CH420 - 4300)       10       100%       55       28 Jun 13 A       20 Jun 13 A         8287.4300       Road K (utilities & drainage) Stage 1 (set) (Bytings       10       100%       50       16 Aug 12 A       18 Jun 14 A         8287.410       Sign Road K (utilities & drainage) Stage 1 (set) (Byting Stag	S26AS418	Road Surface & Roadmark - Stage 1		100%	5	14-Jul-12 A	11-Dec-12 A							
S283.4322         Removal of existing paving         Images         Removal of existing paving         Removal of existing paving </td <td>S26AS420</td> <td></td> <td></td> <td>100%</td> <td>737</td> <td>14-Feb-12 A</td> <td>28-Sep-12 A</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	S26AS420			100%	737	14-Feb-12 A	28-Sep-12 A	-						
SeeBA326         Drainages         Control         Contro         Control         Control							· ·							
S2BA3262         Trainages         100%         72         27-Jun-12A         11-Aug-12A           S2BA3262         Trainages         100%         81         10-Sep-12A         28-Sep-12A           S2BA3263         Road Surkes S Roadmark - Sing e Z         100%         63         28-Jan-13A         21-Jun-13A           S2BA3263         Roadworks Sing 8 (n4020-n44020- 44020- 44020)         100%         100%         52         28-Jun-13A         21-Jun-13A           S2BA3263         Roadworks Sing 9 (n4020-n44020- 4400)         100%         100%         52         28-Jun-14A         15-Jun-12A           S2P5400         S10 Poalf K (utilities & drainage roadwork), Sing 9 (net. WSD connection)         100%         50         18-May-12A         15-Sot-12A           S2P34100         S10 Poalf K (utilities & drainage roadwork), Sing 9 (nd. WSD connection)         100%         50         18-May-12A         15-Sot-12A           S2P34101         S10 Poalf K (utilities & drainage roadwork), Sing 9 (nd. WSD connection)         100%         00         07-Oc1-12A           S2P34101         S10 Poalf K (utilities & drainage roadwork), Sing 9 (nd. WSD connection)         100%         25         28-Dec11A         0-Jun-12A           S2P34101         S10 Poalf K (utilities & drainage roadwork)         100%         25         28-Dec11A<														
2828,4282         Road Surface & Roadmark - Stage 2         i         100%         i         100%         28.28-p-12.A         28.48-p-13.A         21.40m-13.A           286,65440         Roadworks Stage 3 (ch4020-ch4200 & Tail P Tail Wo Road)         i         100%         55         28.48m-13.A         21.40m-13.A           286,65440         Roadworks Stage 3 (ch4020-ch4200 & Tail P Tail Wo Road)         i         100%         55         28.48m-13.A         21.40m-13.A         25.40m-13.A         21.40m-13.A           287,64100         Sip Road K (utilities & dranage), Stage 1 (excl. WSD connection)         i         100%         50         14.47e-b-12.A         14.9Am-12.A         15.0cm 12.A         14.4m-14           287,7110         Sip Road K (utilities & dranage 7 coadwork), Stage 2 (nd. WSD connection)         i         100%         50         04.0cm 12.A         14.54m-14           287,7110         Sip Road K (utilities & dranage 7 coadwork)         Stage 2 (nd. WSD connection)         i         100%         50         04.7cm 12.A         14.54m-14           287,7110         Sip Road K (utilities & dranage 7 coadwork)         Stage 2 (nd. WSD connection)         i         100%         25         28.4m-13.A         15.4m-13.4         25.4m-13.A         15.4m-13.4         25.4m-13.A         15.4m-13.4         25.4m-13.A         25.4m							-							·
S286A430       Roadvorks Stage 3 (ch4020 - dx400 & Tai Po Tai Wo Road)       Image: Signal Signal Signal Signal Signal Point Point Poi							-							
S28A5440       Road Construction and Remaining Works (along CH4020 - 4500)       I       100%       75       28-Jan-13 A       20-Jul-13 A         S2754100       Sip Road K (utilities & drainage). Stage 1 (ext.) WSD connection)       I       100%       52       26-May-11 A       25-Jun-11 A         S2754102       Sip Road K (utilities & drainage). Stage 1 (ext.) WSD connection)       I       100%       60       16-May-12 A       15-Ocl-12 A         S2754103       Sip Road K (utilities & drainage). Stage 1 (ext.) WSD connection)       I       20%       50       0-Col-13       14-14-14         S2754104       TA Stage 0       ITA Stage 0       0       0.7 - Ocl-12 A       I       I       I       20%       I       100%       0.7 - Ocl-12 A       I<						•	· ·							
S2754080       HyD/Lighting (Existing Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD Lightinga       image: construct Noise Street Light removal by HyD														
S2754100         Sip Road K (utilities & drainage). Stage 1 (excl. WSD connection)         Image: WSD connectin)         Image: WSD connectin)								_				<u>г</u> ы, г	)/lighting (E	viating C
S2754102         SIp Road K (utilities & drainage roadwork), Stage 2 (ind. WSD connection)         100%         50         18-May-12 A         15-Oct-12 A           S2754103         Sip Road S (utilities, drainage & roadwork)         1         20%         50         04-Oct-13 A         14-Jan-14           S2754104         TA Stage 0         0         7-Oct-12 A         0						•						ц <u></u> туц		
S2754110         Slip Road S (utilities, drainage & roadwork)         1         20%         50         04-Oct-13         14-Jan-14           S2754160         TTA Stage 0         0         100%         0         07-Oct-12             S2754160         TTA Stage 0         0         07-Oct-12         0   <							· ·							q
S2754160       TA Stage 0       100%       0       07-Oct-12 A       Image: Control of Co														
Noise Barriers           Noise Barriers           S26A5300         Construct Noise Barrier & Beam Barrier, NB36 & NB37         100%         25         28-Dec-11A         05-Jul-12 A           S26A5300         Construct Noise Barrier & Beam Barrier, NB36 & NB37         100%         28-Dec-11A         05-Jul-12 A           S26A5300         Construct Noise Barrier : Foundation Works         100%         75         28-Dec-11A         31-Jan-12 A           S26A5300         Remaining NB36 installation of P-column & Panel         100%         60         01-Feb-12A         05-Jul-12 A           S26A5300         Remaining NB36 installation of P-column & Panel         100%         76         05-UI-12 A           S26A5430         CSS ViceS Colspan="12">CSS ViceS System           CSS Cids720 - ch4820)         CSS (ch3720 - ch4820)         CSS Cids720 - ch4820)			-1				14-Jan-14							
N036e Barrier NB36 & NB37         IO 00%         252 8-Be-11 A         05-Jul-12 A           S26AS300         Construct Noise Barrier & Beam Barrier, NB36 & NB37         IO 00%         75         28-Dec-11 A         31-Jan-12 A           S26AS300         Noise Barrier : Foundation Works         IO 00%         00         01-Feb-12 A         05-Jul-12 A           S26AS300         Noise Barrier : Installation of H-column & Panel         IO 00%         00         01-Feb-12 A         05-Jul-12 A           S26AS300         Remaining NB36 installation of panel         IO 00%         7         25-May-13 A         15-Jun-13 A           Terffic Control & Survelance System         S26AS480         TCSS (ch3720 - ch4820)         IO 00%         24         11-Mar-13 A         19-Apr-13 A           S26AS480         TCSS - Stage 1 (ch3720 - ch3900)         IO 00%         24         19-Apr-13 A         06-Jun-13 A           S26AS482         TCSS - Stage 2 (ch3900 - ch4480), (Gantry G59) (incl. VO73 Revised Sign Gantry Details)         IO 00%         24         20-Nov-12 A         21-Dec-12 A           S26AS485         TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign Gantry Details)         IO 00%         24         20-Nov-12 A         21-Dec-12 A           S26AS486         TCSS - Stage 5 (ch4440 - ch4620) <td></td> <td></td> <td></td> <td>100%</td> <td>0</td> <td>07-Oct-12 A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				100%	0	07-Oct-12 A								
S26AS300       Construct Noise Barrier & Beam Barrier, NB36 & NB37       100%       225       28-Dec-11 A       05-Jul-12 A         S26AS300       Noise Barrier : Foundation Works       100%       100%       263       28-Dec-11 A       31-Jan-12 A         S26AS320       Noise Barrier : Installation of H-column & Panel       100%       060       01-Feb-12 A       05-Jul-12 A         S26AS300       Remaining NB36 installation of panel       100%       07       25-May-13 A       15-Jun-13 A         Traffic Control & Survelance System       S26AS480       TCSS (ch3720 - ch4820)       100%       100%       24       15-Jul-13 A         S26AS481       TCSS - Stage 1 (ch3720 - ch3900)       100       100%       24       19-Apr-13 A       19-Apr-13 A         S26AS482       TCSS - Stage 2 (ch3900 - ch4820). (Gantry G59) (ncl. VO73 Revised Sign Gantry       100%       24       19-Apr-13 A       06-Jun-13 A         S26AS483       TCSS - Stage 4 (ch4260 - ch4440). (Gantry G58) (ndl. VO73 Revised Sign Gantry       100%       24       22-Jan-13 A       06-Jun-13 A         S26AS485       TCSS - Stage 5 (ch4440 - ch4620)       39       60%       24       24-Dec-12 A       06-Dec-13         S26AS486       TCSS - Stage 6 (ch4620 - ch4820). (Gantry G57) (ndl. VO73 Revised Sign Gantry       100%       24														
S26AS310       Noise Barrier : Foundation Works       Image: Seame of the seame of the														
S26A S320         Noise Barrier : Installation of H-column & Panel         Image: Column & Pan														
S26AS330Remaining NB36 installation of panelImage: constraint of panelImage: constraint of panelImage: constraint of panelTraffic Controct & Survelance SystemS26AS480TCSS (ch3720 - ch4820)Image: constraint of panelImage: constraint of panelImage: constraint of panelS26AS480TCSS - Stage 1 (ch3720 - ch4820)Image: constraint of panelImage: constraint of panelImage: constraint of panelS26AS481TCSS - Stage 2 (ch3900 - ch4880)Image: constraint of panelImage: constraint of panelImage: constraint of panelS26AS482TCSS - Stage 2 (ch3900 - ch4800), (Gantry G59) (incl. VO73 Revised Sign GantryImage: constraint of panelImage: constraint of panelImage: constraint of panelS26AS483TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign GantryImage: constraint of panelImage: constraint of panelImage: constraint of panelS26AS485TCSS - Stage 5 (ch4440 - ch4620)Image: constraint of panelImage: constraint of panelImage: constraint of panelImage: constraint of panelS26AS486TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign GantryImage: constraint of panelImage: constraint of panelImage: constraint of panelS26AS486TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign GantryImage: constraint of panelImage: constraint of panelImage: constraint of panelS26AS486TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign GantryImage: constraint of panelImage: constraint of panelImage: constraint of panel <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Noise B</td>														Noise B
Traffic Control & Survelance System         S26AS 480       TCSS (ch3720 - ch4820)       100%       56       30-Nov-12 A       15-Jul-13 A         S26AS 480       TCSS - Stage 1 (ch3720 - ch3900)       100%       24       11-Mar-13 A       19-Apr-13 A         S26AS 482       TCSS - Stage 2 (ch3900 - ch4080)       100%       24       19-Apr-13 A       06-Jun-13 A         S26AS 483       TCSS - Stage 3 (ch4080 - ch4260), (Gantry G59) (incl. VO73 Revised Sign Gantry Details)       100%       24       22-Jan-13 A       06-Jun-13 A         S26AS 484       TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign Gantry Details)       100%       24       30-Nov-12 A       21-Dec-12 A         S26AS 485       TCSS - Stage 5 (ch4440 - ch4620)       39       60%       24       24-Dec-12 A       06-Dec-13         S26AS 486       TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry       100%       24       07-Jan-13 A       15-Jul-13 A				100%										
S26AS480       TCSS (ch3720 - ch4820)       I <t< td=""><td>S26AS330</td><td>Remaining NB36 installation of panel</td><td></td><td>100%</td><td>7</td><td>25-May-13 A</td><td>15-Jun-13 A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	S26AS330	Remaining NB36 installation of panel		100%	7	25-May-13 A	15-Jun-13 A							
S26AS481       TCSS - Stage 1 (ch3720 - ch3900)       Image: Comparison of the comparison	Traffic Cont	rol & Survelance System												
S26AS482       TCSS - Stage 2 (ch3900 - ch4080)       100%       24       19-Apr-13 A       06-Jun-13 A         S26AS483       TCSS - Stage 3 (ch4080 - ch4260), (Gantry G59) (incl. VO73 Revised Sign Gantry Details)       100%       24       22-Jan-13 A       06-Jun-13 A         S26AS484       TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign Gantry Details)       100%       24       30-Nov-12 A       21-Dec-12 A         S26AS485       TCSS - Stage 5 (ch4440 - ch4620)       39       60%       24       24-Dec-12 A       06-Dec-13         S26AS486       TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry       100%       24       07-Jan-13 A       15-Jul-13 A	S26AS480	TCSS (ch3720 - ch4820)		100%	56	30-Nov-12 A	15-Jul-13 A							
S26AS483TCSS - Stage 3 (ch4080 - ch4260), (Gantry G59) (incl. VO73 Revised Sign Gantry Details)100%2422-Jan-13 A06-Jun-13 AS26AS484TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign Gantry Details)100%2430-Nov-12 A21-Dec-12 AS26AS485TCSS - Stage 5 (ch4440 - ch4620)3960%2424-Dec-12 A06-Dec-13S26AS486TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry 100%100%2407-Jan-13 A15-Jul-13 A	S26AS481	TCSS - Stage 1 (ch3720 - ch3900)		100%	24	11-Mar-13 A	19-Apr-13 A							
Details)Details)Image: Construction of the second se	S26AS482	TCSS - Stage 2 (ch3900 - ch4080)		100%	24	19-Apr-13 A	06-Jun-13 A							
S26AS484TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign Gantry Details)100%2430-Nov-12 A21-Dec-12 AS26AS485TCSS - Stage 5 (ch4440 - ch4620)3960%2424-Dec-12 A06-Dec-13S26AS486TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry 100%100%2407-Jan-13 A15-Jul-13 A	S26AS483			100%	24	22-Jan-13 A	06-Jun-13 A							
Details)         Details           S26AS485         TCSS - Stage 5 (ch4440 - ch4620)           S26AS486         TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry           100%         24           07-Jan-13 A           15-Jul-13 A														
S26AS486         TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign Gantry         100%         24         07-Jan-13 A         15-Jul-13 A	S26AS484			100%	24	30-Nov-12 A	21-Dec-12 A							
	S26AS485	TCSS - Stage 5 (ch4440 - ch4620)	39	60%	24	24-Dec-12 A	06-Dec-13							
	S26AS486			100%	24	07-Jan-13 A	15-Jul-13 A							

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vity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 2012 2013 201 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
S26ANS50	Slopeworks & Reinforced Earth Wall Bridge 18A		100%	72 26-Feb-11 A	27-May-11 A	1234567891111111111222222222233333333334444444444
Construction	on of Bridge 18A					
S26AN94	COD: DAN 327 DN800/ 400 - Additional pipeline and thrust blocks	28	85%	75 06-Aug-12 A	09-Dec-13	
S26ANS10	Construct East & West Abutment of Bridge 18A		100%	91 28-Mar-11 A		Construct 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 18A)
S26ANS15	Construction East RE Wall (part 2)		100%	50 19-Aug-11 A	-	Construction East RE:Wall (part 2)
S26ANS16	Construction West RE Wall (part 2)		100%	50 19-Aug-11 A		Construction West RE Wall (part 2)
S26ANS18	Bridge 18A Decking and Watermain Diversion		100%	162 19-Jul-11 A		Bridge 18A Decking and Watermain Diversion
S26ANS60	Erecting Temporary Bridge Support		100%	48 24-Jun-11 A		Erecting Temporary Bridge Support
S26ANS70	Construction of Deck		100 %	60 27-Oct-11 A		Construction of Deck
S26ANS80	Construct remaining RE wall (East & West) (incl. VO 21, VO38 and VO79)			40 15-Dec-11 A		Constructive maining RE wa
			100%		· ·	
S26ANS82	Drainage, Utilities & Watermain Installation (incl.VO 53:Concrete Plinths for PCCW Cable Ducts & VO 78 CLP CT Details)		100%	50 28-Dec-12 A	15-Jun-13 A	Drainage, Utilities & Wa
S26ANS90	Road Surfacing		100%	10 07-May-13 A	19-Jun-13 A	Road Surfacing
S26ANS92	TTA Stage 1		100%	0 22-Jun-13 A		♦ TTA Stage 1
Roadworks	s, Drainage & Utilities					
S26ANS42	Diversion of water mains at existing bridge 18		100%	25 20-Feb-13 A	30-Jul-13 A	Diversi <mark>o</mark> n of water r
Demolition	of Existing Bridge 18					
	Demolition of Existing Bridge 18		100%	30 24-Jun-13 A	30-Jul-13 A	🗖 Demolition of Existi
Site Area S	SA27					
PHSA2720	Possession of SA27		100%	0 26-Mar-10 A		♦ Possession of SA27
SA270000	Site Area SA27 Works Period	-28	93.56%	1187 26-Mar-10 A	10-Feb-14	Site
SA270010	Site Area SA27 Works Completion	-28	0%	0	10-Feb-14	⇒ Site
SA270020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	-21	93.8%	959 26-Mar-10 A	10-Feb-14	
SA270030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-21	93.8%	959 26-Mar-10 A		Ovel
South Bou						
Slopework						
S27S0000	Site Clearance/Access Rd		100%	130 27-Mar-10 A	02 Sop 10 A	Site Clearance/Access Rd
S27S0000	Site Clearance (Stage 1)		100 %	40 27-Mar-10 A		Site Clearance (Stage 1)
S27S0002	Site Clearance (Stage 2)		100%	40 19-Jun-10 A	0	Site Cleara noe (Stage 2)
S27S0004	Access Rd (Stage 1)		100%	40 30-Apr-10 A		Access Rd (\$tage 1)
S27S0005	Access Rd (Stage 2)		100%	40 20-Jul-10 A		Access Rd ((Stage 2)
S27S5000	Slopeworks Cut(S34)		100%	46 28-Dec-10 A		
S27S5100	Slopeworks Cut(S42), Fill(S43)		100%	75 28-Dec-10 A		Slopeworks Cut(S42), Fill(S43)
S27S5101	Slopeworks Cut(S42)		100%	60 28-Dec-10 A	11-Mar-11 A	Slopeworks Cut(S42)
S27S5102	Slopeworks Fill(S43)		100%	60 26-Oct-11 A	06-Jan-12 A	Slopeworks Fill(\$43)
S27S5110	Slopeworks Cut(S37)		100%	0 02-Feb-11 A	02-Feb-11 A	I Slopeworks Cut(S37)
S27S5111	Slopeworks Cut(S37) - Stage 1, +40mPD		100%	62 18-Nov-10 A	01-Feb-11 A	Slopeworks Cut(S37) - Stage 1, +40mPD
S27S5112	Slopeworks Cut(S37) - Stage 2, +33.8mPD		100%	62 30-Jan-12 A	19-Apr-12 A	Slopeworks Cut(S37) - Stage 2, +33.8mPD
S27S5120	Slopeworks Fill(S38)(Including removal of existing retaining wall)		100%	96 13-Apr-12 A	21-Aug-12 A	Slopeworks Fill(S38)(Including removal of exis
S27S5121	Slopeworks Fill(S38) : Removal of existing retaining wall		100%	24 13-Apr-12 A	19-May-12 A	Slopeworks Fill((S38) : Removal of existing retaining w
S27S5122	Slopeworks Fill(S38) - Stage 1, +32mPD		100%	24 26-May-12 A	08-Jun-12 A	□ Stopeworks Fill(S38), - Stage 1, +32mPD
S27S5123	Slopeworks Fill(S38) - Stage 2, +34mPD		100%	24 11-Jun-12 A	11-Jul-12 A	Slopeworks Fill(S38) - Stage 2, +34mPD
S27S5124	Slopeworks Fill(S38) - Stage 3, formation level		100%	24 11-Jul-12 A	21-Aug-12 A	Slopeworks Fill(S38) - Stage 3, formation leve
S27S5130	Slopeworks Cut(S39)		100%	138 19-Jun-10 A	23-Feb-11 A	Slopeworks Cut(\$39)
S27S5131	Slopeworks Cut(S39) - Stage 1, +37mPD		100%	46 19-Jun-10 A		
			10070			Slopeworks Cut(S39) - Stage 2, +35mPD

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rity ID	Activity Name	Total Float	Activity % Complete	Original Duration		Finish	21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
S27S5133	Slopeworks Cut(S39) - Stage 3, formation level		100%	46	28-Dec-10 A	23-Feb-11 A	123456789111111111111222222222222333333333344444444
S27S5150	Slope Reinstatement Works (S42)	37		40	06-Sep-13 A	27-Nov-13	
	on of Retaining Wall W66/67 (CSD 2) & W71						
S27S1100	W66 & W67 (CSD 2)		100%	45	02-Oct-10 A	19-Mar-11 A	W66 & W67 (CSD 2)
S27S1101	Base Slab (W66)		100%		02-Oct-10 A		— Base Slab (W66)
S27S1102	Wall Stem (W66)		100%		02-Nov-10 A		— — — — — — — — — — — — — — — — — — —
S27S1102	Base Slab (W67)		100%		08-Nov-10 A		Base Slab (W67)
			100 %				□ Wall Steim (W67)
S27S1113	Wall Stem (W67)				28-Feb-11 A		
S27S1115	Backfill for W66&67		100%		27-Jun-11 A		Backfill for W66&67
S27S1200	Retaining Wall W71 (Bay1 - Bay5)		100%		02-Jun-10 A		Retạining Wall W71 (Bay1 - Bay5)
S27S1210	Retaining Wall W71 : Base Slab		100%		5 02-Jun-10 A		Retaining Wall W71 : Base Slab
S27S1220	Retaining Wall W71 : Wall Stem		100%	55	5 07-Aug-10 A	12-Oct-10 A	Retaining Wall W71: Wall Stem
S27S1230	Backfill for W71		100%	50	) 27-Jun-11 A	24-Aug-11 A	Backfill for W71
Roadworks	s, Drainage & Utilities						
S27S4000	Roadworks, Drainages & Utilities - Stage 1 (CH 3900 - 4740)	-21	83.35%	357	7 13-Apr-12 A	10-Feb-14	Ro
S27S4004	Utilities - Stage 1 (W66 & W67)		100%	60	) 13-Apr-12 A	19-Apr-12 A	□ Utilities - Stage 1 (W66 & W67)
S27S4006	Road and Drainages Works - Stage 1		100%	60	) 11-May-12 A	31-Jul-12 A	Road and Drainages Works - Stage 1
S27S4010	Road Surface - Stage 1		100%	50	) 28-Jul-12 A	11-Dec-12 A	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 - Sta
S27S4018	Removal of existing paving - Stage 2 (Remaining CH4500 - 4740)		100%		5 27-Aug-13 A		Removal of
S27S4035	Road and Drainage Works for Slow Lane - Stage 2 (incl. VO 55: Provision of	-21	20%		06-Oct-13 A		
32734033	drainage at Retaining Wall W71 & Bridge B18A)	-21	20 /0	50	00-001-13 A	23-Dec-13	
00704045	Band On free Wilder (20 Ohne Land	01	00/		04 Day 40	07.15.5.4.4	
S27S4045	Road Surface Works for Slow Lane	-21	0%		24-Dec-13	07-Jan-14	- Road
S27S4055	Road Construction and Remaining Works (along CH4500 - 4740)	-21	15%	30	27-Aug-13 A	10-Feb-14	
Construct	ion of Bridge 15A						
Preparato	ry and Enabling Works						
S26AS205	Site Clearance		100%	102	2 01-Jun-10 A	30-Sep-10 A	Site Clearance
S26AS210	Hual Road		100%	102	2 01-Jun-10 A	30-Sep-10 A	Hual'Road
S26AS215	11KV Diversion, CLP		100%	102	2 01-Jun-10 A	30-Sep-10 A	11KV Diversion, CLP
S26AS225	2 nos. Existing fresh water mains diversion		100%	36	6 26-Jan-11 A	11-Mar-11 A	2 nos. Existing fresh water mains diversion
S26AS235	Existing tel cable diversion, PCCW		100%	36	6 26-Jan-11 A	11-Mar-11 A	— Existing tel cable diversion, PCCW
S26AS245	HyD/Lighting		100%	60	) 26-Jan-11 A	09-Apr-11 A	HyD/Lighting
Substruct	ture and Pier Construction						
	tment, P1 to P5						
S26AS220	Piling - South Abutmentt, P1 to P5 (incl. VO29: revised piling details)		100%	335	5 02-Jul-10 A	16-Aug-11 A	Piling - South Abutmentt, Pil to P5 (incl. VO29: revised piling details)
S26AS230	Excavation & Cap-South Abutment, P1 to P5 (incl. VOE). To Voe Bridge 15A cap sleeving		100%		07-Feb-11 A		Excavation & Cap-South Abutment, P1 to P5 (incl. VO6: Bridge 15A cap
02070200	details)		100 /0	173			
506A6040	Pier & backfill, South Abutment, P1 to P5		1000/		10 10 44 1		
S26AS240			100%	112	2 13-Jun-11 A	20-001-11 A	Pier & backfill, South Abutment, P1 to P5
South Abu							
S26AS770	Piling - South Abutment		100%		02-Jul-10 A		Piling - South Abutment
S26AS780	Cap & Backfill - South Abutment		100%		07-Feb-11 A		Cap & Backfill - South Abutment
S26AS790	South Abutment		100%	21	13-Jun-11 A	14-Jul-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	6 18-Jan-11 A	09-Apr-11 A	Pijing - Pi
S26AS620	Cap & Backfill - P1		100%	37	26-May-11 A	09-Jul-11 A	Cap & Backfill - P1

	33			
ctivity 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 Q3
		Float Complete	Duration	
P2				
S26AS640	Piling - P2	100%	66 26-Apr-11 A 27-May-11 A	🗖 Piling - P2
S26AS650	Cap & Backfill - P2	100%	37 09-Jun-11 A 23-Jul-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	🗀 Piling - P3
S26AS680	Cap & Backfill - P3	100%	37 26-Mar-11 A 14-May-11 A	Capi & 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	Pier:- P4:
P5				
S26AS570	Piling - P5	100%	54 23-May-11 A 23-Jul-11 A	Piling - P5
S26AS580	Cap & Backfill - P5	100%	36 04-Aug-11 A 16-Sep-11 A	Cap & Backfill - P5
S26AS590	Pier - P5	100%	36 18-Nov-11 A 29-Feb-12 A	Piệr - P5
P6				
S26AS222	Piling-P6 Stage 1 (6 no.)	100%	20 26-Nov-11 A 19-Dec-11 A	□ Piling-P6 \$tągė 1 (6 nò.)
S26AS226	Piling-P6 Stage 2 (Remain, 9 no.)	100%	30 18-May-12 A 26-May-12 A	II <sup>I</sup> Piling-P6 Ştage 2 (Remain, 9 no.)
S26AS232	Cap & Backfill - P6	100%	36 05-Oct-12 A 09-Nov-12 A	,⊡ Cap&Bac(fil) - P6
S26AS242	Pier-P6	100%	12 20-Nov-12 A 13-Dec-12 A	D Pier-P6
North Abuti	ment			
S26AS224	Piling-North Abutment, Stage 1 (11no.)	100%	36 07-Oct-11 A 17-Nov-11 A	Piling-North Abutment, Stage 1 (11 no.)
S26AS228	Piling-North Abutment, Stage 2 (Remain, 16 no.)	100%	60 11-May-12 A 16-Jul-12 A	Piling-North Abutment, Stage 2 (Remain, 16 no.)
S26AS234	Excavation & Cap-North Abutment	100%	30 08-Aug-12 A 18-Dec-12 A	Excavation & Cap-North Abutment
S26AS236	Abutment	100%	20 24-Dec-12 A 18-Jan-13 A	Abutment
S26AS244	Backfilling	100%	50 22-Jan-13 A 15-May-13 A	Backfilling
Decking a	nd Finishing			
S26AS250	Bridge Deck (7 spans) (Bearing, Drainage & MJ included) (incl. VO 44: Revised Drainage Arrangement for Bridge 15A Deck)	100%	314 26-Nov-11 A 28-Mar-13 A	Bridge Deck (7 spans) (Bearing, Dra
S26AS251	Bridge Deck - Pier 1 to South Abutment	100%	75 26-Nov-11 A 26-May-12 A	Bridge Deck - Pier 1 to South Abutment
S26AS252	Bridge Deck - Pier 2 to Pier 1	100%	75 11-May-12 A 29-Aug-12 A	Bridge Deck - Pier 2 to Pier 1
S26AS253	Bridge Deck - Pier 3 to Pier 2	100%	75 01-Jun-12 A 06-Nov-12 A	Bridge:Deck - Pier 3 to Pier 2
S26AS254	Falsework dismantling of deck - Pier 3 to Pier 2	100%	18 03-Dec-12 A 22-Feb-13 A	
S26AS255	Bridge Deck - Pier 4 to Pier 3	100%	75 11-Aug-12 A 22-Dec-12 A	Bridge Deck- Pier 4 to Pier 3
S26AS256	Falsework dismantling of deck - Pier 4 to Pier 3	100%	18 25-Feb-13 A 03-May-13 A	Falsework dismantling of deck - f
S26AS257	Bridge Deck - Pier 5 to Pier 4	100%	75 27-Aug-12 A 31-Jan-13 A	Bridge Deck - Pier 5 to Pier 4
S26AS258	Falsework dismantling of deck - Pier 5 to Pier 4	100%	18 11-Mar-13 A 30-May-13 A	Falsework dismantling of deck
S26AS259	Falsework Erection of deck - Pier 6 to Pier 5	100%	18 03-Dec-12 A 23-Feb-13 A	Falsework Erection of deck - Pier 6 to
S26AS260	Bridge Deck - Pier 6 to Pier 5	100%	75 29-Dec-12 A 19-Apr-13 A	Bridgę De¢k- Pier 6 to Pier 5
S26AS261	Falsework dismantling of deck - Pier 6 to Pier 5	100%	18 06-May-13 A 14-Jun-13 A	Falsework dismantling of deck
S26AS262	Falsework Erection of deck - North Abutment to Pier 6	100%	18 31-Dec-12 A 04-Feb-13 A	Falsework Erection of deck - North Abut
S26AS263	Bridge Deck - North Abutment to Pier 6	100%	50 14-Jan-13 A 28-Mar-13 A	Bridge Deck - North Abutment to Pi
S26AS264	Falsework dismantling of deck - North Abutment to Pier 6	100%	18 13-May-13 A 14-Jun-13 A	— Falsework dismantling of deck
S26AS269	Parapet (icl, precast concrete skin)	100%	50 06-Dec-12 A 08-Jun-13 A	Parapet (ic <mark>l</mark> , precast conorete
S26AS270	Noise Barrier for Bridge 15A	100%	25 27-Mar-13 A 12-Jun-13 A	Noise Barrier for Bridge 15A
S26AS272	Surfacing	100%	10 10-May-13 A 20-Jun-13 A	— Surfaçing
S26AS275	Lighting	100%	7 04-May-13 A 07-Jun-13 A	Lighting

vity ID	Activity Name	Total	Activity %	Original	Start	Finish	2010 2011 2012 2013 20
		Float	Complete	Duration			D1         O2         O3         O4         O1         O3         O4         O1         O3         O4         O1         O3         O4         O1 <tho3< th="">         O4         O1         O3<!--</th--></tho3<>
S26AS280	Handover Inspection of Bridge 15A		100%	3	20-Jun-13 A	22-Jun-13 A	I. Handover Inspection c
Ready For	r Pre-Handover Retaining Wall of Section 3						
HRW0030	Ready For Pre-Handover Retaining Wall W65C, W68, W69, W70, W72A	32	0%	7	26-Nov-13	03-Dec-13	D Ready Fo
HRW0031	Ready For Pre-Handover Retaining Wall W65A, W65B, W66, W67, W71	32	0%	7	26-Nov-13	03-Dec-13	D Ready Fo
Section 4			· · · · · · · · · · · · · · · · · · ·				
Site Area S	SA28						
PHSA2820	Possession of SA28 (Day0)		100%	0	26-Feb-10 A		♦ Possession of SA28 (Day0)
SA280000	Site Area SA28 Works Period	97	90.45%	1216	26-Feb-10 A	22-Mar-14	
SA280010	Site Area SA28 Works Completion	97	0%	0		22-Mar-14	—
SA280030	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	77	90.43%	983	26-Feb-10 A	22-Mar-14	
SA280040	Overall Utilities Diversion (Detail shall refer to supplementary information)	77	90.43%	983	26-Feb-10 A	22-Mar-14	
North Bou	Ind						
Preliminari							
	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%			05-Jun-10 A	Site Clearance (ch 4830-5250)
S28N0020	Site Clearance (ch 5250-5700)		100%		17-Apr-10 A		Site Cle'arance (ch 5250-5700)
S28N0110	Access Rd (ch 4830-5250)		100%			04-Oct-10 A	Access Rd (ch 4830-5250)
S28N0120	Access Rd (ch 5250-5700)		100%			19-Feb-11 A	Access Rd (ch 5250-5700)
Slopework			100 /8	75		191 09 11 4	
S28N5000	S Slopeworks Fill S44		100%	36	28-Dec-11 A	11-Feb-12 A	Slopeworks Fill S44
S28N5010	Slopeworks Fill S45	0	0%		26-Nov-13	14-Jan-14	
	on of Retaining Wall	0	0%	40	20-1100-13	14-Jan-14	
	Wall W72B (CSD 1)						
			100%	10	14 Son 10 A	20 Son 10 A	Prepare Piling Platform for W72B
	Prepare Piling Platform for W72B		100%			29-Sep-10 A	
S28N2020	Pre-drilling for W72B		100%			29-Sep-10 A	Pre-drilling for W72B
S28N2040	Piling works		100%			21-Mar-11 A	Piling works
S28N2050	Capping/Walling for W72B		100%			25-Jul-11 A	Capping/Walling for W72B
S28N2051	Pile Cap for W72B		100%		-	09-Jun-11 A	Pile Cap for W72B
S28N2052	Walling for W72B		100%			17-Sep-11 A	Walling for W72B
S28N2060			100%	68	26-Sep-11 A	15-Dec-11 A	Backfilling
	Wall W73 (CSD 1)				1		
S28N2071	Excavation & ELS		100%			13-Oct-10 A	Excavation & ELS
	W73 wall Structure (7 bays)		100%			20-Apr-11 A	─────────────────────────────────────
S28N2073	Base Slab W73		100%			28-Mar-11 A	⊟ Base Stab W73
			100%			20-Apr-11 A	🔲 Wall Stem & W73
S28N2080	Backfill		100%	75	09-Jul-11 A	24-Dec-11 A	Backfill
	Wall for Accom. Underpass Extn. (CSD 1)						
S28N230	Pre-drilling for Accommodation Underpass Extension		100%	30	30-Jun-10 A	04-Aug-10 A	Pre-drilling for Accommodation Underpass Extension
S28N240	Prepare Piling Platform for Accom.Underpass Extn		100%	30	30-Jun-10 A	04-Aug-10 A	Prepare Piling Platform for Accom.Underpass Extn
S28N250	Piling works		100%			25-Mar-11 A	Piling works:
S28N260	Capping/Walling (incl. VO71: Details of typical section for slip road R verge at AUE		100%			03-Jun-11 A	Capping/Walling (incl. VO71: Details of typical section for slip road R verge at A
	wall)		10070	04			
S28N270	Capping (AUE)		100%	45	26-Mar-11 A	25-May-11 A	Cappinġ (AUE)

/ity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011 2012 2013 2014
•		Float	Complete	Duration		<u>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</u>
S28N290	Backfilling		100%	62 26-Se	p-11 A 17-Dec-11 A	
Retaining W	/all W74					
S28N2105	Liasion with location resident for slip road diversion		100%	75 26-Fe	eb-10 A 05-Jun-10 A	Liasion with location resident for slip road diversion
S28N2115	Utilities Diversion		100%	60 07-Ju	n-10 A 17-Aug-10 A	Utilițies Diversion
S28N2120	Temporary road and pedestrian diversion		100%	60 18-Au	Ig-10 A 29-Oct-10 A	Temporary road and pedestrian diversion
S28N2125	Pre-drilling for Piles		100%	15 21-Oc	t-10 A 19-Nov-10 A	Pre-drilling for Piles;
S28N2130	Confirmation of Founding Level		100%	19 26-Ma	ar-11 A 18-Apr-11 A	Confirmation of Founding Level
S28N2134	Falsework removal beteew NLK deck P7 -P8		100%	26 07-Ja	n-13 A 01-Feb-13 A	🗖 Falsework removal beteew NLK dec
S28N2135	Piling work for W74 (Stage 1: Bay1 - 3)		100%	75 21-Fe	eb-13 A 22-Apr-13 A	Piling work for W74 (Stage 1
S28N2140	Temporary Work for Excavation (Stage 1: Bay1 - 3)		100%	20 27-Ju	n-12 A 31-Jul-12 A	Temporary Work for Excavation (Stage 1: Bay1 - 3
S28N2145	Excavation and Tie Back to Formation Level (Stage 1: Bay1 - 3)		100%	18 18-Ju	I-12 A 31-Jul-12 A	Excavation and Tie Back to Formation Level (Stag
S28N2150	Pile Head Trimming and bearing plate (Stage 1: Bay1 - 3)		100%	14 27-Ma	ay-13 A 11-Jun-13 A	🗖 : Pìle Héad Trimming and b
S28N2155	Retaining Wall Construction (Stage 1: Bay1 - 3)		100%	45 11-Ju	n-13 A 07-Oct-13 A	Retaining Wall C
S28N2156	Base Slab (W74) (Bay 1- 3)		100%	30 25-Ma	ay-13 A 27-Jul-13 A	ឝaşe¦S <mark>a</mark> b (₩74) (₿ay
S28N2158	Wall Stem (W74) (Bay 1- 3)		100%	30 23-Ju	I-13 A 07-Oct-13 A	Wall Stem (W74
S28N2160	Retaining Wall Construction (Stage 2: Bay 4 - 9)	-31	71.04%	202 23-Ap	or-13 A 08-Feb-14	Retaini
S28N2161	Falsework removal bewteen NLK deck P8 - P9		100%	26 23-Ap	or-13 A 20-Jul-13 A	Falsework;removal bev
S28N2162	Piling work for W74 (Stage 2: Bay 4 - 9)		100%	· · ·	n-13 A 22-Oct-13 A	Piling work for M
S28N2164	Temporary Work for Excavation (Stage 2: Bay 4 - 9)		100%		n-12 A 17-Jul-12 A	Temporary Work for Excavation (Stage 2: Bay 4 - 9
S28N2165	Excavation and Tie Back to Formation Level (Stage 2: Bay 4 - 9)		100%	19 18-Ju	I-12 A 31-Jul-12 A	Excavation and Tie Back to Formation Level (Stag
S28N2167	Base Slab (W74) (Bay 4 - 9)	-31	50%	25 07-Se	p-13 A 10-Dec-13	Base \$lab (
S28N2168	Wall Stem (W74) (Bay 4 - 9)	-31	30%	30 05-Oc	et-13 A 07-Jan-14	Wall Sten
S28N2190	Backfilling	-31	0%	25 07-Ja	n-14 08-Feb-14	Backfill
Noise Barrie	er NB43 (AD5)					
	Utilities Diversion		100%	127 01-Ju	n-10 A 10-Feb-11 A	Utilitie's Diversion
	Temporary Noise Barrier Installation		100%		ov-10 A 26-Dec-10 A	Temporary Noise Barrier Installation
	Noise Barrier Construction Stage 1 (Bay 1 - 3)		100%		b-12 A 14-Aug-12 A	Noise Barrier Construction Stage 1 (Bay 1 - 3)
S28N2525	Noise Barrier Construction Stage 2 (Bay 4 - 9)		100%		n-13 A 18-Jun-13 A	Noise Banier Constructio
S28N2526	Noise Barrier Construction Stage 3 remaining (Bay 4 - 7) Wall	-1	0%	30 06-De		Moise:Bà
S28N2530	Erection of Steel Post & Panel (Bay 1 - 3)	· · ·	100%		ec-12 A 31-Jan-13 A	Erection of Steel Post & Panel (Bay
	Erection of Steel Post & Panel (Bay 4 - 9)	-1	0%	10 14-Ja		
		'	0 /8	10 14 04	23 0411 14	
S28N3890	VO 25: Construction of Cross road Ducts & traffic signal Drawpits at proposed		100%	10 27 Ap	or-11 A 12-Sep-12 A	VO 25: Construction of Crossingad Ducts & traf
020110000	crossing point of tai Wo Service Road West		100 /8	10 27-Αμ	12-36p-12 P	
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-Oc	t-11 A 12-Jun-12 A	CLP & Gasmian Diversion, Tear Drop/ <mark>\$</mark> lip Road T(inc
00010000	· · · ·		1000/			
S28N3902	DN400 landfill gasmain at NB41-stage 1		100%		ov-12 A 28-Nov-12 A	0 DN400 lahdfill gasmain at NB41-stage 1
S28N3904	DN400 landfill gasmain at NB41-stage 2		100%		ec-12 A 02-Mar-13 A	DN400 landfill gashain at NB41-s
S28N3906	New Joint Box construction for CLP 132kV		100%		ec-12 A 14-May-13 A	New Joint Box construction
S28N3910	Watermain, traffic light, road drains & gully, Tear Drop/Slip Road T (incl. VO52)		100%	75 15-Au	Ig-11 A 11-Mar-13 A	Watermain, traffic light, road drai
S28N3920	COD: TTA Case 50 Stage 1 & 2 (Epron ordered: 16-12-11, expected delivery date: 23-1-13, actual delivery date: 12-3-12)		100%	24 16-De	ec-11 A 21-Apr-12 A	COD: TTA Case 50 Stage 1 & 2 (Epron ordered 16-12-11
S28N3970	Pavement at Tear Drop Area, Slip Road T & Traffic diversion		100%	30 18-Ma	ay-12 A 11-Mar-13 A	Pavement at Tear Drop Area, Sli
S28N4002	Roadworks, Drainages & Utilities, TWSRW Road from NB41-bay 6 to NB42-bay12		100 %		ay-12 A 23-Mar-13 A	Roadworks, Drainages & Utilitie:
520194002	(incl. VO42 & VO43)		10076		ay 12 m 20-11101-13 A	
S28N4004	Drainage, Utilities & Removal of existing paving (incl.TTA & VO 77 Provision of cable duct for power supply)		100%	75 18-Ma	ay-12 A 11-Mar-13 A	Drainage, Utilities & Removal of

inda a la		A study blama	i	A a black at	Oninin al Ota t	Finial	2010 2011 2012 2013 2014
tivity ID		Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	<b>21</b> Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2
S2	28N4006	Road surfacing, Tai Wo Service Road West from NB41-bay 6 to NB42-bay12 (incl. VO 81 maintenance acess for NB41 & NB42)		100%	60 22-Jan-13 A	23-Mar-13 A	1234567891111111111122222222223333333333444444444
S2	28N4010	Roadworks to NKL Flyover and Ramps		100%	175 30-Jan-13 A	16-Aug-13 A	Roadworks to NKL
S2	28N4012	Roadworks to NKL Flyover and Ramp - South Ramp to SA		100%	50 30-Jan-13 A	24-Jul-13 A	Roadworks to NKL Fly
S2	28N4014	Roadworks to NKL Flyover and Ramp - North Ramp to NA		100%	20 13-Jun-13 A	22-Aug-13 A	Roadworks to NKL I
S2	28N4020	Road Marking of New Lam Kam Bridge and Final Diversion of South Bound Traffic from NLK Bridge to Modified Lam Kam Bridge		100%	10 23-Jul-13 A	16-Aug-13 A	🗖 Road Marking of Ne
S2	28N4024	Road and Drainage Works (along W74 and NB38)	-31	0%	20 08-Feb-14	04-Mar-14	
S2	28N4030	300d, 1200d watermain (chA9.00-ch182.00) & Firemains	9	93.27%	362 06-Aug-10 A	24-Dec-13	300d; 120
S2	28N4040	Cable Detection and Trial Pit Excavation		100%	72 06-Aug-10 A		Cable Detection and Trial Pit Excavation
	28N4050	Sheet Pile & ELS		100%	72 20-Sep-10 A	· ·	Sheet Pile & ELS
	28N4060	TBM Boring and Installation of Sleeve Pipe		100%	60 16-Feb-11 A		TBM Borring and Installation of Sleeve Pipe
	28N4070	Water Pipe installation - inside the sleeve pipe (ch0.00-ch70.00)		100%	50 24-Mar-11 A		Water Pipe installation + inside the sleeve pipe (ch0:00-ch70.00)
	28N4080	Water Pipe installation (DN1200 ch A9.00-0 & DN300 CHA7.3 - 0)		100%	75 19-May-12 A		Water Pipe installation (DN1200 chA9.00
	28N4090	Water Pipe installation (DN1200 CH70-165 & CH210-530 approx)			75 28-Dec-11 A		
	28N4090 28N4202	Water Pipe installation (DN1200 CH70-165 & CH210-530 approx) Water Pipe installation (DN1200 CH185 -210 cross road)		100%	75 28-Dec-11 A 75 28-Nov-12 A		Water Pipe Installation (DN 1200
	28N4220	Water Pipe installation (DN300 CH70 -166)		100%	75 21-Jan-13 A		Water Pipe installation (DN30
						· ·	
	28N4230	Water Pipe installation (DN300 CH166 -247)		100%	75 04-Jun-12 A	· ·	Water Pipe installation (DN30
	28N4240	Water Pipe installation (DN300 CHBB5 - 49)		100%	75 15-Feb-13 A	· ·	Water Pipe installation (DN30
	28N4250	Water Pipe installation (DN600 CHB0-84 & CHC0-76 Cross Road)		100%	75 28-Nov-12 A	•	Water Pipe installation (DN6
S2	28N4260	Remaining Works for Water Pipe installation (DN1200 CH183 - 227 cross road)	-42	20%	75 06-Sep-13 A	11-Feb-14	Rema
S2	28N4270	Remaining Works for Water Pipe installation (DN1200 CH280 - 330)		100%	75 14-May-13 A	30-Sep-13 A	Remaining Work
S2	28N4280	Remaining Works for Water Pipe installation (DN1200 CH515 - 529)		100%	30 23-Jul-13 A	23-Aug-13 A	🗖 Remaining Works f
S2	28N4290	Remaining Works for Water Pipe installation (DN600 CHB2.8 - 30.2(Revised 51))	9	80%	60 08-Jul-13 A	10-Dec-13	Remaining
S2	28N4300	Remaining Works for Water Pipe installation (DN600 CHC10.4 - 28.4(Revised 50))	9	60%	60 08-Jul-13 A	24-Dec-13	
S2	28N4310	Remaining Works for Water Pipe installation (DN300 CH183 - 227 cross road)	-42	0%	75 26-Nov-13	28-Feb-14	Rem
S2	28N4320	Remaining Works for Water Pipe installation (DN300 CHBB0 - 11(Revised 59))	-32	90%	45 26-Oct-13 A	05-Mar-14	Rem
S2	28N4330	Roadworks, Drainages & Utilities at TWSRW Road from NB38 to NB41-bay6 (TTA case 50 stage 7 & 8)	-41	0%	0 26-Nov-12 A		Roadwo
S2	28N4340	CLP Tie-in (Cross road and joint bay)		100%	75 26-Nov-12 A	04-Jun-13 A	CLP Tie-ìn (Cross road a
	28N4350	Removal existing paving, Drainage & Utilities (incl.TTA case 50 stage 7 & 8 and	-46	75%	35 27-Aug-13 A		Removal e
	28N4360	VO.77) Road Works and Road surfacing at Tai Wo Service Road West from NB38 to NB41 -	-41	0%	30 06-Dec-13	14-Jan-14	Road W
		bay6					
	28N4370	Road Works and Road Surfacing at Slip Road T (Slow Lane)	-41		30 06-Dec-13	14-Jan-14	Road W
S2	28N4380	Roadworks, Drainages & Utilities at TWSRW Road from NB38 to NB41- bay6 (TTA case 50 stage 9 & 10)	-46	0%	85 06-Dec-13	22-Mar-14	Ro
S2	28N4390	Removal existing paving, Drainage & Utilities (incl.TTA case 50 stage 9 & 10 and VO.77)	-46	0%	35 06-Dec-13	20-Jan-14	Remóv
S2	28N4400	Road Works and Road surfacing at Tai Wo Service Road West from NB38 to NB41 - bay6	-46	0%	35 20-Jan-14	05-Mar-14	
S2	28N4410	Road Works and Road Surfacing at Slip Road T (Fast Lane)	-46	0%	35 20-Jan-14	05-Mar-14	Róa
S2	28N4420	Remaining Road Works at Slip Road T and TWSRW Road from NB38 to NB41 - b	-46	0%	15 05-Mar-14	22-Mar-14	Re
S2	28N4430	CLP Tie-in (joint bay)		100%	75 01-Dec-12 A	04-Jun-13 A	CLP Tie-in (joint bay)
	28N4440	Transition Road Construction Works for TWSRW Road C2/C3 interface		100%	60 10-Jun-13 A		Transition Road
		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		

tivity ID		Activity Name	Total	Activity %	Original	Start	Finish		201	0			20	11			2012			201			201
avity ib			Float	Complete	Duration			21		Q3	Q4		Q2	Q3	Q4 Q <sup>2</sup> 2 2 2 2 2 2		2 Q3			Q2	Q3		Q1 G
	S28N2302	Temporary Noise Barrier Installation		100%	45	5 18-Oct-10 A	26-Dec-10 A		3 4 3	0 / 0					arrier Instal		2233	<u> </u>	<u> </u>	0 3 4 4	+ + + + +	4444	<u>+ ) ) ;</u>
	S28N2303	Pre-Drilling for NB39 & NB41		100%	21	26-Jan-11 A	22-Feb-11 A						Pre-Dril	ling for	NB39 & NE	341							
	S28N2304	Confirmation of Founding Level		100%	14	26-Mar-11 A	12-Apr-11 A						Con	firmatio	on of Found	ling Le	vel						
	S28N2310	Excavation		100%	10	03-Feb-12 A	14-Feb-12 A								0	Exca	vation						
	S28N2314	Noise barrier Construction (NB38 - NB41)	-24	92.36%	937	26-Apr-11 A	24-Feb-14						-										🗕 Nois
	S28N2316	Noise barrier Construction NB38	32	80%	30	27-Aug-13 A	03-Dec-13															📥 Noi	ise barr
	S28N2318	Noise barrier Construction NB39 (base slab)		100%	75	5 19-Apr-12 A	31-Dec-12 A				· - + - ·	- ++-+-							🛛 Nois	e barrie	r Constri	uct on NB	339 (ps
	S28N2320	Noise barrier Construction NB41 (incl. VO 23: Provision of Drainage of Noise Barrier 41)		100%	50	26-Apr-11 A	25-Jun-11 A							Noise	barrier Co	nstruc	ion NB4	1 (incl. V	/O 23: I	Provisior	of Drair	hage of N	Joise B
	S28N2330	Noise barrier Construction NB39 (Wall)	29	70%	30	27-Feb-13 A	06-Dec-13							1 1 1 1 1 1 1 1 1						<u></u>		📥 Νφί	ise barr
	S28N2340	Erection of steel and panel (NB41)		100%	24	11-May-12 A	05-Jun-12 A									(	Er,ec;	tion of st	teel and	I panel (	NB41)		
	S28N2350	Erection of steel and panel (NB39)	29	0%	10	06-Dec-13	18-Dec-13															🛛 Er	ection o
	S28N2355	Erection of steel and panel (NB38)	32	0%	10	03-Dec-13	14-Dec-13							4 I I								🛛 Er	ection c
	S28N2370	Noise Barrier Construction NB40 (Bay1 to Bay3)	-24	55%	50	27-Aug-13 A	12-Feb-14																Noise
	S28N2380	Noise Barrier Construction NB40 (Bay4 to Bay5)		100%	40	25-Mar-13 A	06-Jul-13 A														Noise	Barrier C	önstru
	S28N2385	Erection of steel and panel (NB40)	-24	0%	10	12-Feb-14	24-Feb-14	- ; ;						1 1 1 1 1 1 1 1 1									E Érec
T	raffic Cont	rol & Survelance System																					
		TCSS (ch4820-ch5640) & (Gantry G29) (incl. VO73 Revised Sign Gantry Details)	24	40%	40	29-Apr-13 A	23-Dec-13										-11+1					T(	CSS (cł
L	andscapin	α																					
		Landscaping Works (ch4820 - 5640)	8	20%	50	27-Apr-13 A	14-Jan-14																Landsc
S	outh Bou	nd	I																				
	reliminarie													1 1 1 1 1 1 1 1 1									
	S28S0000	Site Clearance/Access Rd (incl. VO4 & VO5: Revised setting out plan of Slip Road		100%	0	23-Jun-10 A	01-Feb-11 A						ite Clea	rance//	ccess Rd (	ind. V	04 & VO	5 Bevis	sed sett	ina out n	lan of SI	lin Boad	W)
	28S0010	Site Clearance		100%		5 23-Jun-10 A					1 1 1	Olearar											
	28S0020	Access Rd		100%		27-Jul-10 A	· · ·	_				1 1 1	ccess R	Ч									
		, Drainage & Utilities					000																
	28S4010	Roadworks, Drainages & Utilities (CH4820 - Ch5700)(incl. VO20: Revised Fire mains	30	96.91%	454	11-May-12 A	11-Dec-13															- Bc	adwork
		alignment plan)																					
	S28S4012	Removal of existing paving - Stage 1 (CH5300 - 5700 & Slip Road W)		100%		5 11-May-12 A										[						ıl of existi	ng pav
	S28S4016	Utilities - Stage 1		100%		5 11-May-12 A										[				1 1 1 1			
Ę	S28S4020	Road and Drainages Works - Stage 1 (incl.VO 75 Modification of existing SAV Chamber)		100%	75	i 11-May-12 A	25-Jun-13 A									(					Road a	Ind Draina	ages W
5	28S4021	Road Surface and Roadmark - Stage 1 (Slow Lane)		100%	30	18-Mar-13 A	18-Jul-13 A												1	<u> </u>	Boad	l Surface	and R
5	S28S4025	Removal of existing paving - Stage 2 (CH5300 - 5700 & Slip Road W)		100%	30	19-Jul-13 A	02-Aug-13 A														Rem	noval of e	xisting
5	28\$4027	Utilities - Stage 2 (CH5300 - 5700) (incl. VO 77 Provision of cable duct for power supply)		100%	30	03-Aug-13 A	12-Aug-13 A							J = -     I							0 Utili	ities - Sta	ıge 2 ((
5	28S4029	Road and Drainages Works - Stage 2		100%	30	03-Aug-13 A	12-Aug-13 A														🛿 Roa	ad and Di	rainago
	S28S4031	Road Surface and Roadmark - Stage 2 (Fast Lane)	30	80%	30	13-Aug-13 A	02-Dec-13															📕 Roa	ad Surfa
	S28S4085	Remaining Road Works at Slip Road W	30	80%		27-Aug-13 A		-															mainin
N	oise Barrie	ers 44 & Road Barriers																					
	loise Barrie											- ++++											·
_		Excavation for NB44		100%	219	25-Aug-10 A	24-May-11 A	-						Excava	tion for NB4	4							
	S28S2010	Excavation for NB44 (Bay1& Bay2)		100%		25-Aug-10 A	-				Ex(	1 1 1			y1& Bay2)	1 1 1							
	S28S2020	Excavation for NB44 (Bay3 & Bay4)		100%		19-Oct-10 A					i i i .	i i i	i i i -	i i i	(Bay3 & Ba	i i i							
	S28S2030	Excavation for NB44 (Bay5 & Bay6)		100%		26-Apr-11 A							1.1.1		tion for NB4	ТТ I	/5 & Bav	6)					
	S28S2040	Excavation for NB44 (Bay7 & Bay8)		100%		26-Aug-11 A									Excavati				av8)				
	22002070			10070			10 000 11 A		111	1	1 1 1	1 1 1		; ; 🖵				~,					

ivity ID	Activity Name	Total	Activity %	Original Start	Finish		2010	2011
		Float	Complete	Duration		21	Q2 Q3	Q4         Q1         Q2         Q3         Q4         Q1         Q2           39         1         1         1         1         1         1         2
S28S2060	Noise Barrier Footing Construction for NB44 (incl. VO 46: Modification of Noise Barrier Footing for NB44)		100%	282 26-Mar-11 A	20-Dec-11 A	120		Noise Bar
S28S2070	Noise Barrier Footing Construction for NB44 (Bay 1)		100%	32 26-Mar-11 A	15-Apr-11 A			📮 Noise Barrier Footing Constr
S28S2080	Noise Barrier Footing Construction for NB44 (Bay 2)		100%	32 06-Apr-11 A	21-Apr-11 A			Notse Barrier Footing Constr
S28S2090	Noise Barrier Footing Construction for NB44 (Bay 3)		100%	32 26-May-11 A	04-Jun-11 A			I Noise Barrier Fobting Co
S28S2100	Noise Barrier Footing Construction for NB44 (Bay 4)		100%	30 26-Apr-11 A	26-May-11 A			🔲 Noise Barrier Footing Con
S28S2110	Noise Barrier Footing Construction for NB44 (Bay 5)		100%	24 26-Sep-11 A	25-Oct-11 A			🏳 Noise Barrier
S28S2120	Noise Barrier Footing Construction for NB44 (Bay 6)		100%	24 26-Oct-11 A	22-Nov-11 A			🗖 Noise Barrie
S28S2130	Noise Barrier Footing Construction for NB44 (Bay 7)		100%	24 23-Nov-11 A	20-Dec-11 A			🗖 Noise Bar
S28S2140	Noise Barrier Footing Construction for NB44 (Bay 8)		100%	24 23-Nov-11 A	20-Dec-11 A			🗖 Noise Bar
S28S2150	Noise Barrier Footing Construction for NB44 (Bay 9)		100%	23 23-Nov-11 A	20-Dec-11 A			🗖 Noise Bar
S28S2160	Noise Barrier Footing Construction for NB44 (Bay 10)		100%	18 23-Nov-11 A	20-Dec-11 A			Dise Bar
S28S2170	Remaining NB44 installation of panel		100%	7 27-Aug-13 A	26-Sep-13 A			
Traffic Cor	trol & Survelance System		I_		<u> </u>			
S28S4800	TCSS	19	77.8%	130 28-Feb-13 A	31-Dec-13			
S28S4810	TCSS - Stage 1 (ch4820 - ch5520)	19	80%	24 28-Feb-13 A	30-Nov-13			
S28S4850	TCSS - Stage 5 (ch5520 - ch5640), (Gantry G56) (incl. VO73 Revised Sign Gantry	19	0%	24 30-Nov-13	31-Dec-13			
	Details)							
Modificatio	on of Existing Bridge		I		1			
S28S1200	Modification of Lam Kam Rd. Flyover	-39	39.22%	119 26-Aug-13 A	25-Feb-14			
S28S1240	Diversion for modification kerb and road reconstruction (N/B)	-39	95%	43 26-Aug-13 A	28-Nov-13			
S28S1250	Removal central barrier and road construction	-39	25%	40 26-Sep-13 A	06-Jan-14			
S28S1260	Diversion for modification kerb and road reconstruction (S/B)	-39	0%	40 06-Jan-14	25-Feb-14			
Road Cons	struction and Road Resufacing		I		1			
S28S4960	Road Construction and Resurfacing S/B for SA28	30	80%	60 26-Sep-13 A	16-Dec-13			
Site Area	SA29						$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
PHSA2920	Possession of SA29 (Day270)		100%	0 27-Jul-10 A			🔷 Po	ssession of SA29 (Day270)
SA290000	Site Area SA29 Works Period (incl. VO002 & VO0011: Fencing details along site	153	93.65%	946 27-Jul-10 A	25-Jan-14			
	boundaries SA 29)							
SA290010	Site Area SA29 Works Completion	153	0%	0	25-Jan-14			
SA290020	Site Area SA29 Works Completion Temporary Traffic Arrangement (Detail shall refer to supplementary information)	122	0% 93.57% 93.57%	0 764 27-Jul-10 A 764 27-Jul-10 A	25-Jan-14 25-Jan-14 25-Jan-14			
SA290020 SA290030	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)		93.57%	764 27-Jul-10 A	25-Jan-14			
SA290020 SA290030 North Bot	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind	122	93.57%	764 27-Jul-10 A	25-Jan-14			
SA290020 SA290030 North Boo Preliminar	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind         es	122	93.57% 93.57%	764 27-Jul-10 A 764 27-Jul-10 A	25-Jan-14 25-Jan-14			Site Cle ara nce/Access Bd
SA290020 SA290030 North Bou Preliminar S29N0000	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind         es         Site Clearance/Access Rd	122	93.57%	764 27-Jul-10 A	25-Jan-14 25-Jan-14			Site Cle ara nce/Access Rd
SA290020 SA290030 North Boo Preliminar S29N0000	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind         es	122	93.57% 93.57%	764 27-Jul-10 A 764 27-Jul-10 A	25-Jan-14 25-Jan-14 09-Apr-11 A			Site Cle arance/Access Rd
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind         ies         Site Clearance/Access Rd         s, Drainage & Utilities         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)	122	93.57% 93.57% 100%	764       27-Jul-10 A         764       27-Jul-10 A         60       26-Jan-11 A         58       13-Apr-12 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A			Site:Clearance/AccessRd
SA290020 SA290030 North Bou Preliminar S29N0000 Roadwork	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind         ind         ies         Site Clearance/Access Rd         s, Drainage & Utilities         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)         Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)         Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern	122	93.57% 93.57% 100%	764       27-Jul-10 A         764       27-Jul-10 A         60       26-Jan-11 A         58       13-Apr-12 A	25-Jan-14 25-Jan-14 09-Apr-11 A			Site Cle ara nce/Access Rd
SA290020 SA290030 <b>North Bou</b> <b>Preliminar</b> S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4020	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Ind         ies         Site Clearance/Access Rd         s, Drainage & Utilities         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)         Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)         Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)	122	93.57% 93.57% 100% 100% 100%	764 27-Jul-10 A 764 27-Jul-10 A 27-Jul-10 A 26-Jan-11 A 26-Jan-11 A 138 13-Apr-12 A 38 15-Jan-13 A 111 03-Jan-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A			
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4100 S29N4110	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Imd         Imd         Site Cle arance/Access Rd         Site Cle arance/Access Rd         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)         Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)         Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)         Gravity Sewer Line - Stage 1 (STS10.30-80)	122	93.57% 93.57% 100% 100% 100% 100%	764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         760       26-Jan-11 A         764       13-Apr-12 A         765       13-Apr-13 A         111       03-Jan-11 A         60       03-Jan-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A 31-Mar-12 A			G
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4100 S29N4110 S29N4110	Site Area SA29 Works CompletionTemporary Traffic Arrangement (Detail shall refer to supplementary information)Overall Utilities Diversion (Detail shall refer to supplementary information)Ind<	122	93.57% 93.57% 100% 100% 100% 100% 100%	764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       26-Jan-11 A         765       13-Apr-12 A         768       15-Jan-13 A         761       03-Jan-11 A         762       03-Jan-11 A         764       01-Apr-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A 31-Mar-12 A 30-Jul-11 A			G
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4100 S29N4100 S29N4120 S29N4130	Site Area SA29 Works CompletionTemporary Traffic Arrangement (Detail shall refer to supplementary information)Overall Utilities Diversion (Detail shall refer to supplementary information)IndIndIste Clearance/Access RdSite Clearance/Access RdSolarange & UtilitiesRoadworks, Realignment of Tai Wo Service Rd. West (NB42)Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)Gravity Sewer Line - Stage 1 (STS10.30-80)Gravity Sewer Line - Stage 2 (STS10.10-30)Gravity Sewer Line - Stage 2 (STS10.80-105)	122	93.57% 93.57% 100% 100% 100% 100%	764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         760       26-Jan-11 A         764       13-Apr-12 A         765       13-Apr-13 A         111       03-Jan-11 A         60       03-Jan-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A 31-Mar-12 A 30-Jul-11 A			Ģ
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4100 S29N4120 S29N4120 S29N4130 <b>Noise Bar</b>	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         und         ind         iss         Site Cle arance/Access Rd         s. Drainage & Utilities         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)         Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)         Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)         Gravity Sewer Line - Stage 1 (STS10.30-80)         Gravity Sewer Line - Stage 2 (STS10.10-30)         Gravity Sewer Line - Stage 2 (STS10.80-105)         iers & Road Barriers	122	93.57% 93.57% 100% 100% 100% 100% 100%	764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         764       26-Jan-11 A         765       13-Apr-12 A         768       15-Jan-13 A         761       03-Jan-11 A         762       03-Jan-11 A         764       01-Apr-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A 31-Mar-12 A 30-Jul-11 A			¢ı
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4100 S29N4100 S29N4120 S29N4130 <b>Noise Barr</b> Noise Barr	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         Imd         Imd         Site Cle arance/Access Rd         Site Cle arance/Access Rd         Source A Utilities         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)         Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)         Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)         Gravity Sewer Line - Stage 1 (STS10.30-80)         Gravity Sewer Line - Stage 2 (STS10.10-30)         Gravity Sewer Line - Stage 2 (STS10.80-105)         Imres & Road Barriers         Imres & Road Barriers         Imres WB42 on Mini-Piles (AD)	122	93.57% 93.57% 100% 100% 100% 100% 100%	764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         60       26-Jan-11 A         768       13-Apr-12 A         38       15-Jan-13 A         111       03-Jan-11 A         60       03-Jan-11 A         60       01-Apr-11 A         60       28-May-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A 31-Mar-12 A 30-Jul-11 A 15-Dec-12 A			Gravity Sewer Line -
SA290020 SA290030 <b>North Bou</b> Preliminar S29N0000 <b>Roadwork</b> S29N4010 S29N4020 S29N4100 S29N4100 S29N4110 S29N4130 <b>Noise Bar</b>	Site Area SA29 Works Completion         Temporary Traffic Arrangement (Detail shall refer to supplementary information)         Overall Utilities Diversion (Detail shall refer to supplementary information)         und         ind         iss         Site Cle arance/Access Rd         s. Drainage & Utilities         Roadworks, Realignment of Tai Wo Service Rd. West (NB42)         Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)         Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)         Gravity Sewer Line - Stage 1 (STS10.30-80)         Gravity Sewer Line - Stage 2 (STS10.10-30)         Gravity Sewer Line - Stage 2 (STS10.80-105)         iers & Road Barriers	122	93.57% 93.57% 100% 100% 100% 100% 100%	764       27-Jul-10 A         764       27-Jul-10 A         764       27-Jul-10 A         60       26-Jan-11 A         768       13-Apr-12 A         38       15-Jan-13 A         111       03-Jan-11 A         60       03-Jan-11 A         60       01-Apr-11 A         60       28-May-11 A	25-Jan-14 25-Jan-14 09-Apr-11 A 21-Jan-13 A 28-Mar-13 A 15-Dec-12 A 31-Mar-12 A 30-Jul-11 A 15-Dec-12 A			¢ı

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ivity ID	Activity Name	Total Float	Activity % Complete	Original Star	t Finish	2010         2011         2012         2013         20           21         Q2         Q3         Q4         Q1         Q1         Q2         Q3         Q4         Q1         Q1         Q2         Q3         Q3
S29N2030	Footing for NB42 (Bay1 - Bay5)		100%	60 06-0	Dec-10 A 05-Jul-11 A	I 2 3 4 3 6 7 6 9 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2
S29N2040	Footing for NB42 (Bay6 - Bay9)		100%	50 06-E	Dec-10 A 05-Jul-11 A	Footing for NB42 (Bay6 - Bay9)
S29N3000	Construct Noise Barrier & Beam Barrier (incl. VO 23. Provision of Drainage at Noise Barrier 42)		100%	60 26-5	Sep-11 A 01-Aug-12 A	Construct Noise Barrier & Beam Barrier (incl. V
Landscapir	ng l					
S29N6000	Landscaping Works (Near NB43)		100%	50 27-J	un-13 A 26-Sep-13 A	Landscaping V
Site Area S	SA32					
PHSA3210	Possession of SA32 (Day365)		100%	0 25-F	eb-11 A	Poissession of SA32 (Day365)
SA320000	Site Area SA32 Works Period		100%	265 26-F	eb-11 A 17-Nov-11 A	Site Area \$A32 Works Period
SA320010	Site Area SA32 Works Completion	-25	0%	0	17-Feb-14	Site
General						
S32G0000	Site Clearance/TTM		100%	72 26-N	Nar-11 A 25-Jun-11 A	Site Cle'arance/TTM
S32G4005	Application XP for Construct Roadside Fully Variable Message Sign	-18	80%	60 11-N	Nar-13 A 09-Dec-13	Applicatio
S32G4015	Construct Roadside Fully Variable Message Sign (RFVMS3)(include duct, footing and column)	-18	10%	30 26-5	Sep-13 A 13-Jan-14	Constr
S32G4025	Construct Roadside Fully Variable Message Sign (RFVMS2)(include duct, footing and column)	-18	10%	30 26-5	Sep-13 A 13-Jan-14	Coristi
S32G4035	Construct Roadside Fully Variable Message Sign (RFVMS1)(include duct, footing and column)	-18	10%	30 26-5	Sep-13 A 17-Feb-14	Cor
S32G4045	Construct Roadside Fully Variable Message Sign (TP04)(include duct, footing and column)	-18	10%	30 26-5	Sep-13 A 17-Feb-14	Cor
S32G4060	VO 13: Relocation of existing Directional Signs in the Vicinity of Lam Kam Road Interchange		100%	10 27-A	Apr-11 A 11-Sep-12 A	VO 13: Relocation of existing Directional Sig
Constructi	on of New Lam Kam Road					
	ure and Pier Construction					
South Ram	•		1000/	45 07 0		
S28N1213	Temporary Work for Excavation		100%	15 27-J		Temporary Work for Excavation
S28N1214	Excavation		100%		ul-12 A 08-Aug-12 A	Excavation
S28N1215	Construction of South Ramp (incl. VO72: revised North & South Ramps Retaining		100%		ul-12 A 26-Jan-13 A	Construction of South Ramp. (incl
S28N1216	Base Slab		100%		ul-12 A 19-Oct-12 A Sep-12 A 31-Dec-12 A	Base Slab
S28N1217	Wing Wall		100%	/5/24-5		
	Backfilling to South Damp					Wing Wall
S28N1227	Backfilling to South Ramp		100%		Dec-12 A 25-Jan-13 A	
S28N1227 Pier NLKP1			100%	40 28-0	Dec-12 A 25-Jan-13 A	Backfilling to South Ramp
S28N1227 Pier NLKP1 S28N1200	Gas Main Diversion		100% 100%	40 28-C	Dec-12 A 25-Jan-13 A	<ul> <li>Backfilling to South Ramp</li> <li>Gas Main Diversion</li> </ul>
S28N1227 Pier NLKP1 S28N1200 S28N1232	Gas Main Diversion Piling (16shp)		100% 100% 100%	40 28-E 45 28-E 50 13-A	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A	Gas Main Diversion Piling (16shp)
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)		100% 100% 100% 100%	40 28-E 45 28-E 50 13-A 70 03-C	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A	Gas Main Diversion Piling (16shp) Cap and Pier (incl. VQ29: revised pilin
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234 S28N1236	Gas Main Diversion Piling (16shp) Cap and Pier (incl. VO29: revised piling details) Pile Cap		100% 100% 100% 100%	40 28-E 45 28-E 50 13-A 70 03-C 25 03-C	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dec-12 A 26-Nov-12 A Dect-12 A 11-Oct-12 A	Gas Main Diversion Gas Main Diversion Piling (16shp) Cap and Pier (ind. VO29: revised pilin Pile Cap
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234 S28N1236 S28N1238	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier		100% 100% 100% 100%	40 28-E 45 28-E 50 13-A 70 03-C 25 03-C	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A	Gas Main Diversion Piling (16shp) Cap and Pier (incl. VQ29: revised pilin
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234 S28N1236	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier		100% 100% 100% 100%	40 28-E 45 28-E 50 13-A 70 03-C 25 03-C 45 15-C	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dec-12 A 26-Nov-12 A Dect-12 A 11-Oct-12 A	Gas Main Diversion Gas Main Diversion Piling (16shp) Cap and Pier (ind. VO29: revised pilin Pile Cap
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234 S28N1236 S28N1238 South Abut	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier         rment		100% 100% 100% 100% 100%	40 28-0 45 28-0 50 13-A 70 03-0 25 03-0 45 15-0 24 28-0	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A Dct-12 A 11-Oct-12 A Dct-12 A 26-Nov-12 A	□ Backfilling to South Ramp □ Gas Main Diversion □ Piling (16shp) □ Cap and Pier (ind. VO29: revised pilin 1 Pile Cap □ Pier □ Gas Main Diversion
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234 S28N1236 S28N1238 South Abut S28N1220 S28N1230	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier         comment         Gas Main Diversion         Piling Work (24shp)		100% 100% 100% 100% 100%	40 28-E 45 28-E 50 13-A 70 03-C 25 03-C 45 15-C 24 28-E 60 15-F	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A Dct-12 A 11-Oct-12 A Dct-12 A 26-Nov-12 A Dec-11 A 30-Jan-12 A Dec-11 A 30-Jan-12 A	Gas Main Diversion Gas Main Diversion Gas Main Diversion Gas Main Diversion Gas Main Diversion Pile Cap Pier
S28N1227 Pier NLKP1 S28N1200 S28N1232 S28N1234 S28N1236 S28N1238 South Abut S28N1220	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier         Imment         Gas Main Diversion		100% 100% 100% 100% 100% 100% 100% 100%	40 28-0 45 28-0 50 13-A 70 03-0 25 03-0 45 15-0 24 28-0 60 15-F 115 15-0	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A Dct-12 A 11-Oct-12 A Dct-12 A 26-Nov-12 A Dct-12 A 30-Jan-12 A	Gas Main Diversion Cap and Pier (incl. VO29: revised pilin Pile Cap Pier Gas Main Diversion Pier Cap and Abutment (incl. VO29; re
S28N1227           Pier NLKP1           S28N1200           S28N1232           S28N1234           S28N1236           S28N1238           S00th Abut           S28N1220           S28N1230           S28N1230           S28N1230           S28N1230           S28N1240           S28N1250	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier         Gas Main Diversion         Piling Work (24shp)         Cap and Abutment (incl. VO29: revised piling details)         Pile Cap		100% 100% 100% 100% 100% 100% 100% 100%	40 28-0 45 28-0 50 13-A 70 03-0 25 03-0 25 15-0 45 15-0 24 28-0 50 15-6 115 15-0 40 15-0	Dec-12 A         25-Jan-13 A           Dec-11 A         28-Jan-12 A           Dec-11 A         28-Jan-12 A           Dec-12 A         25-Aug-12 A           Dec-12 A         26-Nov-12 A           Dec-12 A         26-Nov-12 A           Dec-12 A         26-Nov-12 A           Dec-12 A         30-Jan-12 A           Dec-11 A         30-Jan-12 A           Dec-11 A         28-Jul-12 A           Dec-11 A         20-Jan-13 A           Dect-12 A         25-Jan-13 A           Dect-12 A         10-Nov-12 A	Ga's Main Diversion Ga's Main Diversion Cap and Pier (in¢l. VQ29: revised pilin Pile Cap: Ga's Main Diversion Ga's Main Diversion Cap and Abutment (in cl. VO29; re Piling Work (24shp) Cap and Abutment (in cl. VO29; re Piling Work (24shp)
S28N1227           Pier NLK P1           S28N1200           S28N1232           S28N1234           S28N1236           S28N1238           S0uth Abutt           S28N1220           S28N1234	Gas Main Diversion         Piling (16sh p)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier <b>Ement</b> Gas Main Diversion         Piling Work (24sh p)         Cap and Abutment (incl. VO29: revised piling details)		100% 100% 100% 100% 100% 100% 100% 100%	40 28-0 45 28-0 50 13-A 70 03-0 25 03-0 45 15-0 24 28-0 60 15-F 115 15-0 40 15-0 50 12-N	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A Dct-12 A 11-Oct-12 A Dct-12 A 26-Nov-12 A Dec-11 A 30-Jan-12 A Dec-11 A 30-Jan-12 A Dec-12 A 28-Jul-12 A Dct-12 A 25-Jan-13 A	Gas Main Diversion Cap and Pier (incl. VO29: revised pilin Pile Cap Pier Gas Main Diversion Pier Cap and Abutment (incl. VO29; re
S28N1227           Pier NLKP1           S28N1200           S28N1232           S28N1234           S28N1236           S28N1238           S0uth Abut           S28N1220           S28N1230           S28N1230           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier         Gas Main Diversion         Piling Work (24shp)         Cap and Abutment (incl. VO29: revised piling details)         Pile Cap         Backfilling to South Abutment		100% 100% 100% 100% 100% 100% 100% 100%	40 28-0 45 28-0 50 13-A 70 03-0 25 03-0 45 15-0 24 28-0 60 15-F 115 15-0 40 15-0 50 12-N	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A Dct-12 A 11-Oct-12 A Dct-12 A 26-Nov-12 A Dec-11 A 30-Jan-12 A Dec-11 A 30-Jan-12 A Dec-12 A 28-Jul-12 A Dct-12 A 25-Jan-13 A Dct-12 A 10-Nov-12 A	Ga's Main Diversion Ga's Main Diversion Cap and Pier (ind. VQ29: revised pilin Piling (16shp) Cap and Pier (ind. VQ29: revised pilin Pile Cap Ga's Main Diversion Ga's Main Diversion Cap and Abutment (ind. VQ29: re Abutment (ind. VQ29: re
S28N1227           Pier NLKP1           S28N1200           S28N1232           S28N1234           S28N1236           S28N1238           S00th Abut           S28N1220           S28N1238           S00th Abut           S28N1230           S28N1230           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220           S28N1220	Gas Main Diversion         Piling (16shp)         Cap and Pier (incl. VO29: revised piling details)         Pile Cap         Pier         Gas Main Diversion         Piling Work (24shp)         Cap and Abutment (incl. VO29: revised piling details)         Pile Cap         Backfilling to South Abutment		100% 100% 100% 100% 100% 100% 100% 100%	40 28-0 45 28-0 50 13-A 70 03-0 25 03-0 45 15-0 24 28-0 60 15-F 115 15-0 40 15-0 50 12-N 40 28-0	Dec-12 A 25-Jan-13 A Dec-11 A 28-Jan-12 A Apr-12 A 25-Aug-12 A Dct-12 A 26-Nov-12 A Dct-12 A 11-Oct-12 A Dct-12 A 26-Nov-12 A Dec-11 A 30-Jan-12 A Dec-11 A 30-Jan-12 A Dec-12 A 28-Jul-12 A Dct-12 A 25-Jan-13 A Dct-12 A 10-Nov-12 A	Ga's Main Diversion Ga's Main Diversion Cap and Pier (ind. VQ29: revised pilin Piling (16shp) Cap and Pier (ind. VQ29: revised pilin Pile Cap Ga's Main Diversion Ga's Main Diversion Cap and Abutment (ind. VQ29: re Abutment (ind. VQ29: re

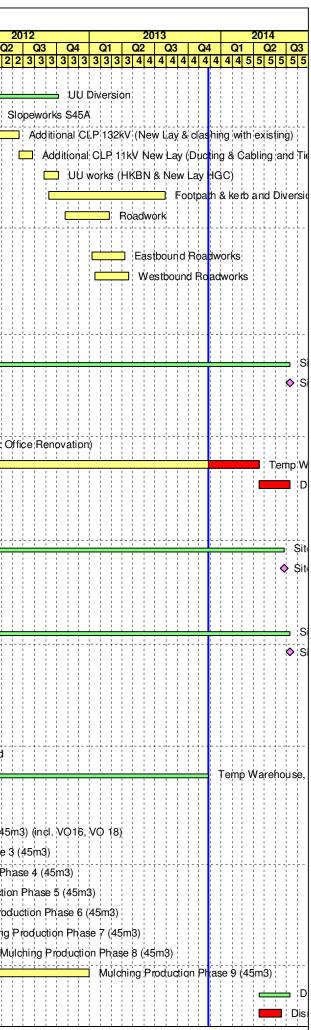
ivity ID	Activity Name	Total Activi Float Comp	y% Original Sector	Start	Finish	2010 2011 2012 2013 20 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
S28N1261	Pier Construction			11-Feb-11 A	18- Jul-11 A	1         2         3
Pier NLKP3			50 /8 50			
S28N1271	Pre-drilling for Piles	1(	00% 11 1	11-Sep-10 A	24-Sen-10 A	Pre-drilling for Piles
S28N1272	Confirmation of Founding Level			12-Sep-10 A	· .	Confirmation of Founding Level
S28N1272	Piling Work (24shp)			20-Sep-10 A		Piling Work (24shp)
S28N1274	Temporary Shoring System			17-Nov-10 A		Temporary Shoring System
S28N1275	Excavation to Formation Level			06-Dec-10 A		Excavation to Formation Level
S28N1276	Pile Head Trimming and bearing plate			20-Dec-10 A		Pile Head Trimming and bearing plate
S28N1270	Pile Cap Construction (incl. VO29: revised piling details)			20-Dec-10 A		Pile Cap Construction (in cl. VQ29: revised piling details)
S28N1277	Backfilling			26-Feb-11 A		Backfilling
S28N1278	Pier Construction				•	Pier Construction
			00% 61 0	02-Apr-11 A	TT-JUN-TTA	
			100		01 10 10 4	
S28N1281	Gas main Diversion			13-May-10 A		Ga's main Diversion
S28N1282	Pre-drilling for Piles			01-Aug-10 A		Pre-drilling for Piles
S28N1283	Confirmation of Founding Level			16-Aug-10 A		Confirmation of Founding Level
S28N1284	Piling Work (16shp)			01-Sep-10 A	•	Piling Wark (16shp)
S28N1285	Temporary Shoring System			20-Oct-10 A		I' Temporary Shoring System
S28N1286	Excavation to Formation Level			25-Oct-10 A		Excavation to Formation Level
S28N1287	Pile Head Trimming and bearing plate			29-Oct-10 A		Pile Head Trimming and bearing plate
S28N1288	Pile Cap Construction (incl. VO29: revised piling details)			08-Nov-10 A		Pile Cap Construction (incl. VO29; revised piling details)
S28N1289	Backfilling	10		20-Dec-10 A		Backfilling
S28N1290	Pier Construction	10	00% 71 0	02-Feb-11 A	26-Mar-11 A	Pier Construction
Pier NLKP5						
S28N1301	Gas main Diversion	10		13-May-10 A		Gas main Diversion
S28N1302	Pre-drilling for Piles	10		01-Sep-10 A	•	D Pre-drilling for Piles
S28N1303	Confirmation of Founding Level	10	00% 14 1	13-Sep-10 A	25-Sep-10 A	Confirmation of Founding Level
S28N1304	Piling Work (16shp) (incl. VO001: Revised Layout of Piles at New Lam Kam Road	10	00% 62 2	26-Sep-10 A	19-Oct-10 A	Piling Work (16shp) (incl. VO001: Revised Layout of Piles at New Lam Kam Road Flyover Pier N
S28N1305	Temporary Shoring System	1(	00% 44 2	20-Oct-10 A	05-Nov-10 A	🗖 . Temporary Shoring System
S28N1306	Excavation to Formation Level	10	00% 7 0	08-Nov-10 A	12-Nov-10 A	I Excavation to Formation Level
S28N1307	Pile Head Trimming and bearing plate	10	00% 14 1	15-Nov-10 A	27-Nov-10 A	D. Pile Head Trimming and bearing plate
S28N1308	Pile Cap Construction (incl. VO29: revised piling details)	10	00% 21 2	29-Nov-10 A	11-Dec-10 A	Pile Cap Construction (incl. VO29; revised piling details)
S28N1309	Backfilling	1(	00% 30 1	13-Dec-10 A	18-Dec-10 A	I Backfilling
S28N1310	Pier Construction	1(	00% 74 2	28-Dec-10 A	28-Mar-11 A	Pier Construction
Pier NLKP6	5					
S28N1321	Gas main Diversion	1(	00% 150 1	13-May-10 A	10-Nov-10 A	Gas main Diversion
S28N1322	Pre-drilling for Piles	1(	00% 14 2	21-Jul-10 A	23-Feb-11 A	Pre-drilling for Piles
S28N1323	Confirmation of Founding Level	10	00% 14 2	21-Jul-10 A	25-Feb-11 A	Confirmation of Founding Level
S28N1324	Piling Work (23shp)	10	00% 75 2	28-Feb-11 A	28-Mar-11 A	— Piling Work (23shp)
S28N1325	Temporary Shoring System	10	00% 44 2	26-May-11 A	18-Jul-11 A	Temporary Shoring System
S28N1326	Excavation to Formation Level	10	00% 7 0	)5-May-11 A	23-Jun-11 A	Excavation to Formation Level
S28N1327	Pile Head Trimming and bearing plate	10	00% 14 2	29-Jun-11 A	05-Jul-11 A	Pile Head Trimming and bearing;plate
S28N1328	Pile Cap Construction (incl. VO29: revised piling details)	10	00% 23 2	28-Jul-11 A	24-Aug-11 A	Pile Cap Construction (incl. VO29: revised piling details)
S28N1329	Backfilling	10		26-Sep-11 A		Backfilling
S28N1330	Pier Construction			28-Sep-11 A		Pier Construction
Pier NLKP7				·		
S28N1341	Realignment of Existing slip road	10	00% 45 1	19-May-10 A	13-Jul-10 A	Realignment of Existing slip road
S28N1342	Existing Water main Diversion			14-Jul-10 A		Existing Water main Diversion
JEGITIOTE	Pre-drilling for Piles				18-Sep-10 A	Pre-drilling for Piles

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         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         Q4         Q1         Q3         Q4         Q1         Q4         Q1         Q3         Q4         Q4         Q4         Q4         Q4         Q4         Q4         Q4         Q4<
S28N1344	Confirmation of Founding Level		100%	14	13-Sep-10 A	25-Sep-10 A	D: Confirmation of Founding Level
S28N1345	Piling Work (16shp)		100%	62	26-Jan-11 A	28-Feb-11 A	Diling Work (16shp)
S28N1346	Temporary Shoring System		100%	44	08-Mar-11 A	16-Apr-11 A	Temporary Shoʻring System
S28N1347	Excavation to Formation Level		100%	7	08-Mar-11 A	16-Apr-11 A	Excavation to Formation Level
S28N1348	Pile Head Trimming and bearing plate		100%	14	27-Apr-11 A	17-May-11 A	D Pile Head Trimming and bearing plate
S28N1349	Pile Cap Construction (incl. VO29: revised piling details)		100%	21	19-May-11 A	31-May-11 A	Pile Cap Construction (incl. VO29: revised piling details)
S28N1350	Backfilling		100%	30	26-Sep-11 A	01-Nov-11 A	🖾 Backfilling
S28N1351	Pier Construction		100%	72	03-Oct-11 A	24-Dec-11 A	Pier Construction
Pier NLKP8	3						
S28N1361	Realignment of Existing slip road		100%	45	19-May-10 A	13-Jul-10 A	Realignment of Existing slip road
S28N1363	Existing Water main Diversion		100%		14-Jul-10 A		Existing Water main Diversion
S28N1364	Pre-drilling for Piles		100%	18	04-Sep-10 A	25-Sep-10 A	Pre-drilling for Piles
S28N1365	Confirmation of Founding Level		100%	14	27-Sep-10 A	13-Oct-10 A	Confirmation of Founding Level
S28N1366	Piling Work (24shp)		100%	75	14-Jan-11 A	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	22-Oct-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%	24	26-Oct-11 A	02-Nov-11 A	Pile Cap Construction (Ind. VO29: revised piling details
S28N1371	Backfilling		100%	24	26-Nov-11 A	23-Dec-11 A	🗖 Ba¢kfilling
S28N1372	Pier Construction		100%	72	21-Dec-11 A	31-Jan-12 A	Pier Construcțion
Pier NLKP9					]		
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-drillíng fór Piles
S28N1384	Confirmation of Founding Level		100%		21-Sep-10 A	· ·	Confirmation of Founding Level
S28N1385	COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DAN 202) and		100%		21-Sep-10 A		COD::Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DAN
	related UU works)			-			
S28N1386	Piling Work (24shp)		100%	75	22-Oct-11 A	19-Dec-11 A	Piling: Work (24shp)
S28N1387	Temporary Shoring System		100%		01-Feb-12 A		Temporary Shoring System
S28N1388	Excavation to Formation Level		100%		19-Apr-12 A		Excavation to Formation Level
S28N1389	Pile Head Trimming and bearing plate		100 %		27-Jun-12 A		Excavation of officiation Level     Pile Head Trimming and bearing plate
S28N1390	Pile Cap Construction (incl. VO29: revised piling details)		100%		12-Jul-12 A	-	Pile Cap Construction (incl. VO29: revised piling
S28N1391	Backfilling		100%		28-Jul-12 A		
S28N1392	Pier Construction		100%	40	15-Sep-12 A	18-Oct-12 A	Pier Construction
Pier NLKP1							
S28N1401	132 kv Cable Diversion		100%		26-Oct-11 A		132 kv Cable Diversion
S28N1402	Existing Water main Diversion		100%		23-Apr-12 A		Existing Water main Diversion
S28N1405	Piling Work (17shp)		100%		23-Jul-12 A	· ·	Piling Work (17shp)
S28N1409	Pile Cap construction (incl. VO29: revised piling details)		100%		03-Oct-12 A		Pile Cap construction (incl. VO29: revis
S28N1411	Pier Construction		100%	25	11-Dec-12 A	29-Dec-12 A	D Pier Construction
North Abut							
S28N1422	Existing Water Main Utilities Diversion		100%		09-Jul-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 (in¢l. VQ29: re
S28N1430	Abutment		100%	30	05-Jan-13 A	24-Jan-13 A	D Abutment
S28N1580	Backfilling		100%	20	20-May-13 A	31-May-13 A	🛛 Backfilling
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 Clashing

tivity ID	Activity Name	Total	Activity %	Original	Start	Finish		2010			11	201		201			2014
,		Float	Complete	Duration				Q2			Q3 Q4	Q1 Q2 2 2 2 2 2 2 2 2	Q3 Q4				Q2
S28N1435	Construction of North Ramp (incl. VO72: revised North & South Ramps Retaining		100%	148	06-Nov-12 A	08-May-13 A				<u>• • • • • • • • • • • • • • • • • • • </u>	<u>      = = = =   =   -   -   -   -   -   </u>			Cor			
S28N1436	Temporary Work for Excavation		100%	24	06-Nov-12 A	26-Jan-13 A								Temporary	Work for E	xcavation	n
S28N1437	Excavation		100%	22	22-Nov-12 A	06-Feb-13 A								Excavatior	1		
S28N1438	Base Slab		100%	14 ;	31-Dec-12 A	05-Mar-13 A			J I L _ L _ J		d l l dl l - 1 - l l d l - 1 - l l l l l - 1 - l l l l l			🛄 Base Sla	ιb		
S28N1439	Wing Wall		100%	48	01-Feb-13 A	08-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			Wir	g Wall		
S28N1449	Backfilling		100%	20	06-May-13 A	07-Jun-13 A								B	ackfilling		
Decking a	and Finishing																
S28N1440	Decking (Bearing, Drainage & MJ included) (incl. VO 40: NLK - Revised Drainage Arrangement for Bridge Deck)		100%	559	27-Jun-11 A	14-May-13 A								De	cking (Bea	ring, Drai	nage
S28N1450	NLK Deck; P4 - P5		100%	75	27-Jun-11 A	23-Sep-11 A			i		NLK	Deck; P4 - P5					
S28N1460	NLK Deck; P3 - P4		100%	75	26-Oct-11 A	27-Jan-12 A						NLK Deck;	P3 - P4				
S28N1470	NLK Deck; P2 - P3		100%	72	11-May-12 A	16-Aug-12 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		NLK Dec	; P2 - P3			
S28N1475	Falsework erection of deck: P1 - P2		100%	50	29-Sep-12 A	21-Dec-12 A					I         I			Falsework ere	ction of de	ck: P1 - P	2
S28N1480	NLK Deck; P1 - P2		100%	62	06-Nov-12 A	30-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					NLK Deck;	P1 - P2		
S28N1484	Falsework dismantling of deck: P1 - P2		100%	18	21-Mar-13 A	30-Apr-13 A								🗖 Fals	ework disn	na ntling d	of dec
S28N1485	Falsework erection of deck: South Abutment - P1		100%	25	10-Dec-12 A	30-Jan-13 A								Falsework	erection of	deck: So	uth A
S28N1490	NLK Deck; South Abutment - P1		100%	60	03-Jan-13 A	18-Mar-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			NLK De	ck; South	Abutmen	t - Pi
S28N1495	Falsework dismantling of deck: South Abutment - P1		100%	18	15-Apr-13 A	11-May-13 A			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     1     1     1     1     1     1		🗖 Fal	sework dis	mantling	ofde
S28N1500	NLK Deck; P5 - P6		100%	75	26-Nov-11 A	04-Jun-12 A			· · · · · · ·			1	ILK Deck; P5	P6			
S28N1510	NLK Deck; P6 - P7		100%	75	16-Jun-12 A	06-Oct-12 A			4     +  - 					) eck; P6 - P7			
S28N1520	NLK Deck; P7 - P8		100%	75	03-Sep-12 A	22-Dec-12 A								NLK Deck; P7			
S28N1524	Falsework dismantling of deck: P7 - P8		100%	26	07-Jan-13 A	01-Feb-13 A								Falsework	dismantling	of deck	: P7 -
S28N1525	Falsework erection of deck: P8 - P9		100%	18	29-Oct-12 A	29-Jan-13 A								Falsework	erection of	deck: P8	- P9
S28N1530	NLK Deck; P8 - P9		100%			29-Mar-13 A			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     1     1     1     1     1     1		1 1 1 1 1 1	eck; P8 - P		
S28N1534	Falsework dismantling of deck: P8 - P9		100%	26	23-Apr-13 A	20-Jul-13 A									Falsewo		htling
S28N1535	Falsework erection of deck: P9 - P10		100%		•	23-Jan-13 A			1 1		1 1			Falsework e			
S28N1540	NLK Deck: P9 - P10		100%			25-Apr-13 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1				Deck; P9		
S28N1544	Falsework dismantling of deck: P9 - P10	-46	98%		20-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					Falsewo	ork d
S28N1545	Falsework erection of deck: P10 - North Abutment		100%		,	21-Feb-13 A	_							E Falsewor	k erection r		: : :
S28N1550	NLK Deck: P10 - North Abutment		100%			14-May-13 A					4        -	+	- +!!- + - +!-		K Deck; Pl		 
S28N1554	Falsework dismantling of deck: P10 - North Abutment		100%			08-Jun-13 A	_								alsework d		: : :
S28N1570	Parapet (P3 - P6)		100 %		,	18-Apr-13 A									ojet (P3 - P		y oi
S28N1660	Parapet (SA - P3 & P6 - NA )		100 %			26-Jun-13 A			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     1     1     1     1     1     1			Parapet (S		P6 -
S28N1680	Noise Barriers, Surfacing and Road Lighting		100%			22-Aug-13 A			  		· · · · · · · · · · · · · · · · · · ·					Barriers,	: : :
S28N1690	Inspection Handover of NLK Bridge		100 %		-	24-Aug-13 A									l Inspe		
S28N1700	TTA Stage 9		100 %		24-Aug-13 A	_	_								♦ TTA S		uovu
S28N1710	Diversion for modifying kerb and laying asphalt paving road (N/B) reconstruction of 1 lane Stage 1	-40	80%		26-Aug-13 A											Diversi	on fo
S28N1715	Road Construction Works (N/B) C2/C3 interface	-40	40%	43	26-Aug-13 A	27-Dec-13			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							Road	l Con
S28N1720	Diversion for removing central barriers Stage 2	-40	45%		17-Sep-13 A											Div.	: : :
S28N1730	Diversion for modifying kerb and laying asphalt paving road (S/B) reconstruction of 1 lane Stage 3	-40	0%	25 2	23-Jan-14	25-Feb-14						$\begin{array}{cccccccccccccccccccccccccccccccccccc$					Diver
S28N1735	Road Construction Works (S/B) C2/C3 interface	-40	0%	25	23-Jan-14	25-Feb-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         1         1         1         1			I         I					Road
Ready Fo	r Pre-Handover Retaining Wall of Section 4																
HRW0040	Ready For Pre-Handover Retaining Wall W72B, W73 and W74	-18	0%	7	08-Feb-14	17-Feb-14			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							∎ R	leady
Section 5																	
Site Area	SA31																
PHSA3120	Possession of SA31 (Day0)		100%		26-Feb-10 A		Po										

ivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010		2011		2012			2013		2014
		Float	Complete	Duration		21 Q2 Q3 1 2 3 4 5 6 7 8	Q4 (	Q1 Q2 Q3	Q4	Q1 Q2 (	23 Q4	Q1	Q2 $Q3$		Q2
SA310000	Site Area SA31 Works Period (incl. VO42, VO52, VO59 & VO65)	208	99.43%	884 26-Feb-10 A	30-Nov-13										Area SA3
SA310010	Site Area SA31 Works Completion	208	0%	0	30-Nov-13									🔷 Site	Area SA3
South Bo	und														
Preliminari	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/T	TM/Access	Rd/Utility Dive	rsion (Incl.	Liason ar	d Coordinatio	n)	
Roadworks	s, Drainage & Utilities								1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Portion 3															
S31S5000	Portion 3 - New Footpath (CH0 to 175)		100%	165 11-Jun-11 A	15-Jan-13 A							Portio	n 3 - New Foc	tp <mark>a</mark> th (C⊦	10 to 17
S31S5010	Formation level of footpath		100%	45 04-Jan-12 A	28-Feb-12 A				<b>—</b>	Formation	level of foo	otpath			
S31S5020	Preparation for footpath & Cycle Track Diversion		100%	7 11-Jun-11 A	18-Jun-11 A			I Pre	paration for	footpath & Cyc	le Track Di	version			
S31S5025	Unchartted Towngas DN400 HP		100%	178 29-May-12 A	05-Jan-13 A							Uncha	tted Towngas	DN400 H	ΗP
S31S5030	Additional UU works (CLP 132kV & 11kv)		100%	17 10-Oct-12 A	16-Jan-13 A								onal UU works	s (CLP 13	2kV & 1
S31S5035	Roadworks		100%	215 07-Sep-12 A	16-Mar-13 A							F	oadworks		
S31S5040	Footpath Sub-base, kerb and concrete surface		100%	17 07-Sep-12 A	30-May-13 A								⊐ Footpath	i <mark>i</mark> i i	
S31S5050	CLP Overhead wooden Pole		100%	12 26-Dec-12 A	07-Jan-13 A								verhead wood	len Pole	
S31S5060	New cycle track formation level		100%	15 28-Nov-12 A	06-Apr-13 A								New cycle tra	: <u>:</u> : :	
S31S5070	New cycle track (Bitonminous Layer)		100%	10 29-Jan-13 A	25-Apr-13 A								New cycle tr	ack (Bitor	hminou
S31S5080	New Kerb		100%	7 07-Jan-13 A	23-Apr-13 A								New Kerb		
S31S5090	Public Lighting & TCSS Ductings (incl. VO 77 Provision of cable duct for power supply)		100%	7 06-Oct-12 A	23-Apr-13 A								Public Lighti	ng & T¢S	S Ducti
S31S5100	New public lightings poles		100%	15 17-Apr-13 A	20-Apr-13 A								New public li	ghtings p	oles
S31S5110	Reconstruction carriageway		100%	7 05-Mar-13 A	20-Apr-13 A								Reconstructi	on carriaç	jeway
S31S5120	Traffic Lights	166	0%	5 26-Nov-13	30-Nov-13									I Traff	fic Light
S31S5130	Roadworks (Other area not affected by towngas)		100%	60 21-May-12 A	16-Mar-13 A							F	oadworks (Ot	her area r	hot affe
S31S5132	Roadworks (Remaining area affected by towngas)		100%	19 26-Dec-12 A	15-Jan-13 A							Road	vorks (Remair	hing area	affected
Portion 1												1 1 1 1 1 1 1 1 1 1 1 1 1 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							P	ortion 1 - CH	0 to CH 5	0 (From
S31S4630	Site Clearance		100%	7 20-Jun-11 A	27-Jun-11 A			🛚 Site	e Cleararice						
S31S4640	Excavation road formation level		100%	50 28-Jun-11 A	25-Aug-11 A				Excavatio	n road formatio	on level				
S31S4648	Unchartted Towngas / CLP		100%	65 16-Jan-12 A	10-Aug-12 A						Unchartt	ed Towng	as / CLP		
S31S4650	Trial Pit for Towngas DN400 HP		100%	14 16-Jan-12 A	04-Feb-12 A					Trial Pit for					
S31S4660	Additional Towngas DN400 HP preparation and materials deliverary		100%	50 06-Feb-12 A	27-Apr-12 A					Add iti	onal Towng	as DN40	) HP preparat	ion and m	haterials
S31S4670	Additional Towngas DN400 HP laying works		100%	12 28-Apr-12 A	26-May-12 A					🗖 Ado	ditional Tow	ngas DN	100 HP laying	works	
S31S4675	Uncharted CLP 11kV Existing diversion (Ducting & Cabling, Tie - in and uncharted cables)		100%	65 30-Jul-12 A	10-Aug-12 A					Ĺ	] Uncharte	d CLP 11	kV Existing di	version ([	Jucting
S31S4678	UU diversion		100%	67 15-Dec-11 A	18-Dec-12 A							UU dive	sion	2 - 2 1 1 1 1 - 1 - 1 1 - 1 - 1 1 - 1 - 1 1 - 1 - 1	
S31S4679	Excavation for UU diversion		100%	20 15-Dec-11 A	10-Jan-12 A					Excavation fo	r UU divers	ion			
S31S4680	Additional CLP 11kV Existing Diversion (Ducting & Cabling, Tie-in and uncharted cables)		100%	10 25-Apr-12 A	10-Aug-12 A						Addition	al CLP 11	≺V Existing Di	version ([	Ducting
S31S4690	Additional CLP 132 kV (New Lay)		100%	17 02-Apr-12 A	18-Jun-12 A					A	dditional C	LP 132 kV	(New Lay)		
S31S4700	Additional CLP 132kV (Existing)		100%	22 11-Aug-12 A	16-Aug-12 A						Addition	al CLP 13	2kV (Existing)		
S31S4710	Additional UU work (HGC, HKBN, TGT & NWT)		100%	35 06-Aug-12 A	18-Dec-12 A				L - J I - L - L - L L L L L L L L L L			Addition	al UU work (H	IG <mark>C</mark> , HKB	N, TGT
S31S4720	Excavation and DN 600 FW & DN 300 SW		100%	68 28-Jun-11 A	09-Nov-12 A							xcavation	and DN 600 F	W & DN	300 SW
S31S4725	Roadwork		100%	0 15-Oct-12 A	29-Jul-13 A								Road	lwork	
S31S4730	Footpath & Kerb		100%	30 20-Dec-12 A	29-Jul-13 A							i i i i i i i i i i i i	Foot	oath & Ke	rb
S31S4740	Roadwork		100%	30 15-Oct-12 A	16-Mar-13 A							F	oadwork		
Portion 2				,								/		J I L _ L _ J 	
S31S4750	Portion 2 - CH 50 to 80 (From WSD Gate to Hong Lok Yuen)		100%	108 20-Jun-11 A								1 1 1 1		on 2 - CH	

vity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish	2010 2011 21 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2
S31S4760	Site clearance		100%	7 20-Jun-11 A	27-Jun-11 A	D. Site clearance
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-12 A	29-Jul-13 A	
S31S4810	Roadwork		100%	21 25-Oct-12 A	25-Feb-13 A	
Roadworks	, 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	SA41					
PHSA4110	Possession of SA41 (Day0)		100%	0 26-Feb-10 A		♦ Possession of SA41 (Day0)
SA410000	Site Area SA41 Works Period	-15	85.59%	1581 26-Feb-10 A	11-Jul-14	
SA410010	Site Area SA41 Works Completion	-15	0%	0	11-Jul-14	
Temporary	y Site Office					
S41G0000	Site Clearance / TTM		100%	60 26-Feb-10 A	12-May-10 A	Site Clearance / TTM
S41G9000	Construction of ER & Contractor's Office (incl. VO 24: Office Renovation)		100%	60 26-Feb-10 A	12-May-10 A	Construction of ER & Contractor's Office (in cl. VO 24: C
S41G9100	Temp Warehouse, Fabrication & Equip Yard	-16	90%	1419 13-May-10 A	16-Apr-14	
S41G9120	Dismantle of ER & Contractor's Office	-12	0%	68 16-Apr-14	11-Jul-14	
Site Area S	SA42 (Core Storage & Works Area)					
PHSA4210	Possession of SA42 (Day0)		100%	0 26-Feb-10 A		Possession of SA42 (Day0)
SA410040	Site Area SA42 Works Period	0	86.59%	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		Possession of SA43 (Day90)
SA410020	Site Area SA43 Works Period	-16	84.73%	1492 04-May-10 A	11-Jul-14	
SA410030	Site Area SA43 Works Completion	-16	0%	0	11-Jul-14*	
Mulching I	Production Area					
S41G010	Site Clearance		100%	59 27-May-10 A	05-Aug-10 A	Site Clearance
S41G020	Site Clearance (Mulching Office Area)		100%	45 27-May-10 A	20-Jul-10 A	Site Clearance: (Mulching Office Area)
S41G030	Site Clearance (Wood Storage Area)		100%	45 12-Jun-10 A	05-Aug-10 A	Site Cle ara hce (Wood Storage Area)
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	213	100%	1260 13-Sep-10 A	26-Nov-13	
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 Prøduction Phase 2 (45
S41G080	Mulching Production Phase 3 (45m3)		100%	63 20-Feb-11 A	24-Apr-11 A	Mulching Production Phase
S41G090	Mulching Production Phase 4 (45m3)		100%	63 24-Apr-11 A	26-Jun-11 A	Mulching Production Pt
S41G100	Mulching Production Phase 5 (45m3)		100%	63 27-Jun-11 A	28-Aug-11 A	Mulching Production
S41G110	Mulching Production Phase 6 (45m3)		100%	63 29-Aug-11 A	30-Oct-11 A	Mulching Proc
S41G120	Mulching Production Phase 7 (45m3)		100%	63 31-Oct-11 A	01-Jan-12 A	——————————————————————————————————————
S41G130	Mulching Production Phase 8 (45m3)		100%	63 02-Jan-12 A	31-Mar-12 A	—
S41G140	Mulching Production Phase 9 (45m3)		100%	63 02-Apr-12 A	31-Dec-12 A	
S41G260	Dismantle of Mulching Production Yard	-13	0%	68 16-Apr-14	11-Jul-14	
	-		0%	48 16-Apr-14	17-Jun-14	



ctivity ID	Activity Name	Total	Activity %	Original Start	Finish	
	Activity Name	Float	Complete	Duration	FILISI	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 Q
S41G280	Dismantle of Mulching Production Yard : Removing Security Fence and Security Device	-13	0%	20 17-Jun-14	11-Jul-14	
Section 9	Device					
Section 8	ment Works					
S21G8000	SA21 Establishment Works	-152	09/	365 26-Nov-13	25-Nov-14	
	SA21 Establishment Works	-152	0%	305 20-100-13	25-1100-14	
Section 9	mont Works					
	ment Works SA22 Establishment Works	150	00/	005 00 Nov 10	OF New 14	
S22G8000		-152	0%	365 26-Nov-13	25-Nov-14	
S23G8000	SA23 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
S24G8000	SA24 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
S25G8000	SA25 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
S26G8000	SA26 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
Section 10						
	ment Works					
S26AG800	SA26A Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
S27G8000	SA27 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
Section 11						
Establishr	ment Works					
S28G8000	SA28 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
S29G8000	SA29 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
Section 12						
Establishr	ment Works					
S30AG800	SA30A Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
S30G8000	SA30 Establishment Works	-152	0%	365 26-Nov-13	25-Nov-14	
Section 13						
	ment Works					
S30AG810	Remainder of Establishment Works (Exclude Section 8 to 12)	-152	0%	365 26-Nov-13	25-Nov-14	
Section 14		-152	078	303 20-100-13	23-1100-14	
	work Maintenance (Subject to the the Engineer's Instruc	tion)				
S21G7000	Tentative Start Date for SA21 Route Maintenance Works		100%	0 17-Sep-10 A	N	Tentative Start Date for \$A21 Route Maintenance Works
S22G7000	Tentative Start Date for SA22 Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tehtative Start Date for SA22 Route Maintenance Works
S23G7000	Tentative Start Date for SA23 Route Maintenance Works		100%	0 25-Aug-10 A		♦ Tentative Start Date for SA23 Route Maintenance Works
S24G7000	Tentative Start Date for SA24 Route Maintenance Works		100%	0 25-Aug-10 A		Tentative Start Date for SA24 Route Maintenance Works
S25G7000	Tentative Start Date for SA25 Route Maintenance Works		100%	0 20-Oct-10 A		♦ Tentative Start Date for SA25 Route Maintenance Works
S26AG700	Tentative Start Date for SA26A Route Maintenance Works		100%	0 26-Feb-10 A		♦ Tentative Start/Date for SA26A Route Maintenance Works
S26G7000	Tentative Start Date for SA26 Route Maintenance Works	_	100%	0 26-Feb-10 A		♦ Tentative Start Date for SA26 Route Maintenance Works
S27G7000	Tentative Start Date for SA27 Route Maintenance Works		100%	0 27-May-10 A		♦ Tentative Start Date for SA27 Route Maintenance Works
S28G7000	Tentative Start Date for SA28 Route Maintenance Works	_	100 %	0 26-Feb-10 A		♦ Tentative Start Date for SA28 Route Maintenance Works
S29G7000	Tentative Start Date for SA29 Route Maintenance Works	_	100%	0 20-Oct-10 A		Tentative Start Date for SA29 Route Maintenance Works
S30AG700	Tentative Start Date for SA30A Route Maintenance Works		100 %	0 25-Aug-10 A		Tentative Start Date for SA30A Route Maintenance Works
S30G7000	Tentative Start Date for SA30 Route Maintenance Works		100 %	0 25-Aug-10 A		♦ Tentative Start Date for SA30 Route Maintenance Works
S31G7000	Tentative Start Date for SA31 Route Maintenance Works		100 %	0 26-Feb-10 A		♦ Tentative Start Date for SA31 Route Maintenance Works
			100%	U 20-Feb-10 A		
	(Subject to Excision and Instruct by Engineer within 81	9 uays)				
General						
	Validity Period		100%	819 25-Feb-10 A	. ∃31-Auα-13 A	Validity Period
SC150025 SC150030	Latest Date for the Engineer to Issue El		100%		31-Aug-13 A	◆ Latest Date for the

tivity ID	Activity Name	Total	Activity %	Original Start	Finish	2010 2011	2012 2013 2014
	Acuvity Name	Float	Complete	Duration	FILISI	Q1   Q2   Q3   Q4   Q1   Q2   Q3   Q4	Q1         Q2         Q3         Q4         Q1         Q2         Q3         Q4         Q1         Q2           [2]2]2]2]2]2]2]3]3]3]3]3]3]3]3]3]3]3]3]4]4]4]4
Site Area S	SA28 & SA30						
PHSA2840	Possession of SA28 & SA30		100%	0 26-Feb-10 A		♦ Possession of SA28 & SA30	
SA280005	Site Area SA28 Works Period		100%	0 24-May-12 A	31-Aug-13 A		i i i i i i i i i i i i i i i i i i i
SA280020	Site Area SA28 & SA30 Works Completion		100%	0	31-Aug-13 A		🔶 Site Aręa SA28 & S/
All Area			<u> </u>	, 			
Preliminari	ies						
S28N1000	Site Clearance/TTM/Access Rd/Utility Diversion		100%	45 24-May-12 A	26-Sep-13 A		Site Clearance/T
Site Area S	SA30A						
PHSA30A5	Possession of SA30A	Í	100%	0 27-Jul-10 A		Possessian of SA30A	
SA30A005	Site Area SA30A Works Period		100%	155 23-May-12 A	31-Aug-13 A		Site Aréa SA30A W
SA30A020	Site Area SA30A Works Completion		100%	0	31-Aug-13 A		♦ Site Area SA30A W
North Bou	·						
Preliminari							
	Site Clearance/TTM/Access Rd/Utility Diversion		100%	75 14-May-12 A	23-May-12 A	—	Site Clearance/TTM/Access Rd/Utility Diversion
	s, Drainage & Utilities		100,0		20		
S30AN415	Section 17 subject to Excision Works Instruction date (Trunk Sewer Line)		100%	245 23-May-12 A	20-Sep-13 A		Section 17 subject
S30AN420	Issung of latest design drawing		100%	75 24-May-12 A			( Issung of latest design drawing
S30AN430	Procurement & delivery of Trunk Sewer pipe (Stage 1)		100%	75 06-Sep-12 A			Procurement & delivery of Trunk Sewer pipe (
S30AN440	Design clarification period		100%	60 06-Sep-12 A	· · ·		Design clarification pe
S30AN450	Procurement & delivery of Trunk Sewer pipe (Stage 2)		100%	75 01-Nov-12 A			Procurement & delive
S30AN450	Underground Utilities cable detection before ELS works		100 %	60 17-Aug-12 A			Underground Utilities cable detection before EL
					-		
S30AN470	Gravity Sewer Line STS10_170 to 160 (22m Long)		100%	90 05-Dec-12 A			Gravity Sewer Line \$T\$10_170 to
S30AN480	M/H 170 and M/H160 construction (6m depth)		100%	75 05-Dec-12 A			M/H 170 and M/H160 construction (6
S30AN490	Pipe laying and concrete surround works		100%	60 05-Dec-12 A			Pipe laying and concrete surround wo
S30AN500	Backfilling (2 Layers + Temp fill)		100%	30 08-Jan-13 A			🔲 Backfilling (2 Layers + Temp fill)
S30AN510	Gravity Sewer Line STS10_160 to 150 (40m Long)		100%	95 27-Feb-13 A	· ·		Gr <mark>a</mark> vity Sewer Lin
S30AN520	M/H150 construction (5m depth)		100%	40 27-Feb-13 A			□ M/H150 construction (5m depth)
S30AN530	Pipe laying and concrete surround works (Stage 1)		100%	25 18-Mar-13 A			Pipe laying and concrete sun
S30AN540	Construction of Temporary Access for Villager		100%	8 30-Apr-13 A	,		Construction of Temporary F
S30AN550	Pipe Laying and concrete works (Stage 2)		100%	21 13-May-13 A			Pip <mark>e</mark> Laying and c
S30AN560	Backfilling (15 Layers)		100%	8 27-Jul-13 A	•		📛 Backfilling (15 La
S30AN570	Gravity Sewer Line STS10_120 to 130 (41m Long)		100%	120 17-Sep-12 A	03-Jan-13 A		Gravity Sewer Line STS10_120 to 130
S30AN580	M/H 120 and M/H130 construction (3.5m & 4m depth)		100%	70 24-Sep-12 A			□ M/H 120 and M/H130 construction (3.5m & 4
S30AN585	Pipe Laying & concrete surround works		100%	30 14-Nov-12 A	20-Nov-12 A		Pipe Laying & concrete surround works
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 Line STS10_130
S30AN610	M/H 140 construction (4.5m depth)		100%	40 08-Jan-13 A	19-Jan-13 A		D M/H 140 construction (4.5m depth)
S30AN620	Pipe Laying & concrete Surround works		100%	40 14-Jan-13 A	28-Jan-13 A		D. Pipe Laying & concrete Surround wr
S30AN630	Backfilling (12 Layers)		100%	25 01-Mar-13 A	18-Mar-13 A		Backfilling (12 Lavers)
S30AN640	Gravity Sewer Line STS10_140 to 150 (38m Long)		100%	80 28-Feb-13 A	18-May-13 A		Gravity Sewer Line STS10_
S30AN650	Pipe Laying and concrete surround works		100%	50 28-Feb-13 A	18-Mar-13 A		📮 Pipe Laying and concrete surrou
S30AN660	Backfilling (15 Layers)		100%	30 22-Mar-13 A	18-May-13 A		ឝ 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 STS10 120 to 110 (3
S30AN680	M/H 110 construction (2.7m depth)		100%	30 03-Aug-12 A	15-Sep-12 A		M/H 110 construction (2.7m depth)
S30AN690	Pipe laying and concrete surround works		100%	40 06-Oct-12 A	26-Oct-12 A		Pipe laying and concrete surround 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 Şewer Line \$TS 0_100 to 105a

tivity ID	Activity Name	Total	Activity %	Original Start	Finish		20	10			20	011			20	12			201	3		201	
		Float	Complete	Duration		21	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q	Q2
						12	2345	6 7 8	9 1 1	1 1 1	1 1 1	112	2 2 2 2	2 2 2 2 2	222	3 3 3	3 3 3	3 3 3	3 4 4	4 4 4 4	444	4 4 5 5 /	55
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 1	00, M/ I	H 105 and	ld M
S30AN730	Pipe Laying and concrete surround works		100%	50 17-Sep-12 A	06-Oct-12 A												Pipe	Laying	and co	ncretes	urrou'n	nd works	
S30AN740	Construction of temporary access for Villager		100%	30 08-Oct-12 A	22-Oct-12 A			1 1 1 1 1 1 1 1 1									Con	structio	on of te	mporary	acces	s for Villa	ager
S30AN750	Backfilling (5 Layers)		100%	25 24-Oct-12 A	15-Dec-12 A													Backfil	ling (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														¢	📥 Gra	wit <mark>y</mark> Se	ewer Line	∍ \$T
S30AN770	Modification of existing DN2200 valve chamber		100%	1 09-Sep-13 A	17-Sep-13 A							iii		· +						0	Modific	ation of e	exis
S30AN780	Pipe Laying and concrete surround works (2.5m depth)		100%	26 24-Jun-13 A	05-Aug-13 A															🗖 Pipe	e Layin	g and cor	ncr
S30AN790	Backfilling (7 Layers)		100%	7 06-Aug-13 A	13-Aug-13 A															Bac	kfillina	7 Laver	rs)

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 <sup>3</sup> 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		
	<ul> <li>Inspection and testing of water quality in the nullah on the Tai Po River.</li> </ul>		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.		@
	• 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.		@
	• 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.		@
	• During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.		V
	• Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.	]	V
	• Fuels should be stored in bunded areas such that spillage can be easily collected.		V

Water Quality - Schedule of Recommended Mitigation Measures

Waste - Schedule of Recommended Mitigation Measures

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

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/A
Construction Wastes	
<ul> <li>Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).</li> </ul>	V
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/A
• Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.	N/A
Chemical Wastes	
Storage within locked, covered and bunded area.	V
The storage area shall not be located adjacent to sensitive receivers e.g. drains.	V
Minimize waste production and recycle oils/solvents where possible.	V
A spill response procedure shall be in place and absorption material available for minor spillages.	@
Use appropriate and labelled containers.	V
Educate site workers on site cleanliness/waste management procedures.	V
• 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.	V

#### Ecology - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology	Accurate Delineation of Works Area	During	
during Construction	<ul> <li>Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.</li> </ul>	construction	V
	<ul> <li>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.</li> </ul>		V
	Vegetation Clearance		
	<ul> <li>No fires shall be lit within the works area for the purpose of burning cleared vegetation.</li> </ul>		V
	• The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area /		V

adjacent land.	
Dust generation	
<ul> <li>Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;</li> </ul>	V
<ul> <li>All temporary site access roads shall be sprayed with water to suppress dust as necessary;</li> </ul>	V
<ul> <li>All dusty materials should be sprayed with water immediately prior to any handling; and</li> </ul>	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
<ul> <li>Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;</li> </ul>	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	<ul> <li>Trees identified for retention within the project limit would be protected during the works</li> </ul>	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		
	<ul> <li>Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.</li> </ul>		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 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
NM3		65/70 dB(A)*
NM4		75 dB(A)
NM5		75 dB(A)
NM6		70 dB(A)*
NM7		75 dB(A)

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

APPENDIX E CALIBRATION CERTIFICATES OF MONITORING EQUIPMENTS

Station	Sheung Wun Yiu	(AM1A)	Operator	Gary Choi	
Cal. Date: Equipment No.:	16-Nov-13		Next Due Date	16-Jan-14	
	: A-001-53T		Serial No	10216	
			Ambient Condition		
Temperat	ure, Ta (K)	297.4	Pressure, Pa (mmHg)	763.4	

Orifice Transfer Standard Information						
Serial No:	843	Slope, mc	1.99238	Intercept, bc	-0.00351	
Last Calibration Date: 6-Dec-12 mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>						
Next Calibration Date: 6-Dec-13 Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc						

		Calibration of	of TSP Sampler		
		Orfice		HVS	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	8.8	2.98	1.50	46.0	46.15
13	6.2	2.50	1.26	38.0	38.12
10	4.4	2.10	1.06	32.0	32.10
7	3.5	1.88	0.94	27.0	27.09
5	2.3	1.52	0.77	20.0	20.06
*If Correlation Coe		0.9959 check and recalibrate.	-		
		Set Point	Calculation		
From the TSP Fi	eld Calibration Cur	ve, take Qstd = 1.30m <sup>3</sup> /min			
From the Regres	sion Equation, the	"Y" value according to			
		mw x Qstd + bw = IC	x [(Pa/760) x (298/	Га)] <sup>1/2</sup>	
Therefore, Set P	oint; IC = ( mw x C	estd + bw ) x [( 760 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		39.53
		A	2		
Remarks:					

E:\AM

Station	Shan Tong New Village (AM2)		Operator:	Choi Wing Ho	_
Cal. Date:	22-Oct-13		Next Due Date:	22-Dec-13	_
Equipment No.:	A-001-29T		Serial No.	10202	-
			Ambient Condition		
Temperat	ure, Ta (K)	297.8	Pressure, Pa (mmHg)	760.0	

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)] <sup>1/2</sup>				
Next Calibration Date: 20-May-14 Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc						

			f TSP Sampler		and the second sec
		Orfice		HVS	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	8.8	2.97	1.51	46.0	46.02
13	6.7	2.59	1.32	39.0	39.01
10	5.3	2.30	1.17	35.0	35.01
7	3.7	1.92	0.98	28.0	28.01
5	2.6	1.61	0.82	22.0	22.01
Slope , mw = Correlation Coe		0.9980 check and recalibrate.	Intercept, bw =	-5.4	880
Slope , mw = Correlation Coe	34.0930 fficient* =	heck and recalibrate.	_	-5.4	880
Slope , mw = Correlation Coe *If Correlation Co	34.0930 •fficient* = 	check and recalibrate. Set Point	Intercept, bw =	-5.4	880
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	34.0930 fficient* = pefficient < 0.990, of eld Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min	_	-5.4	880
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	34.0930 fficient* = pefficient < 0.990, of eld Calibration Cur	check and recalibrate. Set Point	_	-5.4	880
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	34.0930 fficient* = pefficient < 0.990, of eld Calibration Cur	theck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min "Y" value according to	Calculation		
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres	34.0930 fficient* = pefficient < 0.990, of reld Calibration Cur assion Equation, the	theck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min "Y" value according to mw x Qstd + bw = IC	Calculation x [(Pa/760) x (298/		
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi From the Regres	34.0930 fficient* = pefficient < 0.990, of reld Calibration Cur assion Equation, the	theck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min "Y" value according to	Calculation x [(Pa/760) x (298/		38.82

Mike QC Reviewer: K. M. SHEK Signature: \_

Station	Shan Tong New	Village (AM2)		Operator:	Choi W	ing Ho	
Cal. Date:	22-Dec-13			Next Due Date:	22-Fe	b-14	_
Equipment No.:	A-001-29T	-		Serial No.	102	02	_
55 A.P.							
			Ambient	Condition			
Temperatu	ure, Ta (K)	289	Pressure, I	Pa (mmHg)		756.9	
			and the second se	tandard Informatio	n Interce	nt bo	0.02332
Seria		988	Slope, mc	1.94727		and the second se	0.02002
	ation Date:	20-May-13			= [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc		
Next Calibr	ration Date:	20-May-14			allou) x (29011a)]	-bc}/ mc	
			Calibration	of TSP Sampler		The second second	
		0	rfice		HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water		60) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flo Reading IC (CF	
18	9.0		3.04	1.55	47.0	47.6	3
13	6.5		2.58		40.0	40.5	4
10	5.3		2.33		35.0	35.4	7
7	3.6		1.92	0.98	29.0	29.3	9
5	2.6		1.63	0.83	22.0	22.2	9
Slope , mw = Correlation Co	ession of Y on X 34.4706 efficient* = coefficient < 0.990	0.9	9935	Intercept, bw =	-5.2	2867	_
nt Correlation C	oemcient < 0.990	, CHECK and recain	Jiale.				
			Set Point	Calculation			
From the TSP F	ield Calibration C	urve, take Qstd =					
	ssion Equation, th						
	9984-9994-99999-9999-9999-99999-99999-9999-999-999-999-999-999-999-999-999-999-999-999-999-999-999-999-999-999						
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>		
		Oatal they by I/ 7	CO / Do ) y / To / 2	08 11/2-		39.00	
Therefore, Set I	Point; IC = ( mw x	$Qsta + bw) \times [(7)$	60 / Pa ) x ( Ta / 2	90)] -			-
						1	
Remarks:							

QC Reviewer: 47 Jan

Signature:

Date: 23-12-13

Station	Riverain Bayside	AM3) Operator: Choi Wing Ho					
Cal. Date:	22-Oct-13	10 10		Next Due Date:	22-De	ec-13	
Equipment No.:	A-001-69T		Serial No. 716				
			Ambient	Condition			
Temperat	ure, Ta (K)	297.8	Pressure, F	Pa (mmHg)		760.0	
		C	Drifice Transfer S	tandard Informatio	on		
Seria	al No:	988	Slope, mc 1.94727 Intercept, bc				0.02332
Last Calibi	ration Date:	20-May-13	-13 mc x Qstd + bc = [DH x (Pa/760) x (298/T				
Next Calib	ration Date:	20-May-14		Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc			
			Calibration of	of TSP Sampler			
		0	rfice		HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFN	

Plate No. DH (orifice), in. of water [DH x (Pa/760)		[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	9.0	3.00	1.53	48.0	48.02
13	7.4	2.72	1.39	42.0	42.01
10	5.6	2.37	1.20	35.0	35.01
7	4.0	2.00	1.02	26.0	26.01
5	3.0	1.73	0.88	21.0	21.01
Slope , mw = Correlation Coe		0.9986 heck and recalibrate.	Intercept, bw =	-15.	9768
		ve, take Qstd = 1.30m <sup>3</sup> /min	Calculation		
From the Regres	sion Equation, the	"Y" value according to			
Therefore, Cot D	icinti IC = ( mu x O	<b>mw x Qstd + bw = IC</b> std + bw ) x [( 760 / Pa ) x ( Ta / 29		Ta)] <sup>1/2</sup>	38.49
Therefore, Set P		Siu + Dw ) X [( 1007 Fa ) X ( 1a / 23	50 <u>]]</u> =		
Remarks:					

Hike

Signature: \_\_\_\_

QC Reviewer: K. H. SHEK

E:\60102979 - Tolo Hig

Date: 13. 001. 15

Station	Riverain Bayside	e (AM3)		Operator:	Choi W	/ing Ho		
al. Date:	22-Dec-13			Next Due Date:	22-Fe	eb-14		
quipment No.:	A-001-69T	_		Serial No.	7	16	-	
			Ambient	t Condition				
Temperat	ture, Ta (K)	289	Pressure,	Pa (mmHg)		756.9		
				tandard Informatio				
Seri	al No:	988			Interce	ercept, bc 0.0		
Last Calib	ration Date:	20-May-13	20-May-13		mc x Qstd + bc = $[DH x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calib	ration Date:	20-May-14	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc		<sup>1/2</sup> -bc} / mc			
		•	Oalibeation	TOD Complet				
				of TSP Sampler			12241153	
1022270 VG 107840		0	rfice		HVS	S Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFI		
18	8.8		3.01	1.53	47.0	47.63		
13	7.3		2.74	1.39	43.0	43.58		
10	5.6		2.40	1.22	35.0	35.47	2	
7	3.9		2.00	1.02	26.0	26.35		
5	2.9		1.73	0.87	22.0	22.29		

By Linear Regres	ssion of Y on X				
Slope , mw =	40.2648		Intercept, bw =	-13.5403	
Correlation Coef	ficient* =	0.9943			
*If Correlation Co	efficient < 0.990, chec	k and recalibrate.			
and the second second second second second second second second second second second second second second second		Set	Point Calculation		
From the TSP Fie	ld Calibration Curve, t	ake Qstd = 1.30m <sup>3</sup> /min			
From the Regress	sion Equation, the "Y"	value according to			
		mw x Qstd + bw	r = IC x [(Pa/760) x (298/Ta)] <sup>1/2</sup>		
Therefore, Set Po	int; IC = ( mw x Qstd -	- bw ) x [( 760 / Pa ) x ( 1	a / 298 )] <sup>1/2</sup> =	38.29	

Remarks:		
QC Reviewer: YT Leung	Signature:	Date: D:\HVS Calibration Certificate (Existing)

Station	168 Shek Kwu Lung Village (AM4A)	Operator:	Gary Choi	
Cal. Date:	16-Nov-13	Next Due Date:	16-Jan-14	-
Equipment No.:	A-001-70T	Serial No.	10273	
		mbient Condition		

		Orifice Transfer St	andard Information		and the second second
Serial No:	843	Slope, mc	1.99238	Intercept, bc	-0.00351
Last Calibration Date:	6-Dec-12			DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	
Next Calibration Date:	6-Dec-13		Qstd = {[DH x (Pa/)	760) x (298/Ta)] <sup>1/2</sup> -bc} / mc	

Pressure, Pa (mmHg)

297.4

Temperature, Ta (K)

763.4

	The second second	Calibration of	of TSP Sampler		
		Orfice		HV	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	8.9	2.99	1.50	47.0	47.15
13	7.5	2.75	1.38	42.0	42.14
10	5.1	2.27	1.14	34.0	34.11
7	3.5	1.88	0.94	28.0	28.09
5	2.4	1.55	0.78	22.0	22.07
Slope , mw = Correlation Coe		0.9986	Intercept, bw =	-4.4	.274
*If Correlation Co	pefficient < 0.990, c	check and recalibrate.			
			Calculation		
		ve, take Qstd = 1.30m <sup>3</sup> /min			
From the Regres	ssion Equation, the	"Y" value according to			
		mw x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	
Therefore, Set P	Point; IC = ( mw x G	estd + bw ) x [( 760 / Pa ) x ( Ta / 2	98 )] <sup>1/2</sup> =		39.69
		2			
Remarks:	19 <u></u>				
QC Reviewer: _	K. H. SHEK	Signature:	Mike		Date: 18 · 101 - 13



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

#### EQUIPMENT CALIBRATION RECORD

Laser Dust Monitor
SIBATA
LD-3
A.005.07a
557 CPM

Operator:

Mike Shek (MSKM)

#### Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM <sup>®</sup>			
Venue:	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 1400AB				
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	Ko:	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	CPN
557	CPM

Hour	Date (dd-mm-yy)	Tim	е		dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					Temp 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)

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9978	

Validity of Calibration Record:

17 May 2014

#### Remarks:

QC Reviewer:	YW Fung	Signature:	4/	Date:	_20 May 2013

#### EQUIPMENT CALIBRATION RECORD

Laser Dust Monitor
SIBATA
LD-3
A.005.08a
702 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	Ko:	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):

702	CPM
702	CPM

Hour	Date (dd-mm-yy)	_	Time		Amb Cond		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					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

#### EQUIPMENT CALIBRATION RECORD

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

Operator:

Mike Shek (MSKM)

#### Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM <sup>®</sup>			
Venue:	Cyberport (Pui Ying Secondary School)			
Model No.: Series 1400AB				
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	K <sub>o</sub> :	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		dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup> X-axis
			Temp (°C)	R.H. (%)	Y-axis		
1	18-05-13	12:30 - 13:30	28.1	78	0.04714	1885	31.42
2	18-05-13	13:30 - 14:30	28.1	78	0.04932	1965	32.75
3	18-05-13	14:30 - 15:30	28.2	77	0.05156	2059	34.32
4	18-05-13	15:30 - 16:30	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	(Pui Ying Secondary Sch	ool)	
Model No.:	Series 140			
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	Ko:	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):

753	CPM
753	CPM

Hour	Date (dd-mm-yy)	Time	Ambi Condi		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
			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 Sch	ool)	
Model No.:	Series 140	DOAB		
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	K <sub>o</sub> :	12500
Last Calibration Date*:	18 May 20	013	- 22	

\*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)	Time	Ambient Condition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
			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	(Pui Ying Secondary Sch	ool)		
Model No.:	Series 140	OAB			
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	K <sub>o</sub> :	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):

643	CPM
643	CPM

Hour	Date (dd-mm-yy)		Time	9		bient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
		×			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	
Correlation coefficient:	0.9986	
Validity of Calibration Record:	17 May 2014	

Remarks:	5 s	G-100-100-0			
			1		
QC Reviewer:	YW Fung	Signature:	<u> </u>	Date:	20 May 2013

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.14a
Sensitivity Adjustment Scale Setting:	786 CPM

Operator:

Mike Shek (MSKM)

### Standard Equipment

Equipment:	Rupprech	& Patashnick TEOM®		
Venue:	Cyberport	(Pui Ying Secondary Sch	ool)	
Model No.:	Series 140			
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	Ko:	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):

786	CPM
786	CPM

Hour	Date (dd-mm-yy)			Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>			
				Temp (°C)	R.H. (%)	Y-axis		X-axis	
1	18-05-13	12:15 -	13:15	28.1	78	0.04685	2005	33.42	
2	18-05-13	13:15 -	14:15	28.1	78	0.04941	2121	35.35	
3	18-05-13	14:15 -	15:15	28.2	77	0.05127	2194	36.57	
4	18-05-13	15:15 -	16:15	28.1	78	0.05060	2167	36.12	

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):	0.0014	
Correlation coefficient:	0.9987	
Validity of Calibration Record:	17 May 2014	

Validity of Calibration Record:

	 /	 

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 & Patashnick TEOM <sup>®</sup>					
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	DOAB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	K <sub>o</sub> :	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):

521	CPM
521	CPM

Hour	Date (dd-mm-yy)	-	Time		Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					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					
Description:	Acoustical Calibrat	tor (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:	-	28			
Request No.:	12	×			
Date of receipt:	07-Nov-2013				
Date of test:	08-Nov-2013				
		ration			
Date of test: Reference equipment Description:		ration Serial No.	Expiry Date:	Traceab	le to:
Reference equipment Description: Lab standard microphone	used in the calib Model: B&K 4180	Serial No. 2341427	17-Apr-2014	SCL	
Reference equipment Description: Lab standard microphone Preamplifier	used in the calib Model:	Serial No.	17-Apr-2014 16-Apr-2014	SCL CEPREI	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier	used in the calib Model: B&K 4180 B&K 2673 B&K 2610	<b>Serial No.</b> 2341427 2239857 2346941	17-Apr-2014 16-Apr-2014 24-Apr-2014	SCL CEPREI CEPREI	
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	<b>Serial No.</b> 2341427 2239857 2346941 61227	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014	SCL CEPREI CEPREI CEPREI	
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	SCL CEPREI CEPREI CEPREI CEPREI	
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	SCL CEPREI CEPREI CEPREI CEPREI CEPREI	
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	Serial No. 2341427 2239857 2346941 61227 US36087050	17-Apr-2014 16-Apr-2014 24-Apr-2014 15-Apr-2014 10-Dec-2013	SCL CEPREI CEPREI CEPREI CEPREI	
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	SCL CEPREI CEPREI CEPREI CEPREI CEPREI	
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 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	SCL CEPREI CEPREI CEPREI CEPREI CEPREI	
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	SCL CEPREI CEPREI CEPREI CEPREI CEPREI	

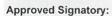
#### **Test specifications**

- 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





## CERTIFICATE OF CALIBRATION

Certificate No.:	13CA0325 01-03		Page:	1 of 2
Item tested				
Description:	Acoustical Calibrat	or (Class 1)		
Manufacturer:	Rion Co., Ltd.			
Type/Model No .:	NC-73			
Serial/Equipment No.:	10186482 / N.004.	09		
Adaptors used:				
Item submitted by				
Curstomer:	AECOM ASIA CO.	, LTD.		
Address of Customer:	-			
Request No.:	-		25	
Date of receipt:	25-Mar-2013			
Date of test:	26-Mar-2013			
Reference equipment	used in the calib	ration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	29-May-2013	SCL
Preamplifier	B&K 2673	2239857	17-Dec-2013	CEPREI
	B&K 2610	2346941	17-Dec-2013	CEPREI
Charles and the second s	DartEoro			
Measuring amplifier	DS 360	61227	29-May-2013	CEPREI
Measuring amplifier Signal generator		61227 US36087050	29-May-2013 10-Dec-2013	CEPREI
Measuring amplifier Signal generator Digital multi-meter	DS 360		,	
Measuring amplifier Signal generator	DS 360 34401A	US36087050	10-Dec-2013	CEPREI
Measuring amplifier Signal generator Digital multi-meter Audio analyzer	DS 360 34401A 8903B	US36087050 GB41300350	10-Dec-2013 29-May-2013	CEPREI
Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	DS 360 34401A 8903B	US36087050 GB41300350	10-Dec-2013 29-May-2013	CEPREI
Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter Ambient conditions	DS 360 34401A 8903B 53132A	US36087050 GB41300350	10-Dec-2013 29-May-2013	CEPREI

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

#### **Test results**

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

Date:

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

Huang Jian Min/Feng Jun Qi

26-Mar-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.

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

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



Website: www.cigismec.com

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



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

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

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



# **CERTIFICATE OF CALIBRATION**

Certificate No.:	13CA0325 01-01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2285692		, , ,	Microphone B & K 4188 2250420 -			
Item submitted by			,				
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 25-Mar-2013	., LTD.		,			
Date of test:	26-Mar-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	<b>Serial No.</b> 2288444 33873 61227		Expiry Date: 22-Jun-2013 29-May-2013 29-May-2013	(	<b>Traceab</b> CIGISME CEPREI CEPREI	
Ambient conditions							
Femperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 10 hPa						
Test specifications	1000 ± 10 NFa						

- 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.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

## Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang #Feng Jun Qi

26-Mar-2013 Company Chop:



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

Date:

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





## **CERTIFICATE OF CALIBRATION**

Certificate No.:	13CA0305 01-01			Page	1	of	2
Item tested							
Description:	Sound Level Meter (	Type 1)	, Micro	phone			
Manufacturer:	B&K	1010	, B&ł	Ś			
Type/Model No.:	2250-L		, 4950				
Serial/Equipment No.:	2681366 (N.OII	.01)	, 2665	582			
Adaptors used:	-		-				
Item submitted by							2
Customer Name:	AECOM ASIA CO LI	MITED					
Address of Customer:	1.						
Request No.:	-						
Date of receipt:	05-Mar-2013			<i>x</i> .			
Date of test:	05-Mar-2013						
Date of test: Reference equipment		tion					
		tion Serial No.	Expi	ry Date:		Traceal	ole to:
Reference equipment	used in the calibra		•	<b>ry Date:</b> ay-2013		Traceal CIGISME	
Reference equipment Description: Multi function sound calibrator	used in the calibra Model:	Serial No.	23-Ma				
Reference equipment Description: Multi function sound calibrator Signal generator	used in the calibra Model: B&K 4226	Serial No. 2288444	23-Ma 29-Ma	ay-2013		CIGISME	
Reference equipment	used in the calibra Model: B&K 4226 DS 360	<b>Serial No.</b> 2288444 33873	23-Ma 29-Ma	ay-2013 ay-2013		CIGISME CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator	used in the calibra Model: B&K 4226 DS 360	<b>Serial No.</b> 2288444 33873	23-Ma 29-Ma	ay-2013 ay-2013		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	<b>Serial No.</b> 2288444 33873	23-Ma 29-Ma	ay-2013 ay-2013		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.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

#### **Test results**

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian M A/F eng Jun Qi

05-Mar-2013 Company Chop:



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

Date:

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

APPENDIX F EM&A MONITORING SCHEDULES

## Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation Tentative Impact Monitoring and Audit Schedule for December 2013

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

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

## Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation Tentative Impact Monitoring and Audit Schedule for January 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/m <sup>3</sup> )
4-Dec-13	10:30	83.5	84.1	82.8
10-Dec-13	10:04	83.6	84.1	82.7
14-Dec-13	10:58	78.5	77.7	79.4
20-Dec-13	9:48	75.7	72.6	74.9
24-Dec-13	9:50	74.1	75.6	72.9
30-Dec-13	10:20	86.2	83.0	81.2
			Average	79.6
			Min	72.6
			Max	86.2

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

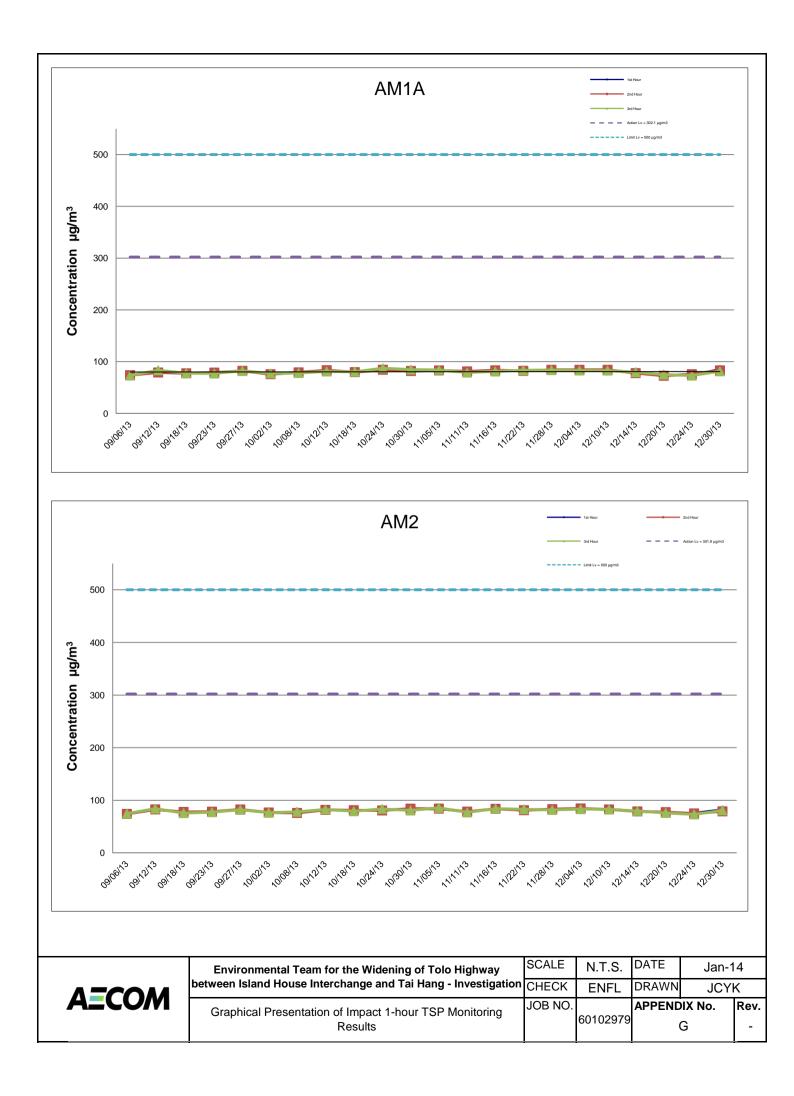
	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
4-Dec-13	10:15	83.7	84.4	83.1
10-Dec-13	9:53	84.4	82.5	82.7
14-Dec-13	10:43	79.7	78.8	79.4
20-Dec-13	10:09	76.1	77.4	75.9
24-Dec-13	9:40	76.7	74.9	73.2
30-Dec-13	10:05	83.0	78.9	80.7
			Average	79.8
			Min	73.2
			Max	84.4

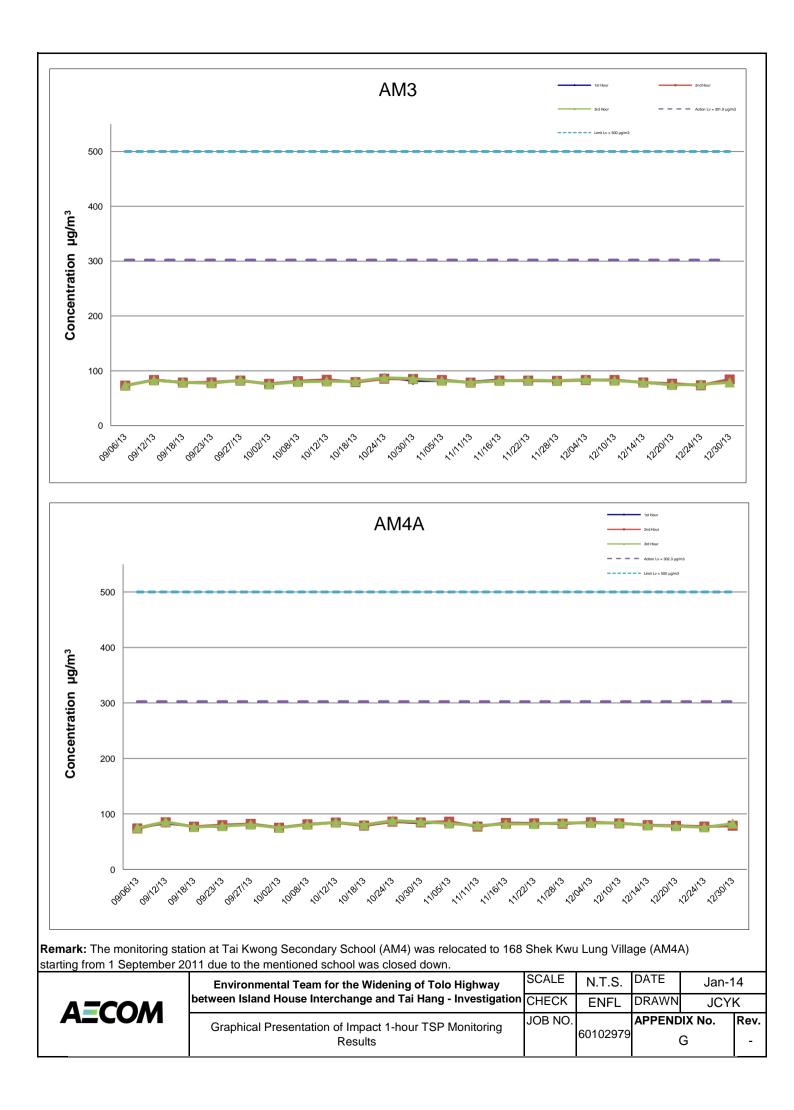
## 1-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
4-Dec-13	10:05	82.6	83.2	84.3
10-Dec-13	9:40	83.9	83.3	82.0
14-Dec-13	10:30	77.9	78.7	79.1
20-Dec-13	10:42	73.5	76.5	74.2
24-Dec-13	9:28	74.4	73.6	75.1
30-Dec-13	10:50	81.8	84.2	78.9
			Average	79.3
			Min	73.5
			Max	84.3

## 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/m <sup>3</sup> )	(µg/m³)	(µg/m <sup>3</sup> )
4-Dec-13	10:44	82.9	85.0	83.8
10-Dec-13	10:22	82.6	83.0	83.8
14-Dec-13	11:16	80.1	79.9	79.3
20-Dec-13	10:28	80.2	78.6	77.9
24-Dec-13	10:04	76.8	77.3	75.9
30-Dec-13	10:35	80.6	78.8	82.6
			Average	80.5
			Min	75.9
			Max	85.0





#### 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 <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )
4-Dec-13	Fine	19.2	1018.2	1.33	1.33	1.33	1916.6	2.6946	2.8206	0.1260	20235.46	20259.46	24.00	65.7
10-Dec-13	Fine	20.1	1014.5	1.33	1.33	1.33	1916.6	2.6915	2.948	0.2565	20259.46	20283.46	24.00	133.8
14-Dec-13	Cloudy	18.8	1018.8	1.33	1.33	1.33	1916.6	2.7498	2.9224	0.1726	20283.46	20307.46	24.00	90.1
20-Dec-13	Sunny	13.9	1022.9	1.33	1.33	1.33	1916.6	2.6677	2.8171	0.1494	20307.46	20331.46		77.9
24-Dec-13	Sunny	14.8	1023.1	1.33	1.33	1.33	1916.6	2.7739	2.9224	0.1485	20331.46	20355.46	24.00	77.5
30-Dec-13	Fine	13.8	1022.5	1.33	1.33	1.33	1916.6	2.8024	3.0145	0.2121	20355.46	20379.46	24.00	110.7
													Average	92.6
													Min	65.7
													Max	133.8

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

Date	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )
4-Dec-13	Fine	19.2	1018.2	1.34	1.34	1.34	1925.3	2.6947	2.8258	0.1311	16807.12	16831.12	24.00	68.1
10-Dec-13	Fine	20.1	1014.5	1.34	1.34	1.34	1925.3	2.7220	2.7684	0.0464	16831.12	16855.12	24.00	24.1
14-Dec-13	Cloudy	18.8	1018.8	1.34	1.34	1.34	1925.3	2.7494	2.855	0.1056	16855.12	16879.12	24.00	54.8
20-Dec-13	Sunny	13.9	1022.9	1.34	1.34	1.34	1925.3	2.7329	2.8300	0.0971	16879.12	16903.12		50.4
24-Dec-13	Sunny	14.8	1023.1	1.34	1.34	1.34	1925.3	2.7656	2.8140	0.0484	16903.12	16927.12	24.00	25.1
30-Dec-13	Fine	13.8	1022.5	1.34	1.34	1.34	1925.3	2.8003	2.9013	0.1010	16927.12	16951.12	24.00	52.5
													Average	45.8
													Min	24.1
													Max	68.1

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

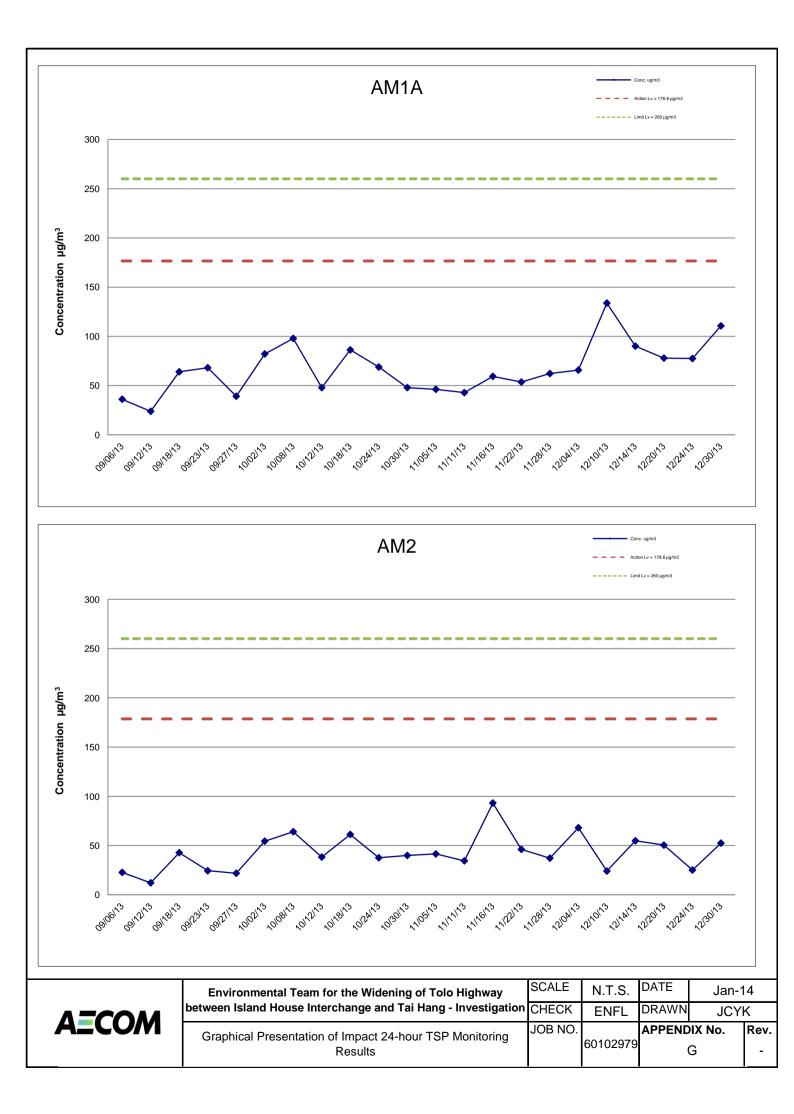
Date	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )
4-Dec-13	Fine	19.2	1018.2	1.33	1.33	1.33	1921.0	2.6778	2.7619	0.0841	20536.59	20560.59	24.00	43.8
10-Dec-13	Fine	20.1	1014.5	1.33	1.33	1.33	1921.0	2.6924	2.7826	0.0902	20560.59	20584.59	24.00	47.0
14-Dec-13	Cloudy	18.8	1018.8	1.33	1.33	1.33	1921.0	2.7311	2.8887	0.1576	20584.59	20608.59	24.00	82.0
20-Dec-13	Sunny	13.9	1022.9	1.33	1.33	1.33	1921.0	2.7388	2.8044	0.0656	20608.59	20632.59	24.00	34.1
24-Dec-13	Sunny	14.8	1023.1	1.33	1.33	1.33	1921.0	2.8344	2.9411	0.1067	20632.59	20656.59	24.00	55.5
30-Dec-13	Fine	13.8	1022.5	1.33	1.33	1.33	1921.0	2.8034	2.9510	0.1476	20656.59	20680.59	24.00	76.8
													Average	56.6
													Min	34.1
													Max	82.0

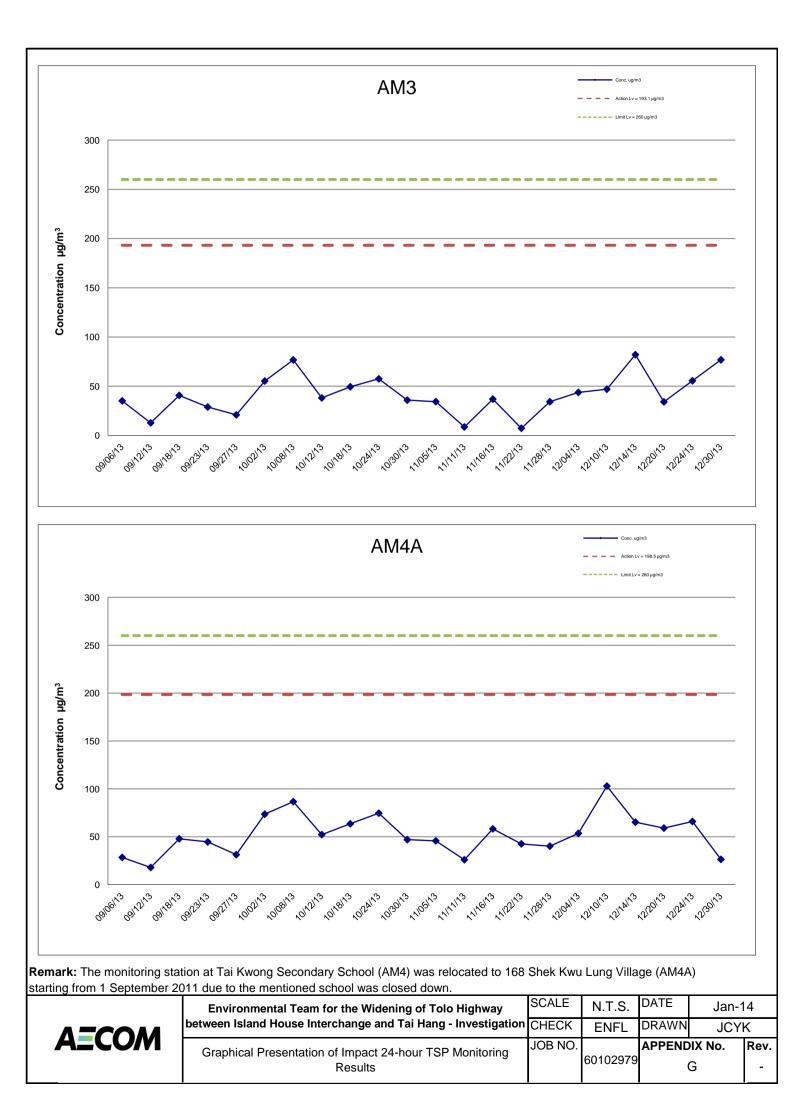
#### 24-hour TSP Monitoring Results at Station AM4A (Roof of Switch Room at 168 Shek Kwu Lung Village)

Date	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	Veight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )
4-Dec-13	Fine	19.2	1018.2	1.33	1.33	1.33	1918.1	2.6968	2.7995	0.1027	16666.36	16690.36	24.00	53.5
10-Dec-13	Fine	20.1	1014.5	1.33	1.33	1.33	1918.1	2.6841	2.8815	0.1974	16690.36	16714.36	24.00	102.9
14-Dec-13	Cloudy	18.8	1018.8	1.33	1.33	1.33	1918.1	2.7100	2.8351	0.1251	16714.36	16738.36	24.00	65.2
20-Dec-13	Sunny	13.9	1022.9	1.33	1.33	1.33	1918.1	2.7329	2.8462	0.1133	16738.36	16762.36	24.00	59.1
24-Dec-13	Sunny	14.8	1023.1	1.33	1.33	1.33	1918.1	2.7606	2.8872	0.1266	16762.36	16786.36	24.00	66.0
30-Dec-13	Fine	13.8	1022.5	1.33	1.33	1.33	1918.1	2.7998	2.8504	0.0506	16786.36	16810.36	24.00	26.4
													Average	62.2
													Min	26.4

Max

102.9





APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH

# Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, December 2013

Date	Mean Pressure at M.S.L.	Ai	ir Temperatu	ıre	Mean Dew Point Temperature	Rela	ative Humi	dity
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)
1-Dec	* * * * * *	22.5	17	12.4	* * * *	***	***	***
2-Dec	*****	23.3	17.6	12.9	* * * *	* * *	***	* * *
3-Dec	*****	23.8	18.9	15.3	****	***	***	***
4-Dec	*****	24.1	18.9	14.3	****	***	***	***
5-Dec	*****	23.5	17.9	13.9	****	***	***	***
6-Dec	*****	22.5	17.8	13.5	* * * *	* * *	***	* * *
7-Dec	*****	23.9	18.6	14.7	* * * *	***	***	***
8-Dec	*****	24.1	19.7	16.4	* * * *	* * *	***	***
9-Dec	*****	27	22.2	18.6	* * * *	* * *	***	***
10-Dec	*****	22.9	19.7	16.5	* * * *	* * *	***	* * *
11-Dec	* * * * * *	21.2	18.3	16	* * * *	***	***	***
12-Dec	* * * * * *	21.1	17.2	15.2	* * * *	***	***	***
13-Dec	*****	20.3	17.9	15.1	* * * *	***	***	***
14-Dec	* * * * * *	20.3	18.1	16.6	* * * *	***	***	***
15-Dec	* * * * * *	17.2	16.2	15.4	* * * *	***	***	***
16-Dec	*****	16	12.6	11.1	* * * *	***	***	***
17-Dec	*****	12.6	11.6	10.2	* * * *	***	***	***
18-Dec	* * * * * *	13.2	10.2	8.2	* * * *	***	***	***
19-Dec	* * * * * *	16.2	12	8.4	* * * *	***	***	***
20-Dec	* * * * * *	18	13.8	9.8	* * * *	***	***	***
21-Dec	*****	16.5	13.9	12.1	* * * *	***	***	***
22-Dec	* * * * * *	17.8	13.1	9.4	* * * *	***	***	***
23-Dec	* * * * * *	19.7	14.2	9.7	* * * *	***	***	***
24-Dec	* * * * * *	19.5	14.3	10	* * * *	***	***	***
25-Dec	*****	20.2	15.1	11.2	* * * *	***	***	***
26-Dec	*****	18.2	14.4	10.5	* * * *	***	***	***
27-Dec	*****	16.2	12.5	9.3	* * * *	***	***	***
28-Dec	*****	16.1	11.1	7.3	* * * *	***	***	***
29-Dec	*****	16.8	11.5	7.0	* * * *	***	***	***
30-Dec	*****	19.2	13.3	8.7	****	* * *	***	***
31-Dec	*****	20.8	14.7#	10.1	* * * *	***	***	***
Mean	*****	19.8	15.6#	12.3	* * * *	* * *	***	***
Maximum	*****	27	22.2#	18.6	* * * *	* * *	***	***
Minimum	*****	12.6	10.2#	7.0	* * * *	***	***	***

## Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, December 2013

Date	Total Rainfall (mm)	Prevailing Wind Direction	Mean Wind (km/h)
		(degrees)	
1-Dec	0.0	260	6.3
2-Dec	0.0	50	5.8
3-Dec	0.0	40	13.9
4-Dec	0.0	40	11.9
5-Dec	0.0	120	6.9
6-Dec	0.0	260	8.3
7-Dec	0.0	120	5.3
8-Dec	0.0	50	5.3
9-Dec	0.0	40	12.8
10-Dec	0.0	50	11.5
11-Dec	0.0	40	16.4
12-Dec	0.0	30	16.2
13-Dec	1.0	50	6.3
14-Dec	0.0#	50	17.0
15-Dec	****	40	15.4
16-Dec	*****	30	11.5
17-Dec	****	270	8.2
18-Dec	0.0	30	21.3
19-Dec	0.0	10	14.5
20-Dec	0.0	40	12.1
21-Dec	0.0	40	12.5
22-Dec	0.0	40	9.5
23-Dec	0.0	30	8.0
24-Dec	0.0	260	6.1
25-Dec	0.0	30	7.3
26-Dec	0.0	40	17.3
27-Dec	0.0	30	19.0
28-Dec	0.0	260	7.9
29-Dec	0.0	100	6.5
30-Dec	0.0	260	3.4
31-Dec	0.0#	070#	3.3#
Mean		040#	10.6#
Total	1.0#		
Maximum	1.0#		21.3#
Minimum	0.0#		3.3#

\*\*\* 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, December 2013

Date	Mean Pressure at M.S.L.	Ai	r Temperatu	ıre	Mean Dew Point Temperature	Rela	ative Humi	dity
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)
1-Dec	1021.8	21.3	15.2	10.4	4.7	74	52	27
2-Dec	1020.3	22	15.6	10.5	5.8	80	55	25
3-Dec	1019.1	22.4	17.9	13.3	9.5	84	59	35
4-Dec	1018.2	23.5	17.4	12.3	6.2	74	49	31
5-Dec	1017.9	21.7	16	11.4	5.7	67	51	38
6-Dec	1016.8	21.5	16.2	11.2	4.7	72	49	24
7-Dec	1017.4	21.9	16.9	12.8	10.6	82	67	50
8-Dec	1015.1	21.6	18.6	15.1	14	89	75	59
9-Dec	1013.5	25.8	21.8	18.8	12.4	76	57	37
10-Dec	1014.6	21.4	19.2	16.4	11.7	79	63	49
11-Dec	1017	20	18.3	15.6	9.8	81	58	48
12-Dec	1017.2	18.4	17.1	15.6	9.3	87	61	53
13-Dec	1018	19.6	17.5	14.8	13.1	91	76	60
14-Dec	1018.8	19.7	17.9	16.2	14.9	98	83	72
15-Dec	1016.9	16.8	15.7	15.1	15.2	98	97	94
16-Dec	1015.8	15.8	11.8	10.6	11	98	95	88
17-Dec	1016.7	11.6	10.9	10.5	9.9	97	94	82
18-Dec	1020.3	12.6	10.2	8.3	3.8	86	65	50
19-Dec	1022.3	15.3	10.9	7.6	3.4	76	61	42
20-Dec	1023.1	16.2	12.7	8.5	5.3	80	62	46
21-Dec	1024.3	15.6	13.3	10.9	4.7	72	57	43
22-Dec	1024.4	16.3	12.1	8.7	3.8	68	58	43
23-Dec	1022.7	18	12.5	7.9	4.8	84	61	35
24-Dec	1023.3	17.9	12.9	8.8	5.1	74	60	38
25-Dec	1021.7	18.1	13.8	10.4	4.8	71	55	39
26-Dec	1021.4	17.6	13.7	9.2	0.1	72	42	21
27-Dec	1023.9	15.5	12.1	8.6	-2.4	54	37	23
28-Dec	1023.3	14.2	9.8	6.2	-2.9	59	42	26
29-Dec	1023.2	14.8	10	5.3	-0.5	70	49	27
30-Dec	1022.6	17.4	11.7	6.8	1.0	76	51	19
31-Dec	1021.2	19.5	13.3	8.1	1.1	64	46	21
Mean	1019.8	18.5	14.6	11.2	6.5	78	61	43
Maximum	1024.4	25.8	21.8	18.8	15.2	98	97	94
Minimum	1013.5	11.6	9.8	5.3	-2.9	54	37	19

## Extract of Meteorological Observations for Tai Po Automatic Weather Station, December 2013

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

\*\*\* 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, December 2013

Date	Mean Pressure at M.S.L.	Pressure Air Temperature			Mean Dew Point Temperature	Relative Humidity			
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)	
1-Dec	1022	21.5	14.6	9.0	5.0	93	59	16	
2-Dec	1020.6	22.4	15	8.8	6.2	90	61	21	
3-Dec	1019.3	22.2	17.2	10.8	9.7	86	63	32	
4-Dec	1018.4	23.1	16.3	10	6.9	89	59	26	
5-Dec	1018.1	21.8	15	10	6.2	88	58	32	
6-Dec	1017.1	22.2	15.1	9.1	6.2	90	61	22	
7-Dec	1017.7	22.7	16.3	11.1	10.3	92	70	42	
8-Dec	1015.4	21.9	18.5	14.2	13.8	96	75	55	
9-Dec	1013.7	26.1	21.9	18.7	12.3	88	55	37	
10-Dec	1014.8	21.2	19.2	17.1	11.1	77	60	45	
11-Dec	1017.2	20	18.1	16.5	8.7	81	55	42	
12-Dec	1017.4	18.8	16.9	15.4	8.7	86	59	50	
13-Dec	1018.2	20	17.8	15.5	13	87	74	61	
14-Dec	1019	19.7	17.8	16.2	14.4	96	81	69	
15-Dec	1017	17	15.9	15	14.9	98	94	88	
16-Dec	1015.6	15.5	12.1	10.8	10.6	98	90	82	
17-Dec	1016.6	11.8	11.2	10.5	9.7	95	90	80	
18-Dec	1020	13.2	10.5	8.8	3.0	83	60	47	
19-Dec	1022.2	15.5	11.6	8.1	3.1	71	56	43	
20-Dec	1023.1	16.3	13.5	10.4	4.4	67	54	45	
21-Dec	1024.2	15.7	13.8	12.4	4.0	65	52	44	
22-Dec	1024.4	16.1	12.2	9.5	3.6	82	57	39	
23-Dec	1022.7	18.4	12.6	7.2	4.8	94	62	32	
24-Dec	1023.3	18.4	13.1	9.6	5.2	85	60	39	
25-Dec	1021.7	18.4	14	10	5.2	86	56	39	
26-Dec	1021.3	17.7	14.4	10.7	-0.9	75	36	22	
27-Dec	1023.7	15.3	12.6	10.6	-3.9	40	32	25	
28-Dec	1023.2	14.3	10.9	7.0	-3.8	60	36	22	
29-Dec	1023.2	15.1	10.6	6.8	-2.5	87	44	23	
30-Dec	1022.6	18.3	10.6	4.8	1.8	94	61	20	
31-Dec	1021.3	19.9	11.9	5.7	3.3	90	62	20	
Mean	1019.8	18.7	14.6	11	6.3	84	61	41	
Maximum	1024.4	26.1	21.9	18.7	14.9	98	94	88	
Minimum	1013.7	11.8	10.5	4.8	-3.9	40	32	16	

## Extract of Meteorological Observations for Sha Tin Automatic Weather Station, December 2013

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Dec	0.0	140	3.9
2-Dec	0.0	40	4.0
3-Dec	0.0	10	5.8
4-Dec	0.0	40	5.4
5-Dec	0.0	130	4.1
6-Dec	0.0	40	4.9
7-Dec	0.0	30	3.7
8-Dec	0.0	80	3.8
9-Dec	0.0	40	7.7
10-Dec	0.0	20	7.8
11-Dec	0.0	30	8.5
12-Dec	0.0	10	7.7
13-Dec	0.0	350	4.9
14-Dec	11.0	10	8.5
15-Dec	22.0	360	9.7
16-Dec	27.0	360	11.0
17-Dec	28.5	360	7.1
18-Dec	0.0	360	13.0
19-Dec	0.0	350	8.3
20-Dec	0.0	40	7.6
21-Dec	0.0	40	7.5
22-Dec	0.0	40	6.4
23-Dec	0.0	40	4.4
24-Dec	0.0	30	4.6
25-Dec	0.0	30	4.8
26-Dec	0.0	20	10.9
27-Dec	0.0	30	11.9
28-Dec	0.0	360	6.1
29-Dec	0.0	40	7.2
30-Dec	0.0	150	3.8
31-Dec	0.0	250	3.8
Mean		30	6.7
Total	88.5		
Maximum	28.5		13.0
Minimum	0.0		3.7

\*\*\* unavailable

# missing (less than 24 hourly observations a day)

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

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

Location : NM1A (168 Shek Kwu Lung Village G/F- Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured	Noise Lev	/el for 30-r	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-Dec-13	10:46	63.1	64.6	61.2	64.2	63.1	75	Ν
10-Dec-13	10:23	62.7	63.9	59.4	64.2	62.7	75	N
20-Dec-13	15:38	64.2	67.1	61.9	64.2	64.2	75	N
24-Dec-13	10:06	63.8	66.1	61.6	64.2	63.8	75	N
30-Dec-13	11:30	66.2	70.5	63.1	64.2	61.9	75	N

	Corrected Noise Level dB(A)
Average	63.2
Max	64.2
Min	61.9

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

	Measured	Noise Lev	el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	Level, dB(A)*	Noise Level, dB(A) **	dB(A)	(Y/N)
4-Dec-13	11:30	67.5	69.3	63.8	68.1	67.5	75	Ν
10-Dec-13	13:10	66.7	68.2	63.9	68.1	66.7	75	Ν
20-Dec-13	14:47	62.9	64.7	60.3	68.1	62.9	75	Ν
24-Dec-13	11:30	66.2	68.1	64.3	68.1	66.2	75	N
30-Dec-13	14:30	64.5	69.8	61.9	68.1	64.5	75	N

	Corrected Noise Level dB(A)
Average	65.9
Max	67.5
Min	62.9

\* +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 Lev	/el for 30-r	nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A) <sup>#</sup>	(Y/N)
4-Dec-13	11:09	66.8	68.5	64.0	64.8	62.5	70	N
10-Dec-13	10:49	66.3	68.0	63.5	64.8	61.0	70	N
20-Dec-13	9:37	67.2	68.4	65.1	64.8	63.5	70	Ν
24-Dec-13	10:30	65.8	68.7	62.5	64.8	58.9	70	N
30-Dec-13	13:08	65.7	69.8	60.8	64.8	58.4	70	N

	Corrected Noise Level dB(A)
Average	61.3
Max	63.5
Min	58.4

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

	Measured	Noise Lev	/el for 30-r	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-Dec-13	10:18	65.5	67.0	63.0	67.4	65.5	75	N
10-Dec-13	9:54	67.8	69.0	64.5	67.4	57.2	75	N
20-Dec-13	10:35	65.4	67.1	62.9	67.4	65.4	75	N
24-Dec-13	9:43	64.6	66.5	62.1	67.4	64.6	75	N
30-Dec-13	15:55	64.0	68.6	61.8	67.4	64.0	75	N

	Corrected Noise Level dB(A)					
Average	64.1					
Max	65.5					
Min	57.2					

# - 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 Lev	/el for 30-r	min, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
4-Dec-13	13:38	67.7	69.0	65.5	65.2	64.1	75	Ν
10-Dec-13	14:03	67.4	69.0	65.2	65.2	63.4	75	Ν
20-Dec-13	13:07	60.5	63.0	58.7	65.2	60.5	75	Ν
24-Dec-13	10:49	61.5	63.4	60.1	65.2	61.5	75	Ν
30-Dec-13	13:50	65.8	69.2	62.8	65.2	56.9	75	Ν

	Corrected Noise Level dB(A)				
Average	61.9				
Max	64.1				
Min	56.9				

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

	Measured 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) <sup>#</sup>	(Y/N)
4-Dec-13	13:26	62.5	63.9	60.1	64.5	62.5	70	N
10-Dec-13	13:18	60.8	62.5	57.5	64.5	60.8	70	N
20-Dec-13	11:25	59.7	63.1	57.0	64.5	59.7	70	N
24-Dec-13	11:20	59.6	62.1	57.9	64.5	59.6	70	N
30-Dec-13	15:10	64.4	69.2	61.2	64.5	64.4	70	N

	Corrected Noise Level dB(A)				
Average	61.8				
Max	64.4				
Min	59.6				

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

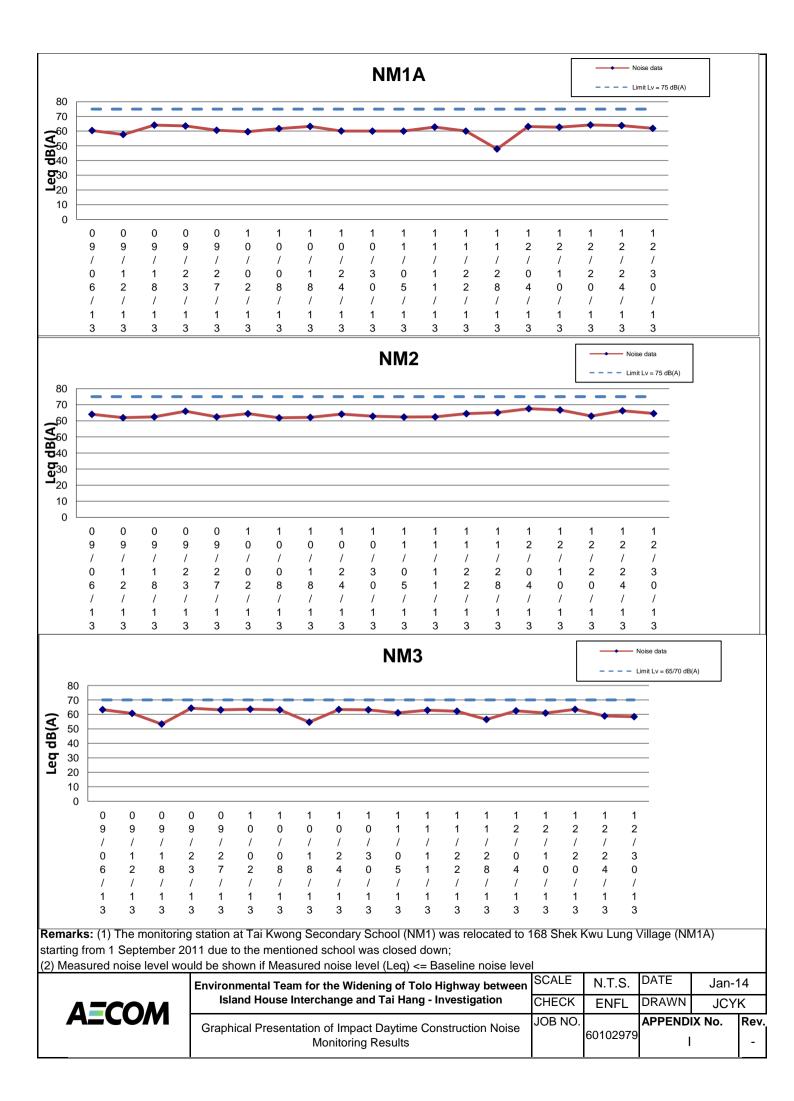
Location : NM7 (Riverain Bayside Switch Room Rooftop - Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

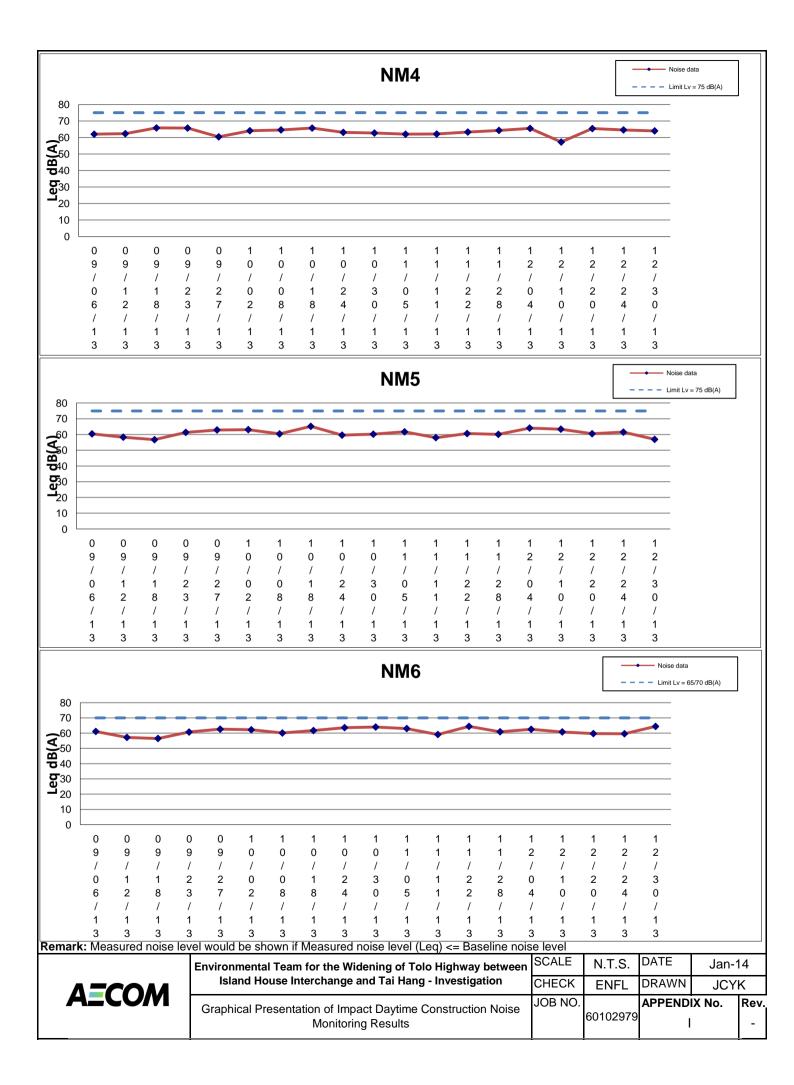
	Measured Noise Level for 30-min, dB(A)				Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
4-Dec-13	14:26	60.2	62.1	57.9	61.5	60.2	75	Ν
10-Dec-13	11:16	62.3	63.7	59.2	61.5	54.6	75	Ν
20-Dec-13	13:57	62.7	64.4	60.5	61.5	56.5	75	Ν
24-Dec-13	9:30	63.4	65.6	61.8	61.5	58.9	75	Ν
30-Dec-13	10:50	65.2	68.6	63.1	61.5	62.8	75	N

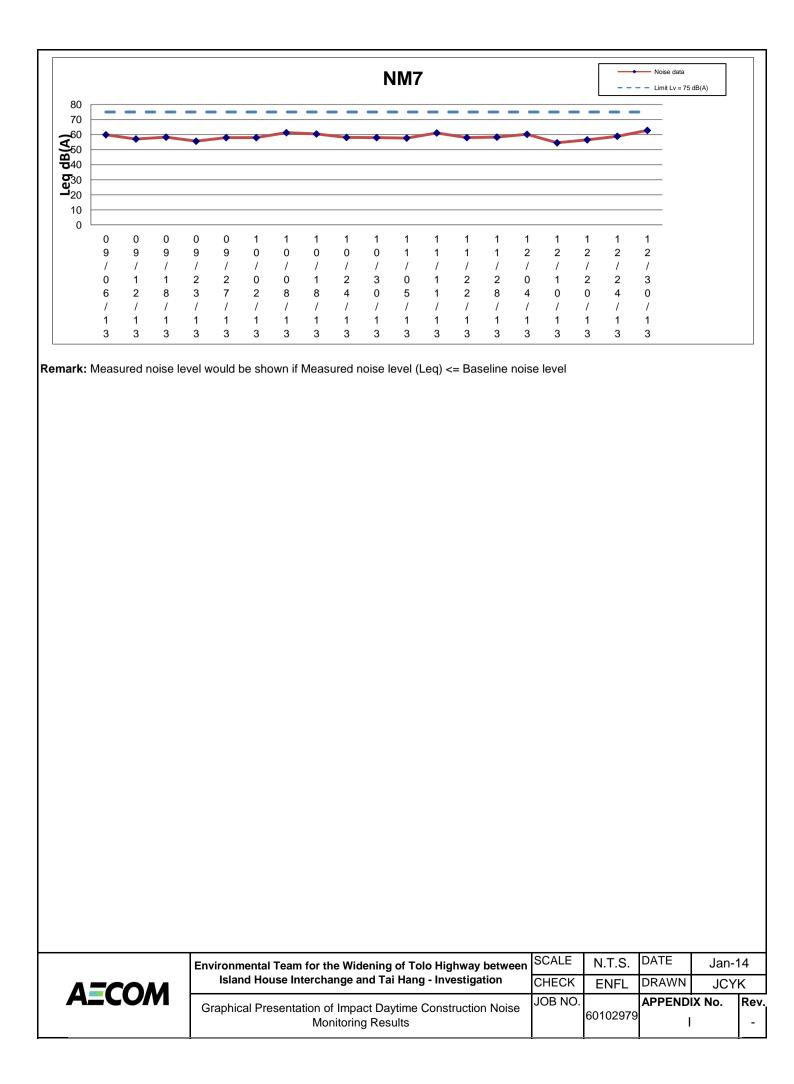
	Corrected Noise Level dB(A)			
Average	59.5			
Max	62.8			
Min	54.6			

#### Remarks

\*\* Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level. If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level</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	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to dailv.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

## Event / Action Plan for Air Quality

Event		Action	ı	
Action Level	ET Leader	IEC	ER	Contractor
Limit Level	·		·	·
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase frequency to daily;</li> <li>Analyse Contractor's working procedures to determine possible mitigation to be;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ul> <li>proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by ER until the exceedance is</li> </ul>

## Event / Action Plan for Noise Impact

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

APPENDIX K SITE INSPECTION SUMMARIES

#### Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	4 December 2013
Time:	09:45
Inspection No.:	395

## Non-compliance

Nil

#### Observations

Follow Up Observation

Nil.

#### New Observation

1. The Contractor was reminded to provide a drip tray to hold the oil can.

#### Remarks



#### Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	5 December 2013
Time:	14:15
Inspection No.:	396

## Non-compliance

Nil

## Observations

	Follow Up Observations
1.	The excess general refuse in the waste skip at Bridge 13 was removed (Closed).
	New Observations
2.	The Contractor was reminded to provide a drip tray to oil cans at Gate 2 or remove the oil cans.
Rem	parks



#### Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	11 December 2013
Time:	14:00
Inspection No.:	397

## Non-compliance

Nil

#### Observations

Follow Up Observation

1. The oil can was removed (Closed).

## New Observation

Nil.

## Remarks



#### Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	12 December 2013
Time:	14:15
Inspection No.:	398

## Non-compliance

Nil

#### Observations

0.000	
	Follow Up Observations
1.	Oil cans at Gate 2 are removed (Closed).
	New Observations
	Nil.

## Remarks



#### Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	18 December 2013
Time:	09:15
Inspection No.:	399

## Non-compliance

Nil

#### Observations

Follow Up Observation

Nil.

New Observation

Nil.

Remarks

#### Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	19 December 2013
Time:	14:15
Inspection No.:	400

#### Non-compliance

Nil

#### **Observations**

Follow Up Observations

Nil.

New Observations

1. The Contractor was reminded to cover the exposed slope at Gate 48 with tarpaulin sheets.

## Remarks

#### Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	24 December 2013
Time:	09:15
Inspection No.:	401

#### Non-compliance

Nil

#### Observations

Follow Up Observation

Nil.

## New Observation

1 Dry soil surface was observed on access roads and the Contractor was reminded to spray the access road with water or dust suppression chemicals to maintain the entire surface wet. (Follow up)

2 Oil drums were observed without drip tray and the Contractor was reminded to provide trays to oil drums as a mitigation measure. (Follow up)

#### Remarks

#### Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date: 24 December 2013	
Time:	09:30
Inspection No.:	402

## Non-compliance

Nil

#### Observations

	Follow Up Observations					
1.	The slope at Gate 48 is covered by tarpaulin sheets.					
	New Observations					
	Nil.					
Remarks						



#### Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	31 December 2013
Time:	09:15
Inspection No.:	403

AECOM

#### Non-compliance

Nil

#### Observations

Follow Up Observations

Nil.

New Observations

- 1. Mud was observed at the edge of the footpath at NLKP3. The Contractor was reminded to clear the mud and increase the height of sand bags to prevent the overflow of sand from the construction site.
- 2. Muddy water was observed at the edge of the road at W74. The contractor was reminded to direct the water to an appropriate discharge point so that it will not mix with sand to produce muddy water.

#### 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	-	_	-	2	35
Notification of summons	-	_	-	0	0
Successful Prosecutions	-	-	-	0	0