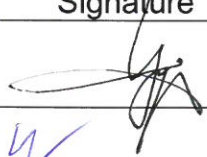



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
- Tai Hang to Wo Hop Shek
Interchange****Quarterly EM&A Report
for November 2015 to January 2016**

[03/2016]

| | Name | Signature |
|----------------------|-----------|---|
| Prepared & Checked: | Oscar Yip |  |
| Reviewed & Approved: | Y W Fung |  |

Version: Rev. 0 Date: 14 March 2016

Disclaimer

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

Our ref JFP/EC/ST/ro/T329380/22.05/L-0112
T 2828 5920
E steven.tang@mottmac.com.hk
Your ref

Hyder-Arup-Black & Veatch Joint Venture
c/o Arcadis
20/F, AXA Tower, Landmark East,
100 How Ming Street,
Kwun Tong, Hong Kong

Dear Sir,

14 March 2016
By Fax (2805 5028) & Hand

Attn: Mr. James Penny

**EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)
Environmental Permit No. EP-324/2008/D
Quarterly EM&A Summary Report for November 2015 to January 2016 for the portion of Stage 2 works under Contract No. HY/2012/06**

We refer to the revised Quarterly EM&A Summary Report for November 2015 to January 2016 for the captioned Project received on 11 March 2016 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin (Fax: 2714 5198)
AECOM – Mr. Y W Fung (Fax:2891 0305)

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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). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

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.

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). Stage 2 would be implemented under two works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. This report focuses on Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project only.

Pursuant to the EP (EP-324/2008/C) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. 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 November 2015 and 31 January 2016. As informed by the Contractor, construction activities in the reporting period were as follows:

- Site clearance
- Ground investigation
- Piling works
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Footbridge demolition
- Bridge construction

Reporting Change

There was no reporting change required in the reporting period.

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 period.

Breaches of Action and Limit Levels for Noise

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

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- 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;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

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

Table 1.1 Contact Information of Key Personnel

| Party | Position | Name | Telephone | Fax |
|---|-----------------------------------|---------------|-----------|-----------|
| ER (Hyder-Arup-Black & Veatch Joint Venture) | Chief Resident Engineer | Edwin Chung | 6115 0818 | 2638 0950 |
| IEC (Mott MacDonald Hong Kong Limited) | Independent Environmental Checker | Steven Tang | 2828 5920 | 2827 1823 |
| Contractor (China State Construction Engineering (Hong Kong) Limited) | Environmental Officer | Michael Tsang | 9277 4956 | 2672 2501 |
| | | C C Chow | 9679 6315 | 2672 2501 |
| ET (AECOM Asia Company Limited) | ET Leader | Y W Fung | 3922 9393 | 3922 9797 |

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works carried out by the Contractor in this reporting period are listed below:

- Site clearance
- Ground investigation
- Piling works
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Footbridge demolition
- Bridge construction

- 1.3.2 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.
- 1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.2a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.2a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was 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.
- 3.1.2 The weather was mostly sunny, with several fine, cloudy and rainy days in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

| Location | Average ($\mu\text{g}/\text{m}^3$) | Range ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) |
|---|--------------------------------------|------------------------------------|---|--|
| AM2 (Fanling Government Secondary School) | 75.3 | 65.4 – 82.1 | 317.8 | 500 |

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

| Location | Average ($\mu\text{g}/\text{m}^3$) | Range ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) |
|---|--------------------------------------|------------------------------------|---|--|
| AM2 (Fanling Government Secondary School) | 36.0 | 7.4 – 58.1 | 200.7 | 260 |

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

| | Average (dB(A)) | Range (dB(A)) | Limit Level (dB(A)) |
|-----|--------------------|--------------------|---------------------|
| | L_{eq} (30 mins) | L_{eq} (30 mins) | L_{eq} (30 mins) |
| M2* | 69.3 | 68.6 – 71.0 | 75 |
| M3# | 63.6 | 60.6 – 69.8 | 65/70 |

*+3dB(A) Façade correction included

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

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor, 8,573 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 280 m³ of general refuse was disposed of at NENT landfill. 213 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling contractors in the reporting period. 2,905 m³, 3692 m³, and 1976 m³ of inert C&D materials were reused on site, in other projects and in NENT for backfilling purpose respectively. 0kg of chemical wastes was collected by licensed contractors in the reporting period.
- 5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table

| Waste Type | Actual Amount | Disposal/Reuse Locations |
|--|--|---------------------------------|
| Inert C&D materials | 8,573 m ³ (of which 0 m ³ was broken concrete) | Tuen Mun 38 |
| General refuse | 280 m ³ | NENT Landfill |
| Paper/cardboard packaging | 213 kg | Recycling Contractors |
| Plastics | 0 kg | Recycling Contractors |
| Metals | 0 kg | Recycling Contractors |
| C&D materials reused on site | 2,905 m ³ | Site Area |
| C&D materials reused in other projects | 3692 m ³ | Other projects |
| C&D materials reused in NENT for backfilling | 1976 m ³ | NENT Landfill |
| Chemical wastes | 0 kg | Licensed Contractors |

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

- 6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 6.1.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No complaint, notification of summons or successful prosecution was received in the reporting period.
- 7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.3 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- The Contractor should dampen the road to reduce dust generation.
- The Contractor should cover the stockpile with impervious sheeting to prevent dust generation.
- The Contractor should provide proper labels to the non-road mobile machineries.

Construction Noise Impact

- The Contractor should provide the valid NEL on the air compressor.
- The Contractor should provide proper wrapping to the breaker's head as mitigating measure.

Water Quality Impact

- The Contractor should remove the stagnant water.
- The Contractor should provide sufficient mitigation measures to prevent deposited silt and grit from entering public drainage.
- The Contractor should provide bunding to avoid waste water to be carried to the public road.
- The Contractor should provide waste water treatment and mechanism to avoid waste water from entering the public pedestrian pathway.
- The Contractor should clear the accumulated mud in wheel washing basins regularly.
- The Contractor should clean the sedimentation tank regularly.
- The Contractor should clear the blocked drainage and provide proper mechanism to avoid waste water from entering the public road.
- The Contractor should clean the mud trail and adopt effective wheel washing mechanism to prevent any muddy trail from entering the public haul road.

Chemical and Waste Management

- The Contractor should remove the mud stain and oil stain properly.
- The Contractor should remove the waste frequently.
- The Contractor should provide drip tray to the chemicals to prevent leakage to ground.
- The Contractor should review the house-keeping practices and clear the trash in a timely manner.
- Oil stain was found on ground leaked from a breaker's head. The Contractor should clear the oil stain and disposed of as chemical waste.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor should clean the public road in a timely manner.
- The Contractor should clean the pedestrian pathway regularly.

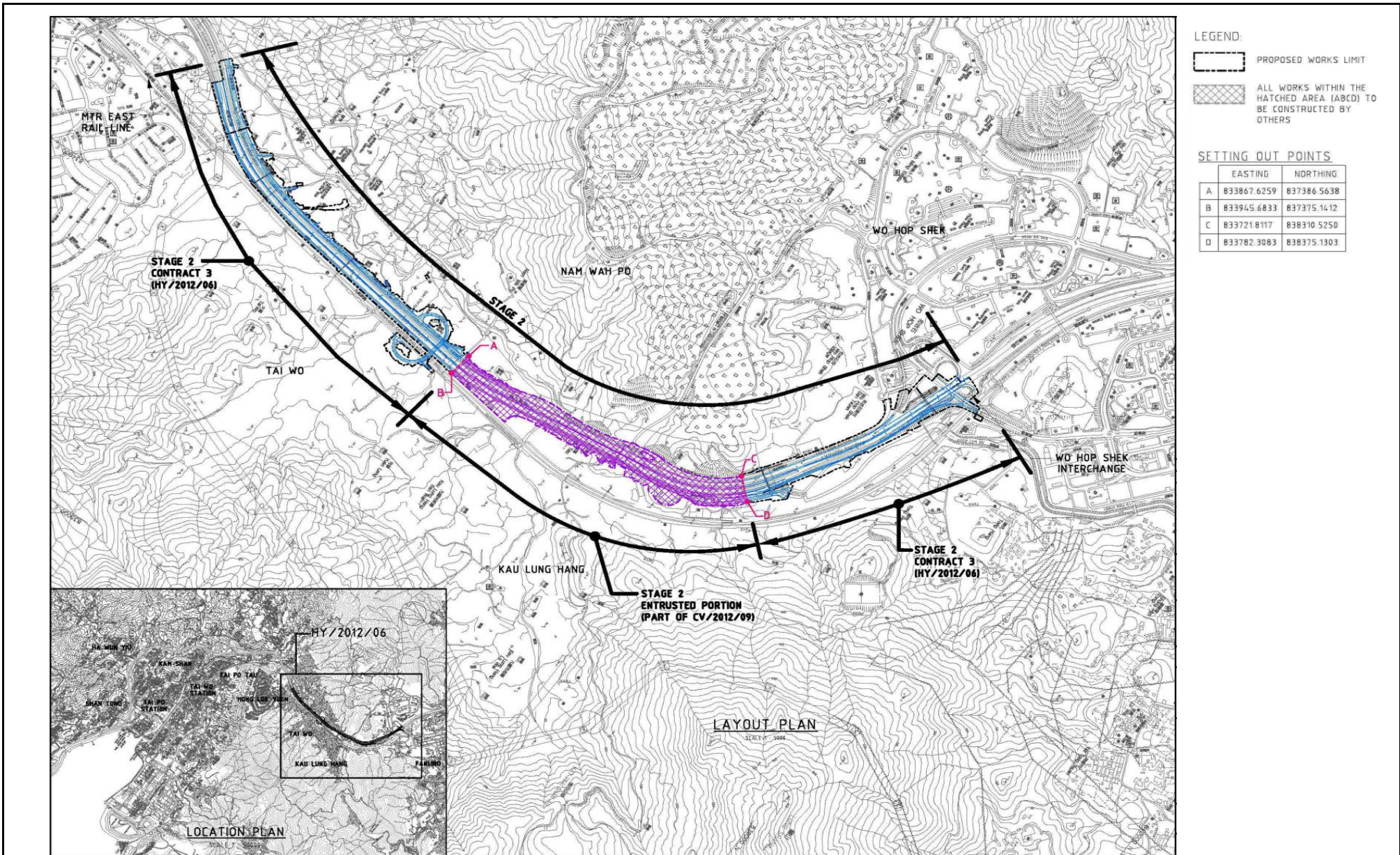
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 No complaint, notification of summons or successful prosecution was received in the reporting period.

FIGURES



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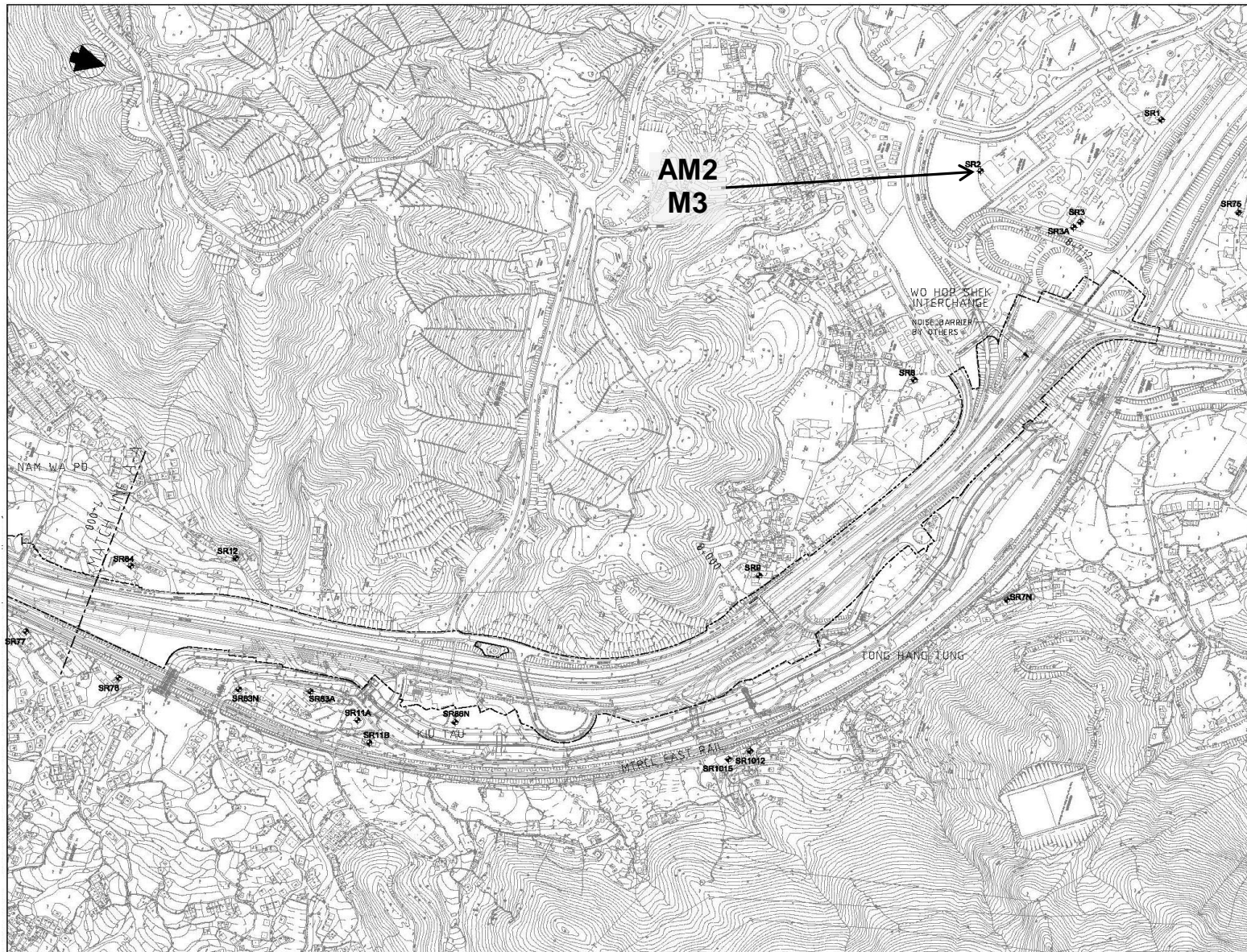
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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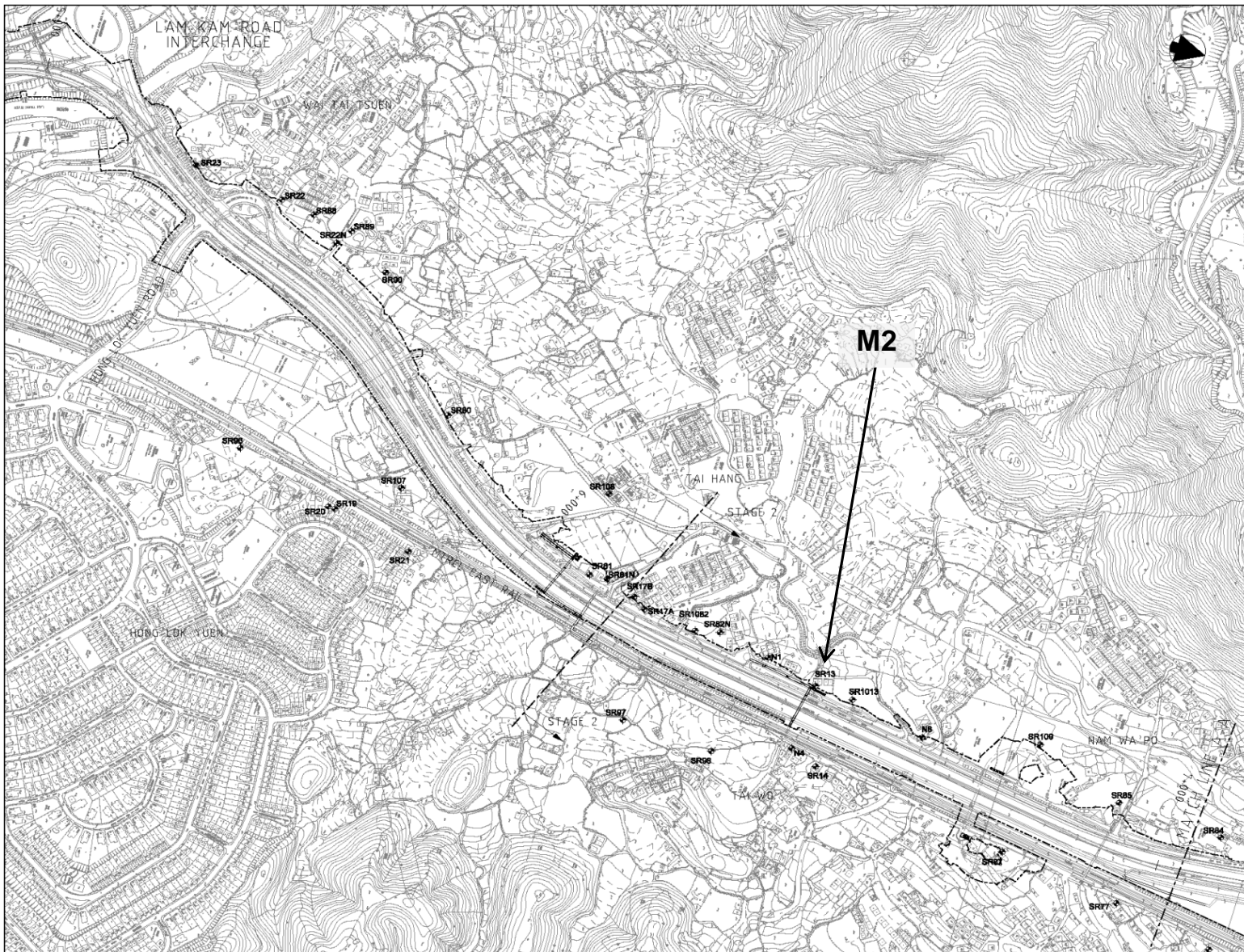
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

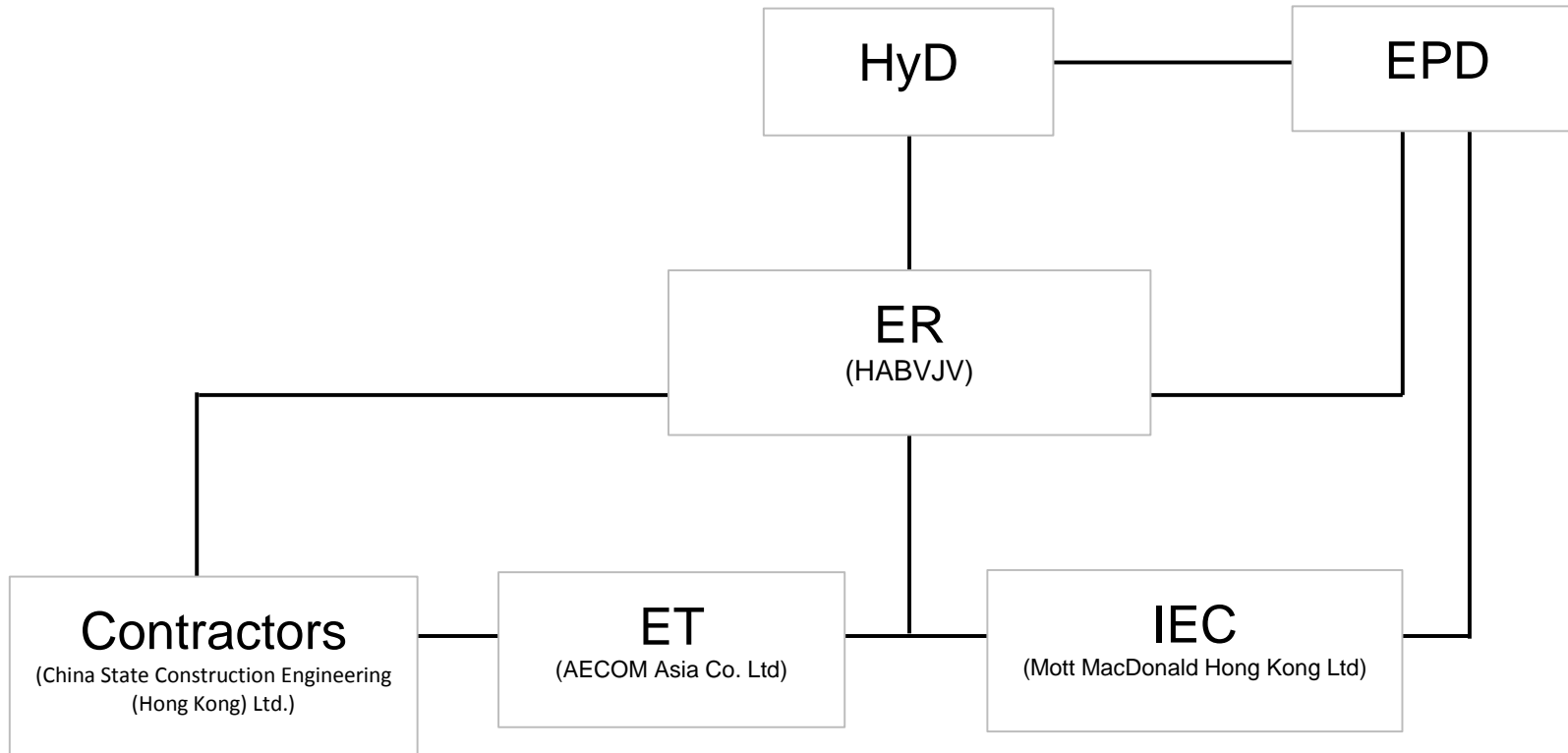


Locations of Monitoring Station

Date: Dec 2013

Figure 1.2b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | |
|---|--|-----------------|---------------|-------------------|-------------|-----------|-------------|------|-----|-----|-----|--|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr |
| Contract Condition | | | | | | | | | | | | |
| General | | | | | | | | | | | | |
| Contract Condition | | | | | | | | | | | | |
| Contract Condition | | | | | | | | | | | | |
| POSSA323A | Site Area SA323A (360d) (not required) | 0% | 0 | 0 | 20-Jan-16 | | 1627 | | | | | ◆ Site Area SA323A (360d) (not required) |
| POSSA327 | Site Area SA327 (180d) | 0% | 0 | 0 | 20-Jan-16* | | -384 | | | | | ◆ Site Area SA327 (180d) |
| POSSA327A | Site Area SA327A (730d) | 0% | 0 | 0 | 20-Jan-16* | | -186 | | | | | ◆ Site Area SA327A (730d) |
| POSSA345 | Site Area SA345 (0d) | 0% | 0 | 0 | 20-Jan-16* | | -51 | | | | | ◆ Site Area SA345 (0d) |
| ZONE 1 (Ch. 5640 to 5880) | | | | | | | | | | | | |
| Noise Barrier Along TWSR-West and Laying New Utilities | | | | | | | | | | | | |
| NB42 (Ch.5640-5740)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00114 | NB42 (bay 303) - Footing & Wall Structure - 1 bays - VO | 51.11% | 22 | 45 | 21-Dec-15 A | 23-Feb-16 | 28 | | | | | |
| NB00115 | NB42 (Ch5640-5740) - Backfilling | 0% | 12 | 12 | 13-Apr-16 | 26-Apr-16 | 4 | | | | | |
| NB00120 | NB42 (Ch5640-5740) - NB production | 81.33% | 14 | 75 | 20-Oct-15 A | 02-Feb-16 | 1202 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10130 | Watermain installation (along NB42) | 0% | 30 | 30 | 20-Jan-16 | 03-Mar-16 | 4 | | | | | |
| TSZ10140 | Firemain installation (along NB42) | 0% | 30 | 30 | 04-Mar-16 | 12-Apr-16 | 4 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20250 | Utility cable laying (Along NB42 bay 303 VO) | 0% | 14 | 14 | 24-Feb-16 | 10-Mar-16 | 28 | | | | | |
| NB42A (Ch.5750-5810)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00195 | NB42A (Ch5750-5810) - backfilling | 0% | 12 | 12 | 11-Mar-16 | 24-Mar-16 | 28 | | | | | |
| NB00200 | NB42A (Ch5750-5810) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1171 | | | | | |
| NB00210 | NB42A (Ch5750-5810) - NB post & panel installation | 0% | 5 | 5 | 29-Mar-16 | 02-Apr-16 | 928 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10180 | Watermain installation (along NB42A) | 20% | 16 | 20 | 11-Dec-15 A | 06-Feb-16 | 28 | | | | | |
| TSZ10190 | Firemain installation (along NB42A) | 0% | 20 | 20 | 17-Feb-16 | 10-Mar-16 | 28 | | | | | |
| NB47B (Ch.5820-5880)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00235 | NB47B (Ch5820-5880)- backfilling | 0% | 12 | 12 | 01-Apr-16 | 15-Apr-16 | 13 | | | | | |
| NB00240 | NB47B (Ch5820-5880) - NB production | 81.33% | 14 | 75 | 20-Oct-15 A | 02-Feb-16 | 1202 | | | | | |
| NB00250 | NB47B (Ch5820-5880)- NB post & panel installation | 0% | 5 | 5 | 16-Apr-16 | 21-Apr-16 | 913 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10230 | Watermain installation (along NB47B) | 71.58% | 27 | 95 | 21-Sep-15 A | 29-Feb-16 | 1284 | | | | | |
| TSZ10240 | Firemain installation (along NB47B) | 1.92% | 51 | 52 | 13-Nov-15 A | 31-Mar-16 | 13 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ10121 | Utility cable laying by Utility companies (along bay 311A) | 0% | 14 | 14 | 23-Dec-15 A | 04-Feb-16 | 50 | | | | | |
| Noise Barrier Along Fanling Highway S/B | | | | | | | | | | | | |
| NB44 (Ch.5700-5760)-FH S/B Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB01390 | NB44 - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1171 | | | | | |
| NB01400 | NB44 - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 945 | | | | | |
| NB45 (Ch.5760-5820)-FH S/B Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB01440 | NB45 - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1171 | | | | | |
| NB01450 | NB45 - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 945 | | | | | |
| NB46 (Ch.5820-5880)-FH S/B Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB01490 | NB46 - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1171 | | | | | |
| NB01500 | NB46 - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 945 | | | | | |
| ZONE 2 (Ch. 5880 to 6930) | | | | | | | | | | | | |
| Noise Barrier Along TWSR-West and Laying New Utilities | | | | | | | | | | | | |
| Site Clearance & Demolition of Existing Structure | | | | | | | | | | | | |
| Demolition Work | | | | | | | | | | | | |
| Z2.P2N.1250 | Construction of proposed SHRINE | 0% | 165 | 165 | 20-Jan-16 | 17-Aug-16 | 796 | | | | | |
| NB47 (Ch.5880-5930)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00270 | NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays | 89.37% | 27 | 254 | 11-Mar-15 A | 29-Feb-16 | 67 | | | | | |
| NB00280 | NB47 (Ch5880-5930)- NB production | 0% | 45 | 45 | 01-Mar-16 | 14-Apr-16 | 1105 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10260 | DSD Trunk Sewer laying (along NB47) | 91.15% | 10 | 113 | 17-Aug-15 A | 30-Jan-16 | 26 | | | | | |
| TSZ10270 | Backfill up to NB47 footing level | 0% | 6 | 6 | 01-Feb-16 | 06-Feb-16 | 26 | | | | | |
| TSZ10280 | Watermain installation (along NB47) | 0% | 26 | 26 | 17-Feb-16 | 17-Mar-16 | 26 | | | | | |
| TSZ10290 | Firemain installation (along NB47) | 0% | 26 | 26 | 18-Mar-16 | 21-Apr-16 | 26 | | | | | |

| | | | | | | | |
|--|---------------------------------|---|--|-----------|-----------|----|----------|
| | Project ID: DWP Rev 02 (1601) | Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Jan-16) | | Date | Revision | C. | Appro... |
| | Layout: 3 Month Rolling Program | | | 13-Mar... | WP Rev 1 | | |
| | Page 1 of 7 | | | 30-Jun... | WP Rev... | | |

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | |
|---|---|-----------------|---------------|-------------------|-------------|-----------|-------------|------|-----|-----|-----|-----|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr |
| NB47A (Ch.5950-5975)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00330 | NB47A - backfilling | 95.9% | 5 | 122 | 07-Sep-15 A | 09-Mar-16 | 41 | | | | | |
| NB00335 | Backfilling (Along NB47A-above ID1) | 94.95% | 5 | 99 | 06-Oct-15 A | 09-Mar-16 | 41 | | | | | |
| NB00340 | NB47A - NB production | 81.33% | 14 | 75 | 20-Oct-15 A | 02-Feb-16 | 1177 | | | | | |
| NB00350 | NB47A - NB post & panel installation | 0% | 5 | 5 | 10-Mar-16 | 15-Mar-16 | 921 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20110 | Utility cable laying by Utility companies (Alona NB47A) | 0% | 30 | 30 | 20-Jan-16 | 03-Mar-16 | 41 | | | | | |
| UUZ20240 | Utility cable laying by Utility companies (Alona NB47A-above) | 0% | 30 | 30 | 13-Jan-16 A | 03-Mar-16 | 41 | | | | | |
| NB48 (Ch.5995-6120)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00390 | NB48 (Ch5995-6060) - backfilling | 0% | 12 | 12 | 11-Apr-16 | 23-Apr-16 | 6 | | | | | |
| NB00400 | NB48 (Ch5995-6060) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | |
| NB00450 | NB48 (Ch6060-6120) - backfilling | 0% | 12 | 12 | 13-Apr-16 | 26-Apr-16 | 4 | | | | | |
| NB00460 | NB48 (Ch6060-6120) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10420 | Backfill up to NB48, 0-60m footing level | 79.03% | 13 | 62 | 24-Oct-15 A | 03-Feb-16 | 6 | | | | | |
| TSZ10430 | Watermain installation (along NB48, 0-60m) | 0% | 30 | 30 | 04-Feb-16 | 18-Mar-16 | 6 | | | | | |
| TSZ10440 | Firemain installation (along NB48, 0-60m) | 0% | 30 | 30 | 02-Mar-16 | 09-Apr-16 | 6 | | | | | |
| TSZ10460 | DSD Trunk Sewer laying (along NB48, 60-110m) | 70.59% | 15 | 51 | 31-Oct-15 A | 05-Feb-16 | 4 | | | | | |
| TSZ10470 | Backfill up to NB48, 60-110m footing level | 0% | 6 | 6 | 06-Feb-16 | 22-Feb-16 | 4 | | | | | |
| TSZ10480 | Watermain installation (along NB48, 60-110m) | 0% | 26 | 26 | 23-Feb-16 | 23-Mar-16 | 4 | | | | | |
| TSZ10490 | Firemain installation (along NB48, 60-110m) | 0% | 26 | 26 | 09-Mar-16 | 12-Apr-16 | 4 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20120 | Utility cable laying by Utility companies (Alona NB48, 0-60m) | 0% | 24 | 24 | 20-Jan-16 | 25-Feb-16 | 40 | | | | | |
| UUZ20130 | Utility cable laying by Utility companies (Alona NB48, 60-110m) | 0% | 20 | 20 | 20-Jan-16 | 20-Feb-16 | 44 | | | | | |
| NB49 (Ch.6145-6215)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00510 | NB49 - Footing & Wall Structure - 4 bavs | 82.46% | 10 | 57 | 11-Nov-15 A | 30-Jan-16 | 12 | | | | | |
| NB00530 | NB49 - NB production | 0% | 45 | 45 | 30-Jan-16 | 15-Mar-16 | 1135 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10500 | Sheet Piling & Excavation (~7m below ground) (alona NB49) | 0% | 14 | 14 | 01-Feb-16 | 25-Feb-16 | 12 | | | | | |
| TSZ10510 | DSD Trunk Sewer laying (along NB49) | 0% | 12 | 12 | 26-Feb-16 | 10-Mar-16 | 12 | | | | | |
| TSZ10520 | Backfill up to NB49 footing level | 0% | 6 | 6 | 11-Mar-16 | 17-Mar-16 | 12 | | | | | |
| TSZ10530 | Watermain installation (along NB49) | 0% | 20 | 20 | 18-Mar-16 | 14-Apr-16 | 12 | | | | | |
| TSZ10540 | Firemain installation (along NB49) | 0% | 20 | 20 | 15-Apr-16 | 09-May-16 | 12 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20140 | Utility cable laying by Utility companies (Alona NB49, 0-70m) | 0% | 30 | 30 | 01-Feb-16 | 15-Mar-16 | 36 | | | | | |
| NB49B (Ch.6215-6235)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00550 | NB49B piling (0.19m -20no) | 0% | 21 | 21 | 28-Jan-16* | 01-Mar-16 | 0 | | | | | |
| NB00560 | NB49B- Sheet piling & Excavation | 0% | 6 | 6 | 11-Jan-16 A | 26-Jan-16 | 1 | | | | | |
| NB00570 | NB49B - Footing & Wall Structure - 2 bavs | 0% | 21 | 21 | 15-Mar-16 | 12-Apr-16 | 4 | | | | | |
| NB00580 | NB49B - backfilling | 0% | 12 | 12 | 13-Apr-16 | 26-Apr-16 | 4 | | | | | |
| NB00590 | NB49B - NB production | 0% | 45 | 45 | 13-Apr-16 | 27-May-16 | 1062 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10550 | Sheet Piling & Excavation (~5m below ground) (alona NB49B) | 0% | 21 | 21 | 02-Mar-16 | 29-Mar-16 | 4 | | | | | |
| TSZ10570 | DSD Trunk Sewer laying (along NB49B - ID2-1) | 0% | 34 | 34 | 30-Mar-16 | 10-May-16 | 6 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20150 | Utility cable laying by Utility companies (Alona NB49B, 0-16m) | 0% | 10 | 10 | 13-Apr-16 | 23-Apr-16 | 6 | | | | | |
| NB54 (Ch.6240-6280)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00700 | NB54 - backfilling | 0% | 12 | 12 | 13-Apr-16 | 26-Apr-16 | 34 | | | | | |
| NB00710 | NB54 - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10630 | Watermain installation (along NB54) | 0% | 30 | 30 | 20-Jan-16 | 03-Mar-16 | 34 | | | | | |
| TSZ10640 | Firemain installation (along NB54) | 0% | 30 | 30 | 04-Mar-16 | 12-Apr-16 | 34 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20160 | Utility cable laying by Utility companies (Alona NB54, 0-40m) | 0% | 20 | 20 | 21-Jan-16 A | 20-Feb-16 | 56 | | | | | |
| NB54A (Ch.6290-6350)-TWSR West Side | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | |
| NB00760 | NB54A - Footing & Wall Structure - 6 bavs | 80.43% | 27 | 138 | 01-Aug-15 A | 29-Feb-16 | 25 | | | | | |
| NB00780 | NB54A - NB production | 0% | 45 | 45 | 01-Mar-16 | 14-Apr-16 | 1105 | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | |
| TSZ10660 | DSD Trunk Sewer laying (along NB54A) | 30.77% | 27 | 39 | 26-Nov-15 A | 29-Feb-16 | 16 | | | | | |
| TSZ10670 | Backfill up to NB54A footing level | 0% | 6 | 6 | 01-Mar-16 | 07-Mar-16 | 16 | | | | | |
| TSZ10680 | Watermain installation (along NB54A) | 0% | 30 | 30 | 08-Mar-16 | 15-Apr-16 | 16 | | | | | |
| TSZ10690 | Firemain installation (along NB54A) | 0% | 30 | 30 | 29-Mar-16 | 04-May-16 | 16 | | | | | |
| Underground Utility Works | | | | | | | | | | | | |
| UUZ20170 | Utility cable laying by Utility companies (Alona NB54A, 0-60m) | 0% | 24 | 24 | 01-Mar-16 | 31-Mar-16 | 25 | | | | | |
| NB57 (Ch.6365-6445)-TWSR West Side | | | | | | | | | | | | |

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | | | | | |
|---|---|-----------------|---------------|-------------------|-------------|-----------|-------------|------------|-----|-----|-----|-----|--|--|--|--|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr | | | | |
| Noise Barrier Works | | | | | | | | | | | | | | | | |
| NB00830 | NB57 - Footing & Wall Structure - 7 bavs | 96.69% | 11 | 332 | 15-Dec-14 A | 29-Feb-16 | 67 | ██████████ | | | | | | | | |
| NB00840 | NB57 - backfilling | 0% | 12 | 12 | 01-Mar-16 | 14-Mar-16 | 67 | | | | | | | | | |
| NB00850 | NB57 - NB production | 0% | 45 | 45 | 01-Mar-16 | 14-Apr-16 | 1105 | | | | | | | | | |
| NB00860 | NB57 - NB post & panel installation | 0% | 5 | 5 | 15-Apr-16 | 20-Apr-16 | 894 | | | | | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | | | | | |
| TSZ10710 | DSD Trunk Sewer laying (along NB57) | 23.81% | 16 | 21 | 15-Dec-15 A | 06-Feb-16 | 16 | ██████████ | | | | | | | | |
| TSZ10720 | Backfill up to NB57 footing level | 0% | 6 | 6 | 17-Feb-16 | 23-Feb-16 | 16 | | | | | | | | | |
| TSZ10730 | Watermain installation (along NB57) | 0% | 30 | 30 | 24-Feb-16 | 01-Apr-16 | 35 | | | | | | | | | |
| TSZ10740 | Firemain installation (along NB57) | 0% | 30 | 30 | 02-Apr-16 | 09-May-16 | 35 | | | | | | | | | |
| TSZ10785 | PCCW drawpit by Pccw | 0% | 16 | 16 | 29-Jan-16* | 25-Feb-16 | 0 | | | | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | | | | |
| UZZ20180 | Utility cable laying by Utility companies (Along NB57. 0-80m) | 0% | 33 | 33 | 01-Mar-16 | 12-Apr-16 | 16 | | | | | | | | | |
| NB58 (Ch.6445-6480)-TWSR West Side | | | | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | | | | |
| NB00900 | NB58 - Footing & Wall Structure - 3 bavs | 77.12% | 27 | 118 | 15-Sep-15 A | 29-Feb-16 | 29 | ██████████ | | | | | | | | |
| NB00910 | NB58 - backfilling | 0% | 12 | 12 | 16-Apr-16 | 29-Apr-16 | 31 | | | | | | | | | |
| NB00920 | NB58 - NB production | 0% | 45 | 45 | 01-Mar-16 | 14-Apr-16 | 1105 | | | | | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | | | | | |
| TSZ10750 | Sheet Piling & Excavation (~5m below ground) (along NB58) | 44.83% | 16 | 29 | 17-Dec-15 A | 06-Feb-16 | 13 | ██████████ | | | | | | | | |
| TSZ10760 | DSD Trunk Sewer laying (along NB58) | 0% | 27 | 27 | 17-Feb-16 | 18-Mar-16 | 13 | | | | | | | | | |
| TSZ10780 | Watermain installation (along NB58) | 0% | 20 | 20 | 02-Mar-16 | 24-Mar-16 | 16 | | | | | | | | | |
| TSZ10790 | Firemain installation (along NB58) | 0% | 20 | 20 | 29-Mar-16 | 21-Apr-16 | 16 | | | | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | | | | |
| UZZ20190 | Utility cable laying by Utility companies (Along NB58. 0-45m) | 0% | 20 | 20 | 19-Mar-16 | 15-Apr-16 | 13 | | | | | | | | | |
| NB59 (Ch.6490-6590)-TWSR West Side | | | | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | | | | |
| NB00970 | NB59 - Footing & Wall Structure - 9 bavs | 80.9% | 51 | 267 | 02-May-15 A | 31-Mar-16 | 13 | ██████████ | | | | | | | | |
| NB00990 | NB59 - NB production | 0% | 45 | 45 | 01-Apr-16 | 15-May-16 | 1062 | | | | | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | | | | | |
| TSZ10810 | DSD Trunk Sewer laying (along NB59) | 89.73% | 27 | 263 | 08-Apr-15 A | 29-Feb-16 | 13 | ██████████ | | | | | | | | |
| TSZ10820 | Backfill up to NB59 footing level | 0% | 24 | 24 | 01-Mar-16 | 31-Mar-16 | 13 | | | | | | | | | |
| TSZ10830 | Watermain installation (along NB59) | 0% | 30 | 30 | 01-Apr-16 | 07-May-16 | 103 | | | | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | | | | |
| UZZ20200 | Utility cable laying by Utility companies (Along NB59. 0-95m) | 0% | 12 | 12 | 01-Apr-16 | 15-Apr-16 | 13 | | | | | | | | | |
| NB63 (Ch.6610-6700)-TWSR West Side | | | | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | | | | |
| NB01030 | NB63 - backfilling | 0% | 12 | 12 | 09-Mar-16 | 22-Mar-16 | 30 | | | | | | | | | |
| NB01040 | NB63 - NB production | 0% | 45 | 45 | 20-Jan-16 A | 04-Mar-16 | 1146 | | | | | | | | | |
| NB01050 | NB63 - NB post & panel installation | 0% | 5 | 5 | 23-Mar-16 | 31-Mar-16 | 910 | | | | | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | | | | | |
| TSZ10310 | DSD Trunk Sewer laying (along NB63) | 65.07% | 51 | 146 | 24-Sep-15 A | 31-Mar-16 | 18 | ██████████ | | | | | | | | |
| TSZ10330 | Watermain installation (along NB63) | 0% | 30 | 30 | 01-Apr-16 | 07-May-16 | 18 | | | | | | | | | |
| DSD Southern Trunk Sewer - Trenchless Construction | | | | | | | | | | | | | | | | |
| TSZ10980 | Backfilling of jacking pits | 68.75% | 10 | 32 | 14-Dec-15 A | 30-Jan-16 | 102 | ██████████ | | | | | | | | |
| TSZ11020 | Watermain & Firemain installation above Trunk Sewer | 46% | 27 | 50 | 14-Dec-15 A | 29-Feb-16 | 65 | ██████████ | | | | | | | | |
| TSZ11025 | Town gas pipe laying (change of design) | 0% | 20 | 20 | 01-Mar-16* | 23-Mar-16 | 65 | | | | | | | | | |
| TSZ11035 | DSD trunk sewer along NB63 | 94.48% | 8 | 145 | 10-Jul-15 A | 28-Jan-16 | 104 | ██████████ | | | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | | | | |
| UZZ20230 | Utility cable laying by Utility companies (Along NB63-100m) | 89.47% | 34 | 323 | 27-Dec-14 A | 08-Mar-16 | 30 | ██████████ | | | | | | | | |
| Bridge Construction | | | | | | | | | | | | | | | | |
| New Tai Hang Footbridge | | | | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | | | |
| THBF0335 | Structure steel Shop drawing approval (THFB) | 99.03% | 3 | 310 | 04-Dec-14 A | 22-Jan-16 | 1308 | ██████████ | | | | | | | | |
| THBF0340 | Structure steel procurement (THFB) | 36.78% | 153 | 242 | 22-Sep-15 A | 20-Jun-16 | 106 | ██████████ | | | | | | | | |
| TWSR-West/ FL Highway N/B Side Section | | | | | | | | | | | | | | | | |
| THBF0140 | THP5 - Pile cap, Pier and Pier Head | 69.32% | 27 | 88 | 31-Oct-15 A | 29-Feb-16 | 217 | ██████████ | | | | | | | | |
| THBF0180 | THP8, THP9 - Pile cap, Pier and Pier Head | 84.48% | 27 | 174 | 13-Jul-15 A | 29-Feb-16 | 357 | ██████████ | | | | | | | | |
| THBF0220 | THAB3 - pile cap & abutment wall | 10% | 27 | 30 | 21-Dec-15 A | 29-Feb-16 | 330 | ██████████ | | | | | | | | |
| THBF0230 | THAB3 - Backfilling (~4m) | 0% | 27 | 27 | 01-Mar-16 | 05-Apr-16 | 330 | | | | | | | | | |
| THBF0235 | Steel Staircase ready for erection (THFB-TWSR-W side) | 0% | 0 | 0 | | 05-Apr-16 | 330 | | | | | | | | | |
| THBF0270 | THP6, THP7 - Pile cap, Pier and Pier Head | 0% | 30 | 30 | 01-Mar-16 | 08-Apr-16 | 237 | | | | | | | | | |
| THBF0310 | THAB2 - pile cap & abutment wall | 0% | 30 | 30 | 01-Mar-16 | 08-Apr-16 | 217 | | | | | | | | | |
| THBF0320 | THAB2 - Backfilling (~3m) | 0% | 20 | 20 | 09-Apr-16 | 03-May-16 | 217 | | | | | | | | | |
| TWSR-East FL Highway S/B Side Section | | | | | | | | | | | | | | | | |
| THBF0450 | THAB1 - Pre-bored H pile (4 nos) | 0% | 12 | 12 | 17-Feb-16 | 02-Mar-16 | 188 | | | | | | | | | |
| THBF0460 | THAB1 - Pile Test | 0% | 28 | 28 | 02-Mar-16 | 30-Mar-16 | 232 | | | | | | | | | |
| THBF0470 | THAB1 - pile cap & abutment wall | 0% | 30 | 30 | 16-Mar-16 | 25-Apr-16 | 188 | | | | | | | | | |
| THBF0510 | THP2 - Pile Test | 0% | 28 | 28 | 20-Jan-16 | 16-Feb-16 | 337 | | | | | | | | | |
| THBF0720 | THP3 - Pile Test | 0% | 28 | 28 | 20-Jan-16 | 16-Feb-16 | 337 | | | | | | | | | |
| THBF0730 | THP3 - Pile cap, Pier and Pier Head | 0% | 45 | 45 | 03-Feb-16 | 08-Apr-16 | 267 | | | | | | | | | |

05-Apr-16 ♦ Steel Stair

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | | |
|---|--|-----------------|---------------|-------------------|-------------|-----------|-------------|------|-----|-----|-----|-----|------------------------------------|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr | |
| THBF0760 | THP4 - Pile Test | 0% | 28 | 28 | 20-Jan-16 | 16-Feb-16 | 299 | | | | | | |
| THBF0770 | THP4 - Pile cap, Pier and Pier Head | 0% | 45 | 45 | 03-Feb-16 | 08-Apr-16 | 237 | | | | | | |
| THBF0780 | Modified existing column head of existing footbridge | 0% | 30 | 30 | 09-Apr-16 | 16-May-16 | 237 | | | | | | |
| Lift at TWSR-W Side | | | | | | | | | | | | | |
| L1490 | Pile test | 0% | 30 | 30 | 20-Jan-16 | 03-Mar-16 | 77 | | | | | | |
| L1500 | Temp work & Pile cap | 0% | 45 | 45 | 04-Mar-16 | 29-Apr-16 | 77 | | | | | | |
| L1556 | Lift contractor sub-letting | 76.72% | 27 | 116 | 21-Sep-15 A | 29-Feb-16 | 9 | | | | | | |
| L1557 | Lift submission & ordering period | 0% | 270 | 270 | 01-Mar-16 | 25-Jan-17 | 9 | | | | | | |
| L1600 | CLP Power available (by CLP) | 0% | 365 | 365 | 20-Jan-16 | 18-Jan-17 | 114 | | | | | | |
| Lift at FLHY S/B | | | | | | | | | | | | | |
| L1345 | THB (E) - Pre-bored H pile - NF78 (8 nos) | 30% | 17 | 24 | 31-Dec-15 A | 17-Feb-16 | 37 | | | | | | |
| L1350 | Temp work & Pier cap | 0% | 60 | 60 | 17-Feb-16 | 03-May-16 | 37 | | | | | | |
| L1450 | CLP Power available (by CLP) | 0% | 365 | 365 | 20-Jan-16 | 18-Jan-17 | 118 | | | | | | |
| New Tai Wo Footbridge | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | |
| TWFB1030 | Structure steel Shop drawing approval (TWFB) | 91.1% | 30 | 337 | 04-Dec-14 A | 03-Mar-16 | 141 | | | | | | |
| TWFB1040 | Structure steel procurement (TWFB) | 57.69% | 88 | 208 | 22-Aug-15 A | 16-Apr-16 | 130 | | | | | | |
| TWFB1050 | Steel Staircase & Ramp prefabrication (TWFB-TWSR-W) | 0% | 60 | 60 | 18-Apr-16 | 29-Jun-16 | 107 | | | | | | |
| TWFB1090 | Steel Bridge prefabrication (TWFB) | 0% | 60 | 60 | 18-Apr-16 | 29-Jun-16 | 717 | | | | | | |
| TWSR-West/ FL Highway NB Side Section | | | | | | | | | | | | | |
| TWFB1160 | TWP1 - Pile cap, Pier and Pier Head | 0% | 19 | 19 | 20-Jan-16 | 19-Feb-16 | 242 | | | | | | |
| TWFB1240 | TWAB2 - pile cap & abutment wall | 0% | 30 | 30 | 20-Feb-16 | 29-Mar-16 | 795 | | | | | | |
| TWFB1250 | TWAB2 - Backfilling (~4m) | 0% | 27 | 27 | 30-Mar-16 | 30-Apr-16 | 795 | | | | | | |
| TWFB1300 | TWP4, TWP5 - Pile cap, Pier and Pier Head | 28.95% | 27 | 38 | 16-Nov-15 A | 29-Feb-16 | 82 | | | | | | |
| TWFB1340 | TWAB1 - pile cap & abutment wall | 61.97% | 27 | 71 | 22-Oct-15 A | 29-Feb-16 | 67 | | | | | | |
| TWFB1350 | TWAB1 - Backfilling (~3m) | 0% | 20 | 20 | 01-Mar-16 | 23-Mar-16 | 184 | | | | | | |
| TWFB1360 | Steel Ramp ready for erection (TWFB-TWSR-W side) | 0% | 0 | 0 | | 23-Mar-16 | 184 | | | | | | 23-Mar-16 ♦ Steel Ramp ready for e |
| Lift at TWSR-W Side | | | | | | | | | | | | | |
| L1650 | Temp work & Pile cap | 0% | 45 | 45 | 21-Dec-15 A | 21-Mar-16 | 654 | | | | | | |
| L1660 | Lift pit | 0% | 30 | 30 | 22-Mar-16 | 29-Apr-16 | 654 | | | | | | |
| L1720 | Lift contractor sub-letting | 82.22% | 16 | 90 | 21-Sep-15 A | 06-Feb-16 | 571 | | | | | | |
| L1730 | Lift submission & ordering period | 0% | 270 | 270 | 17-Feb-16 | 12-Jan-17 | 571 | | | | | | |
| L1780 | CLP Power available (by CLP) | 0% | 365 | 365 | 20-Jan-16 | 18-Jan-17 | 788 | | | | | | |
| Temporary Tai Wo Footbridge | | | | | | | | | | | | | |
| Design Works | | | | | | | | | | | | | |
| TWFB-T1010 | Design preparation | 96.27% | 5 | 134 | 20-Jul-15 A | 25-Jan-16 | 134 | | | | | | |
| TWFB-T1020 | Engineer Comment | 0% | 26 | 26 | 26-Jan-16 | 04-Mar-16 | 134 | | | | | | |
| TWFB-T1030 | Design amendment | 0% | 26 | 26 | 05-Mar-16 | 08-Apr-16 | 134 | | | | | | |
| TWFB-T1040 | Design Available | 0% | 0 | 0 | | 08-Apr-16 | 134 | | | | | | 08-Apr-16 ♦ Design A |
| Construction Works | | | | | | | | | | | | | |
| TWFB-T1208 | Erect Temp Column & link bridge to existing bridge at FLHY S/B | 0% | 150 | 150 | 09-Apr-16 | 07-Oct-16 | 243 | | | | | | |
| Demolition of Existing Tai Wo Footbridge | | | | | | | | | | | | | |
| TWSR-West/ FL Highway NB Side Section | | | | | | | | | | | | | |
| TWFB-T1230 | Watermain & Firemain at NB58 & backfill | 0% | 52 | 52 | 02-Mar-16 | 06-May-16 | 16 | | | | | | |
| Noise Barrier Along Fanling Highway S/B | | | | | | | | | | | | | |
| NB51 (Ch.5935-6055)-FH S/B Side | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB02280 | NB51 ID1-3 (0-25m) - Footing & Wall Structure | 0% | 90 | 90 | 20-Jan-16 | 19-May-16 | 483 | | | | | | |
| NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area) | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB02430 | Precautionary Measure installation | 0% | 26 | 26 | 20-Jan-16 | 27-Feb-16 | 668 | | | | | | |
| NB02440 | NB53 (0-100m) - Sheet piling & Excavation | 0% | 26 | 26 | 29-Feb-16 | 01-Apr-16 | 668 | | | | | | |
| NB02450 | NB53 (0-100m) - Footing & Wall Structure | 0% | 60 | 60 | 02-Apr-16 | 15-Jun-16 | 668 | | | | | | |
| NB02490 | NB53 ID2-3 (100-125m), 18nos Predrilling | 0% | 10 | 10 | 12-Mar-16 | 23-Mar-16 | 751 | | | | | | |
| NB02500 | NB53 ID2-3 (100-125m) 18nos Piling- 1 rias | 0% | 27 | 27 | 24-Mar-16 | 28-Apr-16 | 751 | | | | | | |
| NB02590 | NB53 (125-180m) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | | |
| NB02600 | NB53 (125-180m) - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 925 | | | | | | |
| NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area) | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB02640 | NB55 - Footing & Wall Structure | 93.22% | 24 | 354 | 07-Nov-14 A | 25-Feb-16 | 751 | | | | | | |
| NB02650 | NB55- backfilling | 0% | 50 | 50 | 26-Feb-16 | 28-Apr-16 | 751 | | | | | | |
| NB02660 | NB55 - NB production | 0% | 45 | 45 | 26-Feb-16 | 10-Apr-16 | 1109 | | | | | | |
| NB02670 | NB55 - NB post & panel installation | 0% | 5 | 5 | 11-Apr-16 | 15-Apr-16 | 898 | | | | | | |
| NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area) | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB02730 | NB56 - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | | |
| NB02740 | NB56 - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 925 | | | | | | |
| NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area) | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB02770 | NB61 (0-50m) - Sheet piling & Excavation | 0% | 18 | 18 | 20-Jan-16 | 18-Feb-16 | 843 | | | | | | |
| NB02780 | NB61 (0-50m) - Footing & Wall Structure | 0% | 50 | 50 | 19-Feb-16 | 21-Apr-16 | 843 | | | | | | |

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | | |
|--|---|-----------------|---------------|-------------------|-------------|-----------|-------------|------|-----|-----|-----|-----|--|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr | |
| NB02850 | NB61 (50-160m) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | | |
| NB02860 | NB61 (50-160m) - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 925 | | | | | | |
| NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area) | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB02920 | NB61A (0-50m) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | | |
| NB02930 | NB61A (0-50m) - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 925 | | | | | | |
| NB02970 | NB61A ID2-3 (50-75m) - Footing & Wall Structure | 87.1% | 32 | 248 | 01-Apr-15 A | 05-Mar-16 | 889 | | | | | | |
| NB02980 | NB61A ID2-3 (50-75m)- backfilling | 0% | 20 | 20 | 07-Mar-16 | 01-Apr-16 | 904 | | | | | | |
| NB02990 | NB61A ID2-3 (50-75m) - NB production | 0% | 45 | 45 | 05-Mar-16 | 19-Apr-16 | 1100 | | | | | | |
| NB03000 | NB61A ID2-3 (50-75m) - NB post & panel installation | 0% | 5 | 5 | 19-Apr-16 | 25-Apr-16 | 890 | | | | | | |
| NB03040 | NB61A (75-190m) - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 1146 | | | | | | |
| NB03050 | NB61A (75-190m) - NB post & panel installation | 0% | 5 | 5 | 05-Mar-16 | 10-Mar-16 | 925 | | | | | | |
| Other Works | | | | | | | | | | | | | |
| Site Clearance & Demolition of Existing Structure | | | | | | | | | | | | | |
| Contract Condition | | | | | | | | | | | | | |
| MCLT1050 | Apply cert for exemption by DLO by Engineer | 0% | 0 | 0 | 20-Jan-16 | 20-Jan-16 | 1311 | | | | | | |
| MCLT1080 | Construct New MCLT (Structure) | 83.33% | 27 | 162 | 21-Jul-15 A | 29-Feb-16 | 77 | | | | | | |
| MCLT1090 | New MCLT - finishes works | 0% | 75 | 75 | 01-Mar-16 | 02-Jun-16 | 77 | | | | | | |
| TCCS Works | | | | | | | | | | | | | |
| G54 | | | | | | | | | | | | | |
| TCCS1500 | Slow lane footing - G54 (NB61) | 0% | 0 | 0 | | 20-Jan-16 | 811 | | | | | | |
| 20-Jan-16 ♦ Slow lane footing - G54 (NB61) | | | | | | | | | | | | | |
| South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930) | | | | | | | | | | | | | |
| Noise Barrier Along TWSR-West and Laying New Utilities | | | | | | | | | | | | | |
| NB63A (Ch.6710-6840)-TWSR West Side | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB01090 | NB63A-1 - NB production | 0% | 45 | 45 | 20-Jan-16 | 04-Mar-16 | 542 | | | | | | |
| NB01120 | NB63A-2 - Footing & Wall Structure (ch10.7-24.2) - 1 bays | 0% | 40 | 30 | 18-Jan-16 A | 15-Mar-16 | 24 | | | | | | |
| NB01140 | NB63A-2 - NB production | 0% | 45 | 45 | 16-Mar-16 | 29-Apr-16 | 486 | | | | | | |
| NB01170 | NB63A-3 - Footing & Wall Structure (ch24.2-86.9) - 5 bays | 0% | 50 | 50 | 18-Jan-16 A | 05-Apr-16 | 10 | | | | | | |
| NB01190 | NB63A-3 - NB production | 0% | 45 | 45 | 06-Apr-16 | 20-May-16 | 465 | | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | | |
| TSZ10850 | Sheet Piling & Excavation (~6m below ground) (along NB63A) | 0% | 40 | 20 | 18-Jan-16 A | 15-Mar-16 | 10 | | | | | | |
| TSZ10860 | DSD Trunk Sewer laying (along NB63A) | 0% | 26 | 26 | 24-Feb-16 | 24-Mar-16 | 10 | | | | | | |
| TSZ10870 | Backfill up to NB63A footing level | 0% | 6 | 6 | 29-Mar-16 | 05-Apr-16 | 10 | | | | | | |
| TSZ10880 | Watermain installation (along NB63A) | 0% | 30 | 30 | 06-Apr-16 | 11-May-16 | 25 | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | |
| UUZ20210 | Utility cable laying by Utility companies (Along NB63A, 125m) | 0% | 12 | 12 | 06-Apr-16 | 19-Apr-16 | 10 | | | | | | |
| NB64 & NB64A (Ch.6860-6920)-TWSR West Side | | | | | | | | | | | | | |
| Noise Barrier Works | | | | | | | | | | | | | |
| NB001030 | NB64 & NB64A -Footing & Wall Structure - 7 bays | 95.28% | 10 | 212 | 19-May-15 A | 30-Jan-16 | 6 | | | | | | |
| NB001050 | NB64 & NB64A -NB production | 0% | 45 | 45 | 30-Jan-16 | 15-Mar-16 | 531 | | | | | | |
| DSD Southern Trunk Sewer, Water Main Fire Main Works | | | | | | | | | | | | | |
| TSZ10910 | DSD Trunk Sewer laying (along NB64) | 0% | 18 | 18 | 01-Feb-16 | 01-Mar-16 | 6 | | | | | | |
| TSZ10920 | Backfill up to NB64 footing level | 0% | 6 | 6 | 02-Mar-16 | 08-Mar-16 | 6 | | | | | | |
| TSZ10930 | Watermain installation (along NB64) | 0% | 30 | 30 | 09-Mar-16 | 16-Apr-16 | 6 | | | | | | |
| TSZ10940 | Firemain installation (along NB64) | 0% | 30 | 30 | 18-Apr-16 | 24-May-16 | 6 | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | |
| UUZ20220 | Utility cable laying by Utility companies (Along NB64, 60m) | 0% | 24 | 24 | 02-Mar-16 | 01-Apr-16 | 24 | | | | | | |
| Bridge Construction | | | | | | | | | | | | | |
| Kau Lung Hang Vehicular Bridge | | | | | | | | | | | | | |
| KLH Bridge - West Ramp | | | | | | | | | | | | | |
| Z2.KLH.1140 | West Ramp - Backfilling (5m-Dx112m-L)-change to Rock fill | 86.26% | 25 | 182 | 15-Jun-15 A | 26-Feb-16 | 21 | | | | | | |
| Z2.KLH.1230 | West Ramp - Road Slab | 0% | 45 | 45 | 27-Feb-16 | 23-Apr-16 | 21 | | | | | | |
| KLH Bridge - Deck 1 | | | | | | | | | | | | | |
| Z2.KLH.1120 | Deck 1 - Bridge deck construction (West Abutment to VBP1) | 89.25% | 10 | 93 | 10-Oct-15 A | 30-Jan-16 | 81 | | | | | | |
| Z2.KLH.1125 | Deck 1 - Bridge deck construction (VBP1 to VBP2) | 88.24% | 10 | 85 | 20-Oct-15 A | 30-Jan-16 | 81 | | | | | | |
| Z2.KLH.1130 | Deck 1 - Bridge deck construction (VBP2 to VBP3) | 0% | 62 | 62 | 20-Jan-16 | 14-Apr-16 | 29 | | | | | | |
| Z2.KLH.1650 | Deck 1 deck complete | 0% | 0 | 0 | | 14-Apr-16 | 29 | | | | | | |
| KLH Bridge - Ramp R1 | | | | | | | | | | | | | |
| Z2.KLH.1450 | Ramp R1 - Pile caps and pier construction (R1P1) | 74.38% | 41 | 160 | 02-Jul-15 A | 16-Mar-16 | 71 | | | | | | |
| Z2.KLH.1670 | Ramp R1 - Pile caps and pier construction (R1P3) | 36.84% | 48 | 76 | 20-Oct-15 A | 24-Mar-16 | 64 | | | | | | |
| Z2.KLH.1680 | Ramp R1 - Ramp construction (Abutment R1 to R1P1) | 0% | 45 | 45 | 17-Mar-16 | 13-May-16 | 71 | | | | | | |
| Z2.KLH.1685 | Ramp R1 - Ramp construction (R1P1 to P1P3) | 0% | 45 | 45 | 29-Mar-16 | 23-May-16 | 64 | | | | | | |
| Z2.KLH.1710 | Ramp R1 - Abutment R1 - base slab & wall | 86.39% | 26 | 191 | 22-Jun-15 A | 27-Feb-16 | 11 | | | | | | |
| Z2.KLH.1720 | Ramp R1 - Abutment R1 - Top slab | 0% | 30 | 30 | 29-Feb-16 | 07-Apr-16 | 11 | | | | | | |
| Z2.KLH.1730 | Ramp R1 - Abutment R1 - Staircase | 0% | 90 | 90 | 08-Apr-16 | 26-Jul-16 | 11 | | | | | | |
| KLH Bridge - Deck 3 | | | | | | | | | | | | | |
| Z2.KLH.1370 | Deck - East abutment to VBP8 | 25.56% | 67 | 90 | 21-Dec-15 A | 20-Apr-16 | 38 | | | | | | |
| Z2.KLH.1400 | Deck - VBP7 to VBP8 | 25.56% | 67 | 90 | 21-Dec-15 A | 20-Apr-16 | 38 | | | | | | |
| KLH Bridge - Deck 2 | | | | | | | | | | | | | |
| Z2.KLH.1250 | Beam Erection -Above Fanling Highway s/b (2B) (Bet. P4 to P5) | 0% | 60 | 60 | 25-Jan-16 A | 12-Apr-16 | 4 | | | | | | |

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | | |
|--|---|-----------------|---------------|-------------------|-------------|-----------|-------------|------|-----|-----|-----|-----|---|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr | |
| Z2.KLH.1550 | In situ concrete top slab & diaphragm (Bet. P3 to P4) | 0% | 20 | 20 | 20-Jan-16 | 20-Feb-16 | 89 | | | | | | |
| Z2.KLH.1553 | In situ concrete top slab & diaphragm (Above MTR Bet. P5 to P6) | 6.78% | 55 | 59 | 09-Jan-16 A | 13-Jun-16 | -33 | | | | | | |
| Z2.KLH.1556 | In situ concrete top slab & diaphragm (Bet. P4 to P5) | 0% | 45 | 45 | 13-Apr-16 | 06-Jun-16 | 4 | | | | | | |
| KLH Bridge - East Ramp | | | | | | | | | | | | | |
| Z2.KLH.1410 | East Ramp - excavation | 83.67% | 40 | 245 | 08-Apr-15 A | 15-Mar-16 | 109 | | | | | | |
| Z2.KLH.1420 | East Ramp base slab & Abutment wall | 73.97% | 63 | 242 | 12-May-15 A | 15-Apr-16 | 26 | | | | | | |
| Z2.KLH.1910 | East ramp backfilling (~ 5m) | 0% | 20 | 20 | 16-Apr-16 | 10-May-16 | 26 | | | | | | |
| KLH Bridge - Ramp R2 | | | | | | | | | | | | | |
| Z2.KLH.1523 | VO 028 - Boundary Wall to Hse 190B structure | 0% | 24 | 24 | 20-Jan-16* | 25-Feb-16 | 911 | | | | | | |
| Z2.KLH.1524 | VO 028 - Boundary Wall to Hse 190B E&M Drainage | 0% | 26 | 26 | 26-Feb-16 | 30-Mar-16 | 911 | | | | | | |
| Z2.KLH.1530 | Ramp R2 - Pile cap, abutment and pier construction | 41.53% | 69 | 118 | 20-Nov-15 A | 22-Apr-16 | -62 | | | | | | |
| Bridge Road Work | | | | | | | | | | | | | |
| Z2.KLH.1560 | Parapet construction (Deck 1) | 0% | 26 | 26 | 15-Apr-16 | 17-May-16 | 29 | | | | | | |
| Lift at TWSR-W Side | | | | | | | | | | | | | |
| L01093 | Lift contractor sub-letting | 73.51% | 40 | 151 | 10-Aug-15 A | 15-Mar-16 | 132 | | | | | | |
| L01094 | Lift submission & ordering period | 0% | 270 | 270 | 16-Mar-16 | 17-Feb-17 | 132 | | | | | | |
| L01140 | CLP Power available (by CLP) | 0% | 365 | 365 | 20-Jan-16 | 18-Jan-17 | 278 | | | | | | |
| Lift at FLHY S/B | | | | | | | | | | | | | |
| L01300 | CLP Power available (by CLP) | 0% | 365 | 365 | 20-Jan-16 | 18-Jan-17 | 281 | | | | | | |
| North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100) | | | | | | | | | | | | | |
| Bridge Construction | | | | | | | | | | | | | |
| New Ho Ka Yuen Footbridge | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | |
| HKY1060 | Steel Staircase & Ramp prefabrication (HKYB-TWSR-W) | 0% | 30 | 30 | 20-Jan-16 | 03-Mar-16 | 18 | | | | | | |
| HKY1070 | Steel Staircase & Ramp available on site (HKYB-TWSR-W side) | 0% | 0 | 0 | 04-Mar-16 | | 18 | | | | | | ◆ Steel Staircase & Ramp available on site |
| HKY1100 | Steel Bridge prefabrication (HKYB) | 0% | 50 | 50 | 20-Jan-16 | 30-Mar-16 | 64 | | | | | | |
| HKY1110 | Steel Bridge available on site (HKYB) | 0% | 0 | 0 | 31-Mar-16 | | 64 | | | | | | ◆ Steel Bridge ava |
| TWSR-West/ FL Highway N/B Side Section | | | | | | | | | | | | | |
| HKY1170 | HKYP6 - Pile cap, Pier and Pier Head | 0% | 60 | 60 | 17-Feb-16 | 30-Apr-16 | -28 | | | | | | |
| HKY1240 | HKYAB3 - Pile Test | 42.86% | 16 | 28 | 16-Dec-15 A | 06-Feb-16 | -28 | | | | | | |
| HKY1310 | HKYP7 - Pile cap, Pier and Pier Head | 0% | 48 | 30 | 18-Jan-16 A | 24-Mar-16 | -15 | | | | | | |
| HKY1350 | HKYAB4 - pile cap & abutment wall | 0% | 43 | 43 | 29-Jan-16 | 31-Mar-16 | -15 | | | | | | |
| HKY1360 | HKYAB4 - Backfilling (~3m) | 0% | 12 | 12 | 01-Apr-16 | 15-Apr-16 | -15 | | | | | | |
| Crossing Fanling Highway Section | | | | | | | | | | | | | |
| HKY1416 | TTA Stage 4 start | 0% | 0 | 0 | 16-Apr-16 | | 1248 | | | | | | ◆ T |
| HKY1430 | HKYP2 - Pre-bored H pile (8 nos) | 0% | 24 | 24 | 20-Jan-16 A | 25-Feb-16 | 54 | | | | | | |
| HKY1440 | HKYP2 - Pile Test | 0% | 28 | 28 | 26-Feb-16 | 24-Mar-16 | 69 | | | | | | |
| HKY1450 | HKYP2 - Pile cap, Pier and Pier Head | 0% | 36 | 36 | 26-Feb-16 | 12-Apr-16 | 54 | | | | | | |
| TWSR-East FL Highway S/B Side Section | | | | | | | | | | | | | |
| HKY1590 | Erect Staircase (HKYFB-TWSR-E side) | 0% | 30 | 30 | 20-Jan-16 | 03-Mar-16 | 3 | | | | | | |
| HKY1600 | Finishes Work | 0% | 30 | 30 | 04-Mar-16 | 12-Apr-16 | 78 | | | | | | |
| HKY1860 | Erect Steel Ramp (HKYFB-TWSR-E side) | 0% | 75 | 75 | 04-Mar-16 | 06-Jun-16 | 3 | | | | | | |
| ZONE 4 (Ch. 7925 to 8700) | | | | | | | | | | | | | |
| Bridge Construction | | | | | | | | | | | | | |
| New Wo Hop Shek Pedstrian & Cycle Bridge | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | |
| WHS1050 | Steel Ramp prefabrication (WHSB) | 79.2% | 26 | 125 | 24-Aug-15 A | 27-Feb-16 | 11 | | | | | | |
| WHS1060 | Steel Ramp available on site (WHSB) | 0% | 0 | 0 | 29-Feb-16 | | 11 | | | | | | ◆ Steel Ramp available on site (WHSB) |
| WHS1070 | Steel Staircase prefabrication (WHSB) | 79.2% | 26 | 125 | 24-Aug-15 A | 27-Feb-16 | 937 | | | | | | |
| WHS1080 | Steel Staircase available on site (WHSB) | 0% | 0 | 0 | 29-Feb-16 | | 937 | | | | | | ◆ Steel Staircase available on site (WHSB) |
| TWSR-West/ FL Highway N/B Side Section | | | | | | | | | | | | | |
| WHS1220 | WHSP6 - Pile cap, Pier and Pier Head | 37.78% | 28 | 45 | 21-Dec-15 A | 01-Mar-16 | 9 | | | | | | |
| WHS1228 | WHSP7 - Pile cap, Pier and Pier Head | 0% | 45 | 45 | 02-Mar-16 | 27-Apr-16 | 833 | | | | | | |
| WHS1930 | WHSP4 - Pile cap, Pier and Pier Head | 76.97% | 35 | 152 | 02-Jul-15 A | 09-Mar-16 | 2 | | | | | | |
| WHS1970 | WHSP5 - Pile cap, Pier and Pier Head | 0% | 30 | 30 | 29-Dec-15 A | 03-Mar-16 | 7 | | | | | | |
| WHS1980 | 1st half Steel Ramp ready for erection (WHS-TWSR-W side) | 0% | 0 | 0 | | 09-Mar-16 | 2 | | | | | | 09-Mar-16 ◆ 1st half Steel Ramp ready for erectio |
| WHS1990 | Erect 1st half ramp | 0% | 60 | 60 | 10-Mar-16 | 25-May-16 | 2 | | | | | | |
| Crossing Fanling Highway Section | | | | | | | | | | | | | |
| WHS1480 | Erect WHS bridge Structure across fanling highway | 0% | 90 | 90 | 20-Jan-16 | 19-May-16 | 22 | | | | | | |
| Slip Road Y Construction | | | | | | | | | | | | | |
| Drainage & Road Works | | | | | | | | | | | | | |
| TWSR-East FL Highway S/B Side Section | | | | | | | | | | | | | |
| RDZ41020 | Construct Slip Rd Y @ existing TWSR-E junction | 57.14% | 30 | 70 | 01-Dec-15 A | 03-Mar-16 | 27 | | | | | | |
| RDZ41082 | Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @ | 84.87% | 18 | 119 | 17-Sep-15 A | 18-Feb-16 | 1 | | | | | | |
| RDZ41084 | Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp | 0% | 120 | 120 | 19-Feb-16 | 16-Jul-16 | 1 | | | | | | |
| Underground Utility Works | | | | | | | | | | | | | |
| DN600 and DN900 Watermain | | | | | | | | | | | | | |
| DN1054 | Watermain (DN900/1200) changeover for DN600 Works | 88.24% | 10 | 85 | 20-Oct-15 A | 30-Jan-16 | 0 | | | | | | |
| DN1056 | Laying DN600 section after DN900 changeover Works | 0% | 41 | 41 | 01-Feb-16 | 31-Mar-16 | 0 | | | | | | |
| DN1060 | Watermain (DN600) changeover for TTA stage 4 | 0% | 6 | 6 | 01-Apr-16 | 08-Apr-16 | 0 | | | | | | |
| VO - Wall 76A Construction | | | | | | | | | | | | | |

| Activity ID | Activity Name | Dur. % Complete | Rem. Duration | Original Duration | Start | Finish | Total Float | 2016 | | | | | |
|---|---|-----------------|---------------|-------------------|-------------|-----------|-------------|------|-----|-----|-----|-----|--|
| | | | | | | | | 2015 | Jan | Feb | Mar | Apr | |
| Retaining Wall W76A | | | | | | | | | | | | | |
| TWSR-East FL Highway S/B Side Section | | | | | | | | | | | | | |
| W76A1050 | Drainage work for Caltex access road | 0% | 150 | 150 | 20-Jan-16 | 30-Jul-16 | 693 | | | | | | |
| Fanling Highway Construction | | | | | | | | | | | | | |
| Drainage & Road Works | | | | | | | | | | | | | |
| TWSR-East FL Highway S/B Side Section | | | | | | | | | | | | | |
| RDZ41025 | Construct FH S/B Lane 1,2 @ existing TWSR-E junction | 24.19% | 47 | 62 | 18-Dec-15 A | 23-Mar-16 | 10 | | | | | | |
| RDZ41050 | Traffic Diversion for FH S/B road construction (Z4 TTA-Stage 4) | 0% | 6 | 6 | 09-Apr-16 | 15-Apr-16 | 0 | | | | | | |
| RDZ41090 | Remove FH central barrier | 0% | 60 | 60 | 16-Apr-16 | 28-Jun-16 | 0 | | | | | | |
| Other Works | | | | | | | | | | | | | |
| Retaining Wall W77B | | | | | | | | | | | | | |
| TWSR-East FL Highway S/B Side Section | | | | | | | | | | | | | |
| RWZ4.1100 | Base slab & Wall (0-3m high)- RW77B (Ch 0-40) | 0% | 60 | 60 | 20-Jan-16 | 12-Apr-16 | 168 | | | | | | |
| RWZ4.1110 | Backfilling (0-3m) - RW77B (Ch 0-40) | 0% | 30 | 30 | 13-Apr-16 | 19-May-16 | 198 | | | | | | |
| TCSS Works | | | | | | | | | | | | | |
| TCSS Pre-Construction Works | | | | | | | | | | | | | |
| TCSS0110 | Confirm Design criteria with Engineer | 0% | 30 | 30 | 20-Jan-16 | 18-Feb-16 | 404 | | | | | | |
| TCSS0120 | Prepare Shop Drawing-TCSS | 0% | 45 | 45 | 19-Feb-16 | 15-Apr-16 | 325 | | | | | | |
| TCSS0130 | Shop Drawing Comment & Approval | 0% | 21 | 21 | 16-Apr-16 | 06-May-16 | 406 | | | | | | |
| FVMS2 (Deleted by RFI-138, Pending for VO) | | | | | | | | | | | | | |
| TCSS1640 | Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138 | 0% | 30 | 30 | 16-Apr-16 | 23-May-16 | 658 | | | | | | |

**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 | | |
|---------------------------------|---|---------------------|-----------------------|--------|--------|
| | | | Nov 15 | Dec 15 | Jan 16 |
| Air Quality during construction | Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading. | During construction | V | V | V |
| | All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions. | | @ | V | V |
| | Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas. | | @ | @ | V |
| | All spraying of materials and surfaces shall avoid excessive water usage. | | V | V | 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 | V | V |
| | Materials shall be dampened, if necessary, before transportation. | | V | V | V |
| | Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks. | | V | V | V |
| | Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads. | | V | V | V |

Noise – Schedule of Recommended Mitigation Measures

| Impact | Mitigation Measures | Timing | Implementation Status | | |
|---------------------------|---|---------------------|-----------------------|--------|--------|
| | | | Nov 15 | Dec 15 | Jan 16 |
| Noise during construction | Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant. | During construction | V | V | @ |
| | Reduce the number of equipment and their percentage on-time. | | V | V | V |
| | 3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit). | | V | V | V |
| | 3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit). | | V | V | V |
| | 2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit). | | V | V | V |
| | 2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit). | | V | V | V |
| | 3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit). | | V | V | V |
| | 7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit). | | V | V | V |
| | 7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit). | | V | V | V |
| | 2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit). | | N.A. | N.A. | N.A. |

Water Quality – Schedule of Recommended Mitigation Measures

| Impact | Mitigation Measures | Timing | Implementation Status | | |
|-----------------------------------|--|---------------------|-----------------------|--------|--------|
| | | | Nov 15 | Dec 15 | Jan 16 |
| Water quality during construction | Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. | During construction | V | V | @ |
| | Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable 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. - 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 is required to ensure that sediment is not conveyed into the existing drainage system. - 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. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. | | @ | @ | @ |

Waste – Schedule of Recommended Mitigation Measures

| Impact | Mitigation Measures | Timing | Implementation Status | | |
|--------------------------------------|---|---------------------|-----------------------|--------|--------|
| | | | Nov 15 | Dec 15 | Jan 16 |
| Waste management during construction | General Waste <ul style="list-style-type: none"> - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards. | During construction | V | + | @ |
| | Vegetation from site clearance <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. | | V | V | V |
| | Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. | | V | V | V |
| | Excavated Materials <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated. | | V | V | V |
| | Construction Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. | | @ | V | V |
| | Bentonite Slurries <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. | | # | # | # |

| | | | | | |
|--|--|--|---|---|---|
| | <p>Chemical Wastes</p> <ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. | | @ | @ | @ |
| | <p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. | | V | V | V |

Ecology – Schedule of Recommended Mitigation Measures

| Impact | Mitigation Measures | Timing | Implementation Status | | |
|-----------------------------|--|---------------------|-----------------------|--------|--------|
| | | | Nov 15 | Dec 15 | Jan 16 |
| Ecology during construction | <p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. | During construction | V | V | V |
| | <p>Vegetation Clearance</p> <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. | | V | V | V |
| | <p>Dust generation</p> <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. | | V | V | V |
| | <p>Surface Run-off</p> <p>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). | | V | V | V |

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

| Impact | Mitigation Measures | Timing | Implementation Status | | |
|--|--|---------------------|-----------------------|--------|--------|
| | | | Nov 15 | Dec 15 | Jan 16 |
| Landscape & Visual during construction | Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors. | During construction | V | V | V |
| | Temporary Works Areas - 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 | V | V |
| | Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs. | | V | V | 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. | | # | # | # |
| | Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected. | | # | # | # |

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

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

= to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

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

| Location | Action Level | Limit Level |
|----------|-------------------------|-----------------------|
| AM2 | 317.8 µg/m ³ | 500 µg/m ³ |

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

| Location | Action Level | Limit Level |
|----------|-------------------------|-----------------------|
| AM2 | 200.7 µg/m ³ | 260 µg/m ³ |

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

| Location | Action Level | Limit Level |
|----------|---|-------------|
| M2 | When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers | 75 dB(A) |
| M3* | | 65/70 dB(A) |

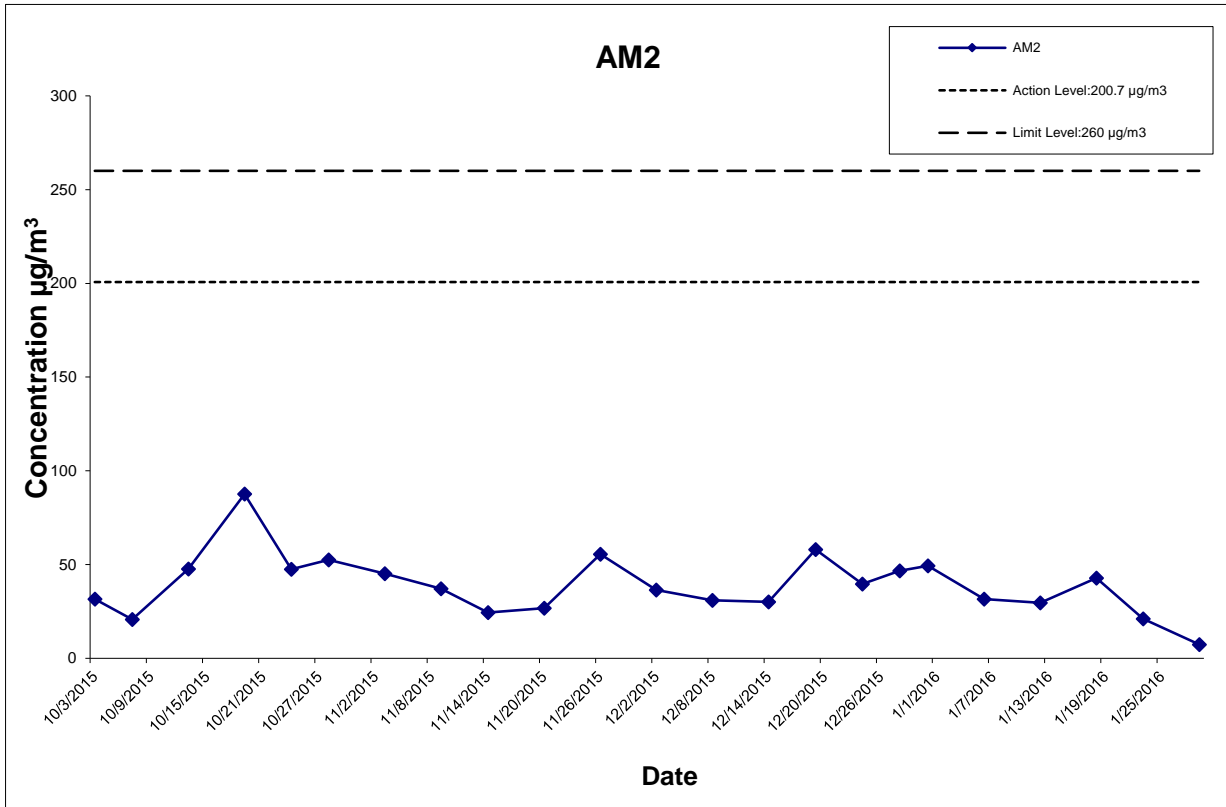
*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

| Date | Weather Condition | Air Temp. (°C) | Atmospheric Pressure(hPa) | Flow Rate (m ³ /min.) | | Av. flow (m ³ /min) | Total vol. (m ³) | Filter Weight (g) | | Particulate weight(g) | Elapse Time | | Sampling Time(hrs.) | Conc. (µg/m ³) | Actino Level (µg/m ³) | Limit Level (µg/m ³) |
|--|-------------------|----------------|---------------------------|----------------------------------|-------|--------------------------------|------------------------------|-------------------|--------|-----------------------|-------------|---------|---------------------|----------------------------|-----------------------------------|----------------------------------|
| | | | | Initial | Final | | | Initial | Final | | Initial | Final | | | | |
| 3-Oct-15 | Sunny | 26.8 | 1011.7 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8379 | 2.8976 | 0.0597 | 6194.03 | 6218.03 | 24.00 | 31.6 | 200.7 | 260 |
| 7-Oct-15 | Fine | 26.4 | 1012.7 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8069 | 2.8461 | 0.0392 | 6218.03 | 6242.03 | 24.00 | 20.7 | 200.7 | 260 |
| 13-Oct-15 | Sunny | 25.1 | 1018.7 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.7828 | 2.8730 | 0.0902 | 6242.03 | 6266.03 | 24.00 | 47.7 | 200.7 | 260 |
| 19-Oct-15 | Sunny | 25.3 | 1010.2 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8150 | 2.9808 | 0.1658 | 6266.03 | 6290.03 | 24.00 | 87.6 | 200.7 | 260 |
| 24-Oct-15 | Sunny | 26.8 | 1015.0 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8352 | 2.9250 | 0.0898 | 6290.03 | 6314.03 | 24.00 | 47.5 | 200.7 | 260 |
| 28-Oct-15 | Sunny | 26.7 | 1017.0 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8408 | 2.9401 | 0.0993 | 6314.03 | 6338.03 | 24.00 | 52.5 | 200.7 | 260 |
| 3-Nov-15 | Sunny | 23.7 | 1019.5 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8270 | 2.9124 | 0.0854 | 6338.03 | 6362.03 | 24.00 | 45.1 | 200.7 | 260 |
| 9-Nov-15 | Sunny | 26.7 | 1015.8 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8287 | 2.8991 | 0.0704 | 6362.03 | 6386.03 | 24.00 | 37.2 | 200.7 | 260 |
| 14-Nov-15 | Cloudy | 24.3 | 1014.5 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.7789 | 2.8252 | 0.0463 | 6386.03 | 6410.03 | 24.00 | 24.5 | 200.7 | 260 |
| 20-Nov-15 | Sunny | 24.8 | 1017.2 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8246 | 2.8754 | 0.0508 | 6410.03 | 6434.03 | 24.00 | 26.8 | 200.7 | 260 |
| 26-Nov-15 | Sunny | 18.2 | 1020.6 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.7640 | 2.8691 | 0.1051 | 6434.03 | 6458.03 | 24.00 | 55.5 | 200.7 | 260 |
| 2-Dec-15 | Sunny | 23.3 | 1017.1 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8084 | 2.8773 | 0.0689 | 6458.03 | 6482.03 | 24.00 | 36.4 | 200.7 | 260 |
| 8-Dec-15 | Fine | 18.0 | 1022.2 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.7871 | 2.8455 | 0.0584 | 6482.03 | 6506.03 | 24.00 | 30.9 | 200.7 | 260 |
| 14-Dec-15 | Sunny | 18.4 | 1019.0 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8342 | 2.8911 | 0.0569 | 6506.03 | 6530.03 | 24.00 | 30.1 | 200.7 | 260 |
| 19-Dec-15 | Sunny | 16.2 | 1025.4 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.7980 | 2.9079 | 0.1099 | 6530.03 | 6554.03 | 24.00 | 58.1 | 200.7 | 260 |
| 24-Dec-15 | Sunny | 22.3 | 1016.8 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8477 | 2.9226 | 0.0749 | 6554.03 | 6578.03 | 24.00 | 39.6 | 200.7 | 260 |
| 28-Dec-15 | Fine | 17.3 | 1026.6 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8146 | 2.9028 | 0.0882 | 6578.03 | 6602.03 | 24.00 | 46.6 | 200.7 | 260 |
| 31-Dec-15 | Fine | 20.5 | 1026.4 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8115 | 2.9048 | 0.0933 | 6602.03 | 6626.03 | 24.00 | 49.3 | 200.7 | 260 |
| 6-Jan-16 | Fine | 20.9 | 1018.8 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8890 | 2.9490 | 0.0600 | 6626.03 | 6650.03 | 24.00 | 31.7 | 200.7 | 260 |
| 12-Jan-16 | Fine | 17.3 | 1019.9 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.9183 | 2.9743 | 0.0560 | 6650.03 | 6674.03 | 24.00 | 29.6 | 200.7 | 260 |
| 18-Jan-16 | Fine | 15.2 | 1017.1 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8988 | 2.9798 | 0.0810 | 6674.03 | 6698.03 | 24.00 | 42.8 | 200.7 | 260 |
| 23-Jan-16 | Cloudy | 8.5 | 1027.1 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.9150 | 2.9550 | 0.0400 | 6698.03 | 6722.03 | 24.00 | 21.1 | 200.7 | 260 |
| 29-Jan-16 | Rainy | 16.6 | 1017.9 | 1.314 | 1.314 | 1.314 | 1892.2 | 2.8928 | 2.9068 | 0.0140 | 6722.03 | 6746.03 | 24.00 | 7.4 | 200.7 | 260 |
| Average for the reporting quarter (Nov 15 to Jan 16) | | | | | | | | | | | | | 36.0 | | | |
| Minimum for the reporting quarter (Nov 15 to Jan 16) | | | | | | | | | | | | | 7.4 | | | |
| Maximum for the reporting quarter (Nov 15 to Jan 16) | | | | | | | | | | | | | 58.1 | | | |



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

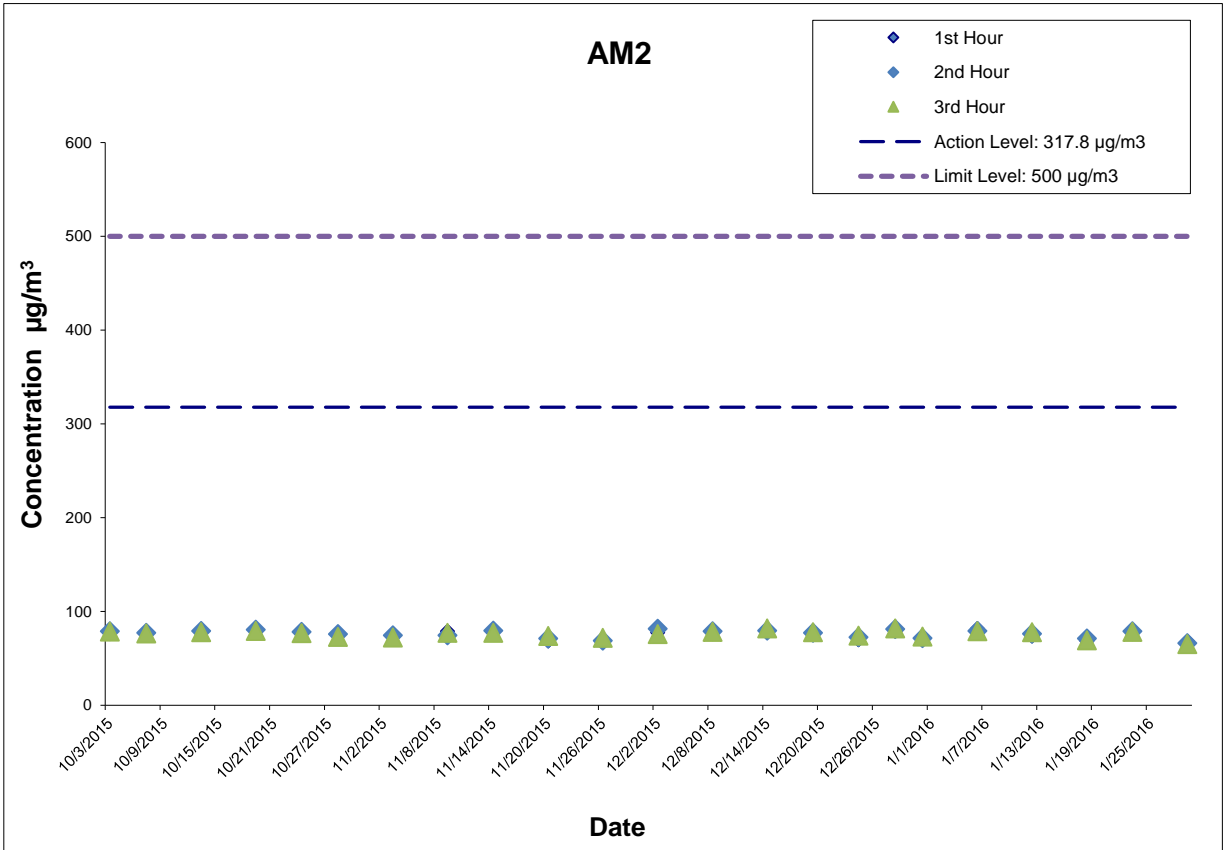


Graphical Presentation of Impact 24-hour TSP Monitoring Results

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fangling Government Secondary School)

| Date | Start Time (hh:mm) | 1st Hour Conc. ($\mu\text{g}/\text{m}^3$) | 2nd Hour Conc. ($\mu\text{g}/\text{m}^3$) | 3rd Hour Conc. ($\mu\text{g}/\text{m}^3$) |
|--|--------------------|---|---|---|
| 3-Oct-15 | 13:15 | 79.2 | 78.9 | 78.5 |
| 7-Oct-15 | 12:57 | 78.1 | 77.4 | 76.7 |
| 13-Oct-15 | 14:43 | 78.6 | 79.2 | 77.9 |
| 19-Oct-15 | 14:20 | 78.8 | 80.6 | 79.3 |
| 24-Oct-15 | 14:00 | 77.2 | 78.3 | 77.1 |
| 28-Oct-15 | 13:05 | 74.6 | 76.1 | 72.8 |
| 3-Nov-15 | 14:00 | 73.3 | 74.6 | 72.4 |
| 9-Nov-15 | 14:00 | 78.8 | 74.5 | 77.3 |
| 14-Nov-15 | 13:34 | 78.5 | 79.6 | 77.2 |
| 20-Nov-15 | 13:00 | 68.6 | 71.4 | 73.9 |
| 26-Nov-15 | 14:05 | 67.6 | 68.9 | 71.8 |
| 2-Dec-15 | 9:50 | 77.6 | 81.8 | 75.9 |
| 8-Dec-15 | 13:52 | 77.6 | 78.8 | 78.4 |
| 14-Dec-15 | 13:40 | 81.2 | 79.6 | 82.1 |
| 19-Dec-15 | 13:45 | 76.4 | 77.2 | 77.8 |
| 24-Dec-15 | 14:15 | 69.9 | 72.7 | 74.4 |
| 28-Dec-15 | 13:00 | 79.3 | 81.3 | 81.9 |
| 31-Dec-15 | 13:05 | 72.3 | 71.6 | 73.2 |
| 6-Jan-16 | 13:40 | 81.6 | 79.4 | 79.0 |
| 12-Jan-16 | 10:15 | 73.8 | 76.3 | 77.9 |
| 18-Jan-16 | 10:00 | 68.6 | 71.2 | 69.4 |
| 23-Jan-16 | 13:11 | 78.0 | 78.9 | 78.4 |
| 29-Jan-16 | 10:30 | 68.2 | 66.2 | 65.4 |
| Average for the reporting quarter (Nov 15 to Jan 16) | | | | 75.3 |
| Minimum for the reporting quarter (Nov 15 to Jan 16) | | | | 65.4 |
| Maximum for the reporting quarter (Nov 15 to Jan 16) | | | | 82.1 |



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Mar-16

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , November 2015 - Tai Mei Tuk

Year Month

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|---------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | |
| 01 | *** | 23.0 | 21.3 | 18.9 | *** | *** | 0.0 | 040 | 14.8 |
| 02 | *** | 25.5 | 21.6 | 18.6 | *** | *** | 0.0 | 070 | 7.2 |
| 03 | *** | 26.2 | 23.4 | 21.2 | *** | *** | 0.0 | 120 | 12.9 |
| 04 | *** | 27.4 | 24.3 | 22.1 | *** | *** | 0.0 | 070 | 11.6 |
| 05 | *** | 28.3 | 25.6 | 23.6 | *** | *** | 0.0 | 100 | 13.7 |
| 06 | *** | 27.9 | 25.6 | 24.7 | *** | *** | 0.0 | 120 | 19.3 |
| 07 | *** | 28.9 | 26.1 | 25.0 | *** | *** | 0.0 | 110 | 15.8 |
| 08 | *** | 29.6 | 26.2 | 24.3 | *** | *** | 0.0 | 100 | 12.3 |
| 09 | *** | 31.3 | 26.6 | 24.1 | *** | *** | 0.0 | 150 | 8.5 |
| 10 | *** | 26.4 | 23.9 | 22.3 | *** | *** | 1.5 | 120 | 19.0 |
| 11 | *** | 25.5 | 23.8 | 22.3 | *** | *** | 0.0 | 120 | 24.0 |
| 12 | *** | 24.4 | 23.9 | 23.5 | *** | *** | 0.0 | 110 | 26.4 |
| 13 | *** | 25.5 | 23.1 | 20.3 | *** | *** | 3.5 | 100 | 17.8 |
| 14 | *** | 27.9 | 24.0 | 20.8 | *** | *** | 0.0 | 290 | 5.4 |
| 15 | *** | 25.0 | 24.5 | 24.2 | *** | *** | 0.0 | 110 | 27.2 |
| 16 | *** | 25.4 | 24.5 | 23.5 | *** | *** | 9.5 | 100 | 20.8 |
| 17 | *** | 30.5 | 25.9 | 24.2 | *** | *** | 0.0 | 080 | 10.2 |
| 18 | *** | 30.7 | 26.1 | 23.7 | *** | *** | 0.0 | 150 | 4.2 |
| 19 | *** | 28.6 | 25.5 | 24.1 | *** | *** | 0.0 | 100 | 12.2 |
| 20 | *** | 26.4 | 24.5 | 23.5 | *** | *** | 0.0 | 110 | 12.5 |
| 21 | *** | 26.2 | 24.6 | 23.2 | *** | *** | 0.0 | 110 | 17.1 |
| 22 | *** | 28.9 | 25.4 | 23.7 | *** | *** | 0.0 | 110 | 14.9 |
| 23 | *** | 29.9 | 25.2 | 22.7 | *** | *** | 0.0 | 050 | 11.7 |
| 24 | *** | 27.1 | 24.0 | 22.1 | *** | *** | 0.0 | 050 | 13.5 |
| 25 | *** | 26.3 | 21.8 | 16.1 | *** | *** | 0.0 | 060 | 16.2 |
| 26 | *** | 21.5 | 17.0 | 13.8 | *** | *** | 0.0 | 050 | 16.0 |
| 27 | *** | 20.5 | 17.4 | 13.0 | *** | *** | 0.0 | 060 | 14.9 |
| 28 | *** | 23.2 | 20.2 | 17.5 | *** | *** | 0.0 | 110 | 15.5 |
| 29 | *** | 26.4 | 22.1 | 19.0 | *** | *** | 0.0 | 060 | 7.8 |
| 30 | *** | 25.7 | 22.1 | 19.2 | *** | *** | 0.0 | 280 | 6.8 |

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Daily Extract of Meteorological Observations , November 2015 - Tai Po

Year Month

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|---------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | |
| 01 | 1021.1 | 23.4 | 21.4 | 18.6 | 16.3 | 73 | *** | *** | *** |
| 02 | 1020.1 | 23.8 | 20.6 | 18.1 | 13.9 | 66 | *** | *** | *** |
| 03 | 1019.3 | 25.4 | 23.0 | 20.6 | 17.8 | 73 | *** | *** | *** |
| 04 | 1018.0 | 26.2 | 24.3 | 22.2 | 19.8 | 76 | *** | *** | *** |
| 05 | 1016.0 | 27.3 | 25.6 | 24.0 | 21.7 | 79 | *** | *** | *** |
| 06 | 1015.4 | 27.1 | 25.4 | 24.2 | 21.9 | 81 | *** | *** | *** |
| 07 | 1016.1 | 27.3 | 25.9 | 24.9 | 23.0 | 84 | *** | *** | *** |
| 08 | 1016.1 | 28.2 | 26.0 | 24.5 | 23.2 | 85 | *** | *** | *** |
| 09 | 1015.6 | 29.5 | 26.4 | 23.3 | 22.6 | 81 | *** | *** | *** |
| 10 | 1016.9 | 25.5 | 24.1 | 22.7 | 20.6 | 81 | *** | *** | *** |
| 11 | 1017.5 | 24.8 | 23.8 | 22.5 | 19.9 | 79 | *** | *** | *** |
| 12 | 1017.1 | 24.1 | 23.7 | 23.2 | 20.7 | 83 | *** | *** | *** |
| 13 | 1015.2 | 24.5 | 22.5 | 19.8 | 21.1 | 92 | *** | *** | *** |
| 14 | 1014.5 | 27.0 | 23.3 | 20.3 | 20.4 | 84 | *** | *** | *** |
| 15 | 1015.0 | 24.7 | 24.3 | 23.1 | 21.6 | 85 | *** | *** | *** |
| 16 | 1013.4 | 26.1 | 24.6 | 23.0 | 22.8 | 90 | *** | *** | *** |
| 17 | 1013.5 | 28.6 | 25.7 | 24.0 | 22.9 | 85 | *** | *** | *** |
| 18 | 1015.7 | 29.2 | 25.8 | 22.7 | 23.2 | 86 | *** | *** | *** |
| 19 | 1016.8 | 27.7 | 25.5 | 23.4 | 22.5 | 84 | *** | *** | *** |
| 20 | 1016.9 | 25.2 | 24.5 | 23.3 | 21.2 | 82 | *** | *** | *** |
| 21 | 1016.9 | 25.7 | 24.6 | 23.4 | 20.6 | 79 | *** | *** | *** |
| 22 | 1016.9 | 27.9 | 25.4 | 23.1 | 21.1 | 78 | *** | *** | *** |
| 23 | 1016.5 | 27.7 | 25.0 | 22.7 | 20.5 | 77 | *** | *** | *** |
| 24 | 1016.6 | 26.2 | 23.6 | 21.1 | 19.1 | 76 | *** | *** | *** |
| 25 | 1017.8 | 25.6 | 21.6 | 16.5 | 15.8 | 71 | *** | *** | *** |
| 26 | 1021.1 | 22.0 | 16.6 | 13.4 | 5.7 | 50 | *** | *** | *** |
| 27 | 1022.8 | 20.1 | 17.0 | 11.5 | 8.4 | 57 | *** | *** | *** |
| 28 | 1022.6 | 22.6 | 20.3 | 18.4 | 14.2 | 68 | *** | *** | *** |
| 29 | 1021.1 | 25.0 | 21.6 | 18.8 | 16.5 | 73 | *** | *** | *** |
| 30 | 1018.9 | 24.5 | 21.5 | 18.8 | 16.6 | 75 | *** | *** | *** |

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Daily Extract of Meteorological Observations , December 2015 - Tai Mei Tuk

Year Month

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|---------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | |
| 01 | *** | 24.6 | 22.4 | 21.1 | *** | *** | 0.0 | 110 | 13.2 |
| 02 | *** | 26.5 | 23.2 | 21.0 | *** | *** | 0.0 | 120 | 11.6 |
| 03 | *** | 21.2 | 18.9 | 17.5 | *** | *** | 1.0 | 050 | 15.2 |
| 04 | *** | 19.4 | 18.3 | 17.4 | *** | *** | 0.0 | 040 | 21.8 |
| 05 | *** | 20.0 | 17.9 | 15.1 | *** | *** | 9.0 | 060 | 19.4 |
| 06 | *** | 17.7 | 15.5 | 13.8 | *** | *** | 1.0 | 050 | 11.3 |
| 07 | *** | 20.8 | 16.6 | 14.1 | *** | *** | 0.0 | 060 | 6.7 |
| 08 | *** | 18.6 | 17.2 | 15.9 | *** | *** | 0.5 | 070 | 9.3 |
| 09 | *** | 18.5 | 17.2 | 16.6 | *** | *** | 40.5 | 060 | 15.7 |
| 10 | *** | 22.3 | 19.0 | 17.0 | *** | *** | 0.5 | 250 | 5.6 |
| 11 | *** | 24.1 | 19.2 | 16.6 | *** | *** | 0.0 | 050 | 11.3 |
| 12 | *** | 21.2 | 19.8 | 18.5 | *** | *** | 0.0 | 110 | 24.5 |
| 13 | *** | 20.8 | 20.1 | 19.4 | *** | *** | 0.0 | 110 | 15.5 |
| 14 | *** | 22.6 | 20.1 | 17.7 | *** | *** | 0.0 | 060 | 10.1 |
| 15 | *** | 20.4 | 17.3 | 14.7 | *** | *** | 0.0 | 050 | 11.7 |
| 16 | *** | 18.0 | 14.3 | 12.1 | *** | *** | 0.0 | 040 | 21.7 |
| 17 | *** | 15.8 | 12.4 | 10.2 | *** | *** | 0.0 | 050 | 19.0 |
| 18 | *** | 17.0 | 13.1 | 9.0 | *** | *** | 0.0 | 070 | 10.4 |
| 19 | *** | 19.2 | 15.9 | 12.3 | *** | *** | 0.0 | 050 | 8.9 |
| 20 | *** | 18.2 | 16.7 | 15.8 | *** | *** | 2.0 | 290 | 5.5 |
| 21 | *** | 22.3 | 19.0 | 16.2 | *** | *** | 0.0 | 100 | 9.7 |
| 22 | *** | 21.0 | 19.8 | 18.3 | *** | *** | 0.5 | 080 | 9.8 |
| 23 | *** | 24.4 | 21.3 | 19.2 | *** | *** | 0.0 | 080 | 7.6 |
| 24 | *** | 25.3 | 22.2 | 21.1 | *** | *** | 0.0 | 080 | 5.3 |
| 25 | *** | 21.7 | 17.6 | 14.5 | *** | *** | 1.0 | 050 | 11.3 |
| 26 | *** | 20.5 | 17.2 | 14.9 | *** | *** | 0.0 | 060 | 8.2 |
| 27 | *** | 18.0 | 16.6 | 15.5 | *** | *** | 0.5 | 060 | 6.4 |
| 28 | *** | 18.5 | 16.8# | 15.0 | *** | *** | 0.0# | 040# | 14.8# |
| 29 | *** | 20.6 | 17.6 | 15.3 | *** | *** | 0.0 | 050 | 12.4 |
| 30 | *** | 20.1 | 16.7 | 14.2 | *** | *** | 1.0 | 060 | 9.0 |
| 31 | *** | 21.9 | 17.5 | 14.3 | *** | *** | 0.0 | 050 | 6.9 |

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Daily Extract of Meteorological Observations , December 2015 - Tai Po

Year Month

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|---------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | |
| 01 | 1017.5 | 25.0 | 22.4 | 20.8 | 18.6 | 79 | *** | *** | *** |
| 02 | 1017.0 | 24.3 | 22.8 | 21.3 | 19.2 | 80 | *** | *** | *** |
| 03 | 1019.8 | 21.4 | 18.8 | 17.2 | 14.9 | 79 | *** | *** | *** |
| 04 | 1021.3 | 19.5 | 18.5 | 16.7 | 14.0 | 75 | *** | *** | *** |
| 05 | 1018.9 | 19.8 | 17.4 | 14.4 | 15.1 | 86 | *** | *** | *** |
| 06 | 1022.0 | 16.8 | 15.1 | 13.8 | 10.4 | 74 | *** | *** | *** |
| 07 | 1023.6 | 18.6 | 15.7 | 13.2 | 10.3 | 71 | *** | *** | *** |
| 08 | 1022.8 | 17.4 | 15.9 | 14.8 | 12.6 | 81 | *** | *** | *** |
| 09 | 1017.3 | 17.9 | 16.6 | 15.7 | 15.9 | 96 | *** | *** | *** |
| 10 | 1015.8 | 20.6 | 18.3 | 16.2 | 16.3 | 89 | *** | *** | *** |
| 11 | 1016.6 | 21.8 | 18.9 | 16.1 | 14.7 | 77 | *** | *** | *** |
| 12 | 1016.2 | 20.6 | 19.9 | 19.0 | 16.5 | 81 | *** | *** | *** |
| 13 | 1016.5 | 20.7 | 20.1 | 19.6 | 17.3 | 84 | *** | *** | *** |
| 14 | 1016.8 | 20.7 | 19.7 | 17.8 | 16.2 | 81 | *** | *** | *** |
| 15 | 1019.6 | 19.1 | 17.0 | 14.9 | 10.6 | 66 | *** | *** | *** |
| 16 | 1023.4# | 17.0 | 14.3# | 12.4 | 2.3# | 45# | *** | *** | *** |
| 17 | 1026.5 | 16.1 | 12.3 | 8.8 | -2.6 | 36 | *** | *** | *** |
| 18 | 1026.9 | 16.6 | 12.0 | 7.6 | 1.5 | 50 | *** | *** | *** |
| 19 | 1025.9 | 19.1 | 14.5 | 10.6 | 6.8 | 60 | *** | *** | *** |
| 20 | 1022.9 | 17.0 | 15.7 | 14.4 | 12.2 | 81 | *** | *** | *** |
| 21 | 1021.6 | 21.5 | 18.6 | 15.2 | 15.7 | 84 | *** | *** | *** |
| 22 | 1020.4 | 20.7 | 19.6 | 18.0 | 17.6 | 88 | *** | *** | *** |
| 23 | 1017.8 | 22.6 | 20.6 | 19.2 | 19.3 | 92 | *** | *** | *** |
| 24 | 1016.7 | 23.6 | 21.6 | 20.4 | 20.4 | 93 | *** | *** | *** |
| 25 | 1020.9 | 21.4 | 17.2 | 14.0 | 12.7 | 76 | *** | *** | *** |
| 26 | 1021.0 | 19.2 | 16.4 | 14.5 | 11.4 | 72 | *** | *** | *** |
| 27 | 1023.1 | 17.3 | 16.1 | 14.4 | 13.4 | 84 | *** | *** | *** |
| 28 | 1027.0 | 18.4 | 16.4 | 14.8 | 11.5 | 73 | *** | *** | *** |
| 29 | 1026.1 | 19.1 | 17.2 | 15.6 | 12.5 | 74 | *** | *** | *** |
| 30 | 1025.6 | 18.4 | 16.2 | 13.7 | 12.7 | 80 | *** | *** | *** |
| 31 | 1026.7 | 20.2 | 16.8 | 13.8 | 11.9 | 73 | *** | *** | *** |

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Daily Extract of Meteorological Observations , January 2016 - Tai Mei Tuk

Year Month

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|---------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | |
| 01 | *** | 22.5 | 18.4 | 16.0 | *** | *** | 0.0 | 140 | 10.8 |
| 02 | *** | 22.2 | 18.6 | 16.0 | *** | *** | 0.5 | 070 | 5.0 |
| 03 | *** | 20.5 | 19.1 | 17.7 | *** | *** | 6.0 | 070 | 4.8 |
| 04 | *** | 23.1 | 20.6 | 19.2 | *** | *** | 0.5 | 070 | 7.6 |
| 05 | *** | 21.3 | 20.3 | 19.6 | *** | *** | 44.5 | 070 | 8.1 |
| 06 | *** | 26.1 | 20.8 | 17.8 | *** | *** | 0.5 | 050 | 12.0 |
| 07 | *** | 21.6 | 18.3 | 16.0 | *** | *** | 0.0 | 120 | 8.9 |
| 08 | *** | 22.1 | 17.8 | 14.8 | *** | *** | 0.0 | 060 | 11.8 |
| 09 | *** | 20.0 | 17.8 | 15.7 | *** | *** | 0.0 | 100 | 20.8 |
| 10 | *** | 18.3 | 17.7 | 16.8 | *** | *** | 6.0 | 110 | 15.0 |
| 11 | *** | 20.7 | 17.8 | 16.0 | *** | *** | 27.5 | 060 | 12.8 |
| 12 | *** | 18.2 | 16.4 | 15.0 | *** | *** | 0.0 | 060 | 13.5 |
| 13 | *** | 19.7 | 15.6 | 12.4 | *** | *** | 0.0 | 050 | 13.1 |
| 14 | *** | 19.1 | 15.5 | 13.9 | *** | *** | 0.0# | 050# | 14.8# |
| 15 | *** | 15.2 | 14.3 | 13.6 | *** | *** | *** | 050 | 17.7 |
| 16 | *** | 17.0 | 16.1 | 15.0 | *** | *** | *** | 100 | 22.4 |
| 17 | *** | 20.5 | 17.1 | 12.9 | *** | *** | *** | 060 | 10.6 |
| 18 | *** | 17.6 | 14.3 | 10.1 | *** | *** | *** | 050 | 9.8 |
| 19 | *** | 17.8 | 15.7 | 14.1 | *** | *** | *** | 050 | 16.8 |
| 20 | *** | 16.5 | 15.0 | 14.2 | *** | *** | *** | 110 | 26.3 |
| 21 | *** | 16.8 | 15.4 | 14.5 | *** | *** | *** | 050 | 10.9 |
| 22 | *** | 14.7 | 12.6 | 8.9 | *** | *** | *** | 060 | 13.1 |
| 23 | *** | 9.4 | 7.1 | 4.8 | *** | *** | *** | 020 | 26.3 |
| 24 | *** | 12.0 | 3.7 | 2.0 | *** | *** | *** | 050# | 33.4# |
| 25 | *** | 11.0 | 7.0 | 3.1 | *** | *** | 0.5 | 060 | 17.9 |
| 26 | *** | 13.6 | 9.3 | 6.9 | *** | *** | 0.0 | 060# | 6.1# |
| 27 | *** | 15.5 | 11.9 | 8.5 | *** | *** | 2.0 | 070 | 6.0 |
| 28 | *** | 17.2 | 16.3# | 15.1 | *** | *** | 51.0 | 070# | 9.8# |
| 29 | *** | 18.0 | 16.6# | 16.0 | *** | *** | 0.0# | 070# | 8.3# |
| 30 | *** | 21.9 | 17.6 | 15.8 | *** | *** | 0.0 | 090 | 10.8 |
| 31 | *** | 16.6 | 15.3 | 14.8 | *** | *** | 0.5 | 110 | 23.0 |

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Year Month

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|---------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg. C) | Absolute Daily Min (deg. C) | | | | | |
| 01 | 1026.1 | 20.8 | 18.1 | 15.9 | 13.1 | 73 | *** | *** | *** |
| 02 | 1022.2 | 20.6 | 18.0 | 14.9 | 14.8 | 82 | *** | *** | *** |
| 03 | 1019.8 | 19.7 | 18.7 | 17.1 | 18.0 | 96 | *** | *** | *** |
| 04 | 1019.0 | 22.0 | 20.4 | 19.0 | 18.8 | 91 | *** | *** | *** |
| 05 | 1015.9 | 21.1 | 20.0 | 18.8 | 19.5 | 97 | *** | *** | *** |
| 06 | 1019.0 | 23.4 | 20.6 | 17.5 | 17.3 | 82 | *** | *** | *** |
| 07 | 1022.1 | 20.4 | 17.7 | 15.2 | 13.7 | 78 | *** | *** | *** |
| 08 | 1021.0 | 20.3 | 17.7 | 14.3 | 12.7 | 73 | *** | *** | *** |
| 09 | 1020.8 | 18.6 | 17.7 | 15.6 | 13.4 | 76 | *** | *** | *** |
| 10 | 1017.7 | 18.3 | 17.8 | 17.2 | 15.0 | 84 | *** | *** | *** |
| 11 | 1016.8 | 20.3 | 17.7 | 15.8 | 15.5 | 88 | *** | *** | *** |
| 12 | 1020.4 | 18.0 | 16.3 | 14.8 | 12.1 | 77 | *** | *** | *** |
| 13 | 1021.3 | 18.0 | 15.0 | 11.6 | 10.6 | 75 | *** | *** | *** |
| 14 | 1019.7 | 17.2 | 15.5 | 14.2 | 12.2 | 80 | *** | *** | *** |
| 15 | 1015.9 | 15.6 | 14.6 | 13.7 | 13.7 | 94 | *** | *** | *** |
| 16 | 1013.8 | 17.2 | 16.3 | 15.1 | 15.2 | 93 | *** | *** | *** |
| 17 | 1011.9 | 20.0 | 17.2 | 13.8 | 15.3 | 89 | *** | *** | *** |
| 18 | 1017.7 | 16.6 | 13.9 | 9.5 | 9.2 | 73 | *** | *** | *** |
| 19 | 1020.6 | 17.4 | 15.8 | 14.5 | 10.9 | 73 | *** | *** | *** |
| 20 | 1020.3 | 16.7 | 15.2 | 14.2 | 13.3 | 88 | *** | *** | *** |
| 21 | 1018.2 | 16.2 | 15.1 | 13.7 | 14.4 | 95 | *** | *** | *** |
| 22 | 1019.9 | 14.7 | 12.0 | 8.8 | 10.9 | 93 | *** | *** | *** |
| 23 | 1028.5 | 9.0 | 7.5 | 5.5 | 1.5 | 66 | *** | *** | *** |
| 24 | 1035.3# | 6.4 | 4.6# | 2.8 | -4.8# | 52# | *** | *** | *** |
| 25 | 1033.3 | 10.2 | 6.7 | 4.0 | -7.5 | 37 | *** | *** | *** |
| 26 | 1028.0 | 12.0 | 8.1 | 5.3 | 0.4 | 60 | *** | *** | *** |
| 27 | 1023.4 | 15.8 | 11.4 | 7.1 | 10.2 | 92 | *** | *** | *** |
| 28 | 1018.6 | 16.7 | 15.8 | 14.1 | 15.5 | 98 | *** | *** | *** |
| 29 | 1018.3 | 18.0 | 16.5 | 15.7 | 15.7 | 95 | *** | *** | *** |
| 30 | 1020.3 | 19.9 | 17.5 | 16.0 | 15.2 | 87 | *** | *** | *** |
| 31 | 1020.5 | 16.2 | 15.7 | 15.1 | 13.1 | 85 | *** | *** | *** |

*** unavailable

data incomplete

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

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Protection
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Electronic services

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**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

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

| Date | Measured Noise Level for 30-min, dB(A) | | | | Limit Level, dB(A) | Exceedance (Y/N) |
|------------------------------|--|------|------|------|--------------------|------------------|
| | Start Time | Leq* | L10* | L90* | | |
| 7-Oct-15 | 15:40 | 68.7 | 70.5 | 66.9 | 75 | N |
| 13-Oct-15 | 13:49 | 69.8 | 72.6 | 68.2 | 75 | N |
| 19-Oct-15 | 13:30 | 70.2 | 71.1 | 66.9 | 75 | N |
| 28-Oct-15 | 14:00 | 70.6 | 72.0 | 67.3 | 75 | N |
| 3-Nov-15 | 14:30 | 69.7 | 72.0 | 67.0 | 75 | N |
| 9-Nov-15 | 13:15 | 69.6 | 72.3 | 67.0 | 75 | N |
| 20-Nov-15 | 14:00 | 69.1 | 71.5 | 66.5 | 75 | N |
| 26-Nov-15 | 15:00 | 68.6 | 70.0 | 66.5 | 75 | N |
| 2-Dec-15 | 10:15 | 68.6 | 70.5 | 66.0 | 75 | N |
| 8-Dec-15 | 14:42 | 70.0 | 72.2 | 66.8 | 75 | N |
| 14-Dec-15 | 15:49 | 68.7 | 70.2 | 66.4 | 75 | N |
| 24-Dec-15 | 14:35 | 69.0 | 71.5 | 66.5 | 75 | N |
| 28-Dec-15 | 14:36 | 70.2 | 72.4 | 68.7 | 75 | N |
| 6-Jan-16 | 14:06 | 71.0 | 73.1 | 69.5 | 75 | N |
| 12-Jan-16 | 11:20 | 69.8 | 71.5 | 67.5 | 75 | N |
| 18-Jan-16 | 10:50 | 69.0 | 71.5 | 66.5 | 75 | N |
| 29-Jan-16 | 11:10 | 68.6 | 71.2 | 63.4 | 75 | N |
| Minimum for Nov 15 to Jan 16 | | 68.6 | 70.0 | 63.4 | | |
| Maximum for Nov 15 to Jan 16 | | 71.0 | 73.1 | 69.5 | | |
| Average for Nov 15 to Jan 16 | | 69.3 | 71.6 | 67.1 | | |

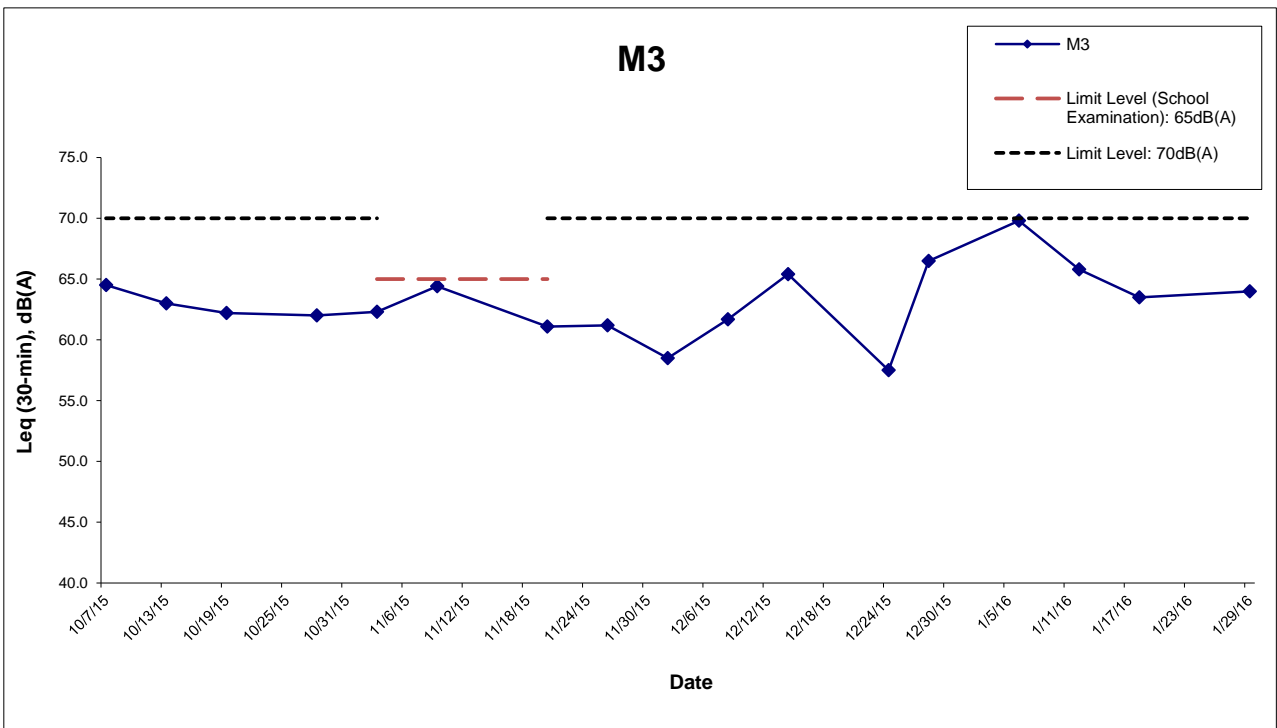
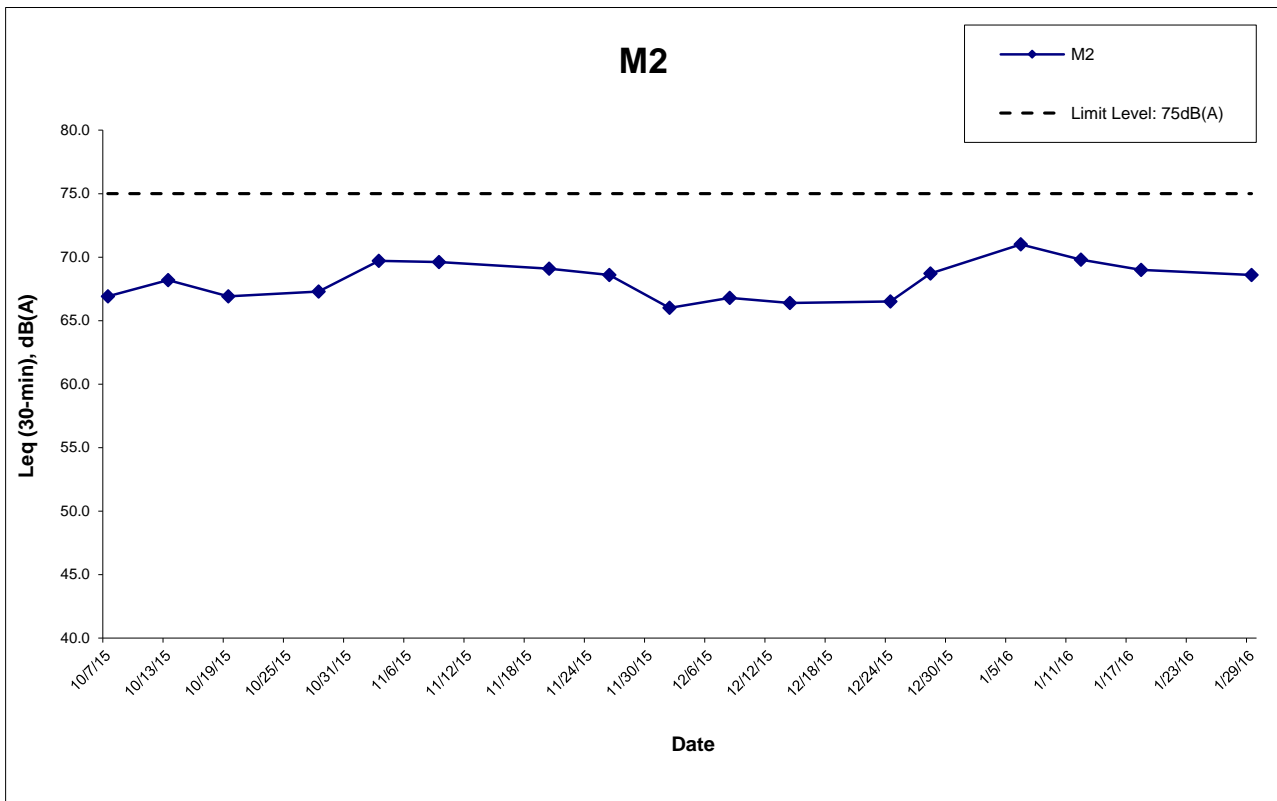
Location : M3 (Fanling Government Secondary School- Façade)

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

| Date | Measured Noise Level for 30-min, dB(A) | | | | Limit Level, dB(A)^ | Exceedance (Y/N) |
|------------------------------|--|------|------|------|---------------------|------------------|
| | Start Time | Leq | L10 | L90 | | |
| 7-Oct-15 | 14:46 | 66.4 | 68.1 | 64.5 | 70 | N |
| 13-Oct-15 | 14:41 | 64.4 | 66.8 | 63.0 | 70 | N |
| 19-Oct-15 | 14:19 | 64.6 | 67.0 | 62.2 | 70 | N |
| 28-Oct-15 | 13:10 | 64.2 | 66.0 | 62.0 | 70 | N |
| 3-Nov-15 | 14:00 | 62.3 | 63.5 | 60.0 | 70 | N |
| 9-Nov-15 | 14:00 | 64.4 | 67.3 | 61.2 | 65 | N |
| 20-Nov-15 | 13:00 | 61.1 | 62.5 | 59.5 | 70 | N |
| 26-Nov-15 | 14:05 | 61.2 | 62.5 | 59.0 | 70 | N |
| 2-Dec-15 | 9:50 | 60.6 | 62.0 | 58.5 | 70 | N |
| 8-Dec-15 | 15:33 | 64.1 | 65.6 | 61.7 | 70 | N |
| 14-Dec-15 | 14:39 | 67.5 | 69.7 | 65.4 | 70 | N |
| 24-Dec-15 | 14:15 | 61.1 | 62.5 | 57.5 | 70 | N |
| 28-Dec-15 | 15:42 | 68.7 | 70.3 | 66.5 | 70 | N |
| 6-Jan-16 | 14:50 | 69.8 | 71.6 | 65.9 | 70 | N |
| 12-Jan-16 | 10:22 | 65.8 | 67.0 | 63.0 | 70 | N |
| 18-Jan-16 | 10:00 | 63.5 | 65.0 | 60.0 | 70 | N |
| 29-Jan-16 | 10:30 | 64.0 | 67.9 | 60.5 | 70 | N |
| Minimum for Nov 15 to Jan 16 | | 60.6 | 62.0 | 57.5 | | |
| Maximum for Nov 15 to Jan 16 | | 69.8 | 71.6 | 66.5 | | |
| Average for Nov 15 to Jan 16 | | 63.6 | 65.9 | 61.6 | | |

* +3dB(A) Façade effect correction included

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



Remark:

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

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise
 Monitoring Results

Project No.: 60307376

Date: Mar-16

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

| | Date Received | Subject | Status | Total no. followed up by the ET this reporting period | Total no. followed up by the ET since project commencement |
|---------------------------------|------------------|--|--------|---|--|
| Environmental complaints | 19 December 2013 | EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning. | Closed | 0 | 5 |
| | 24 February 2014 | EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions. | Closed | | |

| Date Received | Subject | Status | Total no. followed up by the ET this reporting period | Total no. followed up by the ET since project commencement |
|----------------------|---|---------------|--|---|
| 23 October 2014 | <p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up.</p> <p>The location of complaint is near Lamppost Location EB5717.</p> | Closed | | |
| 31 December 2014 | <p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project.</p> <p>He required the EPD to follow up.</p> | Closed | | |

| | Date Received | Subject | Status | Total no. followed up by the ET this reporting period | Total no. followed up by the ET since project commencement |
|--------------------------------|----------------------|---|---------------|--|---|
| | 25 March 2015 | <p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p> | Closed | | |
| Notification of summons | - | - | - | 0 | 0 |
| Successful Prosecutions | - | - | - | 0 | 0 |