Civil Engineering and Development Department

EP-344/2009 – New Sewage Pumping Stations Serving KTD EP-337/2009 – New Distributor Roads Serving the Planned KTD

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Monthly EM&A Report

February 2017

(Version 1.0)

Approved By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 38^{9h} Monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises the construction of Schedule 2 Designated Projects (DP) Road D2 & Sewage Pumping Station PS2 and PS NPS which forms a part of the works under two Environmental Permits (EP), EP-337/2009 and EP-344/2009. The title of the designated projects under Environmental Permit No.: EP-344/2009 is "New sewage pumping stations serving Kai Tak Development" and under Environmental Permit No.: EP-337/2009 is "New distributor roads serving the planned Kai Tak Development". This report documents the findings of EM&A Works conducted from 1 to 28 February 2017.
- 2. The major site activities undertaken in the reporting month included:
 - Daily Cleaning;
 - Finishing works, E&M work in PS2;
 - Water test, backfill and sheet-pile removal in Heading 7A
 - Segment tunneling, backfill and sheet-pile removed chamber construction in Heading 7B;
 - Road widening works (excavation and UU works) at Sung Wong Toi Road;
 - Maintenance & Servicing Engineer's Office at Portion 9;
 - Install fitting inside chamber in Pit 1 and Pit 5;
 - Rising Main installation in Pit 2, Pit 4, Pit6/7 and Pit 9;
 - Installation of drainage, UU laying works and Road works at Road D2;
 - Finishing works and E&M works at NPS;
 - UU works and Road works at Road L19 & Bailey St;
 - Refer construction works of NPS in Portion 4 sewerage; and
 - Removal of excavated material at Portion 6.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the breaches of action and limit levels in the reporting month for the Project is tabulated in **Table I**.

Table I Breaches of Action and Limit Levels for the Project in the Reporting Month

Parameter	No. of Project-rela	Action Taken	
1 at attictet	Action Level	Limit Level	Action Taken
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A
Noise	0	0	N/A

1-hour & 24-hour TSP Monitoring

- 5. 1-hour TSP monitoring at AM4(A) EMSD Workshop was cancelled due to unsuccessful accessibility to the facility. 1-hr TSP monitoring was conducted at AM4(B) – Ma Tau Kok Road (next to EMSD workshop) temporarily.
- 6. All other 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 7. 24-hour TSP monitoring at AM4(A) EMSD Workshop was cancelled due to unsuccessful accessibility to the facility. The alternative monitoring location was pending in the reporting month.
- 8. All other 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

9. All construction noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded.

Environmental Licenses and Permits

- 10. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Environmental Permits No. EP-344/2009 and EP-337/2009 were issued on 23 April 2009.
- 11. Registration of Chemical Waste Producer (Waste Producer Number: 5213-286-K2958-05).
- 12. Water Discharge License (WT00020971-2015).
- 13. Construction Noise Permit (GW-RE0964-16).

Key Information in the Reporting Month

14. Summary of complaint received, reporting changes and notifications of any summons and successful prosecutions in the reporting month is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues

- 15. The future key environmental issues in the coming month include:
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;

- Storage of chemicals/fuel and chemical waste/waste oil on site; Accumulation of general and construction waste on site; Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site; and Review and implementation of temporary drainage system for the surface runoff.

1. INTRODUCTION

Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 4 Infrastructure at Former North Apron Area is one of the construction stages of KTD. Schedule 2 DPs in this Project include new distributor roads serving the planned KTD and new sewage pumping stations serving the planned KTD. The general layout of the Project is shown in **Figure 1.**
- 1.2 Two Environmental Permits (EPs) No. EP-344/2009 and EP-337/2009 were also issued to the Permit Holder Civil Engineering and Development Department on 23 April 2009 for new sewage pumping stations serving the planned KTD and new distributor roads serving the planned KTD respectively.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to identify the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and recommend possible mitigation measures associated with the works. The EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4 Cinotech Consultants Limited (Cinotech) is commissioned by Kwan On Construction Co., Ltd. (the Contractor) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2012/03 Stage 4 Infrastructure at Former North Apron Area. The construction work under KL/2012/03 comprises the construction of Road D2 & Sewage Pumping Station PS2 and PS NPS which forms a part of the works under two EPs (EP-337/2009 and EP-344/2009).
- 1.5 The construction commencement of this Contract was on 1st December 2013 for Road D2, Sewage Pumping Station PS2 and PS NPS. This is the 39th Monthly EM&A report summarizing the EM&A works for the Project from 1 to 28 February 2017.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Engineer and the Engineer's Representative (ER) AECOM.
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) Arcadis Design & Engineering Limited. (Arcadis).
 - Contractor Kwan On Construction Co., Ltd. (Kwan On).

1.7 The key contacts of the Project are shown in **Table 1.1** and **Figure 5**.

Table 1.1 **Key Project Contacts**

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. C. K. Choi	Senior Engineer	2301 1174	2301 1277
AECOM	Engineer's Representative	Mr. John Yam Mr. Ivan Yim	SRE RE	2798 0771	3013 8864
	Cinotech Environmental Team	Dr. Priscilla Choy	Environmental Team Leader	2151 2089	
Cinotech		Ms. Ivy Tam	Project Coordinator and Audit Team Leader	2151 2090	3107 1388
Arcadis	Independent Environmental Checker	Mr. Wong Fu Nam	Independent Environmental Checker	2911 2744	2805 5028
Kwan On	Contractor	Mr. Albert Ng	Site Agent	3689 7752 6146 6763 telephone nur	`

Construction Activities undertaken during the Reporting Month

- 1.8 The site activities undertaken in the reporting month included:
 - Daily Cleaning;
 - Finishing works, E&M work in PS2;
 - Water test, backfill and sheet-pile removal in Heading 7A
 - Segment tunneling, backfill and sheet-pile removed chamber construction in Heading 7B;
 - Road widening works (excavation and UU works) at Sung Wong Toi Road;
 - Maintenance & Servicing Engineer's Office at Portion 9;
 - Install fitting inside chamber in Pit 1 and Pit 5;
 - Rising Main installation in Pit 2, Pit 4, Pit6/7 and Pit 9;
 - Installation of drainage, UU laying works and Road works at Road D2;
 - Finishing works and E&M works at NPS;
 - UU works and Road works at Road L19 & Bailey St;
 - Refer construction works of NPS in Portion 4 sewerage; and
 - Removal of excavated material at Portion 6.
- The construction programme showing the inter-relationship with environmental 1.9 protection/mitigation measures is presented in **Table 1.2**.

Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Protection/Witigation Weasures				
Construction Works	Generated Major Environmental Impact	Control Measures		
Construction of superstructure of Pumping Station PS2 and NPS;	Dust, Water Quality, Waste Management	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; and On-site waste sorting and implementation of trip ticket system. 		
Backfilling between sewerage manholes 1K1_1 and FMH10_340 and construction of manhole FMH10_370a at L6;	Dust, Noise	 Use of quiet plant and well-maintained construction plant; and Properly cover the stockpiles; 		
Installation of precast unit and construction of in-situ portions of Box Culvert B6; Construction of jacking pits nos. 1 and 2; Installation of gas pipe at pit no. 10; Construction of washout chamber at pit no. 11;	Noise, Waste Management	 Use of quiet plant and well-maintained construction plant; and Provide hoarding. Good management and control on construction waste reduction 		
Construction of sewerage manhole FMH 10 at Bailey Street; Widening works of Sung Wong Toi Road.	Noise	 Use of quiet plant and well-maintained construction plant; and Provide hoarding. 		
Pipe laying from manhole SMH2204 to Box Culvert B6; Laying of rising mains from PS2 to chainage CHA-18; Pipe laying from stormwater manholes SMH1962 to SMH1963 and construction of manholes SMH1953 and SMH1963 at L6; Installation of DCS;	Noise, Water Quality	 Use of quiet plant and well-maintained construction plant; and Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall. 		

Summary of EM&A Requirements

- 1.10 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.12 This report presents the implementation of the EM&A programme for the Project from 1 to 28 February 2017.

1.13 Air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in **Table 1.3** (see Figure 2 and 3 for their locations).

Table 1.3 Air Quality and Noise Monitoring Stations for this Project

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations
Air Quality Monitoring Stations		
AM2 - Lee Kau Yan Memorial School	Yes	N/A
AM3 – Sky Tower	No	AM3(A) – Holy Trinity Bradbury Centre
AM4 – Grand Waterfront	No	AM4(A) – EMSD Workshop*
AM5 – CCC Kei To Secondary School	No	AM5(A) – Po Leung Kuk Ngan Po Ling College
AM6 – Site 1B4 (Planned)	N/A	
Noise Monitoring Stations		
M6 – Holy Carpenter Primary School	No	M6(A) – Oblate Primary School
M7 – CCC Kei To Secondary School	Yes	N/A
M8 – Po Leung Kuk Ngan Po Ling College	Yes	N/A
M9 – Tak Long Estate	Yes	N/A
M10 – Site 1B4 (Planned)		N/A

Remarks:

- "Yes" Monitoring station is the same as that stated in EM&A Manual
- No Monitoring station is not the same as that stated in EM&A Manual. Request for carrying monitoring works at the monitoring stations stated in EM&A Manual was rejected by owner of premise. Alternative monitoring stations were proposed by the ET of Schedule 3 EIA and approved by the EPD.
- N/A No alternative monitoring station is required.
- *AM4(A) EMSD Workshop was cancelled due to unsuccessful accessibility of the facility. 1-hr TSP monitoring was conducted at AM4(B) - Ma Tau Kok Road (next to EMSD workshop) temporarily.
- 1.14 According to the Environmental Monitoring and Audit Manual (EM&A Manual) of the Kai Tak Development (KTD) Schedule 3 Environmental Impact Assessment (EIA) Report, the impact monitoring at the designated monitoring stations as required in KTD EM&A Manual under the EP, has been conducted in Environmental Monitoring Works for Kai Tak Development under Schedule 3 of KTD, which is on-going starting from December 2010. The impact monitoring data under Schedule 3 of KTD will be adopted for the Project. Therefore, this report presents the air quality and noise monitoring works extracted from Schedule 3 of KTD.
- Since Contract no. KLN/2013/16 under Schedule 3 of KTD will be superseded by 1.15 KLN/2016/09 in early March 2017. The tentative impact monitoring schedule in March 2017 is pending and will be provided in next reporting month. The impact environmental monitoring schedule is shown in **Appendix D**.

Status of Compliance with Environmental Permits Conditions

1.16 The status of required submission related to this Project under the Environmental Permits No. EP-337/2009 and EP-344/2009 is summarized in the **Table 1.4** and **Table 1.5** respectively:

Table 1.4 Summary Table for Required Submission under EP No. EP-337/2009

EP Conditions	P Conditions Submission Submission Date		Remark
1.11	Notification of Commencement Date of Construction of Project	31 October 2013	For Road D2
2.3	Management Organization of Main Construction Companies	31 October 2013	For Contract No. KL/2012/03
2.4	Design Drawing(s) of the Project	28 October 2013	For Road D2
2.11	Landscape Mitigation Plan(s) for distributors road(s) 7 January 2014 For Road D2		For Road D2
2.12	As-built drawing(s) for the distributor road(s)	To be submitted at least one week before the commencement of operation of distributor road(s)	
3.2	Baseline Monitoring Report	26 November 2010 (Part I) 24 December 2010 (Part II)	/
3.3	Four hard copies and one electronic copy of the Monthly EM&A Report No. 38 (January 2017)	14 February 2017	Monthly EM&A Report for Contract No. KL/2012/03

Table 1.5 Summary Table for Required Submission under EP No. EP-344/2009

EP Conditions	Submission	Submission Date	Remark
1.11	Notification of Commencement Date of Construction of Project	31 October 2013	For Pumping Station PS2 and PS NPS
2.3	Management Organization of Main Construction Companies	31 October 2013	For Contract No. KL/2012/03
2.4	Design Drawing(s) of the Project	28 October 2013	For Pumping Station PS2 and PS NPS
2.11	Landscape Mitigation Plan(s) for sewage pumping station(s)	7 January 2014	For Pumping Station PS2 and PS NPS
2.12	As-built drawing(s) for the sewage pumping station (s)	To be submitted at least one week before the commencement of operation of distributor road(s)	
3.2	Baseline Monitoring Report	26 November 2010 (Part I) 24 December 2010 (Part II)	/
3.3	Four hard copies and one electronic copy of the Monthly EM&A Report No.38 (January 2017)	14 February 2017	Monthly EM&A Report for Contract No. KL/2012/03

2. AIR QUALITY

Monitoring Requirements

2.1 According to EM&A Manual under the EPs, 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Five designated monitoring stations were selected for air quality monitoring programme. Impact dust monitoring was conducted at four of the air quality monitoring stations (AM2, AM3(A), AM4(A) and AM5(A)). **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Locations for Air Quality Monitoring

Monitoring Stations	Locations	Location of Measurement
AM2	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
AM3(A)	Holy Trinity Bradbury Centre	Rooftop (about 8/F) Area
AM4(A)*	EMSD Workshops	Rooftop (about 6/F) Area
AM4(B)	Ma Tau Kok Road (next to EMSD workshop)	N/A
AM5(A)	Po Leung Kuk Ngan Po Ling College	Rooftop (about 10/F) Area
#AM6	PA 15	Site 1B4 (Planned)

Remarks: # The impact monitoring at these locations will only be carried out until the sensitive receivers at the building are resided.

Monitoring Equipment

2.3 **Table 2.2** summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates and laboratory accreditation are attached in **Appendix B**.

Table 2.2 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Calibrator	TE-5025A	1
1-hour TSP Dust Meter	Laser Dust Monitor – Model LD-3, LD-3B/	6

^{*}Air Quality Monitoring at AM4(A) was cancelled due to unsuccessful accessibility of the facility. 1-hr TSP monitoring was conducted at AM4(B) temporarily.

	Met One Instruments – AEROCET-531	
HVS Sampler	GMWS 2310 c/w of TSP sampling inlet	4
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	2

Monitoring Parameters, Frequency and Duration

2.4 Table 2.3 summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

 Table 2.3
 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	At least three times every 6 days
24-hr TSP	At least once every 6 days

Monitoring Methodology and Quality Assurance and Quality Control (QA/QC) Procedure

1-hour TSP Monitoring

Measuring Procedures

- 2.5 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:
 - The 1-hour dust meter is placed at least 1.3 meters above ground.
 - Set POWER to "ON" and make sure that the battery level was not flash or in low level.
 - Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
 - Push the knob at MEASURE position.
 - Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
 - Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
 - Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

- 2.6 The following maintenance/calibration was required for the direct dust meters:
 - Check and calibrate the meter by High-Volume Sampler (HVS) to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

2.7 High volume samplers (HVS) (Model GMWS-2310 Accu-Vol) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

Operating/Analytical Procedures

- 2.8 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.9 Prior to the commencement of the 24-hour TSP sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.10 For 24-hour TSP sampling, fiberglass filters having a collection efficiency of $\geq 99\%$ for particles of 0.3µm (DOP) diameter were used.
- 2.11 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.12 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.13 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.14 The shelter lid was closed and secured with the aluminum strip.
- 2.15 The timer was then programmed so that the TSP will be sampled for 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.16 After completion of sampling, the filter was removed and sent to Wellab Ltd., which is accredited under HOKLAS for laboratory analysis. The elapsed time was also recorded.
- 2.17 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning temperature should be between 25°C and 30°C and not vary by more than $\pm 3^{\circ}$ C; the relative humidity (RH) should be < 50% and not vary by more than $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 2.18 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using G25A Calibration Kit throughout all stages of the air quality monitoring.
 - Orifice Transfer Standards were calibrated at yearly intervals throughout all stages of the air quality monitoring.

Results, Observations and Action/Limit Level Exceedance

- 2.19 1-hour TSP monitoring at AM4(A) – EMSD Workshop was cancelled due to unsuccessful accessibility to the facility. 1-hr TSP monitoring was conducted at AM4(B) – Ma Tau Kok Road (next to EMSD workshop) temporarily.
- 2.20 All other 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21 24-hour TSP monitoring at AM4(A) – EMSD Workshop was cancelled due to unsuccessful accessibility to the facility. 24-hr TSP monitoring will be resumed after an alternative location is confirmed.
- 2.22 All other 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.23 The air temperature, precipitation and the relative humidity data were obtained from Hong Kong Observatory where the wind speed and wind direction were recorded by the installed Wind Anemometer set at rooftop (about 8/F) Lee Kau Yan Memorial School. The location is shown in **Figure 4**. This weather information for the reporting month is summarized in Appendix C.
- 2.24 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.

- 2.25 The summary of exceedance record in the reporting month is shown in **Appendix H**. No exceedance in Action/Limit Levels of 1-hour and 24-hour TSP was recorded for the air quality monitoring.
- 2.26 According to our field observations, the major dust source identified at the designated air quality monitoring stations is as follows:

Table 2.4 Major dust source identified at the designated air quality monitoring stations

Station	Major Dust Source
AM2 – Lee Kau Yan Memorial School	Road Traffic Dust
	Exposed site area and open stockpiles
	Site vehicle movement
AM3(A) – Holy Trinity Bradbury	Road Traffic Dust
Centre	Exposed site area
	Excavation works
	Site vehicle movement
AM4(A) – EMSD Workshops	Site vehicle movement
AM4(B) – Ma Tau Kok Road (next to	Site vehicle movement
EMSD workshop) temporarily	
AM5(A) – Po Leung Kuk Ngan Po	Road Traffic Dust
Ling College	Excavation works at the site (Contract No.:
	1/WSD/14(K)) facing Po Leung Kuk Ngan Po
	Ling College

3. NOISE

Monitoring Requirements

3.1 According to EM&A Manuals under the EP, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. The regular monitoring frequency for each monitoring station shall be on a weekly basis to conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

- 3.2 Five designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at four designated monitoring stations (M6, M7, M8 and M9). **Figure 3** shows the locations of these stations.
- 3.3 Construction noise monitoring at Station M6 Holy Carpenter Primary School was rejected by the premise owner on 6th October 2014. The monitoring station has been relocated at a proposed alternative noise monitoring station M6(A) Oblate Primary School since 10th October 2014 to carry out the monitoring works.

Table 3.1 Noise Monitoring Stations

Monitoring Stations	Locations	Location of Measurement
*M6(A)	Oblate Primary School	Rooftop (about 7/F) Area
M7	CCC Kei To Secondary School	Rooftop (about 8/F) Area
M8	Po Leung Kuk Ngan Po Ling College	Staircase Area (about 9/F)
M9	Tak Long Estate	Car Park Building (about 2/F)
#M10	Site 1B4 (Planned)	-

Remarks:

Monitoring Equipment

Table 3.2 summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

Table 3.2 Noise Monitoring Equipment

U 1		
Equipment	Model and Make	Qty.
Integrating Cound Level Motor	SVAN 955, 957	7
Integrating Sound Level Meter	BSWA 801	1
Calibratan	SVAN 30A	3
Calibrator	B&K4231	2

Monitoring Parameters, Frequency and Duration

3.5 Table 3.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

^{*} Alternative noise monitoring station for M6 – Holy Carpenter Primary School from 10th October 2014 onwards

[#] The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Monitoring Stations	Parameter	Period	Frequency	Type of Measurement
M7 M8 M9	L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A) L _{eq} (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade (*)
M6(A)	L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A) L _{eq} (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Free Field (*)

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels was adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weighting
time weighting
Fast
time measurement
30 minutes

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.6 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

^(*) Refer to bullet point 1 and 2 in the following section.

Results, Observations and Action/Limit Level Exceedance

- 3.9 All construction noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded.
- 3.10 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in Table 3.4.
- 3.11 Noise monitoring results and graphical presentations are shown in **Appendix G**.
- 3.12 The major noise source identified at the designated noise monitoring stations is as follows:

Table 3.4 Major noise source identified at the designated noise monitoring stations

Monitoring Stations	Locations	Major Noise Source
M6(A)	Oblate Primary School	Road and marine traffic Noise
M7	CCC Kei To Secondary School	Road and marine traffic Noise
M8	Po Leung Kuk Ngan Po Ling College	Excavation works at the site (Contract No.: 1/WSD/14(K)) facing Po Leung Kuk Ngan Po Ling College
M9	Tak Long Estate	Road paving and asphalt paving works

Baseline noise level and noise limit level for monitoring stations **Table 3.5**

Monitoring	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)	
Stations			
M6(A)	63.9 (at 0700 – 1900 hrs on normal weekdays)		
M7	68.7 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)	
M8	61.9 (at 0700 – 1900 hrs on normal weekdays)		
M9	59.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)	

Noise Limit Level is 65 dB(A) during school examination periods.

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 According to Section 16.1.6 (vi) of the EM&A Manual, the EM&A data were compared with the EIA predictions as summarized in **Table 4.1** to **4.3** below.

Table 4.1 Comparison of 1-hr TSP data with EIA predictions

Station	Predicted 1-hr TSP conc.				
	Scenario1 Scenario2 (Mid 2009 to (Mid 2013 to		•	Reporting Month (February 2017), µg/m3	
	Mid 2013), μg/m3	Late 2016), μg/m3	Average	Range	
AM2 – Lee Kau Yan Memorial School	290	312	149.9	76.1-243.5	
AM3(A) - Holy Trinity Bradbury Centre (Alternative station for Sky Tower)	217	247	155.6	99.2-254.3	
AM4(B) – Ma Tau Kok Road (next to EMSD workshops) Temporary	246	258	170.2	100.3-210.5	
AM5(A) – Po Leung Kuk Ngan Po Ling College (Alternative station for CCC Kei To Secondary School)	159	221	141.5	85.3-190.2	

Table 4.2 Comparison of 24-hr TSP data with EIA predictions

Station	Predicted 24-hr TSP conc.			
	Scenario1 (Mid 2009 to	Scenario2 (Mid 2013 to	Reporting Month (February 2017), μg/m3	
	Mid 2013), μg/m3	Late 2016), μg/m3	Average	Range
AM2 – Lee Kau Yan Memorial School	145	169	47.5	23.5-79.6
AM3(A) - Holy Trinity Bradbury Centre (Alternative station for Sky Tower)	106	138	71.4	47.2-99.5
AM5(A) – Po Leung Kuk Ngan Po Ling College (Alternative station for CCC Kei To Secondary School)	103	128	35.2	21.9-44.8

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (Leq (30min) dB(A))	Reporting Month (February 2017), $L_{eq~(30min)}~dB(A)$
M6(A) - Oblate Primary School ^	N/A	58.9 – 61.1
M7 - CCC Kei To Secondary School	45 – 68	61.8 – 67.4
M8 - Po Leung Kuk Ngan Po Ling College	44 – 70	59.5 – 69.6
M9 – Tak Long Estate	Not predicted in EIA Report	59.8 – 64.5

^(^) Alternative noise monitoring station for M6 – Holy Carpenter Primary School from 10th October 2014 onwards.

- 4.2 The averages of 1-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3 The averages of 24-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.

5. LANDSCAPE AND VISUAL

Monitoring Requirements

5.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's activities during the construction period on a weekly basis, and to report on the contractor's performance.

Results and Observations

- 5.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4 In accordance with the Action Plan presented in **Appendix J**, no corrective actions were required in the reporting month.

6. ENVIRONMENTAL AUDIT

Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 6.2 Site audits were conducted on 3rd, 10th, 17th and 22nd February 2017 in the reporting month. IEC site inspection was conducted on 22th February 2017. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

6.3 All permits/licenses obtained for the Project are summarized in Table 6.1.

 Table 6.1
 Summary of Environmental Licensing and Permit Status

Permit No.	Valid Period		Details	C4 - 4
Perillit No.	From	To	Details	Status
Environmental Permit (EP)				
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
EP-344/2009	23/04/09	N/A	Construction of a new sewage pumping station serving the planned Kai Tak development with installed capacity of more than 2,000 m³ per day and a boundary of which is less than 150m from an existing or planned residential area or educational institution.	Valid
Effluent Discharge License				
WT00020971-2015	22/04/15	Discharge Licence for the discharge of		Valid
Registration of Chemical Waste Producer				
5213-286-K2958-05			Registration of chemical waste producer for chemical waste produced during construction of Stage 4 at former North Apron Area Infrastructure.	
Construction Noise Permit				
GW-RE0964-16	30/09/16	29/03/17	Location: Heading 7A & 7B	Valid

Status of Waste Management

- 6.4 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.
- 6.5 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that the skips of all dump trucks have been fully covered before leaving the site.

Implementation Status of Environmental Mitigation Measures

6.6 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 6.2.

Observations and Recommendations of Site Inspections for EP-337/2009 **Table 6.2**

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality			
Air Quality			
Noise			
Waste/Chemical Management	22 February 2017	Reminder: Provide drip tray to chemical containers near generator set at Portion 7B.	Chemical containers were removed.
	22 February 2017	Reminder: General refuse deposited near KO site office should be properly placed in rubbish bins.	General refuse was cleared.
Landscape and Visual			
Permits /Licences			

Table 6.3	Observations and Recomn	nendations of Site l	Inspections for	EP-344/2009
		01 0100		,

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality			
Air Quality			
Noise			
Waste/Chemical Management			
Landscape and Visual			
Permits /Licences			

Summary of Mitigation Measures Implemented

The monthly IEC audit was carried out on 22nd February 2017, the observations were 6.7 recorded and they are presented as follows:

Follow up of last monthly audit:

Nil

Observation(s) in the reporting month:

- On DCS 7B site, there was a generator and 3 chemical drums without drip tray. Drip trays are required or remove the drums from the site. (Follow up to be taken on the next inspection.)
- 6.8 An updated summary of the EMIS is provided in **Appendix K**.

Implementation Status of Event Action Plans

6.9 The Event Action Plans for air quality, noise and landscape and visual are presented in Appendix J.

1-hr TSP Monitoring

No Action/Limit Level exceedance was recorded in the reporting month. 6.10

24-hr TSP Monitoring

6.11 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

6.12 No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.13 No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.14 No environmental complaints and environmental prosecution were received in the reporting month. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project are presented in **Appendix L**.

7. FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Daily Cleaning;
 - Finishing works, E&M work in PS2;
 - Water test, backfill and sheet-pile removal in Heading 7A;
 - Segment tunneling, backfill and sheet-pile removed chamber construction in Heading 7B;
 - Road widening works (excavation and UU works) at Sung Wong Toi Road;
 - Maintenance & Servicing Engineer's Office at Portion 9;
 - Install Fitting inside chamber in Pit 1 and Pit 5;
 - Rising Main installation in Pit 2, Pit 4, Pit 6/7 and Pit 9;
 - Installation of drainage, UU laying works and Road works at Road D2;
 - Finishing works and E&M works at NPS;
 - UU works and Road works at Road L19 & Bailey St;
 - Refer construction works of NPS in portion 4 sewerage; and
 - Removal of excavated material in Portion 6
- 7.2 The tentative construction program for the Project is provided in **Appendix N.**

Key Issues for the Coming Month

- 7.3 Key environmental issues in the coming month include:
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site:
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site; and
 - Review and implementation of temporary drainage system for the surface runoff.
- 7.4 The tentative program of major site activities and the impact prediction and environmental mitigation measures for the coming two months, i.e. March and April 2017 are summarized as follows:

Table 7.1 Summary of the tentative program of major site activities, the impact prediction and control measures for March and April 2017

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 7.1	Air quality impact (dust) Water quality impact (surface run-off)	 a) Frequent watering of haul road and unpaved/exposed areas; b) Frequent watering or covering stockpiles with tarpaulin or similar means; and c) Watering of any earth moving activities. d) Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; f) Provision of site boundary bund such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and g) Provision of measures to prevent discharge into the stream.
	Noise Impact	 h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; i) Controlling the number of plants use on site; j) Regular maintenance of machines; and k) Use of acoustic barriers if necessary.

Monitoring Schedule for the Next Month

7.5 The tentative environmental monitoring schedules for the next month are shown in Appendix D.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.

8.1 Environmental monitoring works required under the EM&A Manual were performed in the reporting month and all monitoring results were checked and reviewed.

1-hr TSP Monitoring

- 8.2 1-hour TSP monitoring at AM4(A) EMSD Workshop was cancelled due to unsuccessful accessibility to the facility. 1-hr TSP monitoring was conducted at AM4(B) Ma Tau Kok Road (next to EMSD workshop) temporarily.
- 8.3 All other 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. 1-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.

24-hr TSP Monitoring

- 8.4 24-hour TSP monitoring at AM4(A) EMSD Workshop was cancelled due to unsuccessful accessibility to the facility. 24-hr TSP monitoring will be resumed after an alternative location is confirmed.
- 8.5 All other 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. 4-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.

Construction Noise Monitoring

8.6 All construction noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded. The construction noise levels in all stations in the reporting month were within the range of predicted mitigated construction noise levels in the approved Environmental Impact Assessment (EIA) report.

Complaints, Notification of any Summons and Prosecution Received

8.7 No environmental complaints and environmental prosecution were received in the reporting month. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project are presented in **Appendix L**.

Recommendations

8.8 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To implement dust suppression measures on all haul roads, stockpiles, dry surfaces and excavation works.
- To mitigate the dust generation by adequate water spraying in dry days.

Noise Impact

- To inspect the noise sources inside the site.
- To disperse the locations of noisy equipments and position the equipments as far away as possible from sensitive receivers.
- To provide temporary noise barriers for operations of noisy equipment near the noise sensitive receivers in an appropriate location.

Water Impact

- To prevent any surface runoff discharge into any stream course.
- To review and implement temporary drainage system.
- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To ensure the performance of sorting of C&D materials at source (during generation);
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To provide proper storage area or drip trays for oil containers/ equipment on site.
- To avoid improper handling or storage of oil drum on site.

Landscape and Visual

- To protect the existing trees to be retained.
- To transplant the trees unavoidably affected by the works.
- To control of night-time lighting.
- To provide decorative screen hoarding.
- To complete landscape works at site area as early as possible.

Effectiveness of Environmental Management

- 8.9 The above recommendations and the recommended mitigation measures in the EM&A Manual were carried out by the Contractor during construction. No non-compliance was recorded during the environmental site inspections as shown in **Appendix I**.
- 8.10 The effectiveness of environmental management is satisfactory as the above recommendations are met. Some of the examples of mitigation measures for the following recommendations are given in **Table 8.1** below.
 - Surface runoff discharge into any stream course is prevented;
 - Provision of sedimentation facilities after identification of wastewater discharges from site;
 - Discharge or accidental spillage of chemical waste or oil directly from the site is avoided:
 - Improper handling or storage of oil drum on site is avoided;
 - The existing trees to be retained are protected; and
 - Night-time lighting is controlled.

Table 8.1 Examples of Mitigation Measures for Environmental Recommendations



To prevent any surface runoff discharge into any stream course.



Follow-up measure(s) after identification of wastewater discharges from site.



To avoid any discharge or accidental spillage of chemical waste or oil directly from the site



To avoid improper handling or storage of oil drum on site

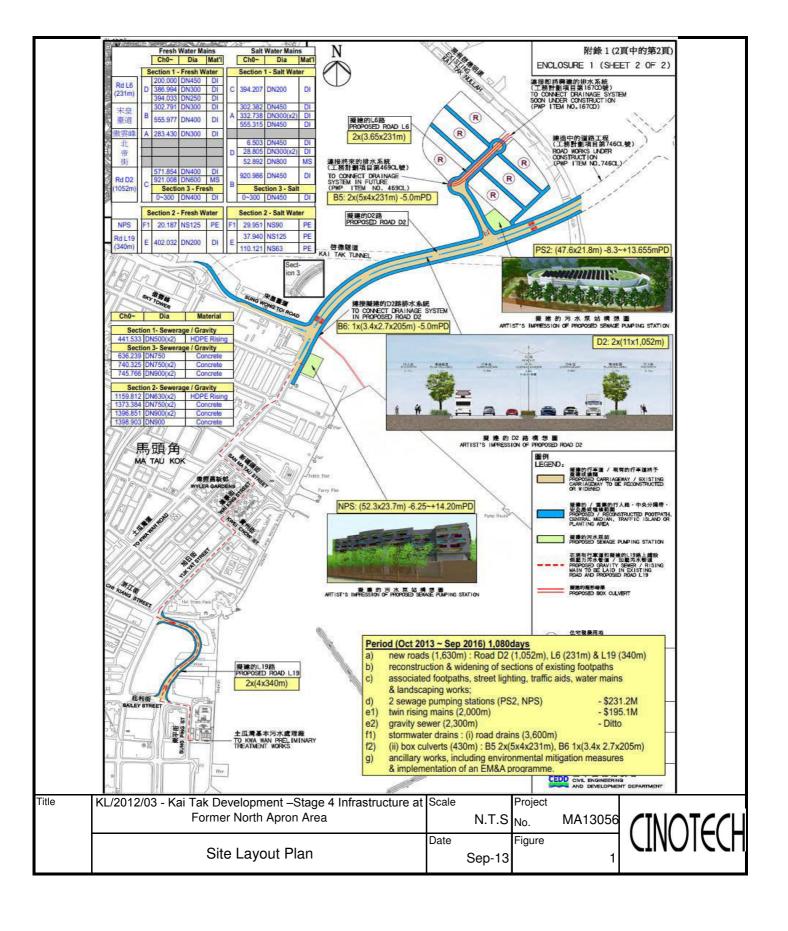


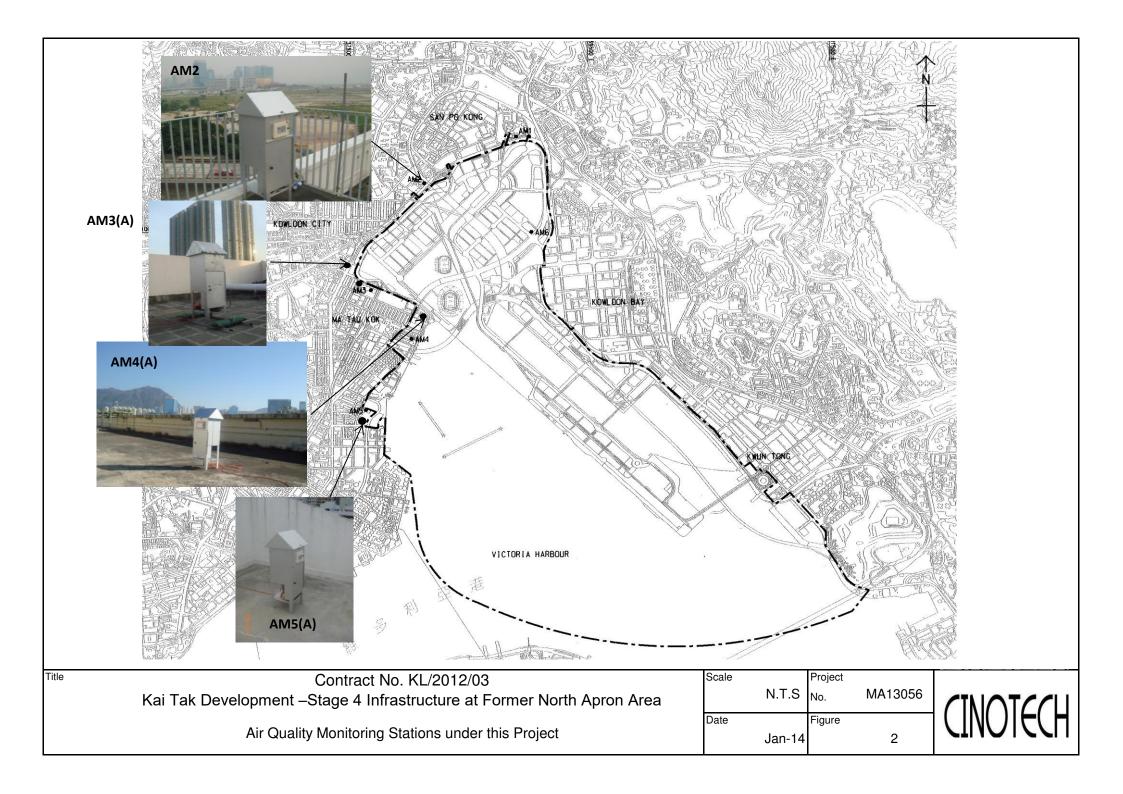
To protect the existing trees to be retained

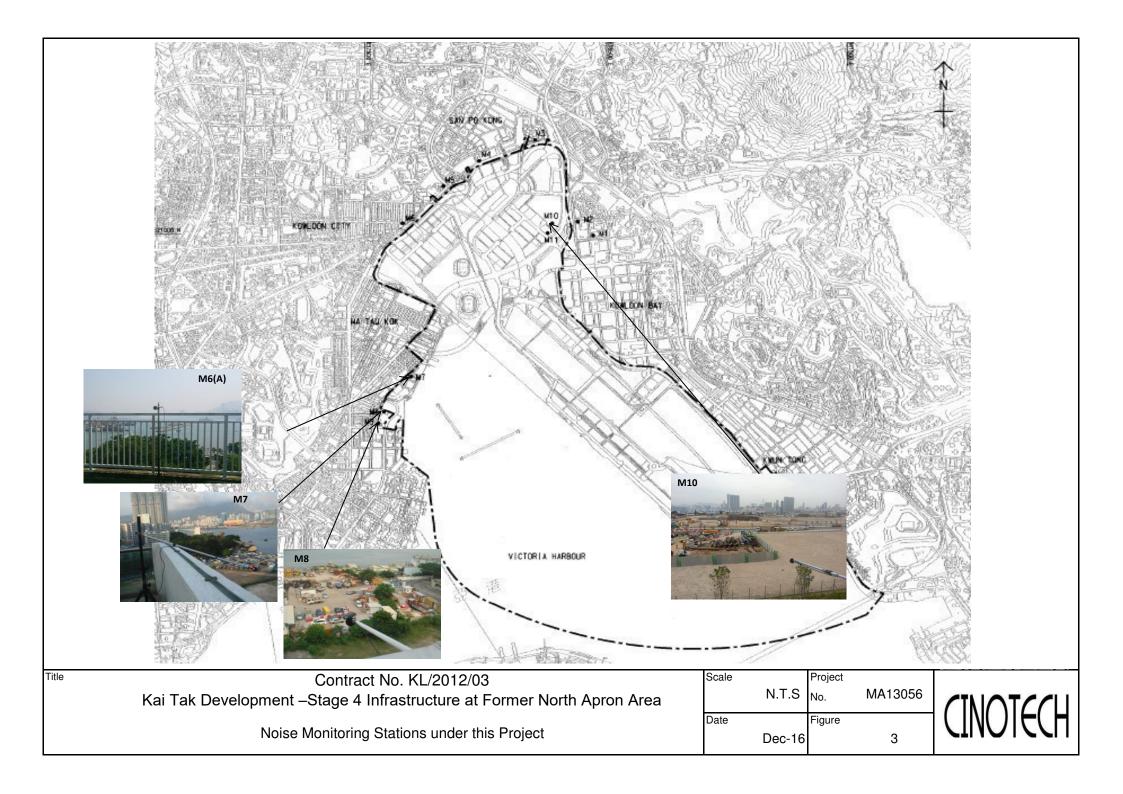


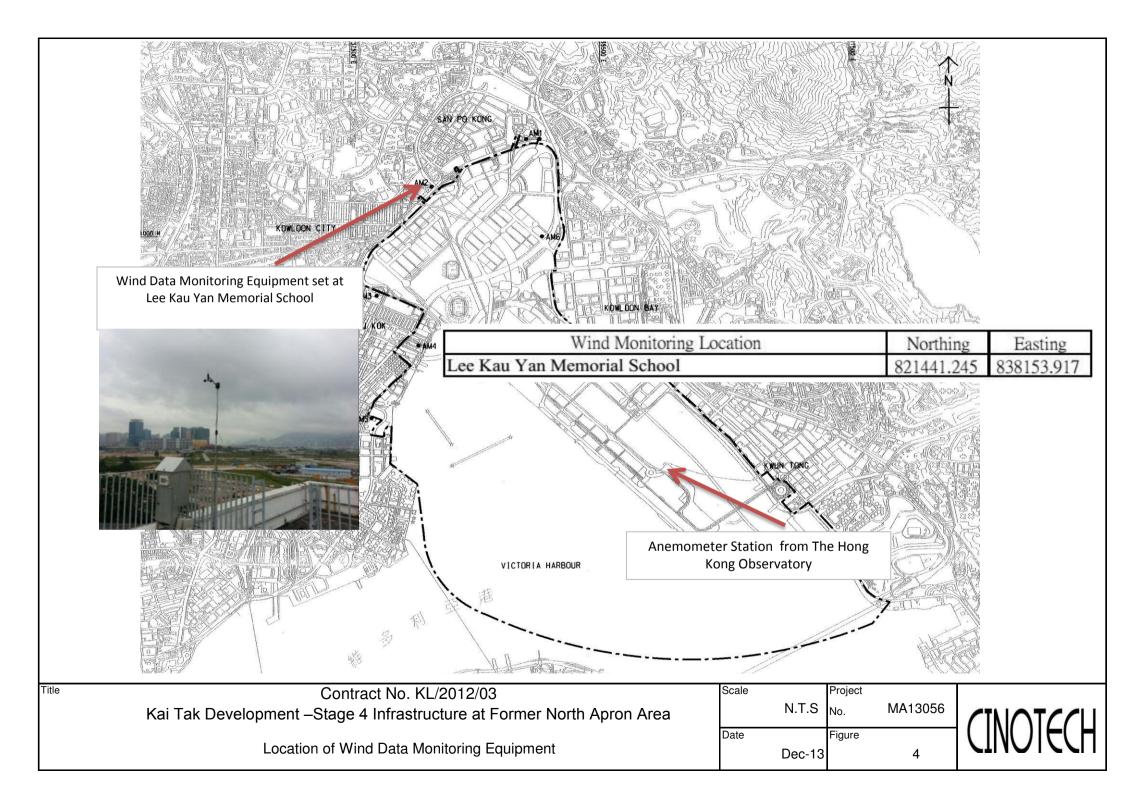
To control of night-time lighting

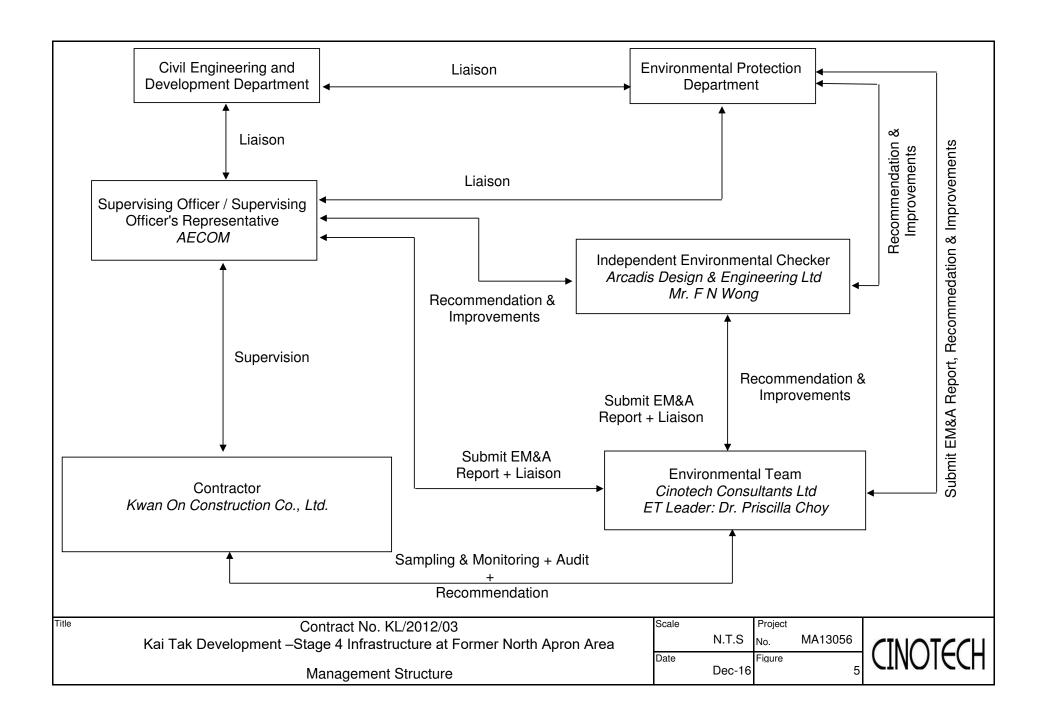
FIGURES











APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Table A-1 Action and Limit Levels for 1-Hour TSP

Location	Action Level, μg/m³	Limit Level, μg/m³
AM2	346	
AM3(A)	351	500
AM4(A)	371	500
AM5(A)	345	

Table A-2 Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m³	Limit Level, μg/m³
AM2	157	
AM3(A)	167	260
AM4(A)	187	260
AM5(A)	156	

Table A-3 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level	
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*	

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



						File No	MA14008/59/0040
Station	AM2 - Lee Kau	Yan Memorial S	School	Operator:	WK		
Date:	20-Jan-17		_ 1	Next Due Date:	: 19-Mar-17		
Equipment No.:	A-01-59		_	Serial No.	2354		
10 mg			Ambient (Condition			
Temperatu	re, Ta (K)	287.8	Pressure, Pa	(mmHg)		770.6	
		O	rifice Transfer Sta	ndard Inform	ation		
Serial	No.:	2896	Slope, mc (CFM)	0.0598	Intercep	t, bc	-0.05079
Last Calibra	ition Date:	4-Mar-16		mc x Qstd + l	oc = [ΔH x (Pa/76	60) x (298/Ta)]	1/2
Next Calibra	ation Date:	3-Mar-17		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} :$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /1	me
							-
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔΗ (orifice), in. of water	[ΔH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/76	0) x (298/Ta)] ^{1/2} Y- axis
1	11.7	3	3.50	59.47	7.6		2.82
2	9.8	:	3.21	54.50	6.5		2.61
3	7.5	2	2.81	47.78	5.1		2.31
4	5.0	1	2.29	39.17	3.2		1.83
5	3.4		1.89	32.45	2.3		1.55
By Linear Regressions, mw = Correlation co	0.0480 pefficient* =	0.9	988	Intercept, bw	-0.014	17	
*If Correlation C	coefficient < 0.99	0, check and rec	alibrate.				
	garage and a second		Set Point C	alculation			
From the TSP Fig		-					
From the Regress	sion Equation, the	e "Y" value acco	ording to				
			$Qstd + bw = [\Delta W]$. (Da/760) (2	A9/7E 0 11/2		
		mw x C	Qstu + υw (Δw)	((Pa/ / 60) X (2	90/1 a)j		
Therefore, Se	et Point; W = (m	w x Qstd + bw) ²	² x (760 / Pa) x (T	Ca / 298)=	4.01		
Remarks:							
•							
•				ſ			
Conducted by: Checked by:	WK Tang	Signature: Signature:	Kwa	$\frac{1}{2}$		Date:	20/1/2017
CHECKER DA!	$-\iota$	orginaluic.		<i></i>		Date:	January doly

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA14008/49/0038

Station	AM3(A) - Holy	Trinity Bradbu	ry Centre	Operator:	WK		
Date:	20-Jan-17		1	- Next Due Date:	19-Mar-17		
Equipment No.:	A-01-49		_	Serial No.	1793		
ma a Coloriata, matro con il coloria				ara da re aras rependantes de servicios de servicios de servicios de servicios de servicios de servicios de se	ignia ngita ngitawa na nasityi tahu (k.		
			Ambient C	Condition			
Temperatu	re, Ta (K)	288.4	Pressure, Pa	(mmHg)		771.5	
Serial	No ·	2896	rifice Transfer Sta Slope, mc (CFM)	i .	Intercept	hc	-0.05079
Last Calibra		4-Mar-16			$c = [\Delta \mathbf{H} \times (\mathbf{Pa}/760)]$		
Next Calibr		3-Mar-17			(Pa/760) x (298/		
		•		<u> </u>		- 71 - 7	
			Calibration of	TSP Sampler			
Calibration		o	rfice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}		Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/	760) x (298/Ta)] ^{1/2} Y-axis
1	11.8		3.52	59.69	7.8		2.86
2	9.7		3.19	54.20	6.5		2.61
3	7.5		2.80	47.76	5.1		2.31
4	5.1	2.31		39.53	3.4		1.89
5	3.4		1.89	32,43	2,1		1.48
	ression of Y on X 0.0504			Intercept, bw =	-0.121	6	
Correlation c		0.	9989			<u> </u>	
	Coefficient < 0.99			•			
		-,					
			Set Point C	alculation			
From the TSP Fi	ield Calibration C	urve, take Qsto	d = 43 CFM				
From the Regres	sion Equation, th	e "Y" value acc	cording to				
		mw x ($Qstd + bw = [\Delta W]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (my	w x Qstd + bw) ² x (760 / Pa) x (′	Ta / 298)=	3.98		
Remarks:							
Conducted by: Checked by:	Wk. 7ang	Signature: Signature:	kwo	ni)		Date:	2011/2017 20 January 2017

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



						File No	MA14008/60/0040
Station	AM5(A) - Po Le	ung Kuk Ngan l	Po Ling College	Operator:	WK		
Date:	20-Jan-17]	Next Due Date:	19-Mar	-17	
Equipment No.:	A-01-60		-	Serial No.	2358		
			Ambient	Condition			
Temperatu	re, Ta (K)	289.5	Pressure, Pa	(mmHg)		770.6	
		0	rifice Transfer Sta	andard Inform	ation		
Serial	No.:	2896	Slope, mc (CFM)	•	Intercep		-0.05079
Last Calibra	ation Date:	4-Mar-16			$\mathbf{pc} = [\Delta \mathbf{H} \ \mathbf{x} \ (\mathbf{Pa}/76)]$		-
Next Calibr	ation Date:	3-Mar-17		$Qstd = \{ \Delta H :$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /	me
		•					
			Calibration of	TSP Sampler			
Calibration		Oi	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[∆W x (Pa/76	50) x (298/Ta)] ^{1/2} Y- axis
1	11.3		3.43	58.29	7.9		2.87
2	9.7		3.18	54.07	6.8		2.66
3	7.6		2.82	47.96	5.3		2.35
4	5.2		2.33	39.81	3.3		1.86
5	3.4		1.88	32.36	2.3		1.55
By Linear Regr Slope , mw = Correlation c	ession of Y on X	-	9983	Intercept, bw	-0.171	0	
	_			_		•	
"II Correlation C	Coefficient < 0.99	o, check and rec	cambrate,				
			Set Point C	alculation			Heritar Control (1997)
From the TSP Fi	eld Calibration C	urve, take Qstd	= 43 CFM				
From the Regress	sion Equation, th	e "Y" value acco	ording to				
		mw y	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	x (Pa/760) x (2	98/Ta) ^{1/2}		
			Quita i arri [iziri	A (X III / 00) II (I	20. 1 u yj		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.13		
						· ·	
Remarks:							
C 1	. d. 7	G	L	. 1		D .	7 / / 7
Conducted by:	WK lang	Signature:		m/		Date:	20 January dol
Checked by:	19~	Signature:		<u>/^</u>		Date:	do January del



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		Rootsmeter Orifice I.I		438320 2896	Ta (K) - Pa (mm) -	295 - 755.65
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.4340 1.0250 0.9150 0.8770 0.7210	3.2 6.4 7.9 8.7 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0001 0.9959 0.9938 0.9928 0.9875	0.6974 0.9716 1.0861 1.1320 1.3696	1.4173 2.0044 2.2410 2.3503 2.8346		0.9957 0.9915 0.9894 0.9885 0.9831	0.6944 0.9674 1.0814 1.1271 1.3636	0.8836 1.2496 1.3971 1.4653 1.7672
Qstd slop intercept coefficie	: (b) = :	2.11176 -0.05079 0.99982		Qa slope intercept coefficie	= (b) $=$	1.32235 -0.03166 0.99982
y axis =	SQRT[H20(F	a/760)(298/7	[a)]	y axis =	SQRT [H20 (T	: :a/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



WELLAB LIMITED

Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/160820

Date of Issue: 2016-08-20

Date Received: 2016-08-20 Date Tested: 2016-08-20

Date Completed: 2016-08-20

Next Due Date: 2017-02-19

ATTN:

Miss Mei Ling Tang

Page:

1 of 2

Certificate of Calibration

Item for calibration:

Description

: Weather Monitor II

Manufacturer

: Davis Instruments

Model No.

: 7440

Serial No.

: MC01010A44

Test conditions:

Room Temperature

: 24 degree Celsius

Relative Humidity

: 56 %

Test Specifications:

- 1. Performance check of anemometer
- 2. Performance check of wind direction sensor

Methodology:

In-house method with reference anemometer (RS232 Integral Vane Digital Anemometer)

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager

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Website: www.wellab.com.hk



TEST REPORT

Test Report No.:	C/160820
Date of Issue:	2016-08-20
Date Received:	2016-08-20
Date Tested:	2016-08-20
Date Completed:	2016-08-20
Next Due Date:	2017-02-19

Page:

2 of 2

Results:

1. Performance check of anemometer

Air Velo	Difference D (m/s)	
Instrument Reading (V1)	D = V1 - V2	
2.00	2.00	0.00

2. Performance check of wind direction sensor

Wind Dire	ection (°)	Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45.2	45	0.2
90.1	90	0.1
134.8	135	-0.2
180.3	180	0.3
225.1	225	0.1
270.2	270	0.2
315.1	315	0.1
360	360	0



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/W/161001
Date of Issue: 2016-10-03
Date Received: 2016-10-01
Date Tested: 2016-10-01
Date Completed: 2016-10-03
Next Due Date: 2017-04-02

ATTN:

Mr. W.K. Tang

Page:

1 of 2

Certificate of Calibration

Item for calibration:

Description
Manufacturer

: Weather Monitor II: Davis Instruments

Model No.

: 7440

Serial No.

: MC20813A11

Test conditions:

Room Temperature

: 23 degree Celsius

Relative Humidity

: 56 %

Test Specifications:

- 1. Performance check of anemometer
- 2. Performance check of wind direction sensor

Methodology:

In-house method with reference anemometer (RS232 Integral Vane Digital Anemometer)

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



TEST REPORT

Test Report No.: C/W/161001
Date of Issue: 2016-10-03
Date Received: 2016-10-01
Date Tested: 2016-10-01
Date Completed: 2016-10-03
Next Due Date: 2017-04-02

Page:

2 of 2

Results:

1. Performance check of anemometer

Air Velo	Difference D (m/s)	
Instrument Reading (V1)	D = V1 - V2	
2.00	2.00	0.00

2. Performance check of wind direction sensor

Wind Direction (°)		Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45.1	45	0.1
90	90	0
135.1	135	0.1
180	180	0
225.2	225	0.2
270.3	270	0.3
315	315	0
360	360	0



ATTN:

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2017-03-08

1 of 1

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/A/170106A
Date of Issue: 2017-01-09
Date Received: 2017-01-06
Date Tested: 2017-01-09
Date Completed: 2017-01-09

Mr. W. K. Tang Page:

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Next Due Date:

Manufacturer

: Sibata

Model No.

: LD-3

Serial No.

: 251634

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 550 CPM

Equipment No.

: A-02-01

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 63 %

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)

0.0037

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/A/170106B
Date of Issue:	2017-01-09
Date Received:	2017-01-06
Date Tested:	2017-01-06
Date Completed:	2017-01-09
Next Due Date:	2017-03-08

ATTN:

Mr. W. K. Tang

Page:

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Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

Serial No.

: 853944

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 685 CPM

Equipment No.

: A-02-04

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 63 %

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF) 0.0038

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/A/170106C
Date of Issue:	2017-01-09
Date Received:	2017-01-06
Date Tested:	2017-01-06
Date Completed:	2017-01-09
Next Due Date:	2017-03-08

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer: SibataModel No.: LD-3BSerial No.: 014750

Sensitivity (K) 1 CPM : 0.001 mg/m³
Sen. Adjustment Scale Setting : 790 CPM
Equipment No. : A-02-06

Test Conditions:

Room Temperature : 22 degree Celsius

Relative Humidity : 63 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

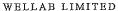
2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

PREPARED AND CHECKED BY:

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/A/170106
Date of Issue:	2017-01-09
Date Received:	2017-01-06
Date Tested:	2017-01-06
Date Completed:	2017-01-09
Next Due Date:	2017-03-08

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial No. : 541146

Sensitivity (K) 1 CPM : 0.001 mg/m³

Sen. Adjustment Scale Setting : 625 CPM Equipment No. : A-02-07

Test Conditions:

Room Temperature : 22 degree Celsius

Relative Humidity : 63 %

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

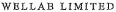
Results:

Correlation Factor (CF)	0.0033

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/161230
Date of Issue:	2017-01-03
Date Received:	2016-12-30
Date Tested:	2016-12-30
Date Completed:	2017-01-03
Next Due Date:	2017-03-02

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata

Model No.

: LD-3B

Serial No.

: 095029 : 0.001 mg/m³

Sensitivity (K) 1 CPM Sen. Adjustment Scale Setting

: 551 CPM

Equipment No.

: A-02-10

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 66 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)

0.0038

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/161230D Date of Issue: 2017-01-03

Date Received: 2016-12-30

Date Tested: 2016-12-30

Date Completed: 2017-01-03

Next Due Date: 2017-03-02

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Dust Monitor

Manufacturer

: Met One Instruments

Model No.

: AEROCET-531

Serial No.

: N6734

Flow rate

:0.1 cfm

Zero Count Test

:0 mg (The result of the 2-minute sample)

Equipment No.

: A-02-13

Test Conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 66 %

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

-		
	Correlation Factor (CF)	1.183

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TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/160917B

Date of Issue: 2016-09-19

Date Received: 2016-09-17 Date Tested: 2016-09-17

Date Completed: 2016-09-19

Next Due Date: 2017-09-18

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 12553

Microphone No.

: 35222

Equipment No.

: N-08-02

Test conditions:

Room Temperatre

: 24 degree Celsius

Relative Humidity

: 57%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.





TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/160917C
Date of Issue: 2016-09-19
Date Received: 2016-09-17
Date Tested: 2016-09-17
Date Completed: 2016-09-19
Next Due Date: 2017-09-18

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer : SVANTEK
Model No. : SVAN 955
Serial No. : 12563
Microphone No. : 34377

Microphone No. Equipment No.

: N-08-03

Test conditions:

Room Temperatre

: 24 degree Celsius

Relative Humidity

: 57%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

 Test Report No.:
 C/N/160826A

 Date of Issue:
 2016-08-29

 Date Received:
 2016-08-26

 Date Tested:
 2016-08-26

 Date Completed:
 2016-08-29

 Next Due Date:
 2017-08-28

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957 : 21455

Serial No.
Microphone No.

: 43730

Equipment No.

: N-08-07

Test conditions:

Room Temperatre

: 25 degree Celsius

Relative Humidity

: 57%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE





TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/160819B
Date of Issue:	2016-08-22
Date Received:	2016-08-19
Date Tested:	2016-08-19
Date Completed:	2016-08-22
Next Due Date:	2017-08-21

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer Model No. : SVANTEK : SVAN 957

Model No. Serial No.

: 21459

Microphone No. Equipment No.

: 43676 : N-08-08

Test conditions:

Room Temperatre

: 24 degree Celsius

Relative Humidity

: 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/161128
Date of Issue: 2016-11-30
Date Received: 2016-11-28
Date Tested: 2016-11-28
Date Completed: 2016-11-30
Next Due Date: 2017-11-29

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 957

Serial No.

: 23853 : 48530

Microphone No. Equipment No.

: N-08-10

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 66%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/161128B

Date of Issue: 2016-11-30

Date Received: 2016-11-28

Date Tested:
Date Completed:

2016-11-28 2016-11-30

Next Due Date:

2010-11-30

Page:

1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer Model No. : SVANTEK : SVAN 957

Serial No.
Microphone No.
Equipment No.

: 23851 : 48532 : N-08-12

. .

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 66%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

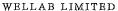
In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.





TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/160919
Date of Issue:	2016-09-21
Date Received:	2016-09-19
Date Tested:	2016-09-19
Date Completed:	2016-09-21
Next Due Date:	2017-09-20

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description : 'SVANTEK' Integrating Sound Level Meter

Manufacturer : SVANTEK
Model No. : SVAN 977
Serial No. : 45467
Microphone No. : 62838

Equipment No. : N-08-13

Test conditions:

Room Temperatre : 22 degree Celsius

Relative Humidity : 56%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

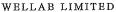
Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PÁTRICK TSE





TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/161216
Date of Issue:	2016-12-19
Date Received:	2016-12-16
Date Tested:	2016-12-16
Date Completed:	2016-12-19
Next Due Date:	2017-12-15

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: Sound & Vibration Analyser

Manufacturer

: BSWA

Model No.

: BSWA 801 : 35924

Serial No. Equipment No.

: N-13-01

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 60 %

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

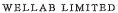
Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE





TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/160930A
Date of Issue:	2016-10-03
Date Received:	2016-09-30
Date Tested:	2016-09-30
Date Completed:	2016-10-03
Next Due Date:	2017-10-02

ATTN:

Mr. W.K. Tang

Page:

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Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24803

Equipment No.

: N-09-03

Test conditions:

Room Temperatre

: 25 degree Celsius

Relative Humidity

: 60%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE





TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/160930B
Date of Issue:	2016-10-03
Date Received:	2016-09-30
Date Tested:	2016-09-30
Date Completed:	2016-10-03
Next Due Date:	2017-10-02

ATTN:

Mr. W.K. Tang

Page:

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Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24791

Equipment No.

: N-09-04

Test conditions:

Room Temperatre

: 25 degree Celsius

Relative Humidity

: 60%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

RATRICK TSE



WELLAB LIMITED

Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/160930C
Date of Issue:	2016-10-03
Date Received:	2016-09-30
Date Tested:	2016-09-30
Date Completed:	2016-10-03
Next Due Date:	2017-10-02

ATTN:

Mr. W.K. Tang

Page:

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Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A : 24780

Serial No. Equipment No.

: N-09-05

Test conditions:

Room Temperatre

: 25 degree Celsius

Relative Humidity

: 60%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.



TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/161104/1
Date of Issue: 2016-11-07
Date Received: 2016-11-04

Date Received: 2016-11-04 Date Tested: 2016-11-04

Date Completed: 2016-11-07 Next Due Date: 2017-11-06

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2326353

Equipment No.

: N-02-01

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 62 %

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	$114.0 \pm 0.1 \mathrm{dB}$

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.





Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/160819D Date of Issue: 2016-08-22

Date Received: 2016-08-19

Date Tested: 2016-08-19

Date Completed: 2016-08-22

Next Due Date: 2017-08-21

ATTN:

Mr. W.K. Tang

Page:

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Certificate of Calibration

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

Test conditions:

Room Temperatre

: 24 degree Celsius

Relative Humidity

: 58%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

APPENDIX C WEATHER INFORMATION

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 February 2017	16.6 – 22.0	66 – 90	Trace
2 February 2017	16.2 – 17.7	79 – 89	Trace
3 February 2017	15.4 – 19.6	62 – 83	0
4 February 2017	16.3 – 20.9	66 – 92	1.6
5 February 2017	16.7 – 22.0	68 – 97	3.3
6 February 2017	16.9 – 19.7	69 – 90	Trace
7 February 2017	15.9 – 18.7	65 – 81	0
8 February 2017	15.5 – 20.6	70 – 86	Trace
9 February 2017	11.1 – 16.8	46 – 81	Trace
10 February 2017	10.8 – 15.6	51 – 62	0
11 February 2017	11.5 – 17.9	41 – 68	0
12 February 2017	12.5 – 19.1	43 – 81	0
13 February 2017	13.1 – 20.1	47 – 79	0
14 February 2017	15.6 – 21.1	45 – 80	0
15 February 2017	15.3 – 20.9	47 – 79	0
16 February 2017	15.4 – 24.0	51 – 82	0
17 February 2017	17.1 – 25.4	56 – 93	0
18 February 2017	18.0 – 24.1	54 – 86	0
19 February 2017	16.4 – 19.1	77 – 90	0.3

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
20 February 2017	18.3 – 25.5	69 – 91	Trace
21 February 2017	16.6 – 21.1	78 – 96	4.6
22 February 2017	16.4 – 21.3	83 – 98	8.0
23 February 2017	15.0 – 20.2	77 – 97	Trace
24 February 2017	12.0 – 15.1	76 – 89	Trace
25 February 2017	10.7 – 13.8	75 – 95	0.7
26 February 2017	10.6 – 17.0	66 – 95	1.4
27 February 2017	15.4 – 19.8	40 – 85	0
28 February 2017	15.1 – 20.8	49 – 83	0

^{*} The above information was extracted from the daily weather summary by Hong Kong Observatory.

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Speed m/s	Direction
1-Feb-2017	0:00	2.6	WSW
1-Feb-2017	1:00	2.8	N
1-Feb-2017	2:00	2.5	N
1-Feb-2017	3:00	2.4	NE
1-Feb-2017	4:00	2.6	NE
1-Feb-2017	5:00	3.1	N
1-Feb-2017	6:00	2.6	N
1-Feb-2017	7:00	2.2	ENE
1-Feb-2017	8:00	2.6	SW
1-Feb-2017	9:00	2.4	W
1-Feb-2017	10:00	2.1	N
1-Feb-2017	11:00	2.2	W
1-Feb-2017	12:00	2.7	WSW
1-Feb-2017	13:00	2.8	N
1-Feb-2017	14:00	2.4	N
1-Feb-2017	15:00	2.8	SSW
1-Feb-2017	16:00	2.3	ENE
1-Feb-2017	17:00	2.2	NNE
1-Feb-2017	18:00	2.1	W
1-Feb-2017	19:00	1.9	W
1-Feb-2017	20:00	2.1	W
1-Feb-2017	21:00	2.1	WSW
1-Feb-2017	22:00	2.1	ESE
1-Feb-2017	23:00	2.0	W
2-Feb-2017	0:00	2.2	WSW
2-Feb-2017	1:00	2.1	SW
2-Feb-2017	2:00	1.9	ESE
2-Feb-2017	3:00	1.7	SSW
2-Feb-2017	4:00	1.9	ENE
2-Feb-2017	5:00	2.2	SSE
2-Feb-2017	6:00	2.3	SSE
2-Feb-2017	7:00	2.4	SSE
2-Feb-2017	8:00	2.3	SSW
2-Feb-2017	9:00	2.4	WSW
2-Feb-2017	10:00	2.5	SSW
2-Feb-2017	11:00	2.1	SSW

2-Feb-2017 12:00 2.2 SSE 2-Feb-2017 13:00 2 NNE 2-Feb-2017 14:00 2.2 W 2-Feb-2017 15:00 2.2 W 2-Feb-2017 16:00 1.9 NNE 2-Feb-2017 17:00 1.5 NE 2-Feb-2017 18:00 1.2 NE 2-Feb-2017 19:00 1.5 SW 2-Feb-2017 20:00 1.7 S 2-Feb-2017 21:00 1.6 SSW 2-Feb-2017 22:00 1.9 ENE 2-Feb-2017 1:00 1.9 ENE 3-Feb-2017 1:00 1.7 SE 3-Feb-2017 1:00 1.7 SE 3-Feb-2017 1:00 1.9 ENE 3-Feb-2017 1:00 1.7 SE 3-Feb-2017 1:00 1.7 NNE 3-Feb-2017 1:00 1.7 NNE 3-Feb-2017 1:00 1.7 NNE 3-Feb-2017 1:00 1.8 NE 3-Feb-2017 1:00 1.9 ENE 3-Feb-2017 1:00 1.9 ENE 3-Feb-2017 1:00 1.7 NNE 3-Feb-2017 1:00 1.8 NE 3-Feb-2017 1:00 1.8 NE 3-Feb-2017 1:00 1.8 NE 3-Feb-2017 1:00 2 E 3-Feb-2017 1:00 2.1 NNE 3-Feb-2017 1:00 2.1 NNE 3-Feb-2017 1:00 1.8 NE 3-Feb-2017 1:00 1.9 ENE 3-Feb-2017 1:00 1.9 ENE 3-Feb-2017 1:00 1.4 NE 3-Feb-2017 1:00 1.5 NE 3-Feb-2017 1:00 1.5 NE 3-Feb-2017 1:00 1.1 NE 3-Feb-2017 1:00 1.5 NE		T	Т	
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5-Feb-2017	23:00	1.1	NW
6-Feb-2017	0:00	1.3	NW
6-Feb-2017	1:00	1.7	WNW
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6-Feb-2017	3:00	1.2	ENE
6-Feb-2017	4:00	1.6	WNW
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6-Feb-2017	19:00	0.8	WNW
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7-Feb-2017	3:00	1.2	WNW
7-Feb-2017	4:00	0.8	NE
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7-Feb-2017	14:00	1.7	N
7-Feb-2017	15:00	1.8	NE
7-Feb-2017	16:00	1.6	NE
7-Feb-2017	17:00	1.7	ENE
7-Feb-2017	18:00	1.6	NNE
7-Feb-2017	19:00	1.8	NNE
7-Feb-2017	20:00	2	N
7-Feb-2017	21:00	1.4	NNE
7-Feb-2017	22:00	1.5	NE
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8-Feb-2017	1:00	0.6	NE
8-Feb-2017	2:00	0.5	NNE
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8-Feb-2017	9:00	2	ENE
8-Feb-2017	10:00	2.1	NE
8-Feb-2017	11:00	3.2	ENE
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10-Feb-2017	11:00	1.5	ESE
10-Feb-2017	12:00	1.9	ENE
10-Feb-2017	13:00	1.7	SW
10-Feb-2017	14:00	1.9	NNE
10-Feb-2017	15:00	1.8	NE
10-Feb-2017	16:00	1.7	ENE
10-Feb-2017	17:00	2.2	ENE
10-Feb-2017	18:00	1.4	NE
10-Feb-2017	19:00	0.7	NNE
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21-Feb-2017	5:00	0.7	NE
21-Feb-2017	6:00	2.3	NE
21-Feb-2017	7:00	2	NE
21-Feb-2017	8:00	1.5	NE
21-Feb-2017	9:00	1.5	ENE
21-Feb-2017	10:00	1.7	NE
21-Feb-2017	11:00	1.3	NE
21-Feb-2017	12:00	1.6	ENE
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22-Feb-2017	1:00	1.8	ENE
22-Feb-2017	2:00	1.9	ESE
22-Feb-2017	3:00	1.4	ENE
22-Feb-2017	4:00	2	ENE
22-Feb-2017	5:00	1.4	ENE
22-Feb-2017	6:00	0.9	NE
22-Feb-2017	7:00	1.2	NE
22-Feb-2017	8:00	1.1	NE
22-Feb-2017	9:00	1.4	ENE
22-Feb-2017	10:00	2	ENE
22-Feb-2017	11:00	2.2	ENE
22-Feb-2017	12:00	2.3	ENE
	•		•

22-Feb-2017	13:00	2.5	ENE
22-Feb-2017	14:00	2.9 SSE	
22-Feb-2017	15:00	3.2	ENE
22-Feb-2017	16:00	3.2	Е
22-Feb-2017	17:00	2.9	ENE
22-Feb-2017	18:00	2.5	SSE
22-Feb-2017	19:00	2.5	E
22-Feb-2017	20:00	1.4	E
22-Feb-2017	21:00	2	ESE
22-Feb-2017	22:00	2	SE
22-Feb-2017	23:00	1.3	ENE
23-Feb-2017	0:00	1.1	ENE
23-Feb-2017	1:00	1.2	ESE
23-Feb-2017	2:00	1.3	SSE
23-Feb-2017	3:00	1.3	ESE
23-Feb-2017	4:00	1.1	ENE
23-Feb-2017	5:00	1	ENE
23-Feb-2017	6:00	1.3	Е
23-Feb-2017	7:00	1.1	NNE
23-Feb-2017	8:00	1.3	ENE
23-Feb-2017	9:00	1.6	NE
23-Feb-2017	10:00	2.1	NE
23-Feb-2017	11:00	2.1	NE
23-Feb-2017	12:00	2.3	ESE
23-Feb-2017	13:00	2.1	SW
23-Feb-2017	14:00	2.3	SE
23-Feb-2017	15:00	2.3	SW
23-Feb-2017	16:00	1.9	NW
23-Feb-2017	17:00	1.8	ESE
23-Feb-2017	18:00	1.9	ENE
23-Feb-2017	19:00	1.8	ENE
23-Feb-2017	20:00	2	ENE
23-Feb-2017	21:00	1.8	SW
23-Feb-2017	22:00	2.1	SE
23-Feb-2017	23:00	2.2	ENE
24-Feb-2017	0:00	2.3	W
24-Feb-2017	1:00	1.6	N
-			

24-Feb-2017	2:00	1.5	NE
24-Feb-2017 24-Feb-2017	3:00	1.4	NE NE
24-Feb-2017	4:00	1.4	SSW
24-Feb-2017	5:00	1.8	SSW
24-Feb-2017	6:00	2.3	SE
24-Feb-2017	7:00	2.2	SE
24-Feb-2017	8:00	2.8	ENE
24-Feb-2017	9:00	3	NNE
24-Feb-2017	10:00	3.2	NE
24-Feb-2017	11:00	3.4	NNE
24-Feb-2017	12:00	3.7	NNE
24-Feb-2017	13:00	3.8	NNE
24-Feb-2017	14:00	4.1	ENE
24-Feb-2017	15:00	3.7	NE
24-Feb-2017	16:00	3.6	NE
24-Feb-2017	17:00	3.4	NE
24-Feb-2017	18:00	2.6	NE
24-Feb-2017	19:00	2.8	ENE
24-Feb-2017	20:00	2.5	ENE
24-Feb-2017	21:00	1.9	ENE
24-Feb-2017	22:00	2.1	NE
24-Feb-2017	23:00	2.5	ENE
25-Feb-2017	0:00	1.5	NNE
25-Feb-2017	1:00	1.1	E
25-Feb-2017	2:00	1.1	NE
25-Feb-2017	3:00	0.9	NE
25-Feb-2017	4:00	1	ENE
25-Feb-2017	5:00	1.1	NE
25-Feb-2017	6:00	1.1	ENE
25-Feb-2017	7:00	1.1	NNE
25-Feb-2017	8:00	1.1	NNE
25-Feb-2017	9:00	1.1	S
25-Feb-2017	10:00	1.7	NNE
25-Feb-2017	11:00	1.8	N
25-Feb-2017	12:00	1.5	NNE
25-Feb-2017	13:00	1.1	NNE
25-Feb-2017	14:00	1.2	WNW
	1		1

25-Feb-2017	15:00	1	SSE
25-Feb-2017	16:00	1.1	ESE
25-Feb-2017	17:00	1.6	ESE
25-Feb-2017	18:00	1.3	SSE
25-Feb-2017	19:00	0.8	SSE
25-Feb-2017	20:00	0.8	SSE
25-Feb-2017	21:00	0.7	SE
25-Feb-2017	22:00	0.6	SE
25-Feb-2017	23:00	0.6	SE
26-Feb-2017	0:00	0.4	SSE
26-Feb-2017	1:00	0.5	SSE
26-Feb-2017	2:00	0.4	SSE
26-Feb-2017	3:00	0.5	NE
26-Feb-2017	4:00	0.5	ENE
26-Feb-2017	5:00	0.4	ENE
26-Feb-2017	6:00	0.4	ENE
26-Feb-2017	7:00	0.6	ENE
26-Feb-2017	8:00	1.4	Е
26-Feb-2017	9:00	2.1	ENE
26-Feb-2017	10:00	2.4	E
26-Feb-2017	11:00	3	Е
26-Feb-2017	12:00	2.8	ENE
26-Feb-2017	13:00	2.7	ESE
26-Feb-2017	14:00	2.8	ENE
26-Feb-2017	15:00	2.4	SSE
26-Feb-2017	16:00	2.2	ESE
26-Feb-2017	17:00	1.8	ENE
26-Feb-2017	18:00	1.7	ESE
26-Feb-2017	19:00	1	ESE
26-Feb-2017	20:00	1	ESE
26-Feb-2017	21:00	0.4	ESE
26-Feb-2017	22:00	1.4	ESE
26-Feb-2017	23:00	1.6	SW
27-Feb-2017	0:00	2	ESE
27-Feb-2017	1:00	1.9	NNE
27-Feb-2017	2:00	1.9	S
27-Feb-2017	3:00	1.8	SSE

27-Feb-2017	4:00	1.9	N
27-Feb-2017 27-Feb-2017	5:00	1.4 WSW	
			ENE
27-Feb-2017	6:00	1.6	
27-Feb-2017	7:00	1.3	N
27-Feb-2017	8:00	1.5	ENE
27-Feb-2017	9:00	1.8	ENE
27-Feb-2017	10:00	2.1	ENE
27-Feb-2017	11:00	2	SSE
27-Feb-2017	12:00	2.7	SSE
27-Feb-2017	13:00	3.1	E
27-Feb-2017	14:00	2.6	ENE
27-Feb-2017	15:00	2.4	SW
27-Feb-2017	16:00	2.4	S
27-Feb-2017	17:00	1.9	SSW
27-Feb-2017	18:00	1.6	SE
27-Feb-2017	19:00	1.1	SSE
27-Feb-2017	20:00	1.8	Ν
27-Feb-2017	21:00	1.7	SE
27-Feb-2017	22:00	1.3	SSW
27-Feb-2017	23:00	1.6	SSE
28-Feb-2017	0:00	1.5	N
28-Feb-2017	1:00	1.7	NE
28-Feb-2017	2:00	1.3	ENE
28-Feb-2017	3:00	1.1	NNE
28-Feb-2017	4:00	1.8	Е
28-Feb-2017	5:00	1.4	Е
28-Feb-2017	6:00	1.9	Е
28-Feb-2017	7:00	1.8	E
28-Feb-2017	8:00	2.1	NE
28-Feb-2017	9:00	1.5	E
28-Feb-2017	10:00	1.6	NE
28-Feb-2017	11:00	1.8	E
28-Feb-2017	12:00	2.2	SE
28-Feb-2017	13:00	2.1	SE
28-Feb-2017	14:00	1.8	ESE
28-Feb-2017	15:00	2	SSW
28-Feb-2017	16:00	2	S
	1		_

28-Feb-2017	17:00	1.7	SSW
28-Feb-2017	18:00	2.1	SSE
28-Feb-2017	19:00	1.8	SSE
28-Feb-2017	20:00	1.2	S
28-Feb-2017	21:00	1.7	SSW
28-Feb-2017	22:00	2	ENE
28-Feb-2017	23:00	2	N

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area Impact Air and Noise Monitoring Schedule for February 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
			1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M9)	Noise (M6(A) and M7)	
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
	1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(B) & AM5(A) Noise (M8)		Noise (M9) 24 hr TSP	1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(B) & AM5(A) Noise (M6(A) and M7)		
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
		Noise (M9) 24 hr TSP	1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(B) & AM5(A) Noise (M8)	Noise (M6(A) and M7)		
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
	Noise (M9)	1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(B) & AM5(A) Noise (M8)			Noise (M6(A) and M7)	
	24 hr TSP				24 hr TSP	
26-Feb	27-Feb 1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(B) & AM5(A) Noise (M8)	28-Feb				

Air Quality Monitoring Station

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02

AM2 - Lee Kau Yan Memorial School

AM3(A) - Holy Trinity Bradbury Centre

AM4(B) - Ma Tau Kok Road (next to EMSD workshops) (Temporary)

AM5(A) - Po Leung Kuk Ngan Po Ling College

Noise Monitoring Station

M6(A) - Oblate Primary School M7 - CCC Kei To Secondary School M8 - Po Leung Kuk Ngan Po Ling College

M9 - Tak Long Estate

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for March 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar	3-Mar	4-Mar
				Noise (M9) 24 hr TSP	1 hr TSP X3 AM1(B), AM2, AM3(A), AM4(B) & AM5(A) Noise (M6(A) and M7)	
5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
			24 hr TSP			
12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Air Quality Monitoring Station

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02

AM2 - Lee Kau Yan Memorial School

AM3(A) - Holy Trinity Bradbury Centre

AM4(B) - Ma Tau Kok Road (next to EMSD workshops) (Temporary)

AM5(A) - Po Leung Kuk Ngan Po Ling College

Noise Monitoring Station

M6(A) - Oblate Primary School M7 - CCC Kei To Secondary School M8 - Po Leung Kuk Ngan Po Ling College

M9 - Tak Long Estate

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

Location AM2 - Lee Kau Yan Memorial School					
Date	Time	Weather	Particulate Concentration (μg/m3)		
1-Feb-17	8:40	Sunny	143.8		
1-Feb-17	9:40	Sunny	139.1		
1-Feb-17	10:40	Sunny	139.2		
6-Feb-17	9:00	Sunny	236.2		
6-Feb-17	10:00	Sunny	238.3		
6-Feb-17	11:00	Sunny	243.5		
9-Feb-17	9:00	Sunny	76.6		
9-Feb-17	10:00	Sunny	77.4		
9-Feb-17	11:00	Sunny	76.1		
15-Feb-17	9:00	Sunny	134.0		
15-Feb-17	10:00	Sunny	143.4		
15-Feb-17	11:00	Sunny	128.9		
21-Feb-17	13:00	Cloudy	202.5		
21-Feb-17	14:00	Cloudy	198.2		
21-Feb-17	15:00	Cloudy	201.9		
27-Feb-17	9:00	Cloudy	100.6		
27-Feb-17	10:00	Cloudy	108.7		
27-Feb-17	11:00	Cloudy	109.1		
	·	Average	149.9		
		Maximum	243.5		
		Minimum	76.1		

Location AM3(A) - Holy Trinity Bradbury Centre					
Date	Time	Weather	Particulate Concentration (μg/m3)		
1-Feb-17	13:00	Sunny	140.3		
1-Feb-17	14:00	Sunny	139.5		
1-Feb-17	15:00	Sunny	142.4		
6-Feb-17	13:00	Sunny	190.7		
6-Feb-17	14:00	Sunny	201.5		
6-Feb-17	15:00	Sunny	196.1		
9-Feb-17	13:00	Sunny	100.5		
9-Feb-17	14:00	Sunny	99.2		
9-Feb-17	15:00	Sunny	100.8		
15-Feb-17	13:00	Sunny	112.4		
15-Feb-17	14:00	Sunny	118.6		
15-Feb-17	15:00	Sunny	126.0		
21-Feb-17	9:00	Cloudy	254.3		
21-Feb-17	10:00	Cloudy	249.1		
21-Feb-17	11:00	Cloudy	241.5		
27-Feb-17	9:00	Cloudy	135.2		
27-Feb-17	10:00	Cloudy	131.6		
27-Feb-17	11:00	Cloudy	121.6		
		Average	155.6		
		Maximum	254.3		
		Minimum	99.2		

MA13056/App E - 1hr TSP Cinotech

Appendix E - 1-hour TSP Monitoring Results

Location AM4(B) - Ma Tau Kok Road (next to EMSD workshops) (Temporary)				
Date	Time	Weather	Particulate Concentration (μg/m3)	
1-Feb-17	9:00	Sunny	136.3	
1-Feb-17	10:00	Sunny	137.9	
1-Feb-17	11:00	Sunny	137.1	
6-Feb-17	9:00	Sunny	197.9	
6-Feb-17	10:00	Sunny	203.9	
6-Feb-17	11:00	Sunny	199.2	
9-Feb-17	13:00	Cloudy	100.3	
9-Feb-17	14:00	Cloudy	107.5	
9-Feb-17	15:00	Cloudy	103.0	
15-Feb-17	13:00	Sunny	206.7	
15-Feb-17	14:00	Sunny	210.5	
15-Feb-17	15:00	Sunny	193.0	
21-Feb-17	13:00	Cloudy	187.1	
21-Feb-17	14:00	Cloudy	187.9	
21-Feb-17	15:00	Cloudy	189.9	
27-Feb-17	9:00	Cloudy	148.1	
27-Feb-17	10:00	Cloudy	160.4	
27-Feb-17	11:00	Cloudy	157.5	
	·	Average	170.2	
		Maximum	210.5	
		Minimum	100.3	

Location AM5(A) - Po Leung Kuk Ngan Po Ling College				
Date	Time	Weather	Particulate Concentration (μg/m3)	
1-Feb-17	13:30	Sunny	146.7	
1-Feb-17	14:30	Sunny	143.1	
1-Feb-17	15:30	Sunny	144.6	
6-Feb-17	8:45	Sunny	184.2	
6-Feb-17	9:45	Sunny	190.2	
6-Feb-17	10:45	Sunny	187.7	
9-Feb-17	8:30	Cloudy	85.3	
9-Feb-17	9:30	Cloudy	91.7	
9-Feb-17	10:30	Cloudy	90.8	
15-Feb-17	13:00	Sunny	135.2	
15-Feb-17	14:00	Sunny	129.6	
15-Feb-17	15:00	Sunny	133.9	
21-Feb-17	13:00	Cloudy	186.5	
21-Feb-17	14:00	Cloudy	185.2	
21-Feb-17	15:00	Cloudy	186.7	
27-Feb-17	13:00	Cloudy	106.7	
27-Feb-17	14:00	Cloudy	117.4	
27-Feb-17	15:00	Cloudy	100.8	
		Average	141.5	
		Maximum	190.2	
		Minimum	85.3	

MA13056/App E - 1hr TSP Cinotech

1-hr TSP Concentration Levels AM2 - Lee Kau Yan Memorial School Action Level: 346 µg/m3 Pipe laying from manhole SMH2204 to Box Culvert B6 Installation of gas pipe at pit no. 10 Limit Level: 500 μg/m3 Installation of precast unit and construction of in-situ portions of Box Culvert B6 600 500 Concentration, µg/m³ Construction of superstructure of PS2 and NPS Construction of washout chamber at pit no. 11 400 300 Installation of DCS Laying of rising mains from PS2 to chainage CHA-18 200 100 0 ~ 03K800,1 17.40v, 6 53.40y.6 28.404.16 1,10ec,16 Partour /6 22-387-7 28-Jan-1 09.F80.17 15/60/17 Date - 1-hour TSP AM3(A) - Holy Trinity Bradbury Centre Action Level: 351 μg/m3 Limit Level: 500 μg/m3 Pipe laying from manhole SMH2204 to Box Culvert B6 600 500 Concentration, µg/m³ Construction of superstructure of PS2 and NPS 400 300 Installation of DCS Construction of washout chamber at pit no. 11 200 100 0 18 HOV 16 J.S. MON'NO + 0 30.H04.16 No.Dec. No 20:Dec. 16 2d-Jan-1 29-181-1 option /o J.S. Coc. 30.Dec. 16 od-Jan 1 na Jan 1 19-Jan 1 09-Jan 1 Date

Tit	le Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area	Scale	N.T.S	Project No.	MA13056	CINOTECH
	Graphical Presentation of 1-hour TSP Monitoring Results	Date	Feb 17	Appendi	ix E	CINOIECH

1-hr TSP Concentration Levels AM4(B) - Ma Tau Kok Road (next to EMSD workshops) (Temporary) Pipe laying from manhole SMH2204 to Box Culvert B6 Construction of jacking pits nos. 1 & 2 Installation of precast unit and construction of in-situ portions of Box Culvert B6 Limit Level: 500 µg/m3 600 500 Concentration, µg/m³ Construction of washout chamber at pit no. 11 Construction of superstructure of PS2 and NPS 400 Laying of rising mains from PS2 to chainage CHA-18 Installation of DCS 300 Installation of gas pipe at pit no. 10 200 100 0 08-F887-1 1, Kebr. 1 Date 1-hour TSP AM5(A) - Po Leung Kuk Ngan Po Ling College Pipe laying from manhole SMH2204 to Box Culvert B6 Construction of jacking pits nos. 1 & 2 Installation of precast unit and construction of in-situ portions of Box Culvert B6 600 Concentration, µg/m3 500 Construction of superstructure of PS2 and NPS Construction of washout chamber at pit no. 11 400 Laying of rising mains from PS2 to chainage CHA-18 300 Installation of DCS 200 100 0 Date Title Contract No. KL/2012/03 Scale Project Kai Tak Development - Stage 4 Infrastructure at Former North Apron No. N.T.S MA13056 CINOTECH Appendix Date Graphical Presentation of 1-hour TSP Monitoring Results Ε Feb 17

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM2 - Lee Kau Yan Memorial School

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Feb-17	Sunny	289.5	771.0	3.6287	3.6970	0.0683	17741.5	17765.5	24.0	1.24	1.24	1.24	1785.9	38.2
8-Feb-17	Cloudy	291.3	765.0	3.6079	3.6908	0.0829	17765.5	17789.5	24.0	1.23	1.23	1.23	1773.5	46.7
14-Feb-17	Sunny	291.6	774.6	3.6026	3.7446	0.1420	17789.5	17813.5	24.0	1.24	1.24	1.24	1783.6	79.6
20-Feb-17	Sunny	292.3	763.9	3.6124	3.6983	0.0859	17813.5	17837.5	24.0	1.20	1.20	1.20	1731.3	49.6
24-Feb-17	Cloudy	283.5	769.4	3.6333	3.6747	0.0414	17844.2	17868.2	24.0	1.23	1.22	1.23	1764.1	23.5
													Min	23.5
													Max	79.6
													Average	47.5

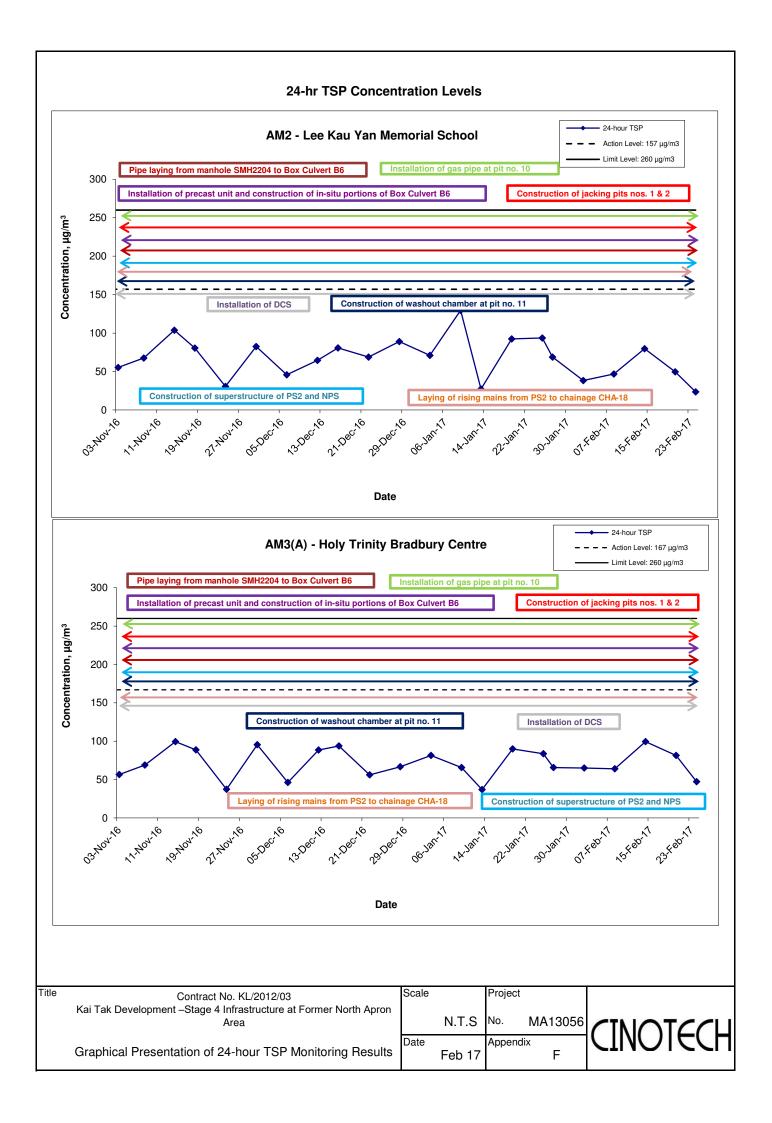
Location AM3(A) - Holy Trinity Bradbury Centre

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
2-Feb-17	Sunny	290.4	770.1	3.5791	3.6948	0.1157	10239.6	10263.6	24.0	1.24	1.24	1.24	1781.8	64.9
8-Feb-17	Cloudy	290.6	765.7	3.5953	3.7089	0.1136	10263.6	10287.6	24.0	1.23	1.23	1.23	1776.1	64.0
14-Feb-17	Sunny	290.7	774.7	3.5937	3.7714	0.1777	10287.6	10311.6	24.0	1.24	1.24	1.24	1786.1	99.5
20-Feb-17	Sunny	292.5	763.6	3.5963	3.7374	0.1411	10311.6	10335.6	24.0	1.20	1.20	1.20	1734.5	81.4
24-Feb-17	Cloudy	284.2	769.3	3.6195	3.7028	0.0833	10336.6	10360.6	24.0	1.23	1.22	1.23	1764.4	47.2
_													Min	47.2
													Max	99.5
													Average	71.4

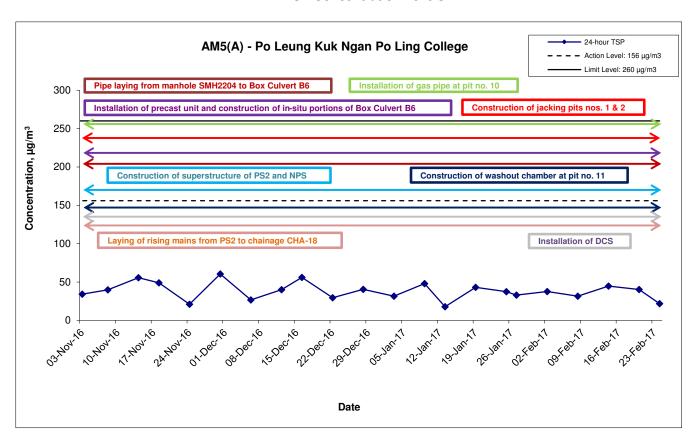
Location AM5(A) - Po Leung Kuk Ngan Po Ling College

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
2-Feb-17	Sunny	291.3	770.5	3.5733	3.6402	0.0669	2811.1	2835.1	24.0	1.23	1.23	1.23	1774.6	37.7
8-Feb-17	Cloudy	290.4	764.3	3.6272	3.6831	0.0559	2835.1	2859.1	24.0	1.23	1.23	1.23	1770.5	31.6
14-Feb-17	Sunny	291.8	775.4	3.6570	3.7366	0.0796	2859.1	2883.1	24.0	1.24	1.23	1.23	1778.4	44.8
20-Feb-17	Sunny	292.1	765.7	3.6089	3.6787	0.0698	2883.1	2907.1	24.0	1.20	1.20	1.20	1732.8	40.3
24-Feb-17	Cloudy	282.9	769.2	3.5753	3.6139	0.0386	2915.1	2939.1	24.0	1.22	1.22	1.22	1762.3	21.9
													Min	21.9
													Max	44.8
													Average	35.2

MA13056/App F - 24hr TSP Cinotech



24-hr TSP Concentration Levels



Title Contract No. KL/2012/03
Kai Tak Development –Stage 4 Infrastructure at Former North Apron
Area

Graphical Presentation of 24-hour TSP Monitoring Results

Scale Project

N.T.S No. MA13056

Date Appendix F



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location M6(A	A) - Oblate P	rimary Schoo	ol				
					Un	it: dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
3-Feb-17	13:50	Cloudy	58.9	60.7	56.1		58.9 Measured ≤ Baseline
9-Feb-17	13:00	Sunny	62.2 64.4		59.3	63.9	62.2 Measured ≤ Baseline
16-Feb-17	13:00	Sunny	60.1	61.7	58.0	03.9	60.1 Measured ≤ Baseline
24-Feb-17	10:15	Cloudy	61.1	62.6	58.4		61.1 Measured ≤ Baseline

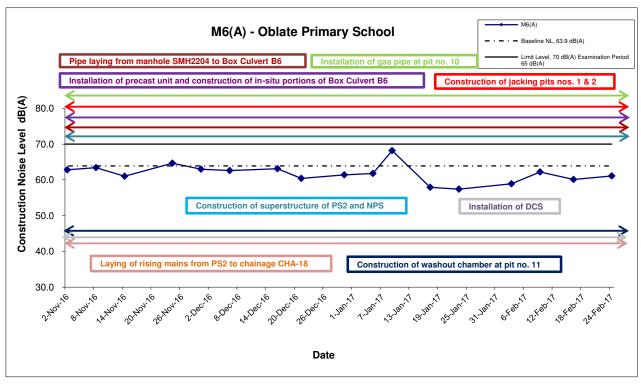
Location M7 -	Location M7 - CCC Kei To Secondary School												
					Un	it: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level						
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}						
3-Feb-17	13:10	Cloudy	61.8	62.8	60.0		61.8 Measured ≤ Baseline						
9-Feb-17	14:00	Sunny	70.5	72.9	66.7	68.7	65.8						
16-Feb-17	13:40	Sunny	70.8	81.1	66.0	00.7	66.6						
24-Feb-17	9:30	Cloudy	71.1	72.9	67.9		67.4						

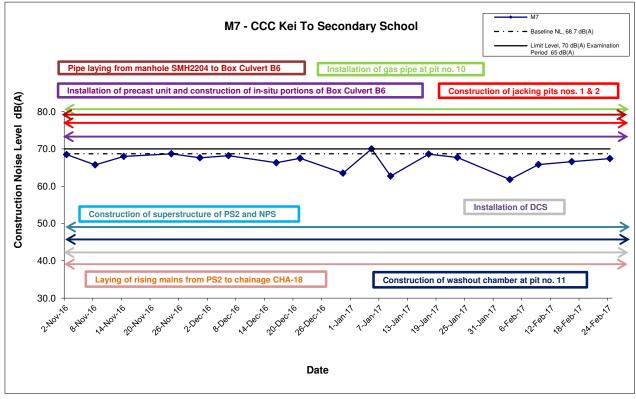
Location M8 -	Po Leung k	(uk Ngan Po I	ing College)			
Date	Time	Weather	Mea	sured Noise	Level	Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
1-Feb-17	14:30	Sunny	59.5	60.3	58.1		59.5 Measured ≤ Baseline
6-Feb-17	8:55	Sunny	64.8	67.4	62.3		61.7
15-Feb-17	14:10	Sunny	66.6	68.6	63.1	61.9	64.8
21-Feb-17	15:15	Cloudy	68.6	70.8	65.1		67.6
27-Feb-17	13:10	Cloudy	70.3	72.8	66.4		69.6

Location M9	- Tak Long E	state					
					Un	it: dB (A) (30-min)	
Date	Time	Weather	Mea	sured Noise I	Level	Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
2-Feb-17	14:30	Cloudy	63.1	65.3	58.3		60.3
8-Feb-17	14:15	Cloudy	63.8	65.7	60.2	FO 0	61.5
14-Feb-17	15:00	Sunny	59.8	60.9	58.3	59.9	59.8 Measured ≤ Baseline
20-Feb-17	14:00	Sunny	65.8	69.2	64.3		64.5

MA13056/App G - Noise Cinotech

Noise Levels

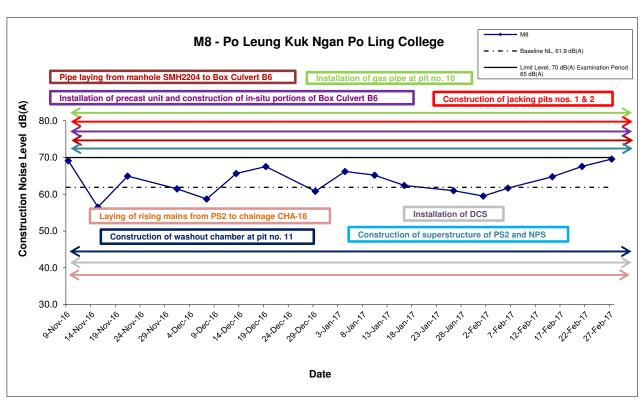


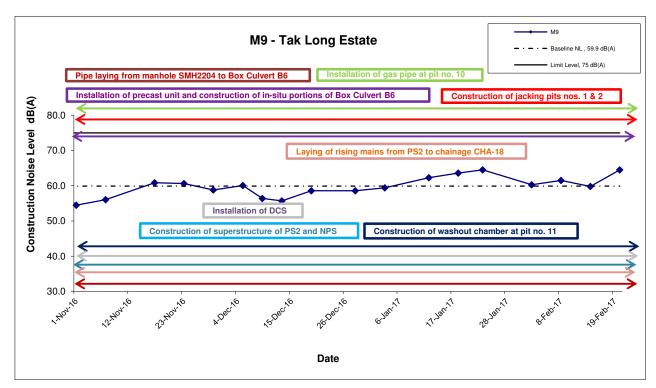


Remarks: The construction noise levels in the Tables in Appendix G were adopted for plotting the graphs

Title	Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area	Scale	N.T.S	Project No. MA13056	CINOTECH
	Graphical Presentation of Construction Noise Monitoring Results	Date	Feb 17	Appendix G	

Noise Levels





Remarks: The construction noise levels in the Tables in Appendix G were adopted for plotting the graphs

Title	Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area	Scale	N.T.S	Project No. MA13056	CINOTCCL
	Graphical Presentation of Construction Noise Monitoring Results	Date	Feb 17	Appendix G	CINOICCI

APPENDIX H SUMMARY OF EXCEEDANCE

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. KL/2012/03

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Landscape and Visual (NIL in the reporting month)

APPENDIX I SITE AUDIT SUMMARY

Contract No. KL/2012/03

Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-337/2009 - New Distributor Roads serving the Planned Kai Tak Development

Checklist Reference Number	170203
Date	3 February 2017
Time	10:00-12:00

Ref. No.	Non-Compliance	Related Item No
IXCI, IXU,	None identified	Hem No
-	None Identified	
Y		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
117.16	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170126), no major environmental	
	deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	(b - e	3 February 2017
Checked by	Dr. Priscilla Choy	65	3 February 2017
		7770	· · · · · · · · · · · · · · · · · · ·

Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-337/2009 - New Distributor Roads serving the Planned Kai Tak Development

Checklist Reference Number	170210
Date	10 February 2017
Time	10:00-12:00

Ref. No.	Non Compliance	Related Item No.
Nel. No.	Non-Compliance None identified	item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170203), no major environmental	
	deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	Co	10 February 2017
Checked by	Dr. Priscilla Choy	WI	10 February 2017

Contract No. KL/2012/03

Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-337/2009 - New Distributor Roads serving the Planned Kai Tak Development

Checklist Reference Number	170217
Date	17 February 2017
Time	10:00-12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	_
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
-	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	Follow-up on previous audit section (Ref. No.: 170210), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	(i = -e	17 February 2017
Checked by	Dr. Priscilla Choy	WI	17 February 2017

Contract No. KL/2012/03

Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-337/2009 - New Distributor Roads serving the Planned Kai Tak Development

Checklist Reference Number	170222
Date	22 February 2017
Time	14:00-15:00

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
	·	Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
·	E. Waste / Chemical Management	
170222-R01	Provide drip tray to chemical containers near generator set at Portion 7B.	E 1iii
170222-R02	General refuse deposited near KO site office should be properly placed in rubbish bins.	E 9
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170217), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	(bie	22 February 2017
Checked by	Dr. Priscilla Choy	W.Z.	22 February 2017

Checklist Reference Number	170203
Date	3 February 2017
Time	10:00-12:00

Ref. No.	Non-Compliance	Related Item No
_	None identified	-
Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170126), all environmental deficiencies were observed rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Carrie Leung	(be	3 February 2017
Checked by	Dr. Priscilla Choy	NY_	3 February 2017

Contract No. KL/2012/03

Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-344/2009 - New Sewage Pumping Stations serving Kai Tak Development

Checklist Reference Number	170210
Date	10 February 2017
Time	10:00-12:00

		Related
Ref. No.	Non-Compliance	Item No
-	None identified	
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
,	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
•••	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170203), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	Clarie	10 February 2017
Checked by	Dr. Priscilla Choy	NT	10 February 2017

Contract No. KL/2012/03

Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-344/2009 - New Sewage Pumping Stations serving Kai Tak Development

Checklist Reference Number	170217
Date	17 February 2017
Time	10:00-12:00

		Related
Ref. No.	Non-Compliance	Item No
=	None identified	
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170210), no major environmental deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Carrie Leung	(2 · · ·	17 February 2017
Checked by	Dr. Priscilla Choy	WF	17 February 2017

Checklist Reference Number	170222
Date	22 February 2017
Time	14:00-15:00

		Related
Ref. No.	Non-Compliance	Item No.
	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 170217), no major environmental deficiencies were observed during the site inspection.	•

l		Name	Signature	Date
	Recorded by	Carrie Leung	Coe	22 February 2017
	Checked by	Dr. Priscilla Choy	Not	22 February 2017
	**			

APPENDIX J EVENT ACTION PLANS

Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Notify Contractor.	1. Rectify any unacceptable practice;
exceeded by	causes of exceedance;	by ET;		2. Amend working methods if
one sampling	2. Inform Contactor, IEC and ER;	2. Check Contractor's working		appropriate.
	3. Repeat measurement to confirm finding.	method.		
Action Level being	I. Identify source and investigate the	1. Check monitoring data submitted	Confirm receipt of notification	1. Discuss with ET and IEC on proper
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	remedial actions;
two or more	2. Inform Contractor, IEC and ER;	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial
consecutive	3. Increase monitoring frequency to daily;	method;	3. In consolidation with the IEC,	actions to ER and IEC within three
sampling	4. Discuss with IEC and Contractor on	3. Discuss with ET and Contractor on	agree with the Contractor on the	working days of notification;
	remedial actions required;	possible remedial measures;	remedial measures to be	3. Implement the agreed proposals;
	5. Assess the effectiveness of	4. Advise the ER on the effectiveness	implemented;	4. Amend proposal if appropriate.
	Contractor's remedial actions;	of the proposed remedial measures.	4. Supervise implementation of	
	6. If exceedance continues, arrange		remedial measures;	
	meeting with IEC and ER;		5. Conduct meeting with ET and	
	7. If exceedance stops, cease additional		IEC if exceedance continues.	
	monitoring.			
Limit Level being	1. Identify source and investigate the	Check monitoring data submitted	Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	further exceedance;
one sampling	2. Inform Contractor, IEC, ER, and EPD;	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET and IEC on proper
	3. Repeat measurement to confirm finding;	method;	3. In consolidation with the IEC,	remedial actions;
	4. Assess effectiveness of	3. Discuss with ET and Contractor on	agree with the Contractor on the	3. Submit proposals for remedial
	Contractor's remedial actions and keep	possible remedial measures;	remedial measures to be	actions to ER and IEC within three

	EPD, IEC and ER informed of	4. Advise the ER on the	implemented;	working days of notification;
	the results.	effectiveness of the proposed	4. Supervise implementation of	4. Implement the agreed proposals.
		remedial measures.	remedial measures;	, , , , , , , , , , , , , , , , , , ,
			5. Conduct meeting with ET and	
			IEC if exceedance continues.	
12-21	4 Notify IEO ED Controllers of	4. Oh o ha o o o'ha i o o dala a ha o'ha d		4 Tallaction of Pater and
Limit Level being	1. Notify IEC, ER, Contractor and	Check monitoring data submitted	Confirm receipt of notification	Take immediate action to avoid
exceeded by	EPD;	by ET;	of exceedance in writing;	further exceedance;
two or more	2. Repeat measurement to confirm	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET, ER and IEC on
consecutive	findings;	method;	3. In consolidation with the IEC,	proper remedial actions;
sampling	3. Carry out analysis of Contractor's	3. Discuss amongst ER, ET, and	agree with the Contractor on the	3. Submit proposals for remedial
	working procedures to identify source and	Contractor on the potential remedial	remedial measures to be	actions to IEC within three working
	investigate the causes of exceedance;	actions;	implemented;	days of notification;
	4. Increase monitoring frequency to	4. Review Contractor's remedial	4. Supervise implementation of	4. Implement the agreed proposals;
	daily;	actions whenever necessary to	remedial measures;	5. Submit further remedial actions if
	5. Arrange meeting with IEC, ER	assure their effectiveness and	5. If exceedance continues,	problem still not under control;
	and Contractor to discuss the	advise the ER accordingly.	consider stopping the Contractor	6. Stop the relevant portion of works
	remedial actions to be taken;		to continue working on that	as instructed by the ER until the
	6. Assess effectiveness of		portion of work which causes the	exceedance is abated.
	Contractor's remedial actions and		exceedance until the	
	keep EPD, IEC and ER informed		exceedance is abated.	
	of the results;			
	7. If exceedance stops, cease additional			
	monitoring.			

Event/Action Plan for Construction Noise

EVENT	ACTION				
	ET	IEC	ER	CONTRACTOR	
Action Level	1. Notify ER, IEC and Contractor;	Review the investigation	Confirm receipt of	1. Submit noise mitigation	
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;	
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation	
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.	
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be	
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after	
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)	
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;		
	check mitigation effectiveness.	(The above actions should be	4. Supervise the		
	(The above actions should be taken	taken within 2 working days after	implementation of remedial		
	within 2 working days after the	the exceedance is identified)	measures.		
	exceedance is identified)		(The above actions should be		
			taken within 2 working days		
			after the exceedance is		
			identified)		
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to	
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;	
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial	
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3	
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;	
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed	
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;	

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
		identified)	

Event/Action Plan for Landscape and Visual

EVENT	ACTION				
ACTION LEVEL	ET	IEC	ER	CONTRACTOR	
Design Check	Check final design conforms to	 Check report. Recommend 	Undertake remedial design if necessary		
	the requirements of EP and prepare	remedial design if necessary			
Non-conformity on one occasion	report. 1. Identify Source 2. Inform IEC and	Check report Check Contractor's	Notify Contractor Ensure remedial measures are properly	Amend working methods Rectify damage and	
	ER 3. Discuss remedial	working method 3. Discuss with ET and	implemented	undertake any necessary replacement	
	actions with IEC,	Contractor on possible remedial measures		теріасеттеті	
	4. Monitor remedial actions until	Advise ER on effectiveness of			
	rectification has been completed	proposed remedial measures.			
	Som Sompletou	5. Check implementation of remedial measures.			
Repeated Non-conformity	Inform IEC and	Check monitoring report	Notify Contractor Ensure remedial measures are properly	 Amend working methods Rectify damage and 	

ER	2. Check Contractor's	implemented	undertake any necessary
2. Increase	working method		replacement
monitoring	3. Discuss with ET and		
frequency	Contractor on possible		
3. Discuss remedial	remedial measures		
actions with IEC,	4. Advise ER on		
ER and Contractor	effectiveness of		
4. Monitor remedial	proposed remedial		
actions until	measures		
rectification has	5. Supervise		
been completed	implementation of		
5. If non-conformity	remedial measures.		
stops, cease			
additional			
monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

$\label{lem:construction} \begin{tabular}{ll} Appendix K - Summary of Implementation Schedule of Mitigation Measures for Construction Phase \\ \end{tabular}$

Types of Impacts	Mitigation Measures	Status
	8 times daily watering of the work site with active dust emitting activities. Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts. • Stockpiling site(s) should be lined with impermeable	٨
	 sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission. Misting for the dusty material should be carried out 	^
	 before being loaded into the vehicle. Any vehicle with an open load carrying area should have properly fitted side and tail boards. 	^
	 Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin. 	۸
	The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation.	٨
Construction Dust	 The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On- site unpaved roads should be compacted and kept free of lose materials. 	۸
	 Vehicle washing facilities should be provided at every vehicle exit point. 	*
	 The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. 	٨
	 Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet. 	۸
	 Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides. Every vehicle should be washed to remove any dusty 	۸
	 Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	^

	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump	۸
	 Good Site Practice: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 	^
Construction Noise	Scheduling of Construction Works during School Examination Period (i) Provision of low noise surfacing in a section of Road L2; and	n/A
	(ii) Provision of structural fins (i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A N/A
	(ii) Provision of low noise surfacing in a section of Road L2 & L4 (i) Provision of low noise surfacing in a section of Road L4	N/A
	before occupation of Site 1I1; and	N/A N/A
	(ii) Setback of building about 5m from site boundary. Setback of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
	avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not provide the facades with openable window.	N/A N/A

(i) avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic noise impacts from the slip road All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) SPS (ii) ESS (iii) ESS (iii) Tunnel Ventilation Shaft (iv) EFTS depot Installation of retractable roof or other equivalent measures The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including: • Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; • Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; • An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and • For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. Construction Water Quality Construction Runoff Exposed soil areas should be minimised to reduce the		avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at less than 55m away from To Kwa Wan Road to no more than	N/A N/A
provided with silencers or acoustics treatment. (i) SPS (ii) ESS (iii) Tunnel Ventilation Shaft (iv) EFTS depot Installation of retractable roof or other equivalent measures The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including: • Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; • Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; • An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and • For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. Construction Water Quality Construction Runoff Exposed soil areas should be minimised to reduce the		facing the slip road connecting Prince Edward Road East and San Po Kong or other alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic noise impacts from	N/A
Installation of retractable roof or other equivalent measures The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including: Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. Construction Water Quality Construction Runoff Exposed soil areas should be minimised to reduce the		provided with silencers or acoustics treatment. (i) SPS (ii) ESS (iii) Tunnel Ventilation Shaft	N/A N/A
incorporated in the design of the SPS at KTD, including: • Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; • Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; • An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and • For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. Construction Water Quality Construction Construction Construction Runoff Exposed soil areas should be minimised to reduce the		Installation of retractable roof or other equivalent	
and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: • use of sediment traps • adequate maintenance of drainage systems to prevent flooding and overflow	Water	 Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. Land-based Construction Construction Runoff Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps adequate maintenance of drainage systems to prevent 	N/A N/A N/A

Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.

Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.

Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is numbed.

Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.

Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.

Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.

Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.

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All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. Drainage It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea. All temporary and permanent drainage pipes and culverts ٨ provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ. Sewage Effluent Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. Contractor should also be responsible for waste disposal and maintenance practices. Stormwater Discharges Minimum distances of 100 m should be maintained N/A between the existing or planned stormwater discharges and the existing or planned seawater intakes

Debris and Litter	
In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials. litter or wastes to marine waters does not occur	۸
Construction Works at or in Close Proximity of Storm Culvert or Seafront	
The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	۸
The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	۸
Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	۸
Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	۸
Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.	۸
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	۸
Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	۸
Construction effluent, site run-off and sewage should be properly collected and/or treated.	٨
Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	۸
Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	۸
Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	۸

Supervisory staff should be assigned to station on site to closely supervise and monitor the works	۸
Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	۸
Good Site Practices It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include: • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site	^
 Training of site personnel in proper waste management and chemical waste handling procedures Provision of sufficient waste disposal points and 	٨
 regular collection for disposal Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in 	٨
 enclosed containers A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) 	۸
Waste Reduction Measures Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	
 Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 	٨
Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal The street of cluminium cons. DET	۸
Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force Any unused chemicals or those with remaining	٨
functional capacity should be recycled Proper storage and site practices to minimise the potential for damage or contamination of construction materials	٨

Construction and Demolition Material

Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include:

- Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible
- Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric

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- Skip hoist for material transport should be totally enclosed by impervious sheeting
- Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site
- The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores
- The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle
- All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet
- The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading

When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.

Chemical Waste

After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation

	General Refuse	
	Gerierai Heidse	
	General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem	۸
	CM1 All existing trees should be carefully protected during construction.	^
Landscape and Visual	CM2 Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	N/A
	CM3 Control of night-time lighting.	۸
	CM4 Erection of decorative screen hoarding.	٨

Remarks:	^ Compliance of mitigation measure;						
	X Non-compliance of mitigation measure;						
	N/A Not Applicable at this stage;						
	N/A(1) Not observed;						
	 Non-compliance but rectified by the contractor; * Recommendation was made during site audit but improved/rectified by the contractor. 						

APPENDIX L
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON
AND NOTIFICATION OF SUCCESSFUL
PROSECUTION

Contract No. KL/2012/03

Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: February 2017

Warnings / Summons and Successful Prosecutions received in the reporting month

]	Log Ref.	Received Date	Details of Warning / Summons and Successful Prosecutions	Investigation/Mitigation Action	Status
	N/A	N/A	N/A	N/A	N/A

Remarks: No warning/summon and prosecution were received in the reporting period.

Complaint Log

EPD Complaint Ref No.	Date of Complaint	Complaint Details	Investigation / Mitigation Action	Status
15-14258	10/6/2015	Complainant said dust emission from the construction work affecting him/her. The stockpiles was not covered properly such that dust emission was observed. Some muddy water was found in To Kwa Wan Typhoon Shelter.	Complaint cases referred to the Contractor. Investigation conducted by the Contract ET. The investigation results showed that no major construction activities were conducted at the time of complaint on the day - 10 th June 2015. Since no marine works or land-based construction activities near the To Kwa Wan Typhoon Shelter were conducted, muddy effluent discharged to the To Kwa Wan Typhoon Shelter is not anticipated. The regular impact air monitoring results in the first three weeks of June 2015 were in full compliance with the Action and Limit levels. No major environmental deficiencies were observed related to the air quality and water quality, and the deficiencies as mentioned in the complaint were not recorded during the site inspections.	Closed

APPENDIX M GENERATED WASTE QUANTITY

APPENDIX IV

Monthly Summary Waste Flow Table

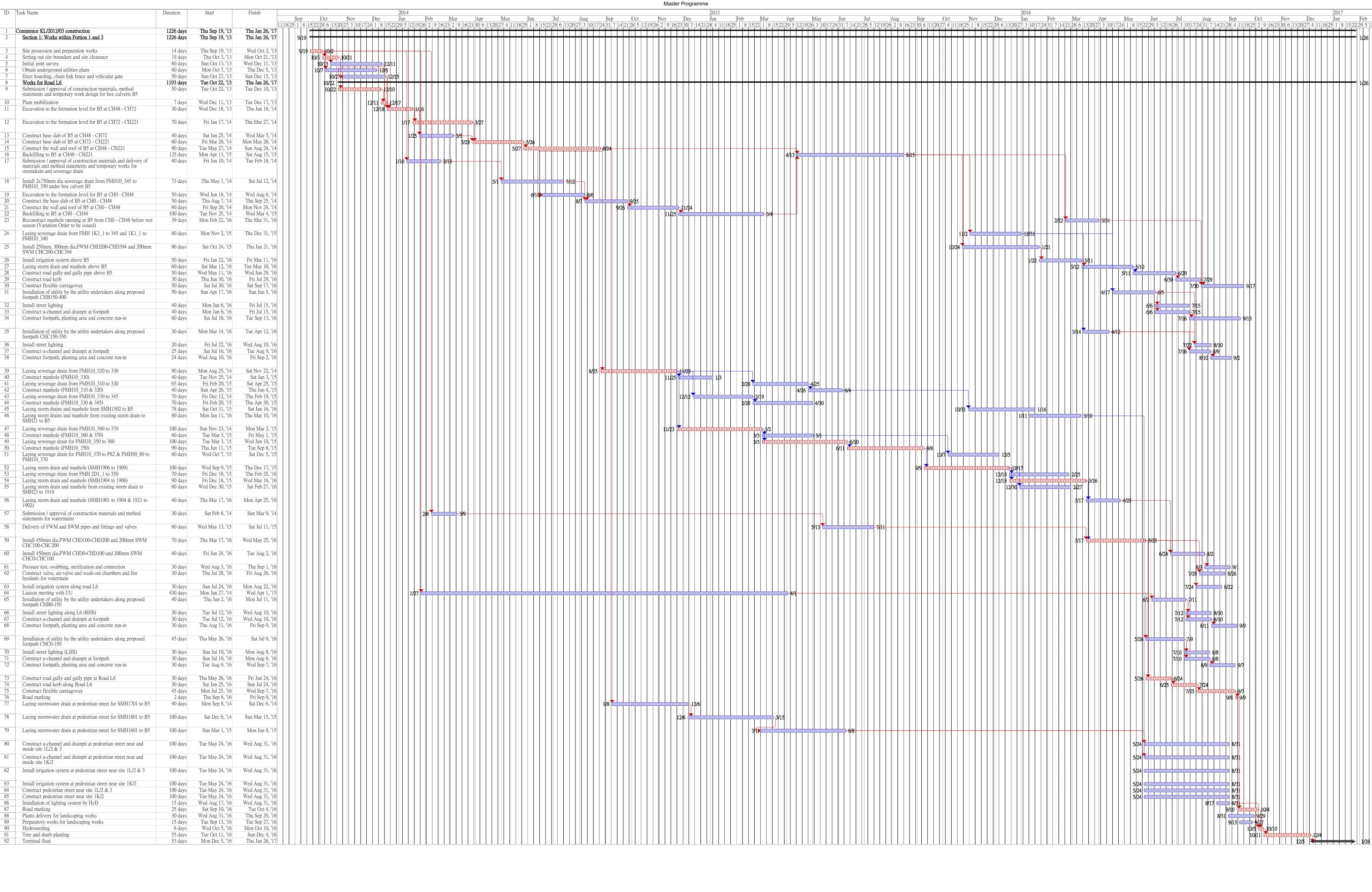
(PS Clause 1.86)

Name of Department: CEDD Contract No.: KL/2012/03

Monthly Summary Waste Flow Table for February 2017 (year) (in tons)

	Total Disposal Loads	l Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated						Generated Mon	thly		
Month			Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
	(No.s)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)
2013 (Oct - Dec) Sub-Total	108	463.69	0	0	0	0	0	0	0	0	0	463.69
2014 (Jan – Dec) Sub-Total	24	16925.7	0	0	16798.93	83.66	1804.27	0	0	0	0	43.11
2015 (Jan – Dec) Sub-Total	284	81859.97	0	0	38291.91	43457.21	19920	0	0	0	0	310.26
2015 (Jan – Dec) Sub-Total	3369	50762.64	0	0	0	49894.67	4020	0	0	0	0	867.95
Jan-17	23	107.63	0	0	0	58.53	0	0	0	0	0	39.1
Feb-17	1227	18948.76	0	0	0	18898.13	0	0	0	0	0	50.63
Mar-17												
Apr-17												
May-17												
Jun-17												
Jul-17												
Aug-17												
Sep-17												
Oct-17												
Nov-17												
Dec-17												
Total	5035	169068.39	0	0	55090.84	112392.2	25744.27	0	0	0	0	1774.74

APPENDIX N CONSTRUCTION PROGRAMME



Critical tasks

Non-critical Tasks

Working days

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup ◆

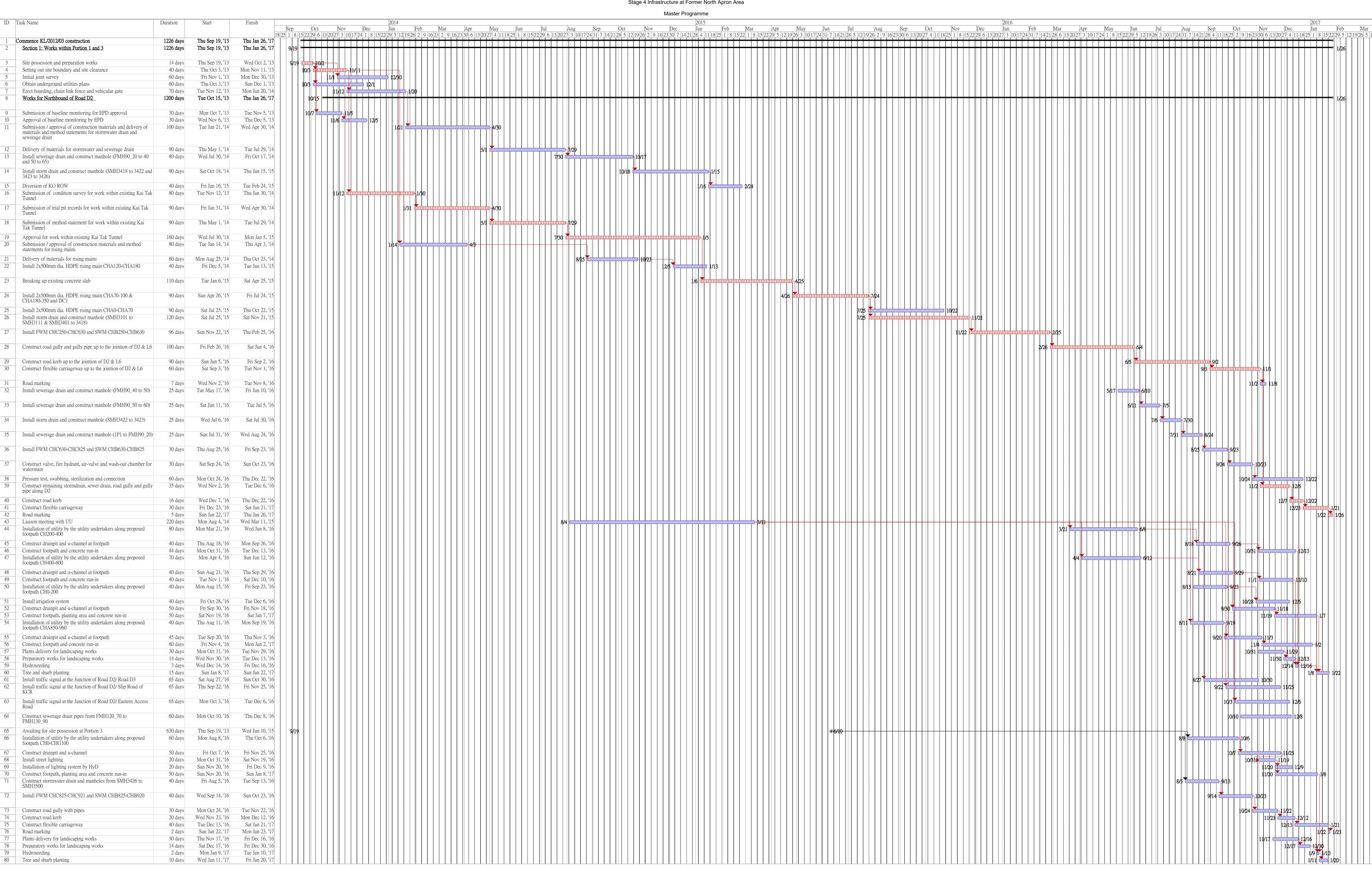
Manual Summary

Start-only

Finish-only

External Tasks

External Milestone



Non-critical tasks Inactive Milestone Manual Task ♦ Manual Summary Rollup ♦ Start-only External Tasks ♦

Commencement Date: 19 September 2013
Completion Date: 2 September 2016

Duration-only

Manual Summary

Finish-only

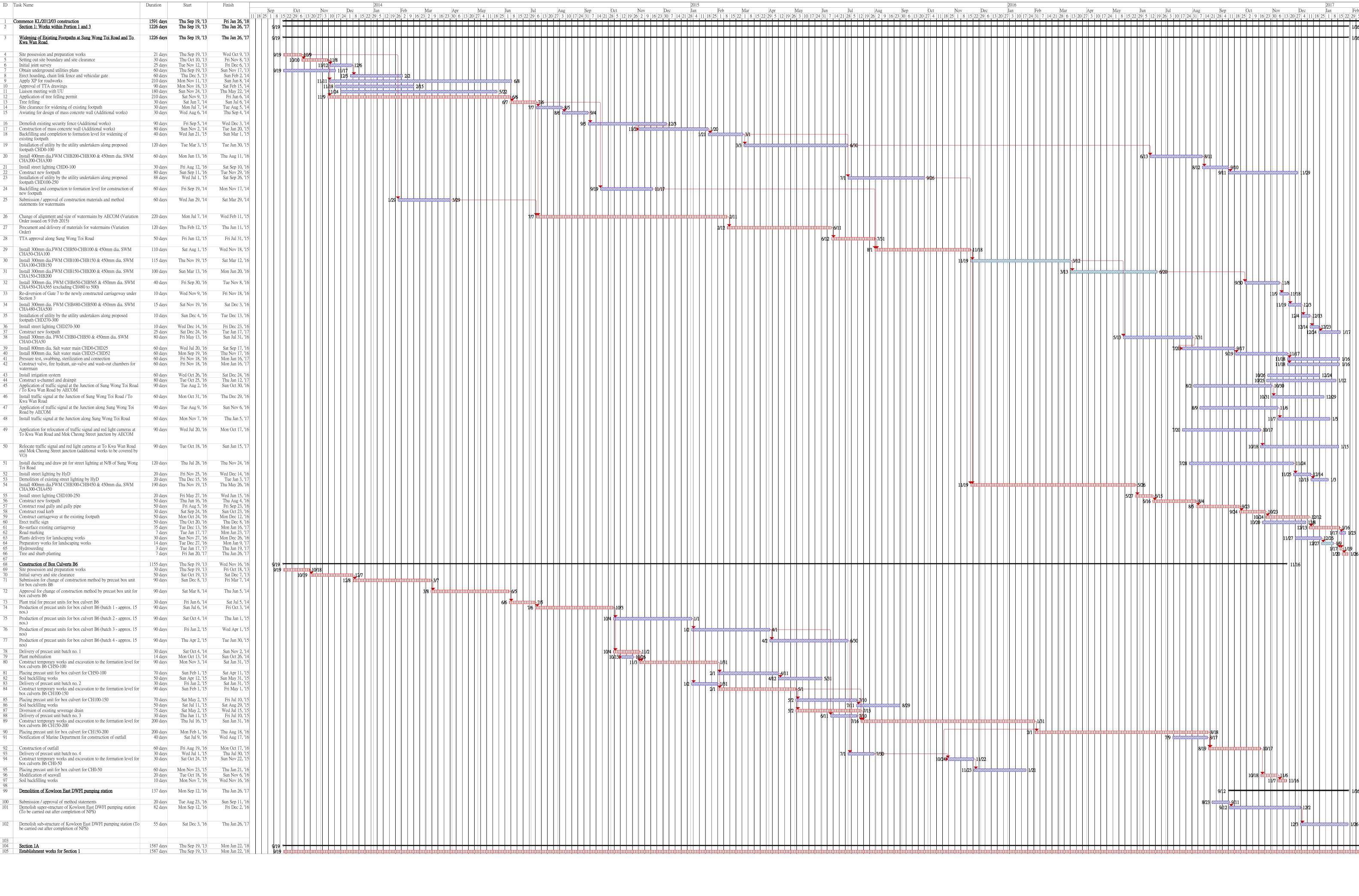
External Milestone

Inactive Summary

Critical tasks

Revised Completion Date: 26 January 2017

Working days



Commencement Date: 19 September 2013
Completion Date: 2 September 2016
Revised Completion Date: 26 January 2017

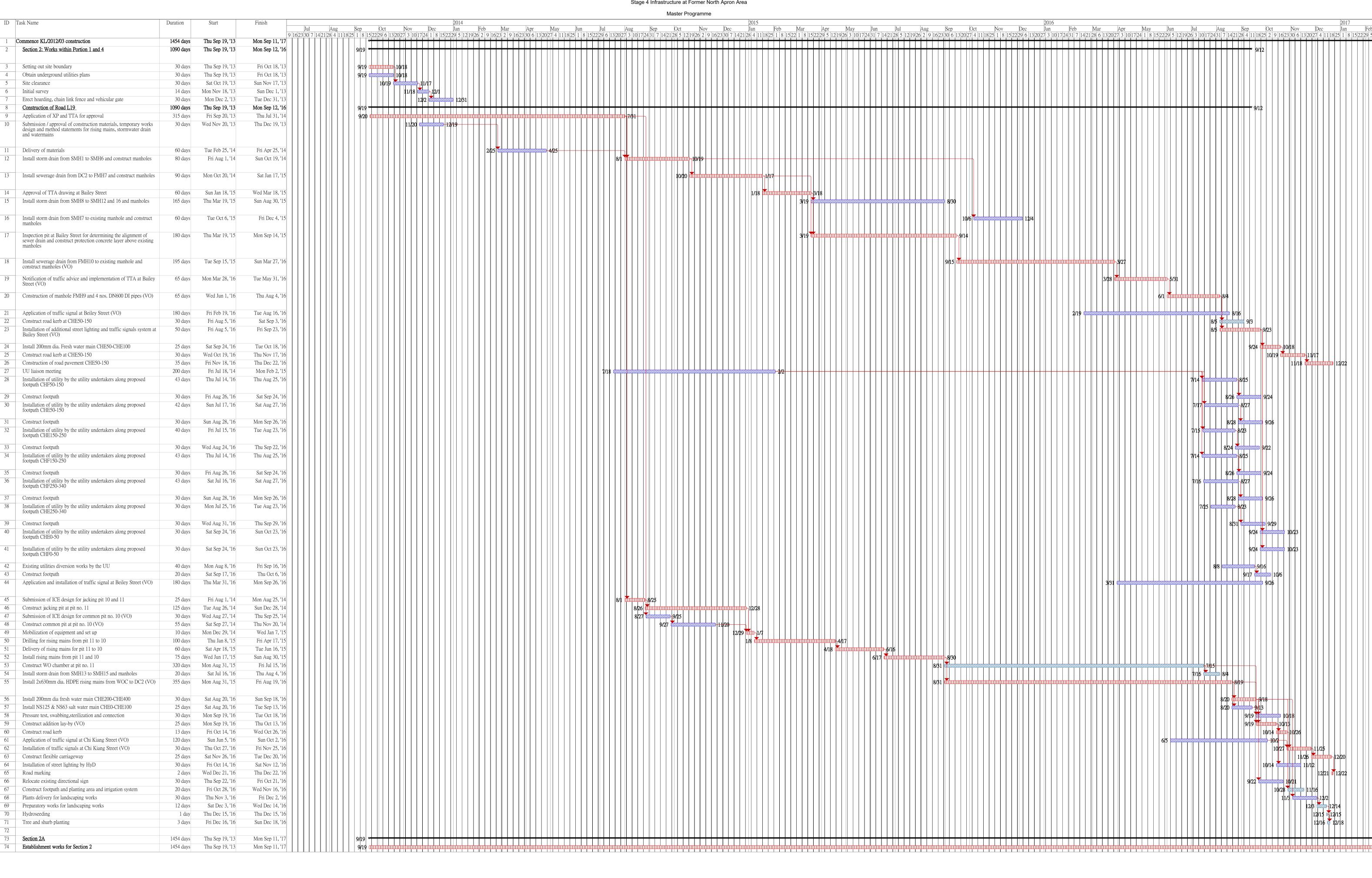
Critical tasks

Critical tasks

Critical tasks

Manual Summary Non-critical tasks

Updated on 29 July 2016



Critical tasks

Non-critical tasks

Working days

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

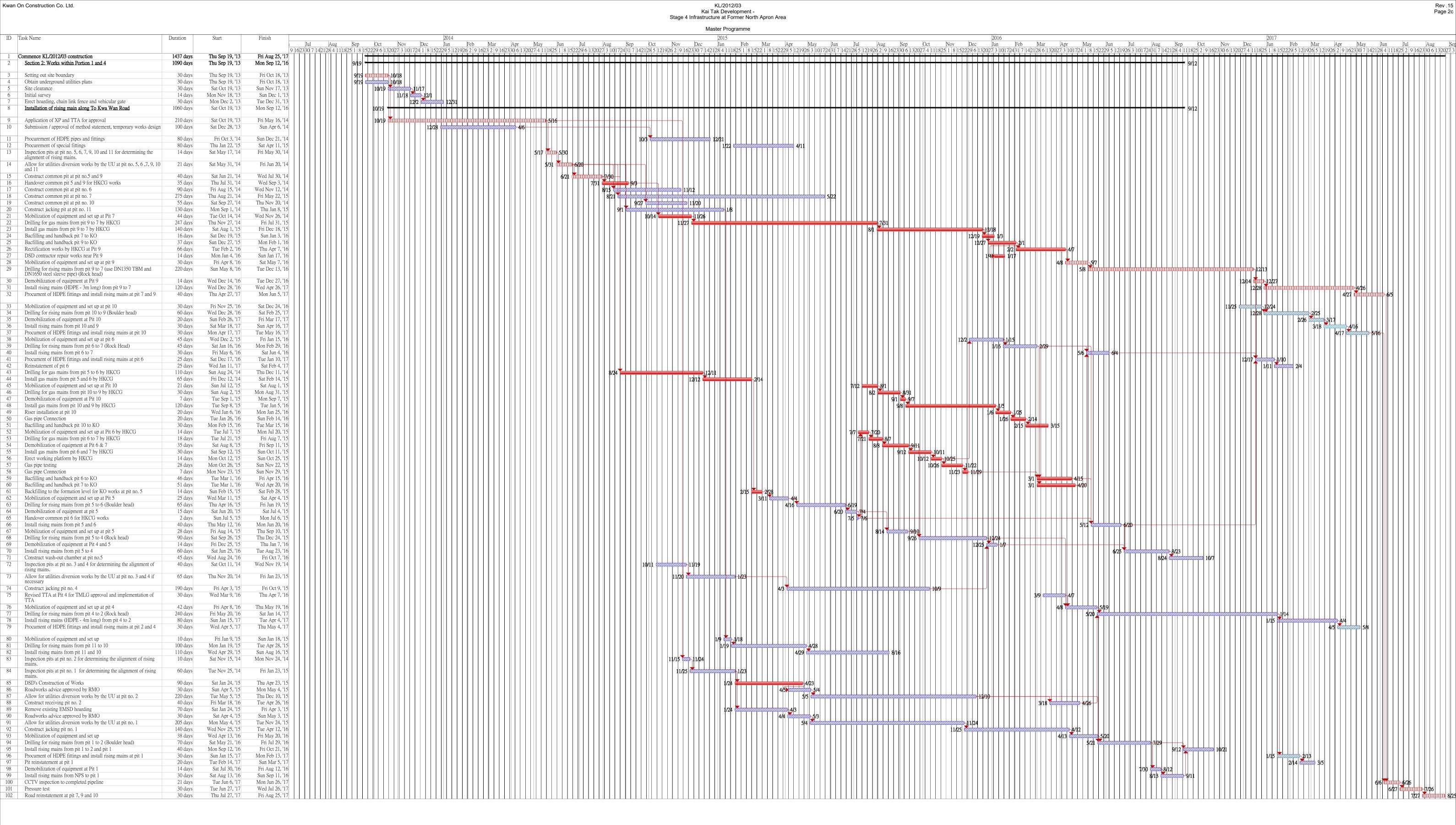
Manual Summary

Start-only

Finish-only

External Tasks

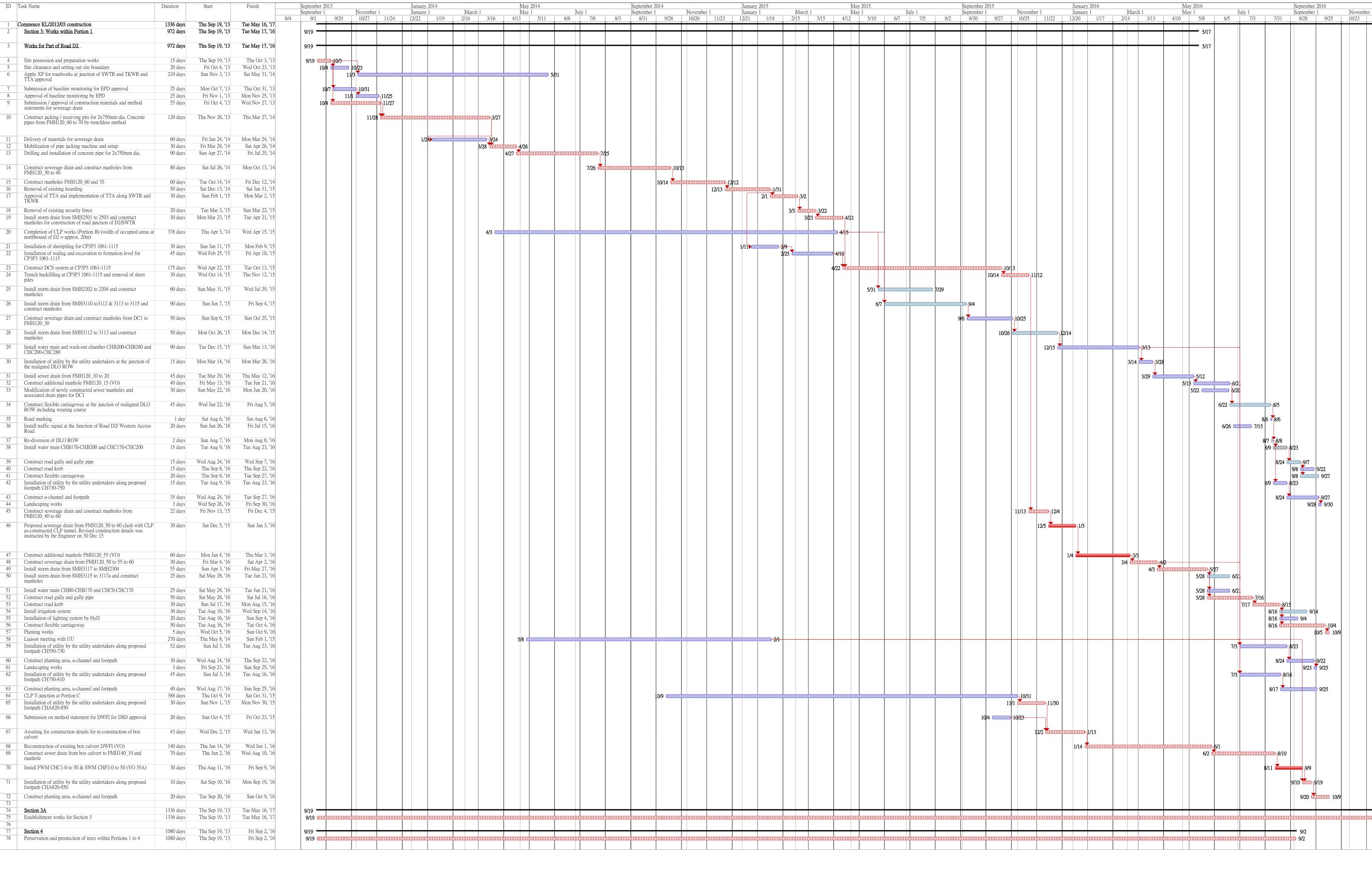
External Milestone



Completion Date: 5 May 2016

Revised Completion Date: 12 September 2016

Master Programme



Manual Summary Rollup ◆ Non-critical tasks Inactive Milestone Manual Task Start-only External Tasks Section 3 Commencement Date: 19 September 2013

Duration-only

Manual Summary

Finish-only

External Milestone

Inactive Summary

Critical tasks

Completion Date: 17 May 2016

Working days

Kai Tak Development Stage 4 Infrastructure at Former North Apron Area

Master Programme

ID Task Name September 2015 September 2013 September 2014 January 2015 September 1 September 1 September 1 November 1 November 1 January 1 Commence KL/2012/03 construction Thu Sep 19, '13 Thu Sep 15, '16 Thu Sep 15, '16 **9/19** Section 5: Works for Southbound of Road D2 1093 days Thu Sep 19, '13 **⊚** 12/24 Awaiting for the notification of commencement of works by the Engineer 97 days Thu Sep 19, '13 Tue Dec 24, '13 **9/19** Completion of DCS works for CH3P3-970 to 1030 372 days Wed Dec 25, '13 12/25 Wed Dec 31, '14 Installation of utility by the utility undertakers along proposed footpath 20 days Mon Aug 29, '16 Sat Sep 17, '16 Construct drainpit and u-channel Sun Sep 18, '16 Wed Oct 12, '16 9/18 🖎 Install street lighting 15 days Sun Oct 9, '16 Sun Sep 25, '16 20 days Installation of lighting system by HyD Mon Oct 10, '16 Sat Oct 29, '16 Construct footpath, planting area and concrete run-in 35 days Mon Oct 17, '16 Sun Nov 20, '16 11/21 🕈 11/23 Mon Nov 21, '16 Landscape works Wed Nov 23, '16 Construct stormwater drain and manholes 17 days Mon Aug 15, '16 Wed Aug 31, '16 8/15 8/31 Construct road gully with pipes 15 days Thu Sep 1, '16 Thu Sep 15, '16 Construct road kerb 15 days Fri Sep 16, '16 Fri Sep 30, '16 Construct flexible carriageway 30 days Sat Oct 1, '16 Sun Oct 30, '16 Road marking Mon Oct 31, '16 Mon Oct 31, '16 Construct CLP tunnel by CLP Portion B 413 days Fri Feb 28, '14 Thu Apr 16, '15 610 days Completion of DCS works for CH3P3-1030 to 1115 Thu Jan 1, '15 Thu Sep 1, '16 Installation of utility by the utility undertakers along proposed footpath 25 days Sun Sep 18, '16 Wed Oct 12, '16 9/18 Thu Oct 13, '16 Construct drainpit and u-channel Fri Nov 11, '16 Wed Nov 23, '16 11/12 11/23 Sat Nov 12, '16 Install street lighting Construct footpath, planting area and concrete run-in 39 days Thu Oct 13, '16 Sun Nov 20, '16 11/21 🕈 11/23 3 days Landscape works Mon Nov 21, '16 Wed Nov 23, '16 33 days Construct stormwater drain and manholes Fri Sep 2, '16 Tue Oct 4, '16 Wed Oct 5, '16 Construct road gully with pipes 16 days Thu Oct 20, '16 Construct road kerb Fri Oct 21, '16 Fri Nov 4, '16 10/21 11/4 25 days Sat Nov 5, '16 Construct flexible carriageway Tue Nov 29, '16 Road marking Wed Nov 30, '16 Wed Nov 30, '16 Completion of DCS works for CH3P3-930 to 970 141 days Wed Jul 1, '15 Wed Nov 18, '15 Construct CLP tunnel by CLP Portion F1 126 days Thu Nov 19, '15 Wed Mar 23, '16 8/15 Installation of utility by the utility undertakers along proposed footpath 31 days Mon Aug 15, '16 Wed Sep 14, '16 Wed Oct 19, '16 Construct drainpit and u-channel Thu Sep 15, '16 9/15 20 days Thu Sep 15, '16 Install street lighting Tue Oct 4, '16 40 days Thu Sep 15, '16 Mon Oct 24, '16 Construct footpath, planting area and concrete run-in 10/25 📉 10/31 7 days Tue Oct 25, '16 Mon Oct 31, '16 Landscape works 45 days Mon May 2, '16 6/15 Construct stormwater drain and manholes Wed Jun 15, '16 40 days Thu Jun 16, '16 Mon Jul 25, '16 Construct road gully with pipes 7/26 8/4 Construct road kerb 10 days Tue Jul 26, '16 Thu Aug 4, '16 Construct flexible carriageway 40 days Fri Aug 5, '16 Tue Sep 13, '16 9/14 9/15 Road marking Wed Sep 14, '16 Thu Sep 15, '16 Completion of DCS works for CH3P3-370 to 520 400 days Sun Dec 28, '14 Sun Jan 31, '16 Completion of DCS works for CH3P3-350 to 370 120 days Sun Oct 4, '15 Sun Jan 31, '16 Completion of DCS works for CH3P3-520 to 570 Thu Feb 11, '16 10/25 110 days Sun Oct 25, '15 Installation of utility by the utility undertakers along proposed footpath 35 days Sun Aug 28, '16 Sat Oct 1, '16 8/28 44 Construct drainpit and u-channel Sun Oct 2, '16 Tue Nov 15, '16 Install street lighting 20 days Sun Oct 2, '16 Fri Oct 21, '16 Construct footpath, planting area and concrete run-in 45 days Tue Nov 15, '16 Sun Oct 2, '16 Wed Nov 16, '16 Tue Nov 22, '16 11/16 🔖 11/22 7 Landscape works Sun Aug 28, '16 Construct stormwater drain and manholes Mon Sep 26, '16 Construct road gully with pipes Tue Sep 27, '16 Sun Oct 16, '16 10/17 50 Construct road kerb Mon Oct 17, '16 Sat Nov 5, '16 Construct flexible carriageway 20 days Fri Nov 25, '16 Sun Nov 6, '16 3 days 11/26 🕈 11/28 Road marking Sat Nov 26, '16 Mon Nov 28, '16 53 Completion of DCS works for CH3P3-570 to 730 Sat Sep 19, '15 Tue Apr 5, '16 9/19 🛚 8/21 Installation of utility by the utility undertakers along proposed footpath 35 days Sun Aug 21, '16 Sat Sep 24, '16 55 Construct drainpit and u-channel Sun Sep 25, '16 55 days Fri Nov 18, '16 9/25 56 Install street lighting Sun Sep 25, '16 Fri Oct 14, '16 9/25 Construct footpath, planting area and concrete run-in 50 days Sun Sep 25, '16 Sun Nov 13, '16 11/14 📩 11/20 58 Landscape works 7 days Mon Nov 14, '16 Sun Nov 20, '16 59 Construct stormwater drain and manholes 40 days Sun May 29, '16 Thu Jul 7, '16 5/29 29 days Fri Jul 8, '16 Fri Aug 5, '16 60 Construct road gully with pipes 61 Construct road kerb 20 days Sat Aug 6, '16 Thu Aug 25, '16 20 days 62 Construct flexible carriageway Fri Aug 26, '16 Wed Sep 14, '16 9/15 9/15 Thu Sep 15, '16 Thu Sep 15, '16 63 Road marking 64 Completion of DCS works for CH3P3-730 to 830 260 days Mon Mar 2, '15 Mon Nov 16, '15 65 Cable duct block by CLP 126 days Tue Nov 17, '15 Mon Mar 21, '16 11/17 240 days Mon Apr 27, '15 Completion of DCS works for CH3P3-830 to 930 (except 860 to 900) Tue Dec 22, '15 <u>№ 12/22</u> Installation of utility by the utility undertakers along proposed footpath 40 days Sun Aug 28, '16 Thu Oct 6, '16 68 Construct drainpit and u-channel Fri Oct 7, '16 Sun Nov 20, '16 69 Install street lighting 20 days Fri Oct 7, '16 Wed Oct 26, '16 10/7 Construct footpath, planting area and concrete run-in 45 days Fri Oct 7, '16 Sun Nov 20, '16 Mon Nov 21, '16 Sun Nov 27, '16 Landscape works 21 days Sun Mar 27, '16 Sat Apr 16, '16 Construct stormwater drain and manholes 3/27 4/16 Proposed sewer drain FMH120_20 to 10 clash with as-constructed CLP's 10 days Sun Apr 17, '16 Tue Apr 26, '16 4/17 4/26 cable tunnel. Further instruction is required Construct additional manhole with backdrop (VO) Wed Apr 27, '16 Sun Jun 5, '16 Mon Jun 6, '16 Wed Jul 20, '16 Construct road gully with pipes 7/21 8/10 8/10 Thu Jul 21, '16 Construct road kerb 20 days Tue Aug 9, '16 Construct flexible carriageway 35 days Wed Aug 10, '16 Tue Sep 13, '16 2 days Wed Sep 14, '16 9/14 9/15 Road marking Thu Sep 15, '16 Completion of DCS works for CH3P3-860 to 900 for realignment of DLO 110 days Sun Apr 17, '16 Thu Aug 4, '16 ROW including wearing course 80 Installation of utility by the utility undertakers along proposed footpath Fri Aug 5, '16 Wed Aug 24, '16 8/20 Fri Aug 5, '16 Sat Aug 20, '16 81 Construct stormwater drain and manholes 8/21 8/30 82 Construct road gully with pipes Sun Aug 21, '16 Tue Aug 30, '16 8/31 🌄 9/4 83 Construct road kerb 5 days Wed Aug 31, '16 Sun Sep 4, '16 9/5 5 9/14 84 Construct flexible carriageway 10 days Mon Sep 5, '16 Wed Sep 14, '16 85 Road marking 1 day Thu Sep 15, '16 9/15 9/15 Thu Sep 15, '16

Master Programme ID Task Name Commence KL/2012/03 construction 902 days Thu Sep 19, '13 Tue Mar 8, '16 Section 7A: Works for Southbound of Road D2 Tue Mar 8, '16 Thu Sep 19, '13 902 days Awaiting for the notification of commencement of works by the Engineer 97 days Thu Sep 19, '13 Tue Dec 24, '13 Submission for approval of DCS materials 100 days Wed Dec 25, '13 Thu Apr 3, '14 Interface works meeting with CLP Deliver DCS materials batch no. 1 Tue Apr 15, '14 Thu Sep 11, '14 40 days Submission for approval of method statement and temp work design Fri Apr 4, '14 Tue May 13, '14 Installation of sheetpiles for CH3P3-970 to 1030 40 days Wed May 14, '14 Sun Jun 22, '14 60 days 20 days 90 days 22 days 413 days Installation of waling and excavation for CH3P3-970 to 1030 Mon Jun 23, '14 Thu Aug 21, '14 Fri Aug 22, '14 Wed Sep 10, '14
Thu Sep 11, '14 Tue Dec 9, '14 Grade 200 rock fill (SI) Construct DCS system at CH3P3-970 to 1030 Trench backfilling at CH3P3-970 to 1030 Wed Dec 10, '14 Wed Dec 31, '14 Construct CLP tunnel by CLP Portion B Fri Feb 28, '14 Thu Apr 16, '1: 60 days 50 days Deliver DCS materials batch no. 3 Installation of sheetpiles for CH3P3-1030 to CP3P3-1087 & CP3P2-1115 Thu Jan 1, '15 Thu Feb 19, '15 Installation of waling and excavation for CH3P3-1030 to CP3P3-1087 & CP3P2-1115 50 days Fri Feb 20, '15 Fri Apr 10, '15 Construct DCS system at CH3P3-1060 to CP3P3-1087 & CP3P2-1115 50 days Sat Apr 11, '15 Sat May 30, '15 Cut CLP sheetpiles and additional infill in CLP structure for installation of 30 days Mon Jun 1, '15 Tue Jun 30, '15 Trench excavation for WSD permanent diversion of existing watermain at CH3P3-1000 (additional works) 16 days Wed Jul 1, '15 Thu Jul 16, '15 Permanent diversion of existing watermain at CH3P3-1000 by WSD (additional works) 91 days Fri Jul 17, '15 Thu Oct 15, '15 Remove existing watermain and then installation of waling and excavation for CH3P3-1030 to 1050 30 days Construct DCS system at CH3P3-1030 to CP3P3-1087 Thu Mar 3, '10 Construct sectional valve chambers (SV-N-09) Fri Mar 4, '16 Mon Aug 15, '10 Trench backfilling at CP3P3-1087 to CP3P2-1115 Wed Oct 7, '15 Thu Nov 5, '1: Trench backfilling at CH3P3-1030 to CP3P3-1087 Tue Aug 16, '16 Wed Aug 31, '10 Deliver DCS materials batch no. 5 Thu Apr 30, '15 Sun Jun 28, '15 Mon Jun 8, '15 Wed Jul 1, '15 Proposed UU works to be laid at DLO ROW Tue Jun 30, '1: Re-diversion of DLO ROW Wed Jul 22, '1: Break up existing hard materials for sheetpiling works Thu Jul 23, '15 Sun Jul 26, '1: 30 days
30 days
25 days
50 days
30 days
60 days
25 days
80 days
90 days
80 days Installation of sheetpiles for CH3P3-930 to 970 Mon Jul 27, '1 Tue Aug 25, '1 Temporary support existing watermain Wed Aug 26, '15 Thu Sep 24, '15 Fri Sep 25, '15 Tue Oct 20, '15 Thu Feb 18, '16 Mon Oct 19, '15 Tue Dec 8, '15 Install waling and excavate for CH3P3-930 to 970 Construct DCS system at CH3P3-930 to 970 Trench backfilling at CH3P3-930 to 970 Fri Mar 18, '16 Deliver DCS materials batch no. 2 Wed Oct 22, '14 Sat Dec 20, '14 Installation of sheetpiling for CH3P3-370 to 520 Sat Nov 1, '14 Tue Nov 25, '14 Installation of wailing and excavation for CH3P3-370 to 520 Thu Nov 27, '14 Construct DCS system at CH3P3-370 to 450 Wed Feb 25, '15 Fri May 15, '15 Trench backfilling at CH3P3-370 to 450 Sat May 16, '15 Sun Jun 14, '15 200 days 170 days 70 days 10 days 60 days 8 days Mon Jun 15, '15 Tue Jan 5, '16 Construct DCS system at CH3P3-450 to 520 Thu Dec 31, '15 Construct sectional valve chambers (SV-N-10) Wed Jun 22, '10 Thu Jun 23, '16 Thu Sep 1, '16 Construct bend block concrete at CHC3P3-450 to 520 Wed Aug 31, '10 French backfilling at CH3P3-450 to 520 Sat Sep 10, '10 Deliver DCS materials batch no. 5 Divert ROW Fri Aug 28, '15 Fri Sep 4, '15 Installation of sheetpiles for CH3P3-350 to 370 Sat Sep 5, '15 Tue Sep 29, '15 Installation of wailing and excavation for CH3P3-350 to 370 Construct DCS system at CH3P3-350 to 370 Wed Sep 30, '15 Fri Oct 30, '15 Thu Oct 29, '15 Wed Jan 27, '16 Trench backfilling at CH3P3-350 to 370 Thu Jan 28, '16 Thu Feb 11, '16 Construct tee-off gate valve chambers (S-1L4) Sun Jul 31, '16 Mon Aug 29, '10 Diversion of MTR ROW Sun Jun 7, '1 Fri Oct 9, '15 Fri Oct 23, '15 CLP cable duck block Mon Dec 7, ' Γrench excavation at CH3P3-520 to 570 Wed Nov 11, ' Construct DCS system at CH3P3-520 to 570 Thu Nov 12, '15 Tue Feb 9, '16 Trench backfilling at CH3P3-520 to 570 Wed Feb 10, '16 Fri Feb 19, '16 Diversion of MTR ROW Sat Feb 20, '16 Thu Mar 10, '16 Construct DCS system at CH3P3-570 to 590 Fri Apr 29, '16 Construct bend block concrete at CHC3P3-570 to 590 Sat Apr 30, '16 Wed Jun 8, '16 1 day Fri Aug 14, '15 Fri Aug 14, '15 VO49 additional 3 nos. tee-off pipes at CH3P3-560 issued on 14 Aug 15 VO49 materials production, IIB, insulation layer and delivery to site Wed Dec 2, '15 Sat Apr 9, '16 Mon Apr 18, '16
 84 days
 Thu Jun 9, '16
 Wed Aug 31, '16

 15 days
 Thu Sep 1, '16
 Thu Sep 15, '16

 260 days
 Fri Jan 2, '15
 Fri Sep 18, '15

 60 days
 Mon Apr 13, '15
 Thu Jun 11, '15

 20 days
 Tue Aug 25, '15
 Sun Sep 13, '15
 VO49 pipe laying for 3 nos. CWP VO49 trench backfilling Construct CLP tunnel by CLP Portion A3-A5
Deliver DCS materials batch no. 4 Trench excavation for 4 nos. seawater pipes and 1 no. DN500 CWP CH3P3-590 to 730 Laying miradrain and steel plate above KTT (addition works) 25 days Mon Sep 14, '15 70 days Fri Oct 9, '15 Thu Oct 8, '15 Pipe laying for 4 nos. seawater pipes and 1 no. DN500 CWP CH3P3-590 to Fri Oct 9, '15 Thu Dec 17, '1: Concrete surround (addition works) and laying steel plate above KTT 100 days Fri Dec 18, '15 Sat Mar 26, '16
 60 days
 Fri Jan 2, '15
 Mon Mar 2, '15

 10 days
 Fri Jan 8, '16
 Sun Jan 17, '16

 15 days
 Mon Jan 18, '16
 Mon Feb 1, '16

 55 days
 Tue Feb 2, '16
 Sun Mar 27, '16

 15 days
 Mon Mar 28, '16
 Mon Apr 11, '16
 Deliver DCS materials batch no. 4 Trench excavation for 2 nos. DN1000 CWP CH3P3-590 to 730 Laying miradrain and steel plate above KTT (addition works) Pipe laying for 2 nos. DN1000 CWP CH3P3-590 to 730 Concrete surround (addition works) and laying steel plate above KTT VO58 additional 2 nos. tee-off pipes at CH3P3-720, issued on 17 Aug 15, 1 day Mon Aug 17, '15 Mon Aug 17, '15 materials provided by client 50 days Wed Feb 24, '16 Wed Apr 13, '16 Installation of sheetpiles and excavation works VO58 tee-off laying works 140 days 10 days 35 days 80 days 130 days Thu Apr 14, '16 Wed Aug 31, '16 Thu Sep 1, '16 Sat Sep 10, '16 Installation of sheetpiling for CH3P3-730 to 830 Sat Mar 7, '15 Fri Apr 10, '1: Installation of wailing and excavation for CH3P3-730 to 830 Sat Apr 11, '15 Mon Jun 29, '15 Construct DCS system at CH3P3-730 to 830 Tue Jun 30, '15 Fri Nov 6, '15 Sat Nov 7, '15 Sun Nov 15, '15 Thu Nov 19, '15 Mon Mar 7, '16 Trench backfilling at CH3P3-730 to 830 Cable duct block by CLP Construct tee-off gate valve chambers (S-2D1) Tue Mar 8, '16 Mon Jul 25, '16 Construct bend block concrete at CH3P3-730 to 830 Tue Jul 26, '16 Wed Aug 31, '16 Trench backfilling at CH3P3-750-770 Thu Sep 1, '16 Sat Sep 10, '16 Wed Jul 16, '14 Sun Feb 15, '15 Construct CLP tunnel by CLP Portion F2a 60 days Wed Apr 8, '15 Sat Jun 6, '15 30 days Mon Jun 1, '15 Tue Jun 30, '15 50 days Wed Jul 1, '15 Wed Aug 19, '15 100 days Thu Aug 20, '15 Fri Nov 27, '15 Deliver DCS materials batch no. 5 Installation of sheetpiling for CH3P3-830 to 930 Installation of wailing and excavation for CH3P3-830 to 930 8/20 Construct DCS system at CH3P3-830 to 930 40 days Sat Nov 28, '15 Wed Jan 6, '16 84 days Wed Jun 8, '16 Tue Aug 30, '16 Trench backfilling at CH3P3-830 to 930 DCS pipe laying works and construct tee-off gate valve chambers

50 days Wed Jul 27, '16 Wed Sep 14, '16 50 days Fri Jul 22, '16 Fri Sep 9, '16 20 days Thu Sep 15, '16 Tue Oct 4, '16

120 days Thu May 29, '14 Thu Sep 25, '14

100 days Sun May 22, '16 Mon Aug 29, '16 60 days Thu Sep 1, '16 Sun Oct 30, '16

Inactive Milestone Inactive Summary Manual Task

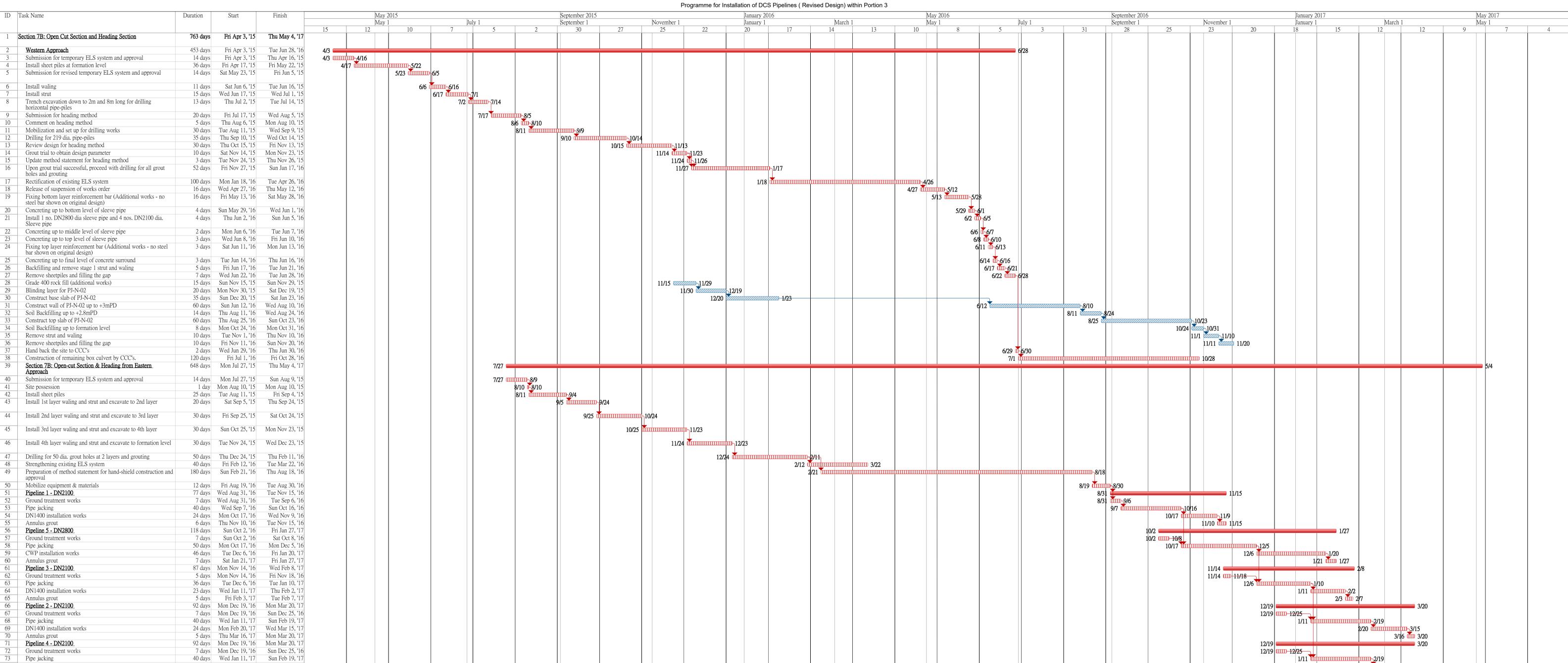
Delivery of optical fibers

98 CCTV for DCS pipes

Construction of cable ducts and drawpits Laying and testing optical fibers

99 Swabbing, pressure test and chemical test for DCS Pipes

Interfacing works with EMSD 1020EM12A Contractor for connection of the proposed four seawater pipes and three chilled water pipes in Section C to their construction of seawater pipes and chilled water pipes



Pipe jacking

Annulus grout Removal of plant

DN1400 installation works

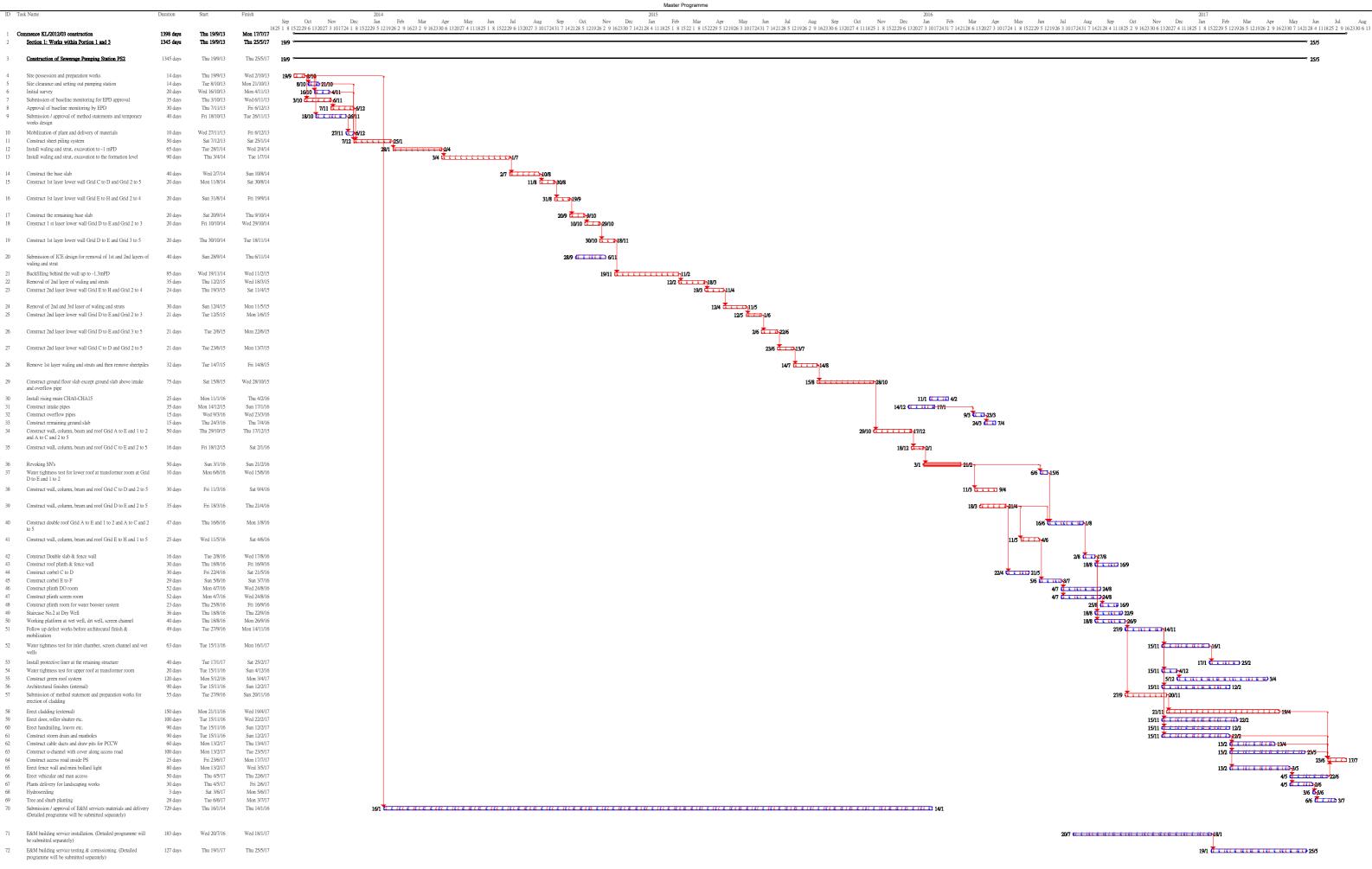
Backfilling and removal ELS system

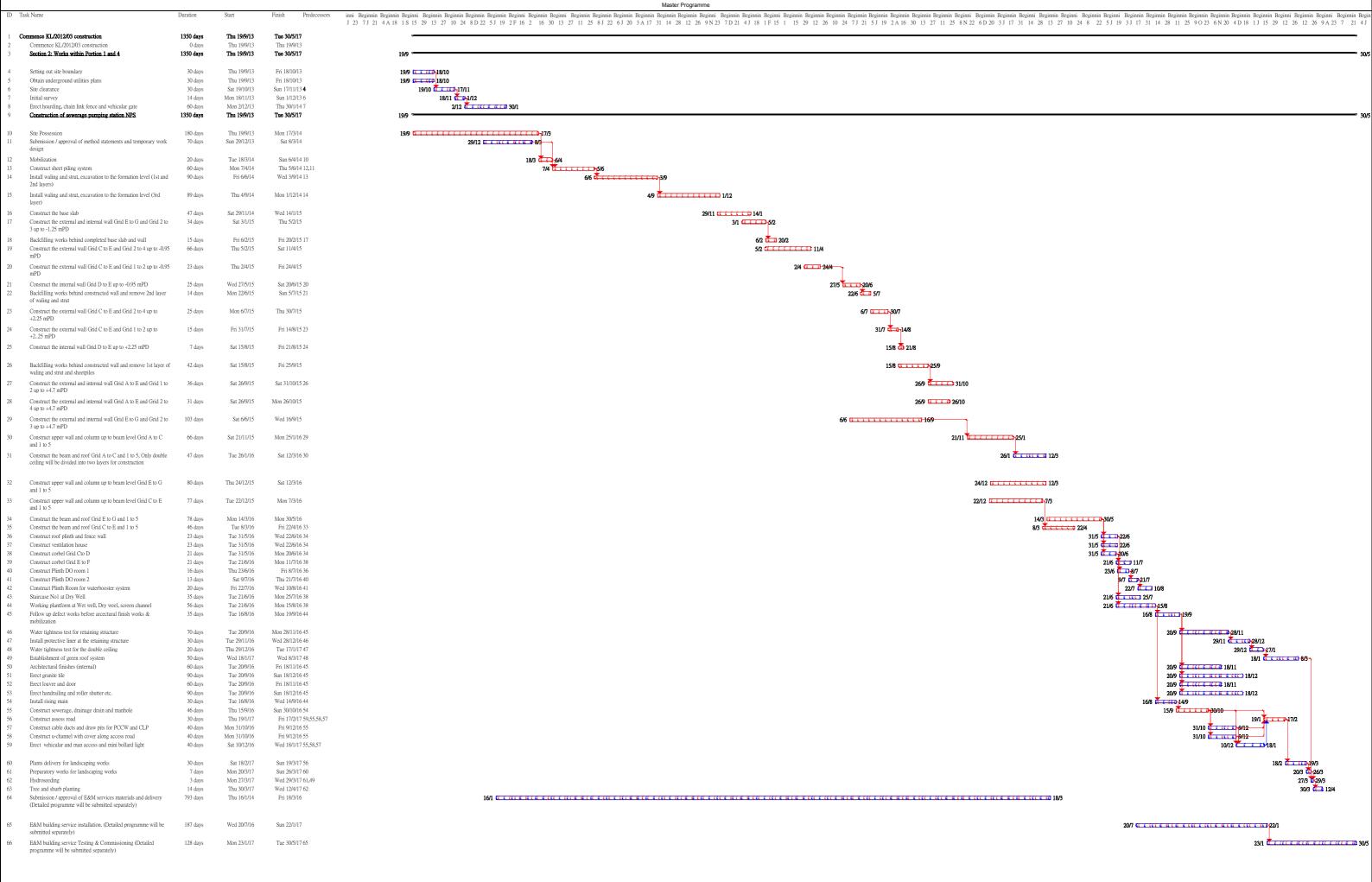
40 days Wed Jan 11, '17 Sun Feb 19, '17

24 days Mon Feb 20, '17 Wed Mar 15, '17 5 days Thu Mar 16, '17 Mon Mar 20, '17 10 days Tue Mar 21, '17 Thu Mar 30, '17

35 days Fri Mar 31, '17 Thu May 4, '17

3/15 3/16 3/20 3/21 3/30 3/31





evised Completion Date: 30 May 2017