



Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit
(EM&A) Report for May 2017

June 2017

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14 June 2017

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Contents

Executive Summary	1
1 Introduction	3
1.1 Background	3
1.2 Project Organisation	3
1.3 Environmental Status in the Reporting Period	3
1.4 Summary of EM&A Requirements	4
2 Impact Monitoring Methodology	6
2.1 Introduction	6
2.2 Air Quality	6
2.2.1 Monitoring Parameters, Frequency and Duration	6
2.2.2 Monitoring Locations	6
2.2.3 Monitoring Equipment	6
2.2.4 Monitoring Methodology	7
2.3 Noise	8
2.3.1 Monitoring Parameters, Frequency and Duration	8
2.3.2 Monitoring Location	9
2.3.3 Monitoring Equipment	9
2.3.4 Monitoring Methodology	9
2.4 Landscape and Visual	10
2.4.1 Monitoring Program	10
3 Monitoring Results	11
3.1 Impact Monitoring	11
3.2 Air Quality Monitoring	11
3.2.1 1-hour TSP	11
3.2.2 24-hour TSP	11
3.3 Noise Monitoring	12
3.4 Landscape and Visual Impact	12
4 Environmental Site Inspection	13
4.1 Site Inspection	13
4.1.1 M+ Museum	13
4.1.2 Lyric Theatre Complex	14
4.2 Advice on the Solid and Liquid Waste Management Status	15
4.2.1 M+ Museum	15
4.2.2 Lyric Theatre Complex	15
4.3 Status of Environmental Licenses and Permits	15
4.3.1 M+ Museum	16

4.3.2	Lyric Theatre Complex	16
4.4	Recommended Mitigation Measures	16
4.4.1	M+ Museum	16
4.4.2	Lyric Theatre Complex	17
5	Compliance with Environmental Permit	18
6	Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions	19
6.1	Record on Non-compliance of Action and Limit Levels	19
6.2	Record on Environmental Complaints Received	19
6.3	Record on Notifications of Summons and Successful Prosecution	19
7	Future Key Issues	20
7.1	Construction Works for the Coming Month(s)	20
7.1.1	M+ Museum	20
7.1.2	Lyric Theatre Complex	20
7.2	Key Issues for the Coming Month	20
7.2.1	M+ Museum	20
7.2.2	Lyric Theatre Complex	20
7.3	Monitoring Schedule for the Coming Month	21
8	Conclusions and Recommendations	22
8.1	Conclusions	22
8.2	Recommendations	22
Figure 1	Site Layout Plan and Monitoring Stations	23
Appendices		24
A.	Project Organisation	25
B.	Tentative Construction Programme	26
C.	Action and Limit Levels for Construction Phase	27
D.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	28
E.	Monitoring Schedule	29
F.	Calibration Certifications	30
G.	Graphical Plots of the Monitoring Results	31

H.	Meteorological Data Extracted from Hong Kong Observatory	32
I.	Waste Flow table	33
J.	Environmental Mitigation Measures – Implementation Status	34
K.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	35

Executive Summary

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex Foundation Works (Contract No.: CC/2015/3A/014) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum and Lyric Theatre Complex commenced on 31 October 2015 and 1 March 2016 respectively.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 3 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO.

This Monthly EM&A Report presents the monitoring works at both the main works of M+ Museum and foundation works of Lyric Theatre Complex conducted from 1 May to 31 May 2017.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting month.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out on 4, 11, 18 and 25 May 2017 for M+ Museum and 2, 10, 17, 24 and 31 May 2017 for Lyric Theatre Complex to confirm the implementation measures undertaken by the Contractors in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

Landscape and visual impact inspections were conducted as part of the abovementioned weekly site inspections during the reporting month. No adverse comment on landscape and visual aspects was made during these inspections.

EPD site inspection with Contractor was conducted on 19 and 26 May 2017 at Lyric Theatre Complex. No adverse comments were received.

Record of Complaints

One environmental complaint regarding site overflow with muddy water discharged into the sea at Lyric Theatre Complex was recorded in the reporting month.

Record of Notification of Summons and Successful Prosecutions

No notification of summons and successful prosecution were recorded in the reporting month.

Future Key Issues

The major site works at M+ Museum scheduled to be commissioned in the coming month include:

- Construction of 3/F, 2/F, 1M/F, 1/F, G/F, LG/F, B1 slab

- Construction of column from B1 to LGF, LGF to GF, G/F to 1/F, 1/F to 1M/F, 1M/F to 2/F, 2/F to 3/F
- Installation of mega struss
- ABWF work at DCS
- E&M work at B2/F and SPS
- Construction of B1 slab and beam and Roof Beam and slab at ICP
- Sheet Pile Installation for seawater outfall pipe between Ch0+66 to Ch0+108
- Storm Drainage at Portion M45
- Sewerage work at Portion L08

The major site works at Lyric Theatre Complex scheduled to be commissioned in the coming month include:

- Installation of Monitoring Instrumentation
- Pipe Pile Construction
- Pumping Test
- Pile Loading Test

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

1 Introduction

1.1 Background

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex Foundation Works (Contract No.: CC/2015/3A/014) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum and Lyric Theatre Complex commenced on 31 October 2015 and 1 March 2016 respectively.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 3 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ museum development aims to provide an iconic presence for the M+ museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions.

The 1,200-seat Lyric Theatre Complex will be Hong Kong’s first world-class facility for dance performances, including ballet, contemporary and Chinese dance forms. In the run up to the opening of further major performing arts venues in the WKCD, it will also be used for a wide variety of performing arts events including drama, opera and musical performances. The Lyric Theatre Complex will act as a platform for Hong Kong’s leading arts organisations, and be a new major venue to show programmes from Asia and worldwide.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/B. This Monthly EM&A Report presents the monitoring works at both the main works of M+ Museum and foundation works of Lyric Theatre Complex conducted from 1 May to 31 May 2017. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Environmental Status in the Reporting Period

During the reporting period, construction works at M+ Museum undertaken include:

- Construction of 2/F, 1M/F, 1/F, G/F, LG/F, B1 slab;

- Construction of column from B2 to B1, B1 to LGF, LGF to GF, G/F to 1/F, 1/F to 1M/F, 1M/F to 2/F
- Installation of mega truss
- ABWF work at DCS
- E&M work at B2/F and SPS
- Construction of B1 slab and beam and Roof Beam and slab at ICP
- Sheet Pile Installation for seawater outfall pipe between Ch0+66 to Ch0+108
- Storm Drainage at Portion M45
- Sewerage work at Portion L08

During the reporting period, construction works at Lyric Theatre Complex undertaken include:

- Installation of Monitoring Instrumentation
- Pipe Pile Construction
- Bored Pile Construction
- Pile Loading Test

The Construction Works Programmes of M+ Museum and Lyric Theatre Complex are provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.3** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements

The EM&A programme requires environmental monitoring of air quality, noise, landscape and visual as specified in the approved EM&A Manual.

A summary of impact EM&A requirements is presented in **Table 1.1**.

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days
	24-Hour TSP	AM2A – Austin Road West opposite to The Harbourside Tower 1	At least once every 6 days
	1-Hour TSP	AM2A – Austin Road West opposite to The Harbourside Tower 1	At least 3 times every 6 days
Noise	Leq, 30 minutes	NM1A- Podium level of The Harbourside Tower 1	Weekly
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly

Given that the Project covers only a small part of the whole WKCD area (i.e. M+ Museum, Lyric Theatre Complex and respective portions of underpass road), it was proposed that the EM&A programme for the Project should only require 1 noise monitoring station and 2 air quality monitoring stations located closest to the Project area. Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1, AM2 and NM1 were set up. Other monitoring locations are too far away (i.e. AM3 to AM5 and NM2 to NM5) are not included in this EM&A programme until the construction of the corresponding area commences.

The Harbourside management office formally rejected our proposal of setting up air quality and noise monitoring equipment on its premises at the podium level of Tower 1 (AM2/NM1) on 10 November 2015. Alternative noise monitoring location was identified at The Arch (NM2), however The Arch management office formally rejected our proposal of setting up noise monitoring equipment on its premises on 23 November 2015. Nevertheless, suitable air quality monitoring location at AM2 was identified on the ground floor in front of The Harbourside Tower 1, which is at the same location as

that of baseline monitoring for consistency. No management approval is required at the ground floor for conducting the air monitoring. However, the electricity supply at AM2 was suspended from 31 August 2016 and was no longer available. In order to have a more secure electricity supply, an alternative air monitoring location (AM2A) was identified at Austin Road West opposite to The Harbourside Tower 1, which is close to Lyric Theatre Complex site entrance. This alternative air monitoring location was approved by EPD on 28 September 2016. Noise monitoring at G/F of Harbourside will not be representative. Approval from the management office of the International Commerce Centre has been granted on 29 February 2016 for conducting noise monitoring at the alternative noise monitoring location identified at the podium floor (NM1A) which is free from screening to the construction activities. Therefore, 2 air quality monitoring stations and 1 noise impact monitoring station were confirmed for the impact monitoring.

The Environmental Quality Performance Limits for air quality and noise are shown in **Appendix C**.

The Event and Action Plan for air quality, construction noise, landscape and visual are shown in **Appendix D**.

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

2 Impact Monitoring Methodology

2.1 Introduction

For air quality and noise, the monitoring methodology, including the monitoring locations, monitoring equipment used, monitoring parameters, and frequency and duration etc., for air quality and noise are detailed in this Section. The environmental monitoring schedules for the reporting period and the tentative monitoring Schedule for the coming month are provided in **Appendix E**.

For landscape and audit impact, the relevant EM&A monitoring requirements and details are also presented in this Section.

2.2 Air Quality

2.2.1 Monitoring Parameters, Frequency and Duration

Table 2.1 summarizes the monitoring parameters, frequency and duration of the TSP monitoring.

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency	Duration
24-hour TSP	At least once in every six-days	24 hours
1-hour TSP	At least 3 times every six-days	60 minutes

2.2.2 Monitoring Locations

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1 and AM2A were set up at the proposed locations in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.2** and shown in **Figure 1**.

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location
AM1	International Commerce Centre (ICC)
AM2A	Austin Road West opposite to The Harbourside Tower 1

2.2.3 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was conducted using High Volume Sampler (HVS) (Model: TE-5170) located at the designated monitoring station. The HVS meets all the requirements stated in of the EM&A Manual. Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. **Table 2.3** summarizes the equipment used in the impact air quality monitoring. Copies of the calibration certificates for the HVS, calibration kit and portable dust meters are attached in **Appendix F**.

Table 2.3: TSP Monitoring Equipment

Equipment	Model
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)
Calibrator	TE-5025A (Orifice I.D.: 2454)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 276020 and 2Z6240)

Calibration of the HVS (five point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix F**

The 1-hour TSP monitoring should be determined periodically (e.g. annually) by the HVS to check the validity and accuracy of the results measured by direct reading method.

2.2.4 Monitoring Methodology

24-hour TSP Monitoring

Installation

The HVS was installed at the site boundary. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
- The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- A minimum of 2 metres separation from walls, parapets and penthouse was required for rooftop sampler.
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required.
- No furnace or incinerator flues or building vent were nearby.
- Airflow around the sampler was unrestricted.
- The sampler has been more than 20 metres from any drip line.
- Permission was obtained to set up the sampler and to obtain access to the monitoring station.
- A secured supply of electricity is needed to operate the sampler.

Preparation of Filter Papers

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected.
- The filters used are specified to have a minimum collection efficiency of 99 percent for 0.3 µm (DOP) particles.
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.

Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min.

- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

Maintenance and Calibration

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVSs were calibrated upon installation and thereafter at bi-monthly intervals. The calibration kits were calibrated annually.
- Calibration records for HVS and calibration kit are shown in **Appendix F**.

1-hour TSP Monitoring

Field Monitoring

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

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.
- Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 1 hour for the 1-hour TSP measurement.
- Push "START/STOP" to start the 1-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 1 hour.

Maintenance and Calibration

- The 1-hour dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are shown in **Appendix F**.

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.3 Noise

2.3.1 Monitoring Parameters, Frequency and Duration

Table 2.4 summarizes the monitoring parameters, frequency and duration of noise monitoring. The noise in A-weighted levels L_{eq} , L_{10} and L_{90} are recorded in a 30-minute interval between 0700 and 1900 hours.

Table 2.4: Noise Monitoring Parameters, Period and Frequency

Time Period	Parameters	Frequency
Daytime on normal weekdays (0700-1900 hours)	L_{eq} (30 min), L_{90} (30 min) & L_{10} (30 min)	Once every week

2.3.2 Monitoring Location

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring station NM1A was set up at the proposed location in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.5** and shown in **Figure 1**.

Table 2.5: Noise Monitoring Station

Monitoring Station	Location
NM1A	Podium floor of International Commerce Centre (ICC)

2.3.3 Monitoring Equipment

Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{Aeq}) and percentile sound pressure level (L_x). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 2.6** summarizes the noise monitoring equipment model being used.

Table 2.6: Noise Monitoring Equipments

Monitoring Station	Equipment Model	
	Integrating Sound Level Meter	Calibrator
NM1A	Rion NL-18 (Serial No.00360030)	Rion NC-73 (Serial No.10997142)

2.3.4 Monitoring Methodology

Field Monitoring

- The microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- Free Field measurement was made at the monitoring locations.
- 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: A
 - time weighting: Fast
 - time measurement: 30 minutes intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and has to be repeated after re-calibration or repair of the equipment.
- During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- A correction of +3dB(A) was made to the free field measurements.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.

- The sound level meter and calibrator are sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- Calibration records are shown in **Appendix F**.

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.4 Landscape and Visual

2.4.1 Monitoring Program

Table 2.7 details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

Table 2.7: Monitoring Program for Landscape and Visual Impact during Construction Phase

Stage	Monitoring Task	Frequency	Report	Approval
Construction	Monitor implementation of proposed mitigation measures during the construction stage.	Bi-weekly	ET to report on Contractor's compliance	Counter-signed by IEC

During the landscape and visual impact monitoring, any changes in relation to the landscape and visual amenity should be monitored with reference to the baseline conditions of the site. In addition, mitigation measures were proposed in the WKCD EIA report to minimise the landscape and visual impacts during the construction phase. The proposed mitigation measures as shown in Table 9.1 and Table 9.2 of the EM&A Manual should be checked for proper implementation.

3 Monitoring Results

3.1 Impact Monitoring

Construction impact monitoring for air quality, noise and landscape and visual impact was undertaken in compliance with the EM&A Manual during the reporting month.

3.2 Air Quality Monitoring

3.2.1 1-hour TSP

Results of 1-hour TSP at the monitoring location AM1 and AM2A are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.1: Summary of 1-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Result	2nd Result	3rd Result			
AM1	04-May-17	10:42	62	48	57	48-186	273.7	500
	10-May-17	10:50	167	175	186			
	16-May-17	10:37	62	58	55			
	22-May-17	11:00	75	83	91			
	26-May-17	8:02	48	60	62			
AM2A	04-May-17	10:55	59	65	70	55-193	274.2	500
	10-May-17	11:02	170	181	193			
	16-May-17	10:50	69	72	75			
	22-May-17	11:12	77	85	93			
	26-May-17	8:14	55	71	63			

3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2A are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM1	04-May-17	10:40	44	41-57	143.6	260
	10-May-17	10:48	57			
	16-May-17	10:35	46			
	22-May-17	10:48	41			
	26-May-17	08:00	48			
AM2A	04-May-17	10:52	43	43-85	151.1	260
	10-May-17	11:00	85			
	16-May-17	10:47	47			
	22-May-17	11:10	45			
	26-May-17	08:12	60			

No exceedance of 1-hour and 24-hour TSP (Action or Limit Level) was recorded in the reporting period.

3.3 Noise Monitoring

The construction noise monitoring results at the monitoring location NM1A are summarized in **Table 3.3**. Graphical plots of the monitoring data and the station set-up of a free-field measurement are shown in **Appendix G**.

Table 3.3: Summary of noise monitoring results during normal weekdays

Monitoring Date	Start Time	End Time	Leq (30 mins), dB(A)	Limit Level for Leq (dB(A))
04-May-17	14:00	14:30	69	75
10-May-17	14:00	14:30	68	
16-May-17	14:00	14:30	69	
22-May-17	14:00	14:30	68	

Remarks:

+3dB (A) correction was applied to free-field measurement.

No exceedance (Action/Limit Level) of construction noise was recorded in the reporting period as no noise related environmental complaint was received during the reporting period and noise levels recorded during the monitoring period were below 75 dB(A).

Construction works were extended to holidays on 7, 14 and 21 May 2017. In accordance with the EM&A Manual, additional monitoring was carried out during the restricted hours on 7, 14 and 21 May 2017. The L_{eq} (5 mins) is in the range of 68-69 dB(A). Major noise source includes traffic. Construction Noise Permits for the works carried out during restricted hours were obtained and listed in **Table 4.3**.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 11 and 25 May 2017 for M+ Museum and 10 and 24 May 2017 for Lyric Theatre Complex during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during these inspections.

The landscape and visual mitigation measures were implemented during the reporting period. The summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

4 Environmental Site Inspection

4.1 Site Inspection

4.1.1 M+ Museum

Construction phase weekly site inspections were carried out on 4, 11, 18 and 25 May 2017. The joint site inspection with IEC, ET, ER and Contractor was held on 18 May 2017. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. The key observations from the site inspections and associated recommendations are summarized in **Table 4.1**.

Table 4.1: Summary of Site Inspections and Recommendations for M+ Museum

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
27 Apr 2017	Waste management	Construction waste was found accumulated at B2. The contractor was reminded to remove the construction waste regularly.	The contractor has removed the construction waste previously found at B2.	4 May 2017
4 May 2017	Air quality	Open stockpile was found near wetsep no. 5. The contractor was reminded to cover it with impervious sheet if the stockpile is inactive.	The stockpile previously observed near wetsep no.5 is still active and construction activities are in progress.	11 May 2017
4 May 2017	Waste management	Oil stain was found on the haul road. The contractor was reminded to remove the oil stain and treat it as chemical waste.	The contractor has removed the oil stain previously found on the haul road.	11 May 2017
4 May 2017	Water quality	Effluent quality at ICP sampling point was checked. They were all visually clear when comparing to standard solution and within proper pH range.	N/A	N/A
11 May 2017	Air quality	Cement bags were found uncovered in B2. The contractor was reminded to cover the cement bags with impervious sheeting to reduce dust impact.	The contractor has covered the cement bags with impervious sheet.	18 May 2017
11 May 2017	Waste management	Chemicals were observed without drip tray in B2. The contractor was reminded to provide drip tray for the chemicals.	The contractor has removed the chemicals previously observed without drip tray.	18 May 2017
11 May 2017	Water quality	Effluent quality at ICP sampling point was checked. They were all visually clear when comparing to standard solution and within proper pH range.	N/A	N/A
18 May 2017	Air quality	Stockpile was observed without cover near wetsep no. 5 and seafront. The contractor was reminded to cover it with impervious sheeting or provide regular water spraying to reduce dust impact.	The contractor has removed the stockpile near wetsep no. 5 and seafront.	25 May 2017
18 May 2017	Waste management	Oil mixture was observed in the drip tray. The contractor was reminded to remove it and treat it as chemical waste.	The contractor has removed the oil mixture in the drip tray.	25 May 2017

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
18 May 2017	Waste management	General refuse was observed on the ground. The contractor was reminded to remove the general refuse.	The contractor has removed the general refuse previously observed on the ground.	25 May 2017
18 May 2017	Water quality	Effluent quality at ICP sampling point was checked. They were all visually clear when comparing to standard solution and within proper pH range.	N/A	N/A
25 May 2017	Air quality	Haul road was observed dry and dusty. The contractor was reminded to enhance water spraying to reduce dust impact.	Follow-up status will be provided in the next reporting month	On-going
25 May 2017	Air quality	Cement bags were found without any cover at B2. The contractor was reminded to cover the cement bags with impervious sheeting.	Follow-up status will be provided in the next reporting month	On-going
25 May 2017	Waste management	Construction waste/ general refuse was observed accumulated at B2. The contractor was reminded to remove the construction waste/ refuse.	Follow-up status will be provided in the next reporting month	On-going
25 May 2017	Water quality	Effluent quality at ICP sampling point and M+ wetsep was checked. They were all visually clear when comparing to standard solution and within proper pH range.	N/A	N/A

4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 2, 10, 17, 24 and 31 May 2017. The joint site inspection with IEC, ET, ER and Contractor was held on 24 April 2017. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. The key observations from the site inspections and associated recommendations are summarized in **Table 4.2**.

EPD site inspection was conducted on 19 and 26 May 2017. On 19 May 2017, general inspection was conducted and photos were taken at sea-front area and wastewater treatment facilities. On 26 May 2017, follow up inspection was conducted regarding muddy water observed at outfall of MTR 810 site on 24 May 2017. EPD inspectors applied colour dye to trace water flow from the discharge point gully to storm drain manhole at Austin Road West. They also conducted general inspection and took photos at sea-front area and wastewater treatment facilities. No adverse comments were received during both inspections.

Table 4.2: Summary of Site Inspections and Recommendations for Lyric Theatre Complex

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
17 May 2017	Water quality	Suspended solid and missing of net at outlet were observed at wetsep no.1. The contractor was reminded to clear the suspended solid and install the net in order to keep the quality of discharge water.	Wetsep No.1 was desludged and a net was installed at the outlet.	20 May 2017
17 May 2017	Air quality	Stockpile was observed at the work area. The contractor was reminded to cover or remove the stockpile.	The stockpile was covered with tarpaulin sheet.	20 May 2017
24 May 2017	Water quality	The contractor was reminded to direct site runoff through wetsep units before discharge from the	All site runoff was properly discharged through wetsep.	29 May 2017

Inspection Date	Parameter	Observation / Recommendation	Contactors' Responses / Action(s) Undertaken	Close-out (Date)
		site, and to enhance mitigation measures to prevent spillage of site runoff at sea front (where necessary).		
24 May 2017	Waste management	Some chemical containers were not placed in a suitably bunded area. The contractor was advised to provide suitable bunded area for storage. Also, the contractor should check the large container containing other chemical containers to ensure no leakage.	Chemicals were replaced into proper container for storage and the container was plugged already.	29 May 2017
31 May 2017	Air quality	Dry ground was observed at Area L04. The contractor was reminded to increase water spraying frequency to reduce dust impact.	Follow-up status will be provided in the next reporting month	On-going
31 May 2017	Water quality	Suspended solid was observed at wetsep No.2. The contractor was reminded to clear the suspended solid in order to keep the quality of discharge water.	Follow-up status will be provided in the next reporting month	On-going

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractors have been registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting will be carried out on site. A sufficient number of receptacles were available for general refuse collection.

4.2.1 M+ Museum

As advised by the Contractor, 134 tonnes, 86.42 tonnes and 231.57 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively, while 139.0 tonnes of general refuse was disposed of at SENT landfill. 71.1 tonnes of metals, 0 tonnes of paper/cardboard packaging, 0 tonne of plastic and 280.0 tonnes of timber were collected by recycling contractors in the reporting month. 0 tonne of inert C&D materials was reused on site. 528.0 tonnes of inert C&D materials were reused in other projects and 173.7 tonnes of inert C&D materials were disposed of sorting facility. 0 tonne of chemical waste was collected by licensed contractors in the reporting period.

The actual amounts of different types of waste generated by the activities of construction works at M+ Museum in the reporting month are shown in **Appendix I**.

4.2.2 Lyric Theatre Complex

As advised by the Contractor, 877.16 tonnes and 1,603.16 tonnes of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively, while 10.0 tonnes of general refuse was disposed of at SENT landfill. 20.9 tonnes of metals, 0.1 tonne of paper/cardboard packaging, 0 tonne of plastic and 0 tonne of timber were collected by recycling contractors in the reporting month. 0 tonne of inert C&D materials was reused on site. 99.0 tonne of inert C&D materials was reused in other projects. 0.5 tonnes of chemical waste was collected by licensed contractors in the reporting period.

The actual amounts of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting month are shown in **Appendix I**.

4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.3 and Table 4.4**.

4.3.1 M+ Museum

Table 4.3: Status of Environmental Submissions, Licenses and Permits for M+ Museum

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
5213-217-H2913-45	05-Nov-15	--	Valid	--
Billing Account Construction Waste Disposal				
7023393	13-Oct-15	--	Account Active	--
Construction Noise Permit				
GW-RE1058-16	4-Nov-16	3-May-17	Cancelled on 4-May-17	--
GW-RE0348-17	4-May-17	3-Nov-17	Valid	--
Wastewater Discharge License				
WT00023633-2016	4-Mar-16	31-Mar-21	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
394083	7-Oct-15	--	Notified	--

4.3.2 Lyric Theatre Complex

Table 4.4: Status of Environmental Submissions, Licenses and Permits for Lyric Theatre Complex

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
5213-217-G2347-39	17-Feb-16	--	Valid	--
Billing Account Construction Waste Disposal				
7024189	25-Jan-16	--	Account Active	--
Construction Noise Permit				
GW-RE0214-17	20-Mar-17	19-Sep-17	Valid	--
Wastewater Discharge License				
WT00023648-2016	9-Mar-16	31-Mar-21	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
398075	18-Jan-16	--	Notified	--

4.4 Recommended Mitigation Measures

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**. In particular, the following mitigation measures were brought to attention during the site inspections:

4.4.1 M+ Museum

Chemical and Waste Management

- All chemical drum/ containers stored on site should be provided with drip trays.
- Any oil stain found on the ground should be removed and treat it as chemical waste.
- Construction waste generated on site should be regularly removed.
- Drip trays should be regularly cleaned up to avoid accumulation of chemical waste.

Air Quality

- Enhance water spraying for haul roads to reduce dust impact.
- Maintain high standard of housekeeping to prevent emission of fugitive dust.
- Impervious sheet or regular water spraying should be provided to inactive stockpile and cement bags to reduce dust impact.

4.4.2 Lyric Theatre Complex

Chemical and Waste Management

- All chemical drum/ containers stored on site should be provided with drip trays.
- Chemical storage containers should be plugged and regularly checked to ensure no leakage of chemicals.

Air Quality

- Enhance water spraying for haul roads to reduce dust impact.
- Stockpile should be regularly removed or covered by impervious sheeting.

Water Quality

- Wetsep units should be regularly checked and maintained to ensure proper function to treat wastewater or runoff before discharge.
- All site runoff should be directed to wastewater treatment facilities for treatment before discharging off site.
- Mitigation measures should be implemented to prevent overflow of site runoff into the sea.

5 Compliance with Environmental Permit

The status of the required submission under the EP during the reporting period is summarized in **Table 5.1**.

Table 5.1: Status of Submissions under the Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for April 2017	12 May 2017

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

6.1 Record on Non-compliance of Action and Limit Levels

There was no breach of Action or Limit Levels for Air Quality and Noise monitoring in the reporting month.

6.2 Record on Environmental Complaints Received

One environmental complaint regarding site overflow with muddy water discharged into the sea at Lyric Theatre Complex was recorded on 24 May 2017. Investigation has been conducted which revealed that no construction works were carried out on that day, except for pumping site runoff from the drainage collection trench located along the concerned seafront area due to rainfall, to wastewater treatment facilities for treatment before discharging offsite. The contractor has had temporary drainage arrangement in place near the seafront since April 2017 and previous adverse weather has demonstrated the effectiveness of the temporary drainage arrangement where no overflow of site runoff was observed.

With the heavy rainfall on 24 May 2017, the contractor was required to handle the site runoff within the site together with the unexpected runoff from the adjacent area that also fell into their catchment area. The contractor had been continuously pumping out site runoff to wastewater treatment facilities for treatment before discharging offsite as much as possible. Emergency and immediate actions were carried out including setting up of intermediate bunds to minimise site runoff to the seafront; providing excavated trench in the middle of the site for extra storage; redirecting site runoff from adjacent sites by using bunds and sandbags; and pumping site runoff to other less environmental sensitive works area for temporary storage and further treatment before discharging offsite. The incident of muddy water discharged to the sea was due to the extreme rainfall. In the afternoon of 24 May 2017, no muddy water was observed near the seafront though it was still raining.

Nonetheless, the contractor implemented follow-up actions including revising the temporary drainage design using a more conservative approach to accommodate for the possibility of increased runoff; constructing bunds where there is interface with adjacent projects; excavating storage pits and construction of berm in the middle of the site for runoff retention as an interim buffer; pumping water to other site areas for temporary retention; regular checking of pumps and drainage to ensure proper functioning of the system when rainstorm warning signals are hoisted; and preparing standby pumps and sandbags on site for emergency.

The cumulative statistics on complaints were provided in **Appendix K**.

6.3 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecution were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

7 Future Key Issues

7.1 Construction Works for the Coming Month(s)

7.1.1 M+ Museum

The major site works scheduled to be commissioned in the coming month include:

- Construction of 3/F, 2/F, 1M/F, 1/F, G/F, LG/F, B1 slab;
- Construction of column from B1 to LGF, LGF to GF, G/F to 1/F, 1/F to 1M/F, 1M/F to 2/F, 2/F to 3/F;
- Installation of mega truss
- ABWF work at DCS;
- E&M work at B2/F and SPS;
- Construction of B1 slab and beam and Roof Beam and slab at ICP
- Sheet Pile Installation for seawater outfall pipe between Ch0+66 to Ch0+108
- Storm Drainage at Portion M45
- Sewerage work at Portion L08

7.1.2 Lyric Theatre Complex

The major site works scheduled to be commissioned in the coming month include:

- Installation of Monitoring Instrumentation
- Pipe Pile Construction
- Pumping Test
- Pile Loading Test

7.2 Key Issues for the Coming Month

7.2.1 M+ Museum

Key issues to be considered in the coming month include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

7.2.2 Lyric Theatre Complex

Key issues to be considered in the coming month include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. Impact monitoring for air quality and noise in accordance with the approved EM&A Manual has commenced since 31 October 2015 and 5 March 2016 respectively. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.

8 Conclusions and Recommendations

8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction of M+ Museum main works commenced on 31 October 2015, and the construction of Lyric Theatre Complex foundation works commenced on 1 March 2016.

Monitoring of air quality and noise with respect to the Projects is underway. In particular, the 1-hour TSP, 24-hour TSP, noise level (as Leq, 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit Levels for 1-hour TSP, 24-hour TSP and noise in the reporting month.

One environmental complaint regarding site overflow with muddy water discharged into the sea at Lyric Theatre Complex was recorded in the reporting month. No notifications of summons or successful prosecution were received during the reporting month.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting month as required. It was observed that the Contractors had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

8.2 Recommendations

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

Figure 1 Site Layout Plan and Monitoring Stations

Appendices

A.	Project Organisation	25
B.	Tentative Construction Programme	26
C.	Action and Limit Levels for Construction Phase	27
D.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	28
E.	Monitoring Schedule	29
F.	Calibration Certifications	30
G.	Graphical Plots of the Monitoring Results	31
H.	Meteorological Data Extracted from Hong Kong Observatory	32
I.	Waste Flow table	33
J.	Environmental Mitigation Measures – Implementation Status	34
K.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	35

A. Project Organisation

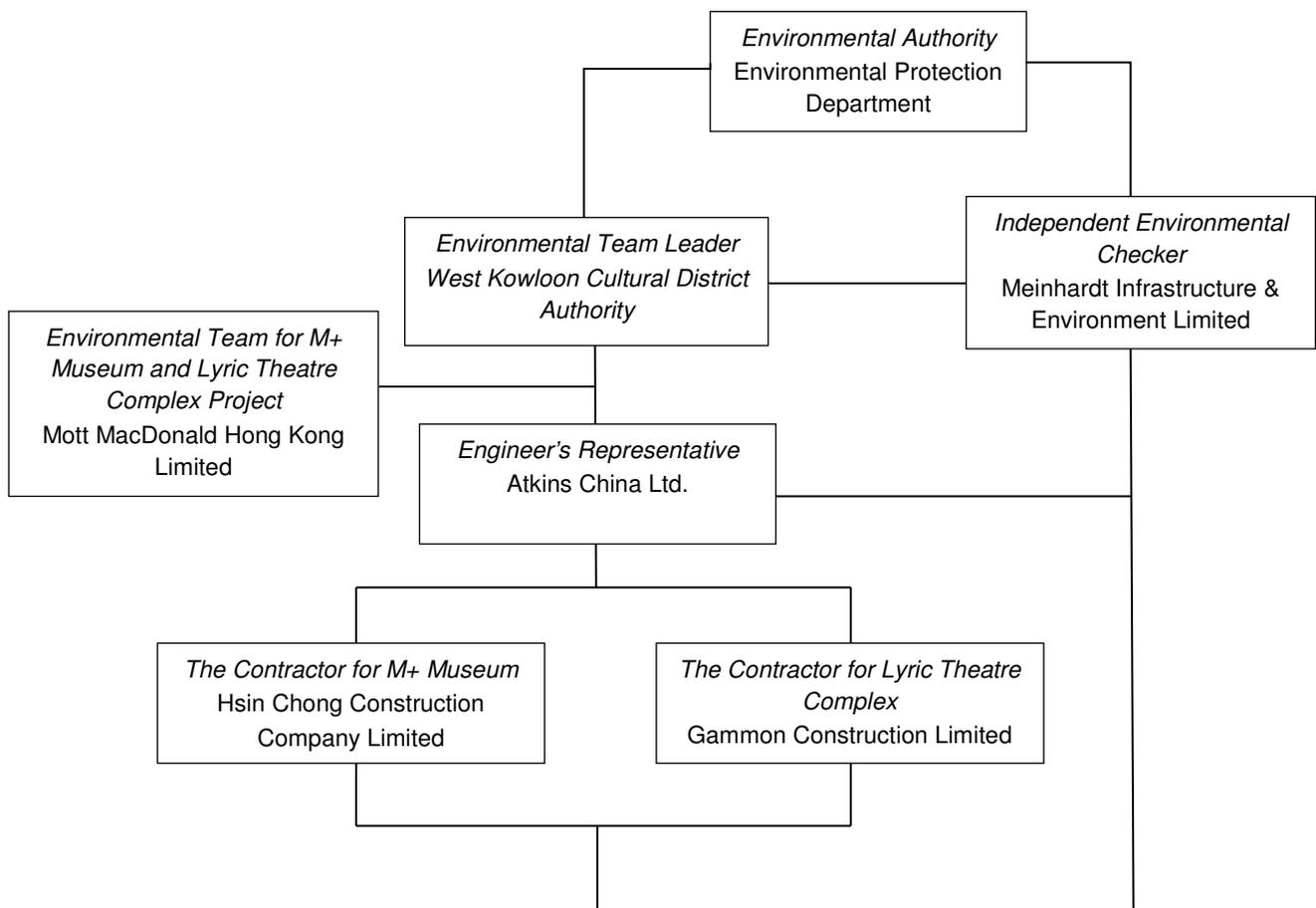


Table A-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Resident Engineer	Mr. Benny Ip	9379 5614
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Mr. Fredrick Leong	2859 1739
Hsin Chong Construction Company Limited	Environmental Manager	Mr. Leo Chow	9266 6855
Gammon Construction Limited	Environmental Manager	Ms. Michelle Tang	9267 8866
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr Brandon Wong	2828 5875
West Kowloon Cultural District Authority	Senior Environmental Specialist	Mr. Brian Tam	2200 0059

B. Tentative Construction Programme

M+ Museum

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
M+ MICP D15 OP3A-Month 19-30Apr2017														
M+														
Contract Dates														
CD01	Contract Period (1218 days)	770	17-Dec-16	25-Jan-19	17-Dec-16	25-Jan-19*	17.14%	17.14%	0					
Key Dates														
KD07	Interfacing Car Park (ICP) - Completion of Structure	0		25-Jun-17		25-Jun-17*	0%	0%	0					
KD01	Sewage Pumping Station (SPS) - Practical Completion for H/O to DSD	0		25-Jun-17		15-Sep-17*	0%	0%	-82					
KD02	CSF Building (P39A) - Obtain OP & Practical Completion for handover to the Authority	0		25-Jul-18		03-Jun-18*	0%	0%	52					
KD03	RDE Building (P39B) - Obtain OP & Practical Completion for handover to the Authority	0		25-Jul-18		09-Jul-18*	0%	0%	17					
KD05	Main IT Room, Local ICT Room/Riser Room - Stage 2 Completion for H/O to Authority	0		25-Aug-18		25-Aug-18*	0%	0%	0					
KD04	M+ - Obtain OP for Stage 1 Completion for whole of M+	0		25-Oct-18		07-Dec-18*	0%	0%	-44					
KD06	M+ Including all other area - Practical Completion of the Works	0		25-Jan-19		25-Jan-19	0%	0%	0					
M+ Podium Structure RC Works														
Podium Structure Zone A, M, N & H (Non-deferred Zone Parallel w/ Trusses)														
Zone A Structure														
B1-GF Level														
A11010	Zone A4 Wall, Column & GF Slab	15	22-Mar-17	08-Apr-17	06-Feb-17	06-May-17	100%	60%	-19					
A11020	Zone A5 Wall, Column & GF Slab	15	22-May-17	08-Jun-17	03-Apr-17	11-May-17	0%	35%	23					
GF-1F-1MF Level														
A11050	Zone A3 Wall, Column & 1MF Slab	21	20-Dec-16	16-Jan-17	23-Dec-16	08-Apr-17 A	100%	100%	-66					
A11040	Zone A2 Wall, Column & 1MF Slab	21	06-Jan-17	02-Feb-17	23-Jan-17	10-May-17	100%	60%	-76					
A11030	Zone A1 Wall, Column & 1MF Slab	21	16-Jan-17	11-Feb-17	13-Feb-17	17-May-17	100%	30%	-75					
A11060	Zone A4 Wall, Column & 1MF Slab	21	27-Apr-17	23-May-17	08-May-17	01-Jun-17	4.76%	0%	-7					
A11070	Zone A5 Wall, Column & 1MF Slab	15	09-Jun-17	26-Jun-17	11-May-17	29-May-17	0%	0%	23					
1MF-2F Level														
A11100	Zone A3 Wall, Column & 2F Slab	21	17-Jan-17	13-Feb-17	10-Apr-17	12-May-17	100%	50%	-70					
A11090	Zone A2 Wall, Column & 2F Slab	21	03-Feb-17	27-Feb-17	10-May-17	05-Jun-17	100%	0%	-76					
A11080	Zone A1 Wall, Column & 2F Slab	21	13-Feb-17	08-Mar-17	17-May-17	12-Jun-17	100%	0%	-75					
A11220	Zone A5 Wall, Column & 2F Slab	16	27-Jun-17	15-Jul-17	29-May-17	17-Jun-17	0%	0%	23					
A11160	Zone A4 Wall, Column & 2F Slab	21	24-May-17	17-Jun-17	02-Jun-17	26-Jun-17	0%	0%	-7					
2F-3F Level														
A11480	Zone A3 Wall, Column & 3F Slab	21	14-Feb-17	09-Mar-17	12-May-17	07-Jun-17	100%	0%	-70					
A11400	Zone A2 Wall, Column & 3F Slab	21	28-Feb-17	23-Mar-17	05-Jun-17	29-Jun-17	100%	0%	-76					
A11320	Zone A1 Wall, Column & 3F Slab	21	09-Mar-17	01-Apr-17	12-Jun-17	07-Jul-17	100%	0%	-75					
A11620	Zone A5 Wall, Column & 3F Slab	18	17-Jul-17	05-Aug-17	17-Jun-17	10-Jul-17	0%	0%	23					
A11530	Zone A4 Wall, Column & 3F Slab	25	19-Jun-17	18-Jul-17	27-Jun-17	26-Jul-17	0%	0%	-7					
A11800	Complete Zone A Podium Structure	0		05-Aug-17		26-Jul-17	0%	0%	9					
Zone H Structure														
GL-3F Level (Structure Remains Propped before Zone K construction complete)														
A10880	Podium Wall, Column & GF slab (GL 11-14/L-M)	82	03-Oct-16	10-Jan-17	03-Oct-16	10-May-17	100%	90%	-93					
A17315	Construct B1 Slab (GL 11-12/G-M & GL 11-14/M)	14	22-May-17	07-Jun-17	05-May-17	22-May-17	0%	0%	13					
A10890	Podium Wall, Column & 1F slab (GL 11-14/L-M)	14	11-Jan-17	26-Jan-17	10-May-17	26-May-17	100%	0%	-93					
A17325	Podium Wall, Column & LGF slab (GL 11-13/H-L)	10	08-Jun-17	19-Jun-17	22-May-17	03-Jun-17	0%	0%	13					
A10900	Podium Wall, Column & 1MF slab (GL 11-14/L-M)	14	27-Jan-17	15-Feb-17	26-May-17	13-Jun-17	100%	0%	-93					
A10910	Podium Wall, Column & 2F slab (GL 11-14/L-M)	14	16-Feb-17	03-Mar-17	13-Jun-17	29-Jun-17	100%	0%	-93					
A17330	Podium Wall, Column & GF slab (GL 11-14/H-L, Staircase & M15 Boundary)	14	20-Jun-17	06-Jul-17	29-Jun-17	17-Jul-17	0%	0%	-8					
A17340	Podium Wall, Column & 1F slab (GL 11-14/H-L)	16	07-Jul-17	25-Jul-17	17-Jul-17	04-Aug-17	0%	0%	-8					
West Core Wall (Zone M) @ GL 7-8/A-E														
A43090	1F-1MF Wall, Column & 1MF slab (GL 7-8/A-D)	11	03-Feb-17	15-Feb-17	09-Feb-17	06-Apr-17 A	100%	100%	-41					
A43100	1MF-2F Wall, Column & 2F slab (GL 7-8/A-D)	21	16-Feb-17	11-Mar-17	07-Apr-17	10-May-17	100%	58.9%	-45					
A43110	2F-3F Wall, Column & 3F slab (GL 7-8/A-D)	21	13-Mar-17	06-Apr-17	11-May-17	05-Jun-17	100%	0%	-45					
A43120	3F-4F Wall, Column & 4F slab (GL 7-8/A-D)	25	07-Apr-17	11-May-17	06-Jun-17	05-Jul-17	60%	0%	-45					
A43130	Complete 4/F West Core Wall Podium Structure	0		11-May-17		05-Jul-17	0%	0%	-47					
East Core Wall (Zone N) @ GL 7-8/L-M														
A43140	1MF-2F Wall, Column & 2F slab (GL 7-8/L-M)	13	13-May-17	27-May-17	28-Jun-17	08-Jul-17	0%	0%	-36					
A43150	2F-3F Wall, Column & 3F slab (GL 7-8/L-M)	13	29-May-17	12-Jun-17	10-Jul-17	20-Jul-17	0%	0%	-33					
A43160	3F-4F Wall, Column & 4F slab (GL 7-8/L-M)	15	13-Jun-17	29-Jun-17	21-Jul-17	01-Aug-17	0%	0%	-28					
Podium Structure Zone B, C, D & Q (Deferred Zone @ T5 & T1)														
Zone C @ GL 1-5/H-K														
A15920	Stage 2 - Construct wall, column & GF slab (GL 7-5/H-K)	18	13-Feb-17	04-Mar-17	28-Apr-17	20-May-17	100%	0%	-60					
A15930	Stage 3/4 - Construct hanging columns, wall, beam & slab @ 1MF, 1F (GL 1-5/H-K)	22	27-Feb-17	23-Mar-17	15-May-17	09-Jun-17	100%	0%	-60					
A15940	Stage 5 - Construct wall, column & 2F slab (GL 1-5/H-K)	20	13-Mar-17	05-Apr-17	29-May-17	21-Jun-17	100%	0%	-60					
A15950	Stage 5 - Complete Zone C for T5 stability prop installation	0		05-Apr-17		21-Jun-17	100%	0%	-60					
A42900	Stage 5 - Construct wall, column & 3F slab (GL 1-5/H-K)	22	06-Apr-17	06-May-17	22-Jun-17	18-Jul-17	72.73%	0%	-60					
A42910	Complete Zone C Structure	0		06-May-17		18-Jul-17	0%	0%	-60					
Installation of Stability Prop for T5														
A15960	Stage 5 - Install T5 stability prop	2	29-Jul-17	31-Jul-17	19-Jul-17	20-Jul-17	0%	0%	9					
A15970	Stage 5 - Complete T5 stability prop	0		31-Jul-17		20-Jul-17	0%	0%	9					
Podium Structure Zone E, G & J (Deferred Zone Near T3 & T4)														

◆ Milestone
 ◆ Critical Milestone
 Actual Work
 Remaining Work
 Critical Remaining Work

◆ Actual Milestone
 Project Baseline
 Baseline Milestone

West Kowloon Cultural District Authority M+ Master Completion Programme (MICP) Draft 15 Option 3A



Three Months Rolling Programme Update				
Date	Revision	Checked	Approved	
30-Dec-16	M+ MICP Draft 14 Option ...	Chris	Chris Chau / Ricky Lau	
27-Jan-17	3MRP_27 Jan 17	CS	Chris Chau / Ricky Lau	
28-Feb-17	3MRP_28 Feb 17	CS	Chris Chau / Ricky Lau	
31-Mar-17	3MRP-31 Mar 17	CS	Chris Chau / Ricky Lau	
30-Apr-17	3MRP_30 Apr 17	CS	Chris Chau / Ricky Lau	

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	M1CP D15 O3A	M1CP D15 O3A	M1CP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Zone E & E1 @GL 10-8/A-E (not within deferred zone)														
A16840	Stage 2 - Construct wall, column & GF slab (GL 10-8/C-E)	21	30-Dec-16	24-Jan-17	29-Dec-16	25-Apr-17 A	100%	100%	-70					
A16830	Stage 2 - Construct wall, column & GF slab (GL 12-8/A-C)	21	26-Jan-17	22-Feb-17	06-Feb-17	25-Apr-17 A	100%	100%	-48					
A16850	Stage 3 - Construct 1MF beam & slab (GL 12-8/A-C)	21	23-Feb-17	18-Mar-17	15-Mar-17	23-May-17	100%	5%	-50					
A16860	Stage 3 - Construct 1MF beam & slab (GL 10-8/C-E)	21	25-Jan-17	21-Feb-17	15-Mar-17	23-May-17	100%	5%	-72					
A16870	Stage 4 - Construct 2F beam & slab (GL 12-8/A-C)	20	20-Mar-17	12-Apr-17	23-May-17	16-Jun-17	100%	0%	-50					
A16880	Stage 4 - Construct 2F beam & slab (GL 10-8/C-E)	21	22-Feb-17	17-Mar-17	23-May-17	17-Jun-17	100%	0%	-72					
A16890	Stage 5 - Construct wall, column & 3F roof (GL 12-8/A-C)	21	13-Apr-17	12-May-17	16-Jun-17	12-Jul-17	47.62%	0%	-50					
A16920	Stage 8 - 1MF, 2F & 3F Concrete Curing (GL 12-8/A-C: incl. Area E1)	7	13-May-17	19-May-17	12-Jul-17	19-Jul-17	0%	0%	-61					
A16930	Stage 8 - Complete Zone E (except E1 & E2)	0		19-May-17		19-Jul-17	0%	0%	-50					
M+ Mega Truss Site Construction														
Site Construction of Truss 5														
A50525	T5 Steel Truss Concrete Encasement (LoE)	111	13-Mar-17	28-Jul-17	08-Mar-17	18-Jul-17	32.43%	0%	9					
A50570	T5 Steel Truss Erection - Part 2 (incl. T5N04, T5-D21 & T5-B14) (LoE)	15	25-May-17	12-Jun-17	15-May-17	01-Jun-17	0%	0%	9					
A50580	Complete Truss 5 Steel Erection	0		13-Jun-17		02-Jun-17	0%	0%	11					
A50600	Complete Truss 5 Construction	0		28-Jul-17		18-Jul-17	0%	0%	10					
T5 Steel Erection (incl. Modular Towers & Working Platform)														
Installation of T5 Remaining Components														
MT1700	Completion of East Core Wall	0	25-May-17		15-May-17*		0%	0%	9					
MT1710	Installation T5-N04	1	26-May-17	26-May-17	16-May-17	16-May-17	0%	0%	9					
MT1720	Installation T5-D21	1	27-May-17	27-May-17	17-May-17	17-May-17	0%	0%	9					
MT1730	Installation T5-B14	5	29-May-17	03-Jun-17	18-May-17	23-May-17	0%	0%	9					
Welding and NDT of Top Chords (Remaining)														
MT1750	Welding N04(A) N04 (B)	5	31-May-17	05-Jun-17	19-May-17	24-May-17	0%	0%	9					
MT1780	Welding N04-B14	2	31-May-17	01-Jun-17	19-May-17	20-May-17	0%	0%	9					
MT1740	Welding D21-N01	5	01-Jun-17	06-Jun-17	20-May-17	25-May-17	0%	0%	9					
MT1760	Welding N04-D21	5	01-Jun-17	06-Jun-17	20-May-17	25-May-17	0%	0%	9					
MT1770	Welding B14-N05	5	05-Jun-17	09-Jun-17	24-May-17	29-May-17	0%	0%	9					
MT1790	NDT for top chord (main)	2	10-Jun-17	12-Jun-17	31-May-17	01-Jun-17	0%	0%	9					
Completion of T5 Installation														
MT1800	Survey check for overall truss T5	1	13-Jun-17	13-Jun-17	02-Jun-17	02-Jun-17	0%	0%	9					
RC Works CJ2 to +23.7mPD (Bottom Chord)														
A50690	Rebar Fixing CJ2 @GL 5-7	5	10-Jun-17	15-Jun-17	31-May-17	05-Jun-17	0%	0%	9					
A50740	Formworks CJ2 @GL 5-7	2	16-Jun-17	17-Jun-17	06-Jun-17	07-Jun-17	0%	0%	9					
A50820	Concreting CJ2 @GL 5-7	1	19-Jun-17	19-Jun-17	08-Jun-17	08-Jun-17	0%	0%	9					
A50930	Concrete Curing CJ2 @GL 5-7	7	20-Jun-17	26-Jun-17	09-Jun-17	15-Jun-17	0%	0%	11					
RC Works to CJ3 to +28.6mPD (7 nos. of Bracing)														
A51120	Rebar Fixing CJ3 @GL 3-5	4	13-Apr-17	20-Apr-17	29-Mar-17	11-Apr-17 A	100%	100%	6					
A51030	Rebar Fixing CJ3 @GL 1-3	5	31-Mar-17	06-Apr-17	29-Mar-17	12-Apr-17 A	100%	100%	-4					
A51130	Formworks CJ3 @GL 3-5	1	21-Apr-17	21-Apr-17	03-Apr-17	13-Apr-17 A	100%	100%	5					
A51040	Formworks CJ3 @GL 1-3	2	07-Apr-17	08-Apr-17	03-Apr-17	13-Apr-17 A	100%	100%	-4					
A51100	Concreting CJ3 @GL 1-3	1	10-Apr-17	10-Apr-17	06-Apr-17	18-Apr-17 A	100%	100%	-3					
A51140	Concreting CJ3 @GL 3-5	1	22-Apr-17	22-Apr-17	06-Apr-17	13-Apr-17 A	100%	100%	6					
A51150	CJ3 @GL 3-5 Concrete Curing	7	23-Apr-17	29-Apr-17	14-Apr-17	21-Apr-17 A	71.43%	100%	9					
A51110	CJ3 @GL 1-3 Concrete Curing	7	11-Apr-17	17-Apr-17	19-Apr-17	26-Apr-17 A	100%	100%	-8					
A51180	Rebar Fixing CJ3 @GL 5-7	5	27-Jun-17	03-Jul-17	16-Jun-17	21-Jun-17	0%	0%	9					
A51190	Formworks CJ3 @GL 5-7	1	04-Jul-17	04-Jul-17	22-Jun-17	22-Jun-17	0%	0%	9					
A51240	Concreting CJ3 @GL 5-7	1	05-Jul-17	05-Jul-17	23-Jun-17	23-Jun-17	0%	0%	9					
A51290	Concrete Curing CJ3 @GL 5-7	7	06-Jul-17	12-Jul-17	24-Jun-17	30-Jun-17	0%	0%	12					
RC Works to +31.3mPD (Top Chord - 3/F)														
A51710	Rebar Fixing CJ4 @GL 1-3	8	07-Apr-17	19-Apr-17	28-Apr-17	09-May-17	100%	0%	-15					
A52030	Rebar Fixing CJ4 @GL 3-5	7	21-Apr-17	28-Apr-17	28-Apr-17	08-May-17	85.71%	0%	-6					
A52060	Formworks CJ4 @GL 3-5	1	29-Apr-17	29-Apr-17	09-May-17	09-May-17	0%	0%	-6					
A51740	Formworks CJ4 @GL 1-3	2	20-Apr-17	21-Apr-17	10-May-17	11-May-17	100%	0%	-15					
A52150	Concreting Top Chord CJ4 @GL 3-5	1	02-May-17	02-May-17	10-May-17	10-May-17	0%	0%	-6					
A52240	Concrete Curing Top Chord CJ4 @GL 3-5	7	03-May-17	09-May-17	11-May-17	17-May-17	0%	0%	-8					
A51840	Concreting Top Chord CJ4 @GL 1-3	1	22-Apr-17	22-Apr-17	12-May-17	12-May-17	100%	0%	-15					
A51940	Concrete Curing Top Chord CJ4 @GL 1-3	7	23-Apr-17	29-Apr-17	13-May-17	19-May-17	71.43%	0%	-20					
A52330	Rebar Fixing CJ4 @GL 5-7	6	13-Jul-17	19-Jul-17	03-Jul-17	08-Jul-17	0%	0%	9					
A52420	Formworks CJ4 @GL 5-7	1	20-Jul-17	20-Jul-17	10-Jul-17	10-Jul-17	0%	0%	9					
A52510	Concreting to Top Chord CJ4 @GL 5-7	1	21-Jul-17	21-Jul-17	11-Jul-17	11-Jul-17	0%	0%	9					
A52570	Concrete Curing Top Chord CJ4 @GL 5-7	7	22-Jul-17	28-Jul-17	12-Jul-17	18-Jul-17	0%	0%	10					
Site Construction of Truss 1														
A40515	T1 Steel Truss Erection (LoE)	70	04-Feb-17	02-May-17	23-Jan-17	11-May-17	95.71%	85.71%	-7					
A40520	T1 Steel Truss Concrete Encasement (LoE)	76	27-Mar-17	30-Jun-17	28-Apr-17	11-Aug-17	31.58%	0%	-35					
A40518	Complete Truss 1 Steel Erection	0		06-May-17		11-May-17	0%	0%	-5					
T1 Steel Erection (incl. Modular Towers & Working Platform)														
Temporary Supports & Modular Towers														
MT2500	Installation of temporary support towers 1	1	10-Apr-17	10-Apr-17	28-Apr-17	28-Apr-17	100%	0%	-13					
MT2510	Erection hanger platform 1	1	11-Apr-17	11-Apr-17	29-Apr-17	29-Apr-17	100%	0%	-13					
Installation of Bottom Chords, Bracings & Top Chords														
Top Chords & Bracing Windows Plates														
MT2460	Installation cover plate, TCB at D21	4	22-Apr-17	26-Apr-17	12-Apr-17	13-Apr-17 A	100%	100%	9					
MT2440	Install cover plates at D24	4	03-Apr-17	07-Apr-17	12-Apr-17	13-Apr-17 A	100%	100%	-4					
MT2520	Installation T1-N05	1	12-Apr-17	12-Apr-17	02-May-17	02-May-17	100%	0%	-13					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Welding and NDT for bottom chords-1														
MT2100	Survey check for bottom chord	1	15-Mar-17	15-Mar-17	09-Apr-17	09-Apr-17 A	100%	100%	-20					
Welding and NDT for cover plates														
MT2470	Welding cover plate at D21	4	27-Apr-17	02-May-17	01-Apr-17	05-Apr-17 A	25%	100%	20					
MT2480	NDT for cover plates	18	10-Apr-17	05-May-17	06-Apr-17	10-May-17	72.22%	50%	-4					
MT2450	Welding cover plates at D24	3	08-Apr-17	11-Apr-17	24-Apr-17	26-Apr-17 A	100%	100%	-9					
Welding and NDT for Window plates-1														
MT2420	Welding of D21-1C(I)	4	10-Apr-17	13-Apr-17	30-Mar-17	05-Apr-17 A	100%	100%	8					
MT2390	Welding of D24-1A(O)	4	24-Mar-17	28-Mar-17	18-Apr-17	24-Apr-17 A	100%	100%	-18					
MT2400	Welding of D23-1B(I)	5	27-Mar-17	31-Mar-17	18-Apr-17	24-Apr-17 A	100%	100%	-15					
MT2430	NDT for bracing (window plate)	15	31-Mar-17	21-Apr-17	27-Apr-17	27-Apr-17 A	100%	100%	-4					
Welding and NDT for Top Chords														
MT2590	NDT for top chord (main)	2	04-May-17	05-May-17	18-Mar-17	04-May-17	0%	40%	1					
MT2580	Welding N06-N05	1	13-Apr-17	13-Apr-17	04-May-17	04-May-17	100%	0%	-13					
Completion of T1 Installation														
MT2600	Survey check for overall truss T1	1	06-May-17	06-May-17	11-May-17	11-May-17	0%	0%	-4					
RC Works East Core Wall (incl. to +28.3mPD for T5-N04A & T5-N04B)														
A37510	Construct +20.45mPD to 23.7mPD	15	10-Apr-17	29-Apr-17	28-Apr-17	17-May-17	86.67%	0%	-13					
A49410	Rebar Fixing to +28.3mPD @GL K-M	5	11-Apr-17	19-Apr-17	15-May-17	19-May-17	100%	0%	-24					
A37540	Construct +28.4mPD to 34.75mPD	18	27-May-17	17-Jun-17	17-May-17	07-Jun-17	0%	0%	9					
A37520	Construct +23.7mPD to 28.4mPD	17	02-May-17	22-May-17	18-May-17	07-Jun-17	0%	0%	-13					
A49500	Formworks +28.3mPD @GL K-M	1	20-Apr-17	20-Apr-17	20-May-17	20-May-17	100%	0%	-24					
A49590	Concreting +28.3mPD @GL K-M	1	21-Apr-17	21-Apr-17	22-May-17	22-May-17	100%	0%	-24					
A49680	Concrete Curing +28.3mPD @GL K-M	7	22-Apr-17	28-Apr-17	23-May-17	29-May-17	85.71%	0%	-31					
A37550	Construct +34.75mPD to 37.95mPD	17	19-Jun-17	08-Jul-17	08-Jun-17	27-Jun-17	0%	0%	9					
A37530	Concrete Curing +28.4mPD	3	23-May-17	25-May-17	08-Jun-17	10-Jun-17	0%	0%	-16					
RC Works CJ2 to +23.7mPD (Bottom Chord)														
A40610	Rebar Fixing CJ2 @GL K-H (As built GL F-K)	9	06-Apr-17	19-Apr-17	18-Apr-17	27-May-17	100%	100%	-30					
A40620	Formworks CJ2 @GL K-H (As built GL F-K)	2	20-Apr-17	21-Apr-17	24-Apr-17	28-Apr-17 A	100%	100%	-5					
A40570	Rebar Fixing CJ2 @GL M-K	8	27-Mar-17	05-Apr-17	28-Apr-17	09-May-17	100%	0%	-24					
A40630	Concreting CJ2 @GL K-H (As built GL F-K)	1	22-Apr-17	22-Apr-17	28-Apr-17	28-Apr-17	100%	0%	-5					
A40650	Rebar Fixing CJ2 @GL H-E (GL E-G)	10	20-Apr-17	02-May-17	28-Apr-17	11-May-17	70%	0%	-7					
A40640	Concrete Curing CJ2 @GL K-H	7	23-Apr-17	29-Apr-17	29-Apr-17	05-May-17	71.43%	0%	-6					
A40580	Formworks CJ2 @GL M-K	1	06-Apr-17	06-Apr-17	10-May-17	10-May-17	100%	0%	-24					
A40590	Concreting CJ2 @GL M-K	1	07-Apr-17	07-Apr-17	11-May-17	11-May-17	100%	0%	-24					
A40600	Concrete Curing CJ2 @GL M-K	7	08-Apr-17	14-Apr-17	12-May-17	18-May-17	100%	0%	-34					
A40660	Formworks CJ2 @GL H-E (GL E-G)	1	04-May-17	04-May-17	12-May-17	12-May-17	0%	0%	-7					
A44330	Concreting CJ2 @GL H-E (GL E-G)	1	05-May-17	05-May-17	13-May-17	13-May-17	0%	0%	-7					
A44440	Concrete Curing CJ2 @GL H-E (GL E-G)	6	06-May-17	11-May-17	14-May-17	19-May-17	0%	0%	-8					
RC Works to CJ3 to +29.3mPD (7 nos. of Bracing)														
A40670	Rebar Fixing CJ3 @GL M-K (GL J-M)	5	04-May-17	09-May-17	19-May-17	24-May-17	0%	0%	-13					
A40750	Rebar Fixing CJ3 @GL H-E (GL E-G)	5	12-May-17	17-May-17	20-May-17	25-May-17	0%	0%	-7					
A40680	Formworks CJ3 @GL M-K (GL J-M)	2	10-May-17	11-May-17	25-May-17	26-May-17	0%	0%	-13					
A40710	Rebar Fixing CJ3 @GL K-H (GL F-K)	4	10-May-17	13-May-17	25-May-17	29-May-17	0%	0%	-13					
A40760	Formworks CJ3 @GL H-E (GL E-G)	1	18-May-17	18-May-17	26-May-17	26-May-17	0%	0%	-7					
A44950	Concreting CJ3 @GL H-E (GL E-G)	1	19-May-17	19-May-17	27-May-17	27-May-17	0%	0%	-7					
A40690	Concreting CJ3 @GL M-K (GL J-M)	1	12-May-17	12-May-17	27-May-17	27-May-17	0%	0%	-13					
A45060	Concrete Curing CJ3 @GL H-E (GL E-G)	7	20-May-17	26-May-17	28-May-17	03-Jun-17	0%	0%	-8					
A40700	Concrete Curing CJ3 @GL M-K (GL J-M)	7	13-May-17	19-May-17	28-May-17	03-Jun-17	0%	0%	-15					
A40720	Formworks CJ3 @GL K-H (GL F-K)	1	15-May-17	15-May-17	31-May-17	31-May-17	0%	0%	-13					
A40730	Concreting CJ3 @GL K-H (GL F-K)	1	16-May-17	16-May-17	01-Jun-17	01-Jun-17	0%	0%	-13					
A40740	Concrete Curing CJ3 @GL K-H (GL F-K)	7	17-May-17	23-May-17	02-Jun-17	08-Jun-17	0%	0%	-16					
RC Works to CJ4 to 34.75mPD (7 nos. of Bracing)														
A40770	Rebar Fixing CJ4 @GL M-K (GL J-M)	5	20-May-17	25-May-17	05-Jun-17	09-Jun-17	0%	0%	-12					
A40850	Rebar Fixing CJ4 @GL H-E (GL E-G)	5	27-May-17	02-Jun-17	05-Jun-17	09-Jun-17	0%	0%	-6					
A40780	Formworks CJ4 @GL M-K (GL J-M)	2	26-May-17	27-May-17	10-Jun-17	12-Jun-17	0%	0%	-12					
A40810	Rebar Fixing CJ4 @GL K-H (GL F-K)	4	26-May-17	31-May-17	10-Jun-17	14-Jun-17	0%	0%	-12					
A40860	Formworks CJ4 @GL H-E	2	03-Jun-17	05-Jun-17	10-Jun-17	12-Jun-17	0%	0%	-6					
A40790	Concreting CJ4 @GL M-K (GL J-M)	1	29-May-17	29-May-17	13-Jun-17	13-Jun-17	0%	0%	-12					
A45570	Concreting CJ4 @GL H-E	1	06-Jun-17	06-Jun-17	13-Jun-17	13-Jun-17	0%	0%	-6					
A40800	Concrete Curing CJ4 @GL M-K (GL J-M)	7	30-May-17	05-Jun-17	14-Jun-17	20-Jun-17	0%	0%	-15					
A45680	Concrete Curing CJ4 @GL H-E	7	07-Jun-17	13-Jun-17	14-Jun-17	20-Jun-17	0%	0%	-7					
A40820	Formworks CJ4 @GL K-H (GL F-K)	2	01-Jun-17	02-Jun-17	15-Jun-17	16-Jun-17	0%	0%	-12					
A40830	Concreting CJ4 @GL K-H	1	03-Jun-17	03-Jun-17	17-Jun-17	17-Jun-17	0%	0%	-12					
A40840	Concrete Curing CJ4 @GL K-H	7	04-Jun-17	10-Jun-17	18-Jun-17	24-Jun-17	0%	0%	-14					
RC Works to +37.95mPD (Top Chord - 4/F Slab)														
A40950	Rebar Fixing @GL H-E	7	14-Jun-17	21-Jun-17	21-Jun-17	28-Jun-17	0%	0%	-6					
A40910	Rebar Fixing @GL K-H	7	12-Jun-17	19-Jun-17	26-Jun-17	04-Jul-17	0%	0%	-12					
A40960	Formworks @GL H-E	1	22-Jun-17	22-Jun-17	29-Jun-17	29-Jun-17	0%	0%	-6					
A40970	Concreting to Top Chord @GL H-E	1	23-Jun-17	23-Jun-17	30-Jun-17	30-Jun-17	0%	0%	-6					
A40980	Concrete Curing Top Chord @GL H-E	7	24-Jun-17	30-Jun-17	01-Jul-17	07-Jul-17	0%	0%	-7					
A40920	Formworks @GL K-H	1	20-Jun-17	20-Jun-17	05-Jul-17	05-Jul-17	0%	0%	-12					
A40930	Concreting Top Chord @GL K-H	1	21-Jun-17	21-Jun-17	06-Jul-17	06-Jul-17	0%	0%	-12					
A40940	Concrete Curing Top Chord @GL K-H	7	22-Jun-17	28-Jun-17	07-Jul-17	13-Jul-17	0%	0%	-15					
A40870	Rebar Fixing @GL M-K	8	06-Jun-17	14-Jun-17	24-Jul-17	01-Aug-17	0%	0%	-40					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Site Construction of Truss 2														
A46665	T2 Steel Truss Erection (LoE)	69	23-Feb-17	20-May-17	27-Jan-17	08-May-17	73.91%	90%	11					
A46715	T2 Steel Truss Concrete Encasement (LoE)	78	21-Apr-17	25-Jul-17	02-May-17	26-Aug-17	7.69%	0%	-28					
A46675	Complete Truss 2 Steel Works Erection	0		23-May-17		08-May-17	0%	0%	15					
T2 Steel Erection (incl. Modular Towers & Working Platform)														
Temporary Supports & Modular Towers														
MT3300	Installation of temporary support towers 1	1	11-May-17	11-May-17	28-Apr-17	28-Apr-17	0%	0%	9					
MT3310	Installation of hanger platform 1	1	12-May-17	12-May-17	29-Apr-17	29-Apr-17	0%	0%	9					
Installation of Bottom Chords, Bracings & Top Chords														
Top Chords & Bracing Windows Plates														
MT3230	Installation of cover plate for T2-D25	3	06-Apr-17	08-Apr-17	12-Apr-17	13-Apr-17 A	100%	100%	-3					
MT3250	Installation of TCB bolts and shaped plates for T2-D21	4	15-May-17	18-May-17	12-Apr-17	13-Apr-17 A	0%	100%	26					
MT3320	Installation T2-N05	1	13-May-17	13-May-17	02-May-17	02-May-17	0%	0%	9					
Welding and NDT for Bottom chord														
MT2880	Survey check for bottom chord	1	05-Apr-17	05-Apr-17	28-Apr-17	28-Apr-17	100%	0%	-17					
Welding and NDT for Main bracings														
MT3090	Welding D21-N06	5	26-Apr-17	02-May-17	06-Mar-17	05-Apr-17 A	40%	100%	20					
MT3130	NDT for bracing (main)	33	23-Mar-17	06-May-17	16-Mar-17	27-Apr-17 A	81.82%	100%	7					
MT3050	Welding D24-N03	4	17-Mar-17	21-Mar-17	17-Mar-17	24-Apr-17 A	100%	100%	-24					
MT3040	Welding D25-N08	5	11-Mar-17	16-Mar-17	21-Mar-17	24-Apr-17 A	100%	100%	-28					
MT3030	Welding D25-N04	5	11-Mar-17	16-Mar-17	22-Mar-17	20-Apr-17 A	100%	100%	-25					
MT3060	Welding D24-N08	5	17-Mar-17	22-Mar-17	24-Mar-17	24-Apr-17 A	100%	100%	-23					
MT3160	Welding D25-1A(O)	4	23-Mar-17	27-Mar-17	24-Apr-17	26-Apr-17 A	100%	100%	-21					
MT3170	Welding D24-1C(I)	4	28-Mar-17	31-Mar-17	24-Apr-17	26-Apr-17 A	100%	100%	-17					
MT3240	Welding of cover for T2-D25	4	08-Apr-17	12-Apr-17	24-Apr-17	26-Apr-17 A	100%	100%	-8					
Welding and NDT for Window plates														
MT3200	Welding D21-1C(I)	4	10-May-17	13-May-17	18-Apr-17	27-Apr-17 A	0%	100%	13					
MT3220	Welding D22-1A(O)	4	10-May-17	13-May-17	18-Apr-17	27-Apr-17 A	0%	100%	13					
MT3210	NDT for bracing (window plate)	4	13-May-17	17-May-17	28-Apr-17	04-May-17	0%	0%	11					
Welding and NDT for cover and shaped plates														
MT3260	Welding of TCB bolts and shaped plates for T2-D21	4	15-May-17	18-May-17	13-Apr-17	13-Apr-17 A	0%	100%	26					
MT3270	NDT for cover and shaped plates, T2-D22-1A	3	18-May-17	20-May-17	28-Apr-17	02-May-17	0%	0%	15					
Welding and NDT for Top Chords														
MT3400	NDT for top chord (main)	7	13-May-17	20-May-17	20-Mar-17	05-May-17	0%	30%	13					
MT3390	Welding N06-N05	1	15-May-17	15-May-17	04-May-17	04-May-17	0%	0%	9					
Completion of T2 Installation														
MT3410	Survey check for overall truss T2	2	22-May-17	23-May-17	05-May-17	08-May-17	0%	0%	13					
RC Works CJ2 to +23.7mPD (Bottom Chord)														
A47240	Rebar Fixing CJ2 @GL M-K (GL J-M)	8	21-Apr-17	29-Apr-17	02-May-17	11-May-17	75%	0%	-8					
A47250	Formworks CJ2 @GL M-K (GL J-M)	1	02-May-17	02-May-17	12-May-17	12-May-17	0%	0%	-8					
A47280	Rebar Fixing CJ2 @GL K-H (GL F-K)	9	02-May-17	12-May-17	12-May-17	22-May-17	0%	0%	-8					
A47260	Concreting CJ2 @GL M-K (GL J-M)	1	04-May-17	04-May-17	13-May-17	13-May-17	0%	0%	-8					
A47270	Concrete Curing CJ2 @GL M-K (GL J-M)	7	05-May-17	11-May-17	14-May-17	20-May-17	0%	0%	-9					
A47290	Formworks CJ2 @GL K-H (GL F-K)	2	13-May-17	15-May-17	23-May-17	24-May-17	0%	0%	-8					
A47320	Rebar Fixing CJ2 @GL H-E (GL D-G)	10	13-May-17	24-May-17	23-May-17	03-Jun-17	0%	0%	-8					
A47300	Concreting CJ2 @GL K-H (GL F-K)	1	16-May-17	16-May-17	25-May-17	25-May-17	0%	0%	-8					
A47310	Concrete Curing CJ2 @GL K-H (GL F-K)	7	17-May-17	23-May-17	26-May-17	01-Jun-17	0%	0%	-9					
A47360	Formworks CJ2 @GL H-E (GL D-G)	1	25-May-17	25-May-17	05-Jun-17	05-Jun-17	0%	0%	-8					
A47380	Concreting CJ2 @GL H-E (GL D-G)	1	26-May-17	26-May-17	06-Jun-17	06-Jun-17	0%	0%	-8					
A47390	Concrete Curing CJ2 @GL H-E (GL D-G)	6	27-May-17	01-Jun-17	07-Jun-17	12-Jun-17	0%	0%	-11					
RC Works to CJ3 to +29.3mPD (7 nos. of Bracing)														
A47400	Rebar Fixing CJ3 @GL K-H (GL J-L)	5	24-May-17	29-May-17	02-Jun-17	07-Jun-17	0%	0%	-7					
A47410	Formworks CJ3 @GL K-H (GL J-L)	2	31-May-17	01-Jun-17	08-Jun-17	09-Jun-17	0%	0%	-7					
A47420	Concreting CJ3 @GL K-H (GL J-L)	1	02-Jun-17	02-Jun-17	10-Jun-17	10-Jun-17	0%	0%	-7					
A47430	CJ3 @GL K-H Concrete Curing (GL J-L)	7	03-Jun-17	09-Jun-17	11-Jun-17	17-Jun-17	0%	0%	-8					
A47440	Rebar Fixing CJ3 @GL H-E (GL G-J)	4	02-Jun-17	06-Jun-17	13-Jun-17	16-Jun-17	0%	0%	-9					
A47450	Formworks CJ3 @GL H-E (GL G-J)	1	07-Jun-17	07-Jun-17	17-Jun-17	17-Jun-17	0%	0%	-9					
A47450	Rebar Fixing CJ3 @GL M-K (GL E-G)	5	07-Jun-17	12-Jun-17	17-Jun-17	22-Jun-17	0%	0%	-9					
A47460	Concreting CJ3 @GL H-E (GL G-J)	1	08-Jun-17	08-Jun-17	19-Jun-17	19-Jun-17	0%	0%	-9					
A47470	CJ3 @GL H-E Concrete Curing (GL G-J)	7	09-Jun-17	15-Jun-17	20-Jun-17	26-Jun-17	0%	0%	-11					
A47620	Formworks CJ3 @GL M-K (GL E-G)	1	13-Jun-17	13-Jun-17	23-Jun-17	23-Jun-17	0%	0%	-9					
A47720	Concreting CJ3 @GL M-K (GL E-G)	1	14-Jun-17	14-Jun-17	24-Jun-17	24-Jun-17	0%	0%	-9					
A47830	Concrete Curing CJ3 @GL M-K (GL E-G)	7	15-Jun-17	21-Jun-17	25-Jun-17	01-Jul-17	0%	0%	-10					
RC Works to CJ4 to 34.75mPD (7 nos. of Bracing)														
A47960	Rebar Fixing CJ4 @GL K-H (GL J-L)	5	10-Jun-17	15-Jun-17	19-Jun-17	23-Jun-17	0%	0%	-7					
A48000	Formworks CJ4 @GL K-H (GL J-L)	2	16-Jun-17	17-Jun-17	24-Jun-17	26-Jun-17	0%	0%	-7					
A48020	Concreting CJ4 @GL K-H (GL J-L)	1	19-Jun-17	19-Jun-17	27-Jun-17	27-Jun-17	0%	0%	-7					
A48040	Rebar Fixing CJ4 @GL H-E (GL G-J)	4	16-Jun-17	20-Jun-17	27-Jun-17	30-Jun-17	0%	0%	-9					
A48030	Concrete Curing CJ4 @GL K-H (GL J-L)	7	20-Jun-17	26-Jun-17	28-Jun-17	04-Jul-17	0%	0%	-8					
A48050	Formworks CJ4 @GL H-E (GL G-J)	2	21-Jun-17	22-Jun-17	03-Jul-17	04-Jul-17	0%	0%	-9					
A48080	Rebar Fixing CJ4 @GL M-K (GL E-G)	5	22-Jun-17	27-Jun-17	03-Jul-17	07-Jul-17	0%	0%	-8					
A48060	Concreting CJ4 @GL H-E (GL G-J)	1	23-Jun-17	23-Jun-17	05-Jul-17	05-Jul-17	0%	0%	-9					
A48070	Concrete Curing CJ4 @GL H-E (GL G-J)	7	24-Jun-17	30-Jun-17	06-Jul-17	12-Jul-17	0%	0%	-12					
A48090	Formworks CJ4 @GL M-K (GL E-G)	2	28-Jun-17	29-Jun-17	08-Jul-17	10-Jul-17	0%	0%	-8					
A48110	Concreting CJ4 @GL M-K (GL E-G)	1	30-Jun-17	30-Jun-17	11-Jul-17	11-Jul-17	0%	0%	-8					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A48170	Concrete Curing CJ4 @GL M-K (GL E-G)	7	01-Jul-17	07-Jul-17	12-Jul-17	18-Jul-17	0%	0%	-11				A48170	Concrete Curing CJ4 @GL M-K (GL E-G)
RC Works to +37.95mPD (Top Chord - 4/F Slab)														
A48660	Rebar Fixing @GL H-E	7	03-Jul-17	10-Jul-17	13-Jul-17	20-Jul-17	0%	0%	-9				A48660	Rebar Fixing @GL H-E
A48890	Rebar Fixing @GL M-K	7	08-Jul-17	15-Jul-17	19-Jul-17	26-Jul-17	0%	0%	-9				A48890	Rebar Fixing @GL M-K
A48700	Formworks @GL H-E	1	11-Jul-17	11-Jul-17	21-Jul-17	21-Jul-17	0%	0%	-9				A48700	Formworks @GL H-E
A48330	Rebar Fixing @GL K-H	8	27-Jun-17	06-Jul-17	24-Jul-17	01-Aug-17	0%	0%	-22				A48330	Rebar Fixing @GL K-H
A48990	Formworks @GL M-K	1	17-Jul-17	17-Jul-17	27-Jul-17	27-Jul-17	0%	0%	-9				A48990	Formworks @GL M-K
Site Construction of Truss 3														
A12960	T3 Steel Truss Erection (LoE)	65	20-Mar-17	10-Jun-17	25-Feb-17	10-Jun-17	46.15%	46.38%	0				A12960	T3 Steel Truss Erection (LoE)
A13190	T3 Steel Truss Concrete Encasement (LoE)	63	23-May-17	05-Aug-17	28-Apr-17	27-Jul-17	0%	0%	8				A13190	T3 Steel Truss Concrete Encasement (LoE)
A13130	Complete Truss 3 Steel Works Erection	0		16-Jun-17		10-Jun-17	0%	0%	5				A13130	Complete Truss 3 Steel Works Erection
A13200	Complete Truss 3 Construction	0		05-Aug-17		27-Jul-17	0%	0%	8				A13200	Complete Truss 3 Construction
T3 Steel Erection (incl. Modular Towers & Working Platform)														
Installation of Bottom Chords, Bracings & Top Chords														
MT3650	Installation window plate B13-B14	1	19-Apr-17	19-Apr-17	03-Apr-17	03-Apr-17 A	100%	100%	11	MT3650	Installation window plate B13-B14			
MT3660	Installation window plate N03-B13	1	20-Apr-17	20-Apr-17	03-Apr-17	03-Apr-17 A	100%	100%	12	MT3660	Installation window plate N03-B13			
MT3670	Installation window plate B12-N03	1	21-Apr-17	21-Apr-17	03-Apr-17	03-Apr-17 A	100%	100%	13	MT3670	Installation window plate B12-N03			
MT3640	Installation window plate B14-N04	1	18-Apr-17	18-Apr-17	10-Apr-17	10-Apr-17 A	100%	100%	5	MT3640	Installation window plate B14-N04			
MT3680	Installation window plates N02-B12	1	22-Apr-17	22-Apr-17	10-Apr-17	10-Apr-17 A	100%	100%	9	MT3680	Installation window plates N02-B12			
Top Chords & Bracing Windows Plates														
MT4180	Installation window plate D27-N04	1	27-Apr-17	27-Apr-17	12-Apr-17	12-Apr-17 A	100%	100%	11	MT4180	Installation window plate D27-N04			
MT4260	Installation window plate B15-N05	1	01-Jun-17	01-Jun-17	17-Apr-17	17-Apr-17 A	0%	100%	36	MT4260	Installation window plate B15-N05			
MT4190	Installation window plate D27-N08	1	28-Apr-17	28-Apr-17	20-Apr-17	20-Apr-17 A	0%	100%	8	MT4190	Installation window plate D27-N08			
MT4200	Installation window plate B18-N08	1	17-May-17	17-May-17	22-Apr-17	22-Apr-17 A	0%	100%	20	MT4200	Installation window plate B18-N08			
MT4210	Installation window plate B17-B18	1	18-May-17	18-May-17	22-Apr-17	22-Apr-17 A	0%	100%	21	MT4210	Installation window plate B17-B18			
MT4220	Installation window plate N07-B17	1	19-May-17	19-May-17	24-Apr-17	24-Apr-17 A	0%	100%	21	MT4220	Installation window plate N07-B17			
MT4230	Installation window plate B16-N07	1	22-May-17	22-May-17	28-Apr-17	28-Apr-17 A	0%	0%	18	MT4230	Installation window plate B16-N07			
MT3940	Installation T3-B15	1	12-May-17	12-May-17	28-Apr-17	28-Apr-17 A	0%	0%	10	MT3940	Installation T3-B15			
MT4240	Installation window plate N06-B16	1	24-May-17	24-May-17	02-May-17	02-May-17 A	0%	0%	18	MT4240	Installation window plate N06-B16			
MT4250	Installation window plate B15-N06	1	26-May-17	26-May-17	10-May-17	10-May-17 A	0%	0%	14	MT4250	Installation window plate B15-N06			
MT4370	Installation of TCB bolts and shaped plates for T3-D26	8	02-Jun-17	10-Jun-17	22-May-17	01-Jun-17 A	0%	0%	8	MT4370	Installation of TCB bolts and shaped plates for T3-D26			
Welding and NDT of bottom Chords														
MT3630	NDT for bottom chord (main)	5	13-Apr-17	21-Apr-17	29-Mar-17	02-May-17 A	100%	43%	-8	MT3630	NDT for bottom chord (main), NDT for bottom chord (main)			
Welding and NDT of window plates														
MT3700	Welding of window plates B13-B14	8	20-Apr-17	28-Apr-17	03-Apr-17	08-Apr-17 A	87.5%	100%	15	MT3700	Welding of window plates B13-B14			
MT3710	Welding of window plates N03-B13	8	21-Apr-17	29-Apr-17	03-Apr-17	10-Apr-17 A	75%	100%	15	MT3710	Welding of window plates N03-B13			
MT3720	Welding of window plates B12-N03	8	22-Apr-17	02-May-17	08-Apr-17	20-Apr-17 A	62.5%	100%	10	MT3720	Welding of window plates B12-N03			
MT3690	Welding of window plates B14-N04	8	19-Apr-17	27-Apr-17	10-Apr-17	19-Apr-17 A	100%	100%	8	MT3690	Welding of window plates B14-N04			
MT3730	Welding of window plates N02-B12	8	24-Apr-17	04-May-17	10-Apr-17	20-Apr-17 A	50%	100%	11	MT3730	Welding of window plates N02-B12			
MT3740	NDT for bottom chord (window plate)	5	02-May-17	08-May-17	12-Apr-17	04-May-17 A	0%	60%	3	MT3740, MT3740	NDT for bottom chord (window plate), NDT for bottom chord (window plate)			
MT3750	Survey check for bottom chord	1	05-May-17	05-May-17	02-May-17	04-May-17 A	0%	0%	1	MT3750	Survey check for bottom chord			
Welding and NDT of Main Bracings														
MT3990	Welding D26-N07	4	02-May-17	06-May-17	31-Mar-17	03-Apr-17 A	0%	100%	24	MT3990	Welding D26-N07			
MT4170	NDT for bracing (main)	31	22-Apr-17	31-May-17	03-Apr-17	22-May-17 A	16.13%	40%	7	MT4170	NDT for bracing (main), NDT for bracing (main)			
MT3960	Welding D27-N08	5	18-Apr-17	22-Apr-17	03-Apr-17	03-Apr-17 A	100%	100%	14	MT3960	Welding D27-N08			
MT4080	Welding N07-B16	4	12-May-17	16-May-17	05-Apr-17	05-Apr-17 A	0%	100%	31	MT4080	Welding N07-B16			
MT3950	Welding N08-N09	4	13-Apr-17	20-Apr-17	05-Apr-17	05-Apr-17 A	100%	100%	11	MT3950	Welding N08-N09			
MT3970	Welding D27-N04	4	18-Apr-17	21-Apr-17	05-Apr-17	05-Apr-17 A	100%	100%	12	MT3970	Welding D27-N04			
MT3980	Welding D26-N04	4	29-Apr-17	05-May-17	05-Apr-17	05-Apr-17 A	0%	100%	22	MT3980	Welding D26-N04			
MT4090	Welding N06-B16	5	13-May-17	18-May-17	06-Apr-17	06-Apr-17 A	0%	100%	32	MT4090	Welding N06-B16			
MT4070	Welding D23-N06	4	11-May-17	15-May-17	08-Apr-17	08-Apr-17 A	0%	100%	27	MT4070	Welding D23-N06			
MT4110	Welding D24-N06	4	16-May-17	19-May-17	08-Apr-17	11-Apr-17 A	0%	100%	29	MT4110	Welding D24-N06			
MT4100	Welding D22-N02	4	18-May-17	22-May-17	12-Apr-17	19-Apr-17 A	0%	100%	27	MT4100	Welding D22-N02			
MT4140	Welding D21-N01	4	19-May-17	23-May-17	12-Apr-17	21-Apr-17 A	0%	100%	26	MT4140	Welding D21-N01			
MT4050	Welding D23-N02	4	13-May-17	17-May-17	21-Apr-17	24-Apr-17 A	0%	100%	19	MT4050	Welding D23-N02			
MT4060	Welding D24-N03	4	10-May-17	13-May-17	28-Apr-17	04-May-17 A	0%	0%	8	MT4060	Welding D24-N03			
MT4010	Welding D25-N03	4	04-May-17	08-May-17	28-Apr-17	04-May-17 A	0%	0%	3	MT4010	Welding D25-N03			
MT4120	Welding B15-N06	4	17-May-17	20-May-17	05-May-17	09-May-17 A	0%	0%	10	MT4120	Welding B15-N06			
MT4150	Welding D21-N05	4	20-May-17	24-May-17	09-May-17	12-May-17 A	0%	0%	10	MT4150	Welding D21-N05			
MT4130	Welding D22-N05	5	22-May-17	26-May-17	10-May-17	15-May-17 A	0%	0%	10	MT4130	Welding D22-N05			
MT4160	Welding B15-N05	4	23-May-17	26-May-17	11-May-17	15-May-17 A	0%	0%	10	MT4160	Welding B15-N05			
MT4380	Welding of TCB bolts and shaped plates for T3-D26	8	03-Jun-17	12-Jun-17	23-May-17	02-Jun-17 A	0%	0%	8	MT4380	Welding of TCB bolts and shaped plates for T3-D26			
MT4390	NDT for cover and shaped plates, T3-D26	2	13-Jun-17	14-Jun-17	02-Jun-17	05-Jun-17 A	0%	0%	8	MT4390	NDT for cover and shaped plates, T3-D26			
Welding and NDT of top Chords														
MT4280	Welding window plates D27-N08	8	29-Apr-17	10-May-17	03-Apr-17	03-Apr-17 A	0%	100%	27	MT4280	Welding window plates D27-N08			
MT4270	Welding window plates D27-N04	8	28-Apr-17	09-May-17	05-Apr-17	05-Apr-17 A	0%	100%	25	MT4270	Welding window plates D27-N04			
MT4320	Welding window plates B16-N07	8	25-May-17	03-Jun-17	05-Apr-17	05-Apr-17 A	0%	100%	45	MT4320	Welding window plates B16-N07			
MT4330	Welding window plates N06-B16	8	26-May-17	05-Jun-17	06-Apr-17	06-Apr-17 A	0%	100%	45	MT4330	Welding window plates N06-B16			
MT4350	Welding window plates B15-N05	8	02-Jun-17	10-Jun-17	28-Apr-17	09-May-17 A	0%	0%	27	MT4350	Welding window plates B15-N05			
MT4360	NDT for bracing and top chord (window plate)	29	10-May-17	13-Jun-17	04-May-17	08-Jun-17 A	0%	0%	4	MT4360	NDT for bracing and top chord (window plate)			
MT4340	Welding window plates B15-N06	8	02-Jun-17	10-Jun-17	11-May-17	19-May-17 A	0%	0%	18	MT4340	Welding window plates B15-N06			
Completion of T3 Installation														
MT4400	Survey check for overall truss T3	2	15-Jun-17	16-Jun-17	08-Jun-17	10-Jun-17 A	0%	0%	5	MT4400	Survey check for overall truss T3			
RC Works CJ2 to +23.7mPD (Bottom Chord)														
A13210	Rebar Fixing CJ2 @GL H-F	9	23-May-17	02-Jun-17	28-Apr-17	10-May-17 A	0%	0%	19	A13210	Rebar Fixing CJ2 @GL H-F			

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A13260	Formworks CJ2 @GL H-F	1	03-Jun-17	03-Jun-17	11-May-17	11-May-17	0%	0%	19					
A13500	Rebar Fixing CJ2 @GL F-E	9	03-Jun-17	13-Jun-17	11-May-17	20-May-17	0%	0%	19					
A13330	Concreting CJ2 @GL H-F	1	05-Jun-17	05-Jun-17	12-May-17	12-May-17	0%	0%	19					
A13430	Concrete Curing CJ2 @GL HF	7	06-Jun-17	12-Jun-17	13-May-17	19-May-17	0%	0%	24					
A13580	Formworks CJ2 @GL F-E	2	14-Jun-17	15-Jun-17	22-May-17	23-May-17	0%	0%	19					
A13820	Rebar Fixing CJ2 @GL E-C	10	14-Jun-17	24-Jun-17	22-May-17	02-Jun-17	0%	0%	19					
A13660	Concreting CJ2 @GL F-E	1	16-Jun-17	16-Jun-17	24-May-17	24-May-17	0%	0%	19					
A13910	Formworks CJ2 @GL E-C	1	26-Jun-17	26-Jun-17	03-Jun-17	03-Jun-17	0%	0%	19					
A13990	Concreting CJ2 @GL E-C	1	27-Jun-17	27-Jun-17	05-Jun-17	05-Jun-17	0%	0%	19					
A14060	Concrete Curing CJ2 @GL E-C	7	28-Jun-17	04-Jul-17	06-Jun-17	12-Jun-17	0%	0%	22					
A13750	Concrete Curing CJ2 @GL F-E	7	17-Jun-17	23-Jun-17	10-Jun-17	17-Jun-17	0%	0%	6					
RC Works to CJ3 to +28.6mPD (7 nos. of Bracing)														
A14220	Rebar Fixing CJ3 @GL H-F	5	13-Jun-17	17-Jun-17	20-May-17	25-May-17	0%	0%	19					
A14300	Formworks CJ3 @GL H-F	2	19-Jun-17	20-Jun-17	26-May-17	27-May-17	0%	0%	19					
A14370	Concreting CJ3 @GL H-F	1	21-Jun-17	21-Jun-17	29-May-17	29-May-17	0%	0%	19					
A14450	CJ3 @GL HF Concrete Curing	7	22-Jun-17	28-Jun-17	30-May-17	05-Jun-17	0%	0%	23					
A14860	Rebar Fixing CJ3 @GL E-C	5	05-Jul-17	10-Jul-17	13-Jun-17	17-Jun-17	0%	0%	18					
A14530	Rebar Fixing CJ3 @GL F-E	4	24-Jun-17	28-Jun-17	17-Jun-17	22-Jun-17	0%	0%	5					
A14980	Formworks CJ3 @GL E-C	1	11-Jul-17	11-Jul-17	19-Jun-17	19-Jun-17	0%	0%	18					
A15100	Concreting CJ3 @GL E-C	1	12-Jul-17	12-Jul-17	20-Jun-17	20-Jun-17	0%	0%	18					
A15180	Concrete Curing CJ3 @GL E-C	7	13-Jul-17	19-Jul-17	21-Jun-17	27-Jun-17	0%	0%	22					
A14610	Formworks CJ3 @GL F-E	1	29-Jun-17	29-Jun-17	22-Jun-17	23-Jun-17	0%	0%	5					
A14690	Concreting CJ3 @GL F-E	1	30-Jun-17	30-Jun-17	23-Jun-17	24-Jun-17	0%	0%	5					
A14780	CJ3 @GL F-E Concrete Curing	7	01-Jul-17	07-Jul-17	24-Jun-17	01-Jul-17	0%	0%	6					
RC Works to +31.3mPD (Top Chord - 3/F)														
A15300	Rebar Fixing CJ4 @GL H-F	8	29-Jun-17	08-Jul-17	06-Jun-17	14-Jun-17	0%	0%	20					
A15310	Formworks CJ4 @GL HF	2	10-Jul-17	11-Jul-17	15-Jun-17	16-Jun-17	0%	0%	20					
A15320	Concreting Top Chord CJ4 @GL H-F	1	12-Jul-17	12-Jul-17	17-Jun-17	17-Jun-17	0%	0%	20					
A15330	Concrete Curing Top Chord CJ4 @GL H-F	7	13-Jul-17	19-Jul-17	18-Jun-17	24-Jun-17	0%	0%	25					
A15340	Rebar Fixing CJ4 @GL F-E	7	08-Jul-17	15-Jul-17	03-Jul-17	10-Jul-17	0%	0%	5					
A15350	Formworks CJ4 @GL F-E	1	17-Jul-17	17-Jul-17	11-Jul-17	11-Jul-17	0%	0%	5					
A15380	Rebar Fixing CJ4 @GL E-C	7	20-Jul-17	27-Jul-17	11-Jul-17	18-Jul-17	0%	0%	8					
A15360	Concreting Top Chord CJ4 @GL F-E	1	18-Jul-17	18-Jul-17	12-Jul-17	12-Jul-17	0%	0%	5					
A15370	Concrete Curing Top Chord CJ4 @GL F-E	7	19-Jul-17	25-Jul-17	13-Jul-17	19-Jul-17	0%	0%	6					
A15390	Formworks CJ4 @GL E-C	1	28-Jul-17	28-Jul-17	19-Jul-17	19-Jul-17	0%	0%	8					
A15400	Concreting to Top Chord CJ4 @GL E-C	1	29-Jul-17	29-Jul-17	20-Jul-17	20-Jul-17	0%	0%	8					
A15410	Concrete Curing Top Chord CJ4 @GL E-C	7	30-Jul-17	05-Aug-17	21-Jul-17	27-Jul-17	0%	0%	9					
A15420	Complete Truss 3 Construction	0		05-Aug-17		27-Jul-17	0%	0%	9					
Site Construction of Truss 4														
A15490	T4 Steel Truss Erection (LoE)	65	20-Mar-17	10-Jun-17	11-Mar-17	31-May-17	46.15%	25.71%	9					
A15500	Complete Truss 4 Steel Works Erection	0		10-Jun-17		31-May-17	0%	0%	9					
A15510	T4 Steel Truss Concrete Encasement (LoE)	63	23-May-17	05-Aug-17	12-Jun-17	25-Aug-17	0%	0%	-17					
T4 Steel Erection (incl. Modular Towers & Working Platform)														
Installation of Bottom Chords, Bracings & Top Chords														
MT4680	Installation T4-D27	1	25-Apr-17	25-Apr-17	07-Apr-17	07-Apr-17 A	100%	100%	13	MT4680				
MT4700	Installation T4-N09	1	28-Apr-17	28-Apr-17	07-Apr-17	07-Apr-17 A	0%	100%	16	MT4700				
Top Chords & Bracing Windows Plates														
MT4840	Installation T4-N07	1	20-May-17	20-May-17	03-Apr-17	03-Apr-17 A	0%	100%	35	MT4840				
MT4790	Installation T4-B14	1	16-May-17	16-May-17	05-Apr-17	05-Apr-17 A	0%	100%	31	MT4790				
MT4710	Installation T4-B15 (Part 1&2)	2	08-May-17	09-May-17	07-Apr-17	07-Apr-17 A	0%	100%	23	MT4710				
MT5100	Installation of TCB bolts and shaped plates for T5-d26	8	02-Jun-17	10-Jun-17	22-May-17	31-May-17	0%	0%	9					
Welding and NDT of bottom Chords														
MT4580	Welding N05-B13	4	06-Apr-17	10-Apr-17	28-Apr-17	04-May-17	100%	0%	-16	MT4580				
MT4640	NDT for bottom chord (main)	24	13-Apr-17	16-May-17	08-May-17	05-Jun-17	41.67%	0%	-16	MT4640				
MT4590	Welding N04-B13	4	19-Apr-17	22-Apr-17	10-May-17	10-May-17	100%	0%	-16	MT4590				
MT4600	Welding N04-B12	4	20-Apr-17	24-Apr-17	11-May-17	15-May-17	100%	0%	-16	MT4600				
MT4610	Welding N03-B12	4	24-Apr-17	27-Apr-17	15-May-17	18-May-17	100%	0%	-16	MT4610				
MT4620	Welding B11-N03	4	06-May-17	10-May-17	25-May-17	29-May-17	0%	0%	-16	MT4620				
MT4630	Welding B11-N02	4	09-May-17	12-May-17	27-May-17	01-Jun-17	0%	0%	-16	MT4630				
MT4650	Survey check for bottom chord	1	13-May-17	13-May-17	02-Jun-17	02-Jun-17	0%	0%	-16	MT4650				
Welding and NDT of main Bracings and Top Chords														
MT4850	Welding D24-N03	4	12-May-17	16-May-17	28-Apr-17	04-May-17	0%	0%	10	MT4850				
MT4920	Welding D26-N08	5	13-May-17	18-May-17	28-Apr-17	05-May-17	0%	0%	11	MT4920				
MT5000	Welding N05-N09	4	11-May-17	15-May-17	28-Apr-17	04-May-17	0%	0%	9	MT5000				
MT5010	Welding D26-N04	4	16-May-17	19-May-17	05-May-17	09-May-17	0%	0%	9	MT5010				
MT4930	Welding N08-D25	4	19-May-17	23-May-17	06-May-17	10-May-17	0%	0%	11	MT4930				
MT5090	NDT for bracing and top chord (main)	20	18-May-17	10-Jun-17	08-May-17	31-May-17	0%	0%	9	MT5090				
MT5020	Welding D27-N04	4	19-May-17	23-May-17	09-May-17	12-May-17	0%	0%	9	MT5020				
MT4940	Welding D24-N08	4	23-May-17	26-May-17	10-May-17	13-May-17	0%	0%	11	MT4940				
MT5030	Welding B15-D27	3	24-May-17	26-May-17	13-May-17	16-May-17	0%	0%	9	MT5030				
MT4950	Welding N08-B15	4	27-May-17	01-Jun-17	15-May-17	18-May-17	0%	0%	11	MT4950				
MT5040	Welding N09-D27	4	25-May-17	29-May-17	15-May-17	18-May-17	0%	0%	9	MT5040				
MT5050	Welding N09-B15	5	26-May-17	01-Jun-17	16-May-17	20-May-17	0%	0%	9	MT5050				
MT4960	Welding N06-N01	4	02-Jun-17	06-Jun-17	19-May-17	23-May-17	0%	0%	11	MT4960				
MT5060	Welding B15-1-B15-2	4	31-May-17	03-Jun-17	19-May-17	23-May-17	0%	0%	9	MT5060				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
MT5070	Welding N07-N06	5	01-Jun-17	06-Jun-17	20-May-17	25-May-17	0%	0%	9		MT5070	Welding N07-N06	
MT4970	Welding D22-N07	4	05-Jun-17	08-Jun-17	22-May-17	25-May-17	0%	0%	11		MT4970	Welding D22-N07	
MT5080	Welding N07-B14	5	02-Jun-17	07-Jun-17	22-May-17	26-May-17	0%	0%	9		MT5080	Welding N07-B14	
MT5110	Welding of TCB bolts and shaped plates for T4-D21, D26	8	02-Jun-17	10-Jun-17	22-May-17	31-May-17	0%	0%	9		MT5110	Welding of TCB bolts and shaped plates for T4-D21, D26	
MT4980	Welding B12-D25	4	06-Jun-17	09-Jun-17	23-May-17	26-May-17	0%	0%	11		MT4980	Welding B12-D25	
MT4990	Welding D21-N07	4	07-Jun-17	10-Jun-17	24-May-17	27-May-17	0%	0%	11		MT4990	Welding D21-N07	
MT4860	Welding N06-N02	5	17-May-1	22-May-17	06-Jun-17	10-Jun-17	0%	0%	-16		MT4860	Welding N06-N02	
MT4870	Welding D23-N03	4	22-May-1	25-May-17	10-Jun-17	14-Jun-17	0%	0%	-16		MT4870	Welding D23-N03	
MT4880	Welding D22-B11	4	26-May-1	31-May-17	15-Jun-17	19-Jun-17	0%	0%	-16		MT4880	Welding D22-B11	
MT4890	Welding D21-N02	4	29-May-1	02-Jun-17	17-Jun-17	21-Jun-17	0%	0%	-16		MT4890	Welding D21-N02	
MT4900	Welding B14-N08	5	31-May-1	05-Jun-17	19-Jun-17	23-Jun-17	0%	0%	-16		MT4900	Welding B14-N08	
MT4910	Welding D23-N07	5	02-Jun-17	07-Jun-17	21-Jun-17	26-Jun-17	0%	0%	-16		MT4910	Welding D23-N07	
MT5120	NDT for cover and shaped plates, T4-D21, D26	2	12-Jun-17	13-Jun-17	27-Jun-17	28-Jun-17	0%	0%	-13		MT5120	NDT for cover and shaped plates, T4-D21, D26	
Completion of T4 Installation													
MT5130	Survey check for overall truss T4	2	14-Jun-17	15-Jun-17	29-Jun-17	30-Jun-17	0%	0%	-13		MT5130	Survey check for overall truss T4	
RC Works CJ2 to +23.7mPD (Bottom Chord)													
A15540	Rebar Fixing CJ2 @GL F-D	9	23-May-1	02-Jun-17	12-Jun-17	21-Jun-17	0%	0%	-16		A15540	Rebar Fixing CJ2 @GL F-D	
A15550	Formworks CJ2 @GL F-D	1	03-Jun-17	03-Jun-17	22-Jun-17	22-Jun-17	0%	0%	-16		A15550	Formworks CJ2 @GL F-D	
A15580	Rebar Fixing CJ2 @GL D-C	9	03-Jun-17	13-Jun-17	22-Jun-17	03-Jul-17	0%	0%	-16		A15580	Rebar Fixing CJ2 @GL D-C	
A15560	Concreting CJ2 @GL F-D	1	05-Jun-17	05-Jun-17	23-Jun-17	23-Jun-17	0%	0%	-16		A15560	Concreting CJ2 @GL F-D	
A15570	Concrete Curing CJ2 @GL F-D	7	06-Jun-17	12-Jun-17	24-Jun-17	30-Jun-17	0%	0%	-18		A15570	Concrete Curing CJ2 @GL F-D	
A15590	Formworks CJ2 @GL C-A	2	14-Jun-17	15-Jun-17	04-Jul-17	05-Jul-17	0%	0%	-16		A15590	Formworks CJ2 @GL C-A	
A15620	Rebar Fixing CJ2 @GL C-A	10	14-Jun-17	24-Jun-17	04-Jul-17	14-Jul-17	0%	0%	-16		A15620	Rebar Fixing CJ2 @GL C-A	
A15600	Concreting CJ2 @GL D-C	1	16-Jun-17	16-Jun-17	06-Jul-17	06-Jul-17	0%	0%	-16		A15600	Concreting CJ2 @GL D-C	
A15610	Concrete Curing CJ2 @GL D-C	7	17-Jun-17	23-Jun-17	07-Jul-17	13-Jul-17	0%	0%	-20		A15610	Concrete Curing CJ2 @GL D-C	
A15630	Formworks CJ2 @GL C-A	1	26-Jun-17	26-Jun-17	15-Jul-17	15-Jul-17	0%	0%	-16		A15630	Formworks CJ2 @GL C-A	
A15640	Concreting CJ2 @GL C-A	1	27-Jun-17	27-Jun-17	17-Jul-17	17-Jul-17	0%	0%	-16		A15640	Concreting CJ2 @GL C-A	
A15650	Concrete Curing CJ2 @GL C-A	7	28-Jun-17	04-Jul-17	18-Jul-17	24-Jul-17	0%	0%	-20		A15650	Concrete Curing CJ2 @GL C-A	
RC Works to CJ3 to +28.6mPD (11 nos. of Bracing)													
A15660	Rebar Fixing CJ3 @GL F-D	5	13-Jun-17	17-Jun-17	03-Jul-17	07-Jul-17	0%	0%	-16		A15660	Rebar Fixing CJ3 @GL F-D	
A15670	Formworks CJ3 @GL F-D	2	19-Jun-17	20-Jun-17	08-Jul-17	10-Jul-17	0%	0%	-16		A15670	Formworks CJ3 @GL F-D	
A15680	Concreting CJ3 @GL F-D	1	21-Jun-17	21-Jun-17	11-Jul-17	11-Jul-17	0%	0%	-16		A15680	Concreting CJ3 @GL F-D	
A15690	CJ3 @GL F-3 Concrete Curing	7	22-Jun-17	28-Jun-17	12-Jul-17	18-Jul-17	0%	0%	-20		A15690	CJ3 @GL F-3 Concrete Curing	
A15700	Rebar Fixing CJ3 @GL D-C	4	24-Jun-17	28-Jun-17	14-Jul-17	18-Jul-17	0%	0%	-16		A15700	Rebar Fixing CJ3 @GL D-C	
A15710	Formworks CJ3 @GL D-C	1	29-Jun-17	29-Jun-17	19-Jul-17	19-Jul-17	0%	0%	-16		A15710	Formworks CJ3 @GL D-C	
A15720	Concreting CJ3 @GL D-C	1	30-Jun-17	30-Jun-17	20-Jul-17	20-Jul-17	0%	0%	-16		A15720	Concreting CJ3 @GL D-C	
A15730	CJ3 @GL D-C Concrete Curing	7	01-Jul-17	07-Jul-17	21-Jul-17	27-Jul-17	0%	0%	-20		A15730	CJ3 @GL D-C Concrete Curing	
A15740	Rebar Fixing CJ3 @GL C-A	5	05-Jul-17	10-Jul-17	25-Jul-17	29-Jul-17	0%	0%	-17		A15740	Rebar Fixing CJ3 @GL C-A	
RC Works to +31.3mPD (Top Chord - 3/F)													
A15780	Rebar Fixing CJ4 @GL F-D	8	29-Jun-17	08-Jul-17	19-Jul-17	27-Jul-17	0%	0%	-16		A15780	Rebar Fixing CJ4 @GL F-D	
Mega Truss Infill Construction (Zone F @ GL 7-8/D-M)													
Removal of T5 Falseworks													
A18320	Truss T5 Erection Complete	0		28-Jul-17		18-Jul-17	0%	0%	9		A18320	Truss T5 Erection Complete	
A18330	De-prop Truss T5	4	01-Aug-17	04-Aug-17	21-Jul-17	25-Jul-17	0%	0%	9		A18330	De-prop Truss T5	
A18340	Removal of 9M Spreader Trusses (6 nos.)	12	05-Aug-17	18-Aug-17	26-Jul-17	08-Aug-17	0%	0%	9		A18340	Removal of 9M Spreader Trusses (6 nos.)	
Removal of T3 Falseworks													
A18390	Truss T3 Erection Complete	0		05-Aug-17		27-Jul-17	0%	0%	8		A18390	Truss T3 Erection Complete	
M+ Tower Structure RC Works													
Tower Structure - West Core Wall (Non-deferred Zone M) @ GL 7-8/A-E													
A42960	4F-5F Wall, Column & 5F slab (GL 7-8/A-E)	14	12-May-1	27-May-17	06-Jul-17	21-Jul-17	0%	0%	-45		A42960	4F-5F Wall, Column & 5F slab (GL 7-8/A-E)	
A42970	5F-6F Wall, Column & 6F slab (GL 7-8/A-E)	14	29-May-1	14-Jun-17	22-Jul-17	04-Aug-17	0%	0%	-43		A42970	5F-6F Wall, Column & 6F slab (GL 7-8/A-E)	
M+ Podium & Tower FACADE Preliminaries													
VMU DESIGN SUBMISSION													
VMU - L3 Storefront													
A51160	6th Shopdrawing Submission	18	17-Dec-16	03-Jan-17	17-Dec-16	02-May-17	100%	75%	-119		A51160	6th Shopdrawing Submission	
A51170	6th Shopdrawing Submission - Review & Approval	21	04-Jan-17	24-Jan-17	02-May-17	23-May-17	100%	0%	-119		A51170	6th Shopdrawing Submission - Review & Approval	
VMU SAMPLE SUBMISSION & APPROVALS													
Concrete Shell - VMU													
Podium Facade - VMU													
A18590	Installation of Visual Mock Up	3	19-Apr-17	21-Apr-17	28-Apr-17	02-May-17	100%	0%	-8		A18590	Installation of Visual Mock Up	
A18600	Inspection & Approval of VMU - Podium Facade	3	22-Apr-17	25-Apr-17	04-May-17	06-May-17	100%	0%	-8		A18600	Inspection & Approval of VMU - Podium Facade	
GF Ceramic Cladding, GW with Ceramic Mullion - VMU													
A18640	Casting Ceramic Mullion	7	24-Jan-17	03-Feb-17	28-Apr-17	08-May-17	100%	0%	-74		A18640	Casting Ceramic Mullion	
A18650	Delivery and Installation of Ceramic Mullion & Tube Mock Up	7	04-Feb-17	11-Feb-17	09-May-17	16-May-17	100%	0%	-74		A18650	Delivery and Installation of Ceramic Mullion & Tube Mock Up	
A18660	Glazing & Sealant Application	2	13-Feb-17	14-Feb-17	17-May-17	18-May-17	100%	0%	-74		A18660	Glazing & Sealant Application	
A18670	Inspection & Approval of Visual Mock Up	3	15-Feb-17	17-Feb-17	19-May-17	22-May-17	100%	0%	-74		A18670	Inspection & Approval of Visual Mock Up	
Hybrid with GW - VMU													
T Mullion with GW - VMU													
A18700	Installation of Glass Dorr	3	09-Feb-17	11-Feb-17	28-Apr-17	02-May-17	100%	0%	-63		A18700	Installation of Glass Dorr	
A18710	Inspection & Approval of VMU	7	13-Feb-17	20-Feb-17	04-May-17	11-May-17	100%	0%	-63		A18710	Inspection & Approval of VMU	
EMBED SHOPDRAWINGS SUBMISSION													
EMBED - B1 Glass Wall with T Mullion													
A51480	5th Shopdrawing Submission	14	01-Jan-17	14-Jan-17	29-Mar-17	05-Apr-17 A	100%	100%	-80		A51480	5th Shopdrawing Submission	
A51490	5th Shopdrawing Submission - Review & Approval	14	15-Jan-17	28-Jan-17	06-Apr-17	20-Apr-17 A	100%	100%	-81		A51490	5th Shopdrawing Submission - Review & Approval	
SHOP DRAWING SUBMISSIONS FACADE SYSTEM & EMBEDS													

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
SHOP DRAWING - Tower Facade Panel														
A51230	3rd Shopdrawing Submission - Review & Approval	14	17-Dec-16	30-Dec-16	26-Nov-16	15-Apr-17 A	100%	100%	-105	3rd Shopdrawing Submission - Review & Approval				
SHOP DRAWING - Podium Facade Panel														
A51250	2nd Shopdrawing Submission - Review & Approval	14	17-Dec-16	30-Dec-16	01-Dec-16	15-Apr-17 A	100%	100%	-105	2nd Shopdrawing Submission - Review & Approval				
SHOP DRAWING - Glass Wall with T Mullion														
A51270	2nd Shopdrawing Submission (Embed)	40	21-Nov-16	30-Dec-16	15-Apr-17	18-Apr-17 A	100%	100%	-108	2nd Shopdrawing Submission (Embed)				
A51280	2nd Shopdrawing Submission - Review & Approval	21	31-Dec-16	20-Jan-17	19-Apr-17	11-May-17	100%	34%	-111	2nd Shopdrawing Submission - Review & Approval, 2nd Shopdrawing Submission - Review & Approval				
SHOP DRAWING - Metal Cladding FAC-LV-01a/FAC-LV-01b (Additional Scope)														
A51400	1st Shopdrawing Submission	32	17-Dec-16	17-Jan-17	01-Apr-17	10-Apr-17 A	100%	100%	-82	1st Shopdrawing Submission				
A51410	1st Shopdrawing Submission - Review & Approval	21	18-Jan-17	07-Feb-17	11-Apr-17 A	03-May-17	100%	72%	-85	1st Shopdrawing Submission - Review & Approval, 1st Shopdrawing Submission - Review & Approval				
A51420	2nd Shopdrawing Submission	14	08-Feb-17	21-Feb-17	03-May-17	17-May-17	100%	0%	-85	2nd Shopdrawing Submission				
A51430	2nd Shopdrawing Submission - Review & Approval	21	22-Feb-17	14-Mar-17	17-May-17	07-Jun-17	100%	0%	-85	2nd Shopdrawing Submission - Review & Approval				
SHOP DRAWING - Tower Facade Lighting														
A51450	3rd Shopdrawing Submission - Review & Approval	31	30-Nov-16	30-Dec-16	30-Nov-16	01-May-17	100%	90%	-121	3rd Shopdrawing Submission - Review & Approval, 3rd Shopdrawing Submission - Review & Approval				
SHOP DRAWING - Tower Facade Lighting, Electrical Works														
A39330	1st Shopdrawing Submission - Review & Approval	49	12-Nov-16	30-Dec-16	12-Nov-16	07-May-17	100%	80%	-128	1st Shopdrawing Submission - Review & Approval, 1st Shopdrawing Submission - Review & Approval				
BD SUBMISSIONS FACADE SYSTEM & EMBEDS														
BD Submission - L3 Storefront System & Embed														
A51530	3rd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	24-Dec-16	06-Jan-17	14-Mar-17	06-Apr-17 A	100%	100%	-89	3rd Submission - Review & Approval by MJV (w/ RSE Endorsement)				
A51540	L3 Storefront Embeds - Submission to BD	0		09-Jan-17		15-Apr-17 A	100%	100%	-77	L3 Storefront Embeds - Submission to BD				
A51550	L3 Storefront Embeds - BD Approval	60	10-Jan-17	10-Mar-17	16-Apr-17	23-Jun-17	100%	5%	-105	L3 Storefront Embeds - BD Approval, L3 Storefront Embeds - BD Approval, L3 Storefront Embeds - BD Approval				
A51560	L3 Storefront Embeds - Consent	30	11-Mar-17	09-Apr-17	24-Jun-17	23-Jul-17	100%	0%	-105	L3 Storefront Embeds - Consent				
BD Submission - Tower Precast Facade System & Embed														
A51630	Tower Precast Facade Embeds - Consent	30	08-Mar-17	06-Apr-17	20-Mar-17	20-Apr-17 A	100%	100%	-13	Tower Precast Facade Embeds - Consent				
BD Submission - Podium Precast Facade System & Embed														
A51700	Podium Precast Facade Embeds - Consent	30	08-Mar-17	06-Apr-17	20-Mar-17	20-Apr-17 A	100%	100%	-13	Podium Precast Facade Embeds - Consent				
BD Submission - Garden Gallery Ceramic Cladding System & Embed														
A51750	2nd Submission	7	17-Dec-16	23-Dec-16	09-Apr-17	16-Apr-17 A	100%	100%	-113	2nd Submission				
A51760	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	24-Dec-16	06-Jan-17	17-Apr-17	09-May-17	100%	20%	-122	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement), 2nd Submission - Review & Approval by MJV				
A51770	Garden Gallery Ceramic - Submission to BD	0		12-Jan-17		09-May-17	100%	0%	-90	Garden Gallery Ceramic - Submission to BD				
A51780	Garden Gallery Ceramic - BD Approval	60	13-Jan-17	13-Mar-17	09-May-17	08-Jul-17	100%	0%	-116	Garden Gallery Ceramic - BD Approval				
A51790	Garden Gallery Ceramic - Consent	30	14-Mar-17	12-Apr-17	08-Jul-17	07-Aug-17	100%	0%	-116	Garden Gallery Ceramic - Consent				
BD Submission - Glass Wall with T Mullion System & Embed														
A51800	1st Submission	6	17-Dec-16	22-Dec-16	06-Apr-17	12-Apr-17 A	100%	100%	-110	1st Submission				
A51810	1st Submission - Review & Approval by MJV	14	23-Dec-16	05-Jan-17	13-Apr-17	03-May-17	100%	45%	-118	1st Submission - Review & Approval by MJV, 1st Submission - Review & Approval by MJV				
A51820	2nd Submission	7	06-Jan-17	12-Jan-17	03-May-17	14-May-17	100%	0%	-122	2nd Submission				
A51830	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	13-Jan-17	26-Jan-17	14-May-17	28-May-17	100%	0%	-122	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)				
A51850	Glass Wall with T Mullion - Submission to BD	0		26-Jan-17		29-May-17	100%	0%	-95	Glass Wall with T Mullion - Submission to BD				
A51860	Glass Wall with T Mullion - BD Approval	60	27-Jan-17	27-Mar-17	29-May-17	27-Jul-17	100%	0%	-122	Glass Wall with T Mullion - BD Approval				
BD Submission - Strip Glazing at Skylight Gallery & Plaza Skylight at L3 System & Embed														
A51910	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	24-Dec-16	06-Jan-17	14-Mar-17	14-Apr-17 A	100%	100%	-97	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)				
A51920	Strip Glazing at Skylight Gallery & Plaza Skylight - Submission to BD	0		09-Jan-17		15-Apr-17 A	100%	100%	-77	Strip Glazing at Skylight Gallery & Plaza Skylight - Submission to BD				
A51930	Strip Glazing at Skylight Gallery & Plaza Skylight - BD Approval	60	10-Jan-17	10-Mar-17	16-Apr-17	23-Jun-17	100%	5%	-105	Strip Glazing at Skylight Gallery & Plaza Skylight - BD Approval				
A51950	Strip Glazing at Skylight Gallery & Plaza Skylight - Consent	30	11-Mar-17	09-Apr-17	24-Jun-17	23-Jul-17	100%	0%	-105	Strip Glazing at Skylight Gallery & Plaza Skylight - Consent				
BD Submission - Glass Wall with Ceramic/Precast Concrete Mullion, Concrete Tube & Perforated Claddin														
A51960	1st Submission	12	17-Dec-16	28-Dec-16	04-Apr-17	10-Apr-17 A	100%	100%	-102	1st Submission				
A51970	1st Submission - Review & Approval by MJV	14	29-Dec-16	11-Jan-17	11-Apr-17 A	02-May-17	100%	65%	-111	1st Submission - Review & Approval by MJV, 1st Submission - Review & Approval by MJV				
A51980	2nd Submission	7	12-Jan-17	18-Jan-17	02-May-17	09-May-17	100%	0%	-111	2nd Submission				
A51990	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	19-Jan-17	01-Feb-17	09-May-17	23-May-17	100%	0%	-111	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)				
A52000	Glass Wall with Ceramic & Precast Concrete Mullion - Submission to BD	0		01-Feb-17		23-May-17	100%	0%	-89	Glass Wall with Ceramic & Precast Concrete Mullion - Submission to BD				
A52010	Glass Wall with Ceramic & Precast Concrete Mullion - BD Approval	60	02-Feb-17	02-Apr-17	23-May-17	22-Jul-17	100%	0%	-111	Glass Wall with Ceramic & Precast Concrete Mullion - BD Approval				
A52020	Glass Wall with Ceramic & Precast Concrete Mullion - Consent	30	03-Apr-17	02-May-17	22-Jul-17	21-Aug-17	83.33%	0%	-111	Glass Wall with Ceramic & Precast Concrete Mullion - Consent				
BD Submission - Metal Cladding FAC-LV-01a/FAC-LV-01b (North Perimeter Rd)														
A52040	1st Submission	40	17-Dec-16	25-Jan-17	03-Mar-17	11-Apr-17 A	100%	100%	-75	1st Submission				
A52100	Metal Cladding (North Perimeter Rd) - BD Approval	60	15-Mar-17	13-May-17	28-Apr-17	26-Jun-17	73.33%	0%	-44	Metal Cladding (North Perimeter Rd) - BD Approval				
A52050	1st Submission - Review & Approval by MJV	14	26-Jan-17	08-Feb-17	28-Apr-17	11-May-17	100%	0%	-92	1st Submission - Review & Approval by MJV				
A52070	2nd Submission	7	09-Feb-17	15-Feb-17	12-May-17	18-May-17	100%	0%	-92	2nd Submission				
A52080	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	16-Feb-17	01-Mar-17	19-May-17	01-Jun-17	100%	0%	-92	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)				
A52110	Metal Cladding (North Perimeter Rd) - Consent	30	14-May-17	12-Jun-17	27-Jun-17	26-Jul-17	0%	0%	-44	Metal Cladding (North Perimeter Rd) - Consent				
SHOPDRAWING SUBMISSIONS - FACADE DOORS														
Facade Doors Package #1 - Glazed door between Ceramic Concrete Mullion - Total No. of Doors = 53														
A52120	1st Shopdrawing Submission	67	17-Dec-16	21-Feb-17	12-Apr-17	16-Apr-17 A	100%	100%	-53	1st Shopdrawing Submission				
A52130	1st Shopdrawing Submission - Review & Approval	21	22-Feb-17	14-Mar-17	17-Apr-17	09-May-17	100%	43%	-56	1st Shopdrawing Submission - Review & Approval, 1st Shopdrawing Submission - Review & Approval				
A52140	2nd Shopdrawing Submission	14	15-Mar-17	28-Mar-17	09-May-17	23-May-17	100%	0%	-56	2nd Shopdrawing Submission				
A52160	2nd Shopdrawing Submission - Review & Approval	21	29-Mar-17	18-Apr-17	23-May-17	13-Jun-17	100%	0%	-56	2nd Shopdrawing Submission - Review & Approval				
Facade Doors Package #2 - Sliding door at L3 Storefront - Total No. of Doors = 4														
A52170	1st Shopdrawing Submission	67	17-Dec-16	21-Feb-17	12-Apr-17	16-Apr-17 A	100%	100%	-53	1st Shopdrawing Submission				
A52180	1st Shopdrawing Submission - Review & Approval	21	22-Feb-17	14-Mar-17	17-Apr-17	09-May-17	100%	43%	-56	1st Shopdrawing Submission - Review & Approval, 1st Shopdrawing Submission - Review & Approval				
A52190	2nd Shopdrawing Submission	14	15-Mar-17	28-Mar-17	09-May-17	23-May-17	100%	0%	-56	2nd Shopdrawing Submission				
A52200	2nd Shopdrawing - Review & Approval	21	29-Mar-17	18-Apr-17	23-May-17	13-Jun-17	100%	0%	-56	2nd Shopdrawing - Review & Approval				
Facade Doors Package #3 - Swing Door at L3 Cafe- Total No. of Doors = 1														
A52210	1st Shopdrawing Submission	74	17-Dec-16	28-Feb-17	12-Apr-17	16-Apr-17 A	100%	100%	-46	1st Shopdrawing Submission				
A52220	1st Shopdrawing Submission - Review & Approval	21	01-Mar-17	21-Mar-17	17-Apr-17	09-May-17	100%	43%	-49	1st Shopdrawing Submission - Review & Approval, 1st Shopdrawing Submission - Review & Approval				
A52230	2nd Shopdrawing Submission	14	22-Mar-17	04-Apr-17	09-May-17	23-May-17	100%	0%	-49	2nd Shopdrawing Submission				
A52250	2nd Shopdrawing Submission - Review & Approval	21	05-Apr-17	25-Apr-17	23-May-17	13-Jun-17	100%	0%	-49	2nd Shopdrawing Submission - Review & Approval				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Facade Doors Package #4 - Swing Door mounted in GW with T Mullion - Total No. of Doors = 29														
A52260	1st Shopdrawing Submission	74	17-Dec-16	28-Feb-17	12-Apr-17	16-Apr-17 A	100%	100%	-46					
A52270	1st Shopdrawing Submission - Review & Approval	21	01-Mar-17	21-Mar-17	17-Apr-17	09-May-17	100%	43%	-49					
A52280	2nd Shopdrawing Submission	14	22-Mar-17	04-Apr-17	09-May-17	23-May-17	100%	0%	-49					
A52290	2nd Shopdrawing Submission - Review & Approval	21	05-Apr-17	25-Apr-17	23-May-17	13-Jun-17	100%	0%	-49					
Facade Doors Package #5 - Large double door at B1 Transformer Room - Total No. of Doors = 1														
A52300	1st Shopdrawing Submission	81	17-Dec-16	07-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-39					
A52310	1st Shopdrawing Submission - Review & Approval	21	08-Mar-17	28-Mar-17	17-Apr-17	09-May-17	100%	43%	-42					
A52320	2nd Shopdrawing Submission	14	29-Mar-17	11-Apr-17	09-May-17	23-May-17	100%	0%	-42					
A52340	2nd Shopdrawing Submission - Review & Approval	21	12-Apr-17	02-May-17	23-May-17	13-Jun-17	76.19%	0%	-42					
Facade Doors Package #6 - B1 Exit Door - Total No. of Doors = 7 (7 x Manual)														
A52350	1st Shopdrawing Submission	81	17-Dec-16	07-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-39					
A52360	1st Shopdrawing Submission - Review & Approval	21	08-Mar-17	28-Mar-17	17-Apr-17	09-May-17	100%	43%	-42					
A52370	2nd Shopdrawing Submission	14	29-Mar-17	11-Apr-17	09-May-17	23-May-17	100%	0%	-42					
A52380	2nd Shopdrawing Submission - Review & Approval	21	12-Apr-17	02-May-17	23-May-17	13-Jun-17	76.19%	0%	-42					
Facade Doors Package #7 - Garden Gallery Door - Total No. of Doors = 2 (2 x Manual)														
A52390	1st Shopdrawing Submission	88	17-Dec-16	14-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-32					
A52400	1st Shopdrawing Submission - Review & Approval	21	15-Mar-17	04-Apr-17	17-Apr-17	09-May-17	100%	42.86%	-35					
A52410	2nd Shopdrawing Submission	14	05-Apr-17	18-Apr-17	10-May-17	23-May-17	100%	0%	-35					
A52430	2nd Shopdrawing Submission - Review & Approval	21	19-Apr-17	09-May-17	24-May-17	13-Jun-17	42.86%	0%	-35					
Facade Doors Package #8 - Doors located in Metal Cladding - Total No. of Doors = 20 (20 x Manual)														
A52440	1st Shopdrawing Submission	88	17-Dec-16	14-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-32					
A52450	1st Shopdrawing Submission - Review & Approval	21	15-Mar-17	04-Apr-17	17-Apr-17	09-May-17	100%	43%	-35					
A52460	2nd Shopdrawing Submission	14	05-Apr-17	18-Apr-17	09-May-17	23-May-17	100%	0%	-35					
A52470	2nd Shopdrawing Submission - Review & Approval	21	19-Apr-17	09-May-17	23-May-17	13-Jun-17	42.86%	0%	-35					
Facade Doors Package #9 - GF Lobby Access Door in Ceramic Tube - Total No. of Doors = 8														
A52480	1st Shopdrawing Submission	88	17-Dec-16	14-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-32					
A52490	1st Shopdrawing Submission - Review & Approval	21	15-Mar-17	04-Apr-17	17-Apr-17	09-May-17	100%	42.86%	-35					
A52500	2nd Shopdrawing Submission	14	05-Apr-17	18-Apr-17	10-May-17	23-May-17	100%	0%	-35					
A52520	2nd Shopdrawing Submission - Review & Approval	21	19-Apr-17	09-May-17	24-May-17	13-Jun-17	42.86%	0%	-35					
Facade Doors Package #10 - B1 Carriageway Access Panel & Doors - Total No. of Doors = 24														
A52530	1st Shopdrawing Submission	95	17-Dec-16	21-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-25					
A52540	1st Shopdrawing Submission - Review & Approval	21	22-Mar-17	11-Apr-17	17-Apr-17	09-May-17	100%	43%	-28					
A52550	2nd Shopdrawing Submission	14	12-Apr-17	25-Apr-17	09-May-17	23-May-17	100%	0%	-28					
A52560	2nd Shopdrawing Submission - Review & Approval	21	26-Apr-17	16-May-17	23-May-17	13-Jun-17	9.52%	0%	-28					
Facade Doors Package #12 - B1 Smoke Vent Panel - Total No. of Doors = 1														
A52580	1st Shopdrawing Submission	96	17-Dec-16	22-Mar-17	12-Apr-17	16-Apr-17 A	100%	100%	-24					
A52590	1st Shopdrawing Submission - Review & Approval	21	23-Mar-17	12-Apr-17	17-Apr-17	09-May-17	100%	43%	-27					
A52600	2nd Shopdrawing Submission	14	13-Apr-17	26-Apr-17	09-May-17	23-May-17	100%	0%	-27					
A52610	2nd Shopdrawing Submission - Review & Approval	21	27-Apr-17	17-May-17	23-May-17	13-Jun-17	4.76%	0%	-27					
PERFORMANCE TEST - SHOPDRAWING SUBMISSION, FABRICATION, INSTALLATION & TEST														
PMU SHOPDRAWING SUBMISSION & TEST - Tower Facade Precast Panel														
A54620	Perf MU - Precast Concrete Facade Ordering & Production	173	07-Dec-16	28-May-17	07-Dec-16	18-Aug-17	82.08%	35%	-81					
A55130	Perf MU - 1st Tower Facade Test Proposal Review & Approval	21	09-Jan-17	29-Jan-17	26-Mar-17	15-Apr-17 A	100%	100%	-75					
A52660	Perf MU - 3rd Shopdrawing Submission - Review & Approval	21	11-Jan-17	31-Jan-17	28-Mar-17	17-Apr-17 A	100%	100%	-75					
A55140	Perf MU - 2nd Tower Facade Test Proposal Submission	14	30-Jan-17	12-Feb-17	28-Apr-17	11-May-17	100%	0%	-88					
A55150	Perf MU - 2nd Tower Facade Test Proposal Review & Approval	21	13-Feb-17	05-Mar-17	12-May-17	01-Jun-17	100%	0%	-88					
PMU SHOPDRAWING SUBMISSION & TEST - Podium Facade Precast Panel														
A54650	Perf MU - Podium Facade Precast Concrete + Curtain Wall Ordering & Production	160	18-Dec-16	26-May-17	03-Mar-17	16-Aug-17	81.88%	31%	-81					
A52700	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	11-Jan-17	31-Jan-17	28-Mar-17	17-Apr-17 A	100%	100%	-75					
A55160	Perf MU - 1st Podium Facade Test Proposal Submission	12	02-May-17	13-May-17	16-Jul-17	27-Jul-17	0%	0%	-75					
PMU SHOPDRAWING SUBMISSION & TEST - Kinked Glass with T Mullion														
A52710	Perf MU - 1st Shopdrawing Submission	33	17-Dec-16	18-Jan-17	20-Mar-17	04-Apr-17 A	100%	100%	-75					
A52720	Perf MU - 1st Shopdrawing Submission - Review & Approval	21	19-Jan-17	08-Feb-17	05-Apr-17	29-Apr-17	100%	95%	-79					
A54700	Perf MU - GW with T Mullion + Reflective Glass Ordering & Production	123	19-Jan-17	21-May-17	05-Apr-17	11-Aug-17	80.49%	14%	-82					
A52730	Perf MU - 2nd Shopdrawing Submission	14	09-Feb-17	22-Feb-17	29-Apr-17	13-May-17	100%	0%	-79					
A52740	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	23-Feb-17	15-Mar-17	13-May-17	03-Jun-17	100%	0%	-79					
A55200	Perf MU - 1st GW with T Mullion Test Proposal Submission	12	16-Mar-17	27-Mar-17	03-Jun-17	15-Jun-17	100%	0%	-79					
A55210	Perf MU - 1st GW with T Mullion Test Proposal Review & Approval	21	28-Mar-17	17-Apr-17	15-Jun-17	06-Jul-17	100%	0%	-79					
A55220	Perf MU - 2nd GW with T Mullion Test Proposal Submission	14	18-Apr-17	01-May-17	06-Jul-17	20-Jul-17	71.43%	0%	-79					
A55230	Perf MU - 2nd GW with T Mullion Test Proposal Review & Approval	21	02-May-17	22-May-17	20-Jul-17	10-Aug-17	0%	0%	-79					
PMU SHOPDRAWING SUBMISSION & TEST - Glass Wall with Ceramic Mullions at GF														
A52750	Perf MU - 1st Shopdrawing Submission	33	17-Dec-16	18-Jan-17	25-Mar-17	10-Apr-17 A	100%	100%	-81					
A52760	Perf MU - 1st Shopdrawing Submission - Review & Approval	21	19-Jan-17	08-Feb-17	11-Apr-17 A	02-May-17	100%	77%	-83					
A54740	Perf MU - GW with Ceramic Mullion G/F Production & Fabrication	197	09-Feb-17	24-Aug-17	02-May-17	15-Nov-17	39.59%	0%	-83					
A52770	Perf MU - 2nd Shopdrawing Submission	14	09-Feb-17	22-Feb-17	02-May-17	16-May-17	100%	0%	-83					
A52780	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	23-Feb-17	15-Mar-17	23-May-17	12-Jun-17	100%	0%	-89					
A55240	Perf MU - 1st GW with Ceramic Mullion Test Proposal Submission	12	16-Mar-17	27-Mar-17	13-Jun-17	24-Jun-17	100%	0%	-89					
A55250	Perf MU - 1st GW with Ceramic Mullion Test Proposal Review & Approval	21	28-Mar-17	17-Apr-17	25-Jun-17	15-Jul-17	100%	0%	-89					
A55260	Perf MU - 2nd GW with Ceramic Mullion Test Proposal Submission	14	18-Apr-17	01-May-17	16-Jul-17	29-Jul-17	71.43%	0%	-89					
PMU SHOPDRAWING SUBMISSION & TEST - Vertical Glass Wall at Skylight Gallery														
A52790	Perf MU - 1st Shopdrawing Submission	12	17-Dec-16	28-Dec-16	25-Mar-17	10-Apr-17 A	100%	100%	-102					
A52810	Perf MU - 2nd Shopdrawing Submission	14	19-Jan-17	01-Feb-17	05-Apr-17	18-Apr-17 A	100%	100%	-75					
A52820	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	02-Feb-17	22-Feb-17	06-Apr-17	16-Apr-17 A	100%	100%	-52					
A52800	Perf MU - 1st Shopdrawing Submission - Review & Approval	21	29-Dec-16	18-Jan-17	11-Apr-17 A	02-May-17	100%	76.19%	-104					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
A55300	Perf MU - 2nd Vertical GW Skylight Gallery Test Proposal Submission	14	28-Mar-17	10-Apr-17	28-Apr-17	11-May-17	100%	0%	-31				
A54820	Perf MU - Vertical Glass Wall Skylight Gallery Production & Fabrication	134	19-Jan-17	01-Jun-17	03-May-17	13-Sep-17	73.88%	0%	-104				
A55310	Perf MU - 2nd Vertical GW Skylight Gallery Test Proposal Review & Approval	21	11-Apr-17	01-May-17	12-May-17	01-Jun-17	80.95%	0%	-31	A55310			
PMU SHOPDRAWING SUBMISSION & TEST - Plaza Skylight 3/F Terrace													
A52830	Perf MU - 1st Shopdrawing Submission	12	17-Dec-16	28-Dec-16	25-Mar-17	10-Apr-17 A	100%	100%	-102				
A54780	Perf MU - Plaza Skylight 3/F Terrace Production & Fabrication	117	19-Jan-17	15-May-17	05-Apr-17	06-Aug-17	84.62%	14%	-83				
A52840	Perf MU - 1st Shopdrawing Submission - Review & Approval	21	29-Dec-16	18-Jan-17	11-Apr-17 A	02-May-17	100%	80%	-103				
A52850	Perf MU - 2nd Shopdrawing Submission	14	19-Jan-17	01-Feb-17	02-May-17	16-May-17	100%	0%	-103				
A52860	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	02-Feb-17	22-Feb-17	16-May-17	06-Jun-17	100%	0%	-103				
A55320	Perf MU - 1st Plaza Skylight Test Proposal Submission	12	23-Feb-17	06-Mar-17	06-Jun-17	18-Jun-17	100%	0%	-103				
A55330	Perf MU - 1st Plaza Skylight Test Proposal Review & Approval	21	07-Mar-17	27-Mar-17	18-Jun-17	09-Jul-17	100%	0%	-103				
A55340	Perf MU - 2nd Plaza Skylight Test Proposal Submission	14	28-Mar-17	10-Apr-17	09-Jul-17	23-Jul-17	100%	0%	-103				
A55350	Perf MU - 2nd Plaza Skylight Test Proposal Review & Approval	21	11-Apr-17	01-May-17	23-Jul-17	13-Aug-17	80.95%	0%	-103	A55350			
PMU SHOPDRAWING SUBMISSION & TEST - Acoustic Mock up													
A52870	Perf MU - 2nd Shopdrawing Submission	12	17-Dec-16	28-Dec-16	25-Mar-17	10-Apr-17 A	100%	100%	-102				
A52880	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	29-Dec-16	18-Jan-17	11-Apr-17 A	02-May-17	100%	76.19%	-104				
A55060	Perf MU - 1st Acoustic Mock Up Test Proposal Submission	12	19-Jan-17	30-Jan-17	03-May-17	14-May-17	100%	0%	-104				
A52890	Perf MU - 3rd Shopdrawing Submission	14	19-Jan-17	01-Feb-17	03-May-17	16-May-17	100%	0%	-104				
A55070	Perf MU - 1st Acoustic Mock Up Test Proposal Review & Approval	21	31-Jan-17	20-Feb-17	15-May-17	04-Jun-17	100%	0%	-104				
A52900	Perf MU - 3rd Shopdrawing Submission - Review & Approval	21	02-Feb-17	22-Feb-17	17-May-17	06-Jun-17	100%	0%	-104				
A55080	Perf MU - 2nd Acoustic Mock Up Test Proposal Submission	14	21-Feb-17	06-Mar-17	05-Jun-17	18-Jun-17	100%	0%	-104				
A55090	Perf MU - 2nd Acoustic Mock Up Test Proposal Review & Approval	21	07-Mar-17	27-Mar-17	19-Jun-17	09-Jul-17	100%	0%	-104				
A55100	Perf MU - Commence Testing of Acoustic Mock Up	0	28-Mar-17		10-Jul-17		100%	0%	-81				
A55110	Perf MU - Testing & Report Submission of Acoustic Mock Up	12	28-Mar-17	11-Apr-17	10-Jul-17	22-Jul-17	100%	0%	-81				
BIM MODEL SUBMISSION													
BIM MODEL SUBMISSION - Tower Facade Precast Panel (MPLUS-BIM-D003)													
A52920	5th BIM Model Submission	149	20-Sep-16	15-Feb-17	20-Sep-16	09-May-17	100%	92%	-83				
A52930	5th BIM Model Submission - Review & Approval	21	16-Feb-17	08-Mar-17	09-May-17	30-May-17	100%	0%	-83				
A52940	6th BIM Model Submission	14	09-Mar-17	22-Mar-17	30-May-17	13-Jun-17	100%	0%	-83				
A52950	6th BIM Model Submission - Review & Approval	21	23-Mar-17	12-Apr-17	13-Jun-17	04-Jul-17	100%	0%	-83				
BIM MODEL SUBMISSION - Podium Facade Panel (MPLUS-BIM-D004)													
A52960	3rd BIM Model Submission	209	15-Jul-16	08-Feb-17	15-Jul-16 A	02-May-17	100%	98%	-82				
A52970	3rd BIM Model Submission - Review & Approval	21	09-Feb-17	01-Mar-17	02-May-17	23-May-17	100%	0%	-82				
A52980	4th BIM Model Submission	14	02-Mar-17	15-Mar-17	23-May-17	06-Jun-17	100%	0%	-82				
A52990	4th BIM Model Submission - Review & Approval	21	16-Mar-17	05-Apr-17	06-Jun-17	27-Jun-17	100%	0%	-82				
BIM MODEL SUBMISSION - Glass Wall with T Mullion													
A53000	1st BIM Model Submission	56	23-Nov-16	17-Jan-17	23-Nov-16	03-Apr-17 A	100%	100%	-75				
A53010	1st BIM Model Submission - Review & Approval	21	18-Jan-17	07-Feb-17	04-Apr-17	01-May-17	100%	81%	-83				
A53020	2nd BIM Model Submission	14	08-Feb-17	21-Feb-17	01-May-17	15-May-17	100%	0%	-83				
A53030	2nd BIM Model Submission - Review & Approval	21	22-Feb-17	14-Mar-17	15-May-17	05-Jun-17	100%	0%	-83				
BIM MODEL SUBMISSION - Glass Wall with Ceramic Mullion & Precast Concrete Mullion													
A53040	1st BIM Model Submission	46	17-Dec-16	31-Jan-17	03-Mar-17	17-Apr-17 A	100%	100%	-75				
A53050	1st BIM Model Submission - Review & Approval	21	01-Feb-17	21-Feb-17	28-Apr-17	18-May-17	100%	0%	-86				
A53060	2nd BIM Model Submission	14	22-Feb-17	07-Mar-17	19-May-17	01-Jun-17	100%	0%	-86				
A53070	2nd BIM Model Submission - Review & Approval	21	08-Mar-17	28-Mar-17	02-Jun-17	22-Jun-17	100%	0%	-86				
BIM MODEL SUBMISSION - Ceramic Concrete Tubes & Perforated Cladding													
A53080	1st BIM Model Submission	46	17-Dec-16	31-Jan-17	03-Mar-17	17-Apr-17 A	100%	100%	-75				
A53090	1st BIM Model Submission - Review & Approval	21	01-Feb-17	21-Feb-17	28-Apr-17	18-May-17	100%	0%	-86				
A53100	2nd BIM Model Submission	14	22-Feb-17	07-Mar-17	19-May-17	01-Jun-17	100%	0%	-86				
A53110	2nd BIM Model Submission - Review & Approval	21	08-Mar-17	28-Mar-17	02-Jun-17	22-Jun-17	100%	0%	-86				
BIM MODEL SUBMISSION - Strip Glazing at Skylight Gallery & Plaza Skylight at L3 (MPLUS-BIM-D006) & (
A53120	3rd BIM Model Submission	76	06-Oct-16	20-Dec-16	06-Oct-16	01-May-17	100%	95%	-132				
A53130	3rd BIM Model Submission - Review & Approval	21	21-Dec-16	10-Jan-17	01-May-17	22-May-17	100%	0%	-132				
A53140	4th BIM Model Submission	14	11-Jan-17	24-Jan-17	22-May-17	05-Jun-17	100%	0%	-132				
A53150	4th BIM Model Submission - Review & Approval	21	25-Jan-17	14-Feb-17	05-Jun-17	26-Jun-17	100%	0%	-132				
BIM MODEL SUBMISSION - L3 Storefront (MPLUS-BIM-D001)													
A53160	5th BIM Model Submission	98	14-Sep-16	20-Dec-16	14-Sep-16	16-May-17	100%	81%	-147				
A53170	5th BIM Model Submission - Review & Approval	21	21-Dec-16	10-Jan-17	16-May-17	06-Jun-17	100%	0%	-147				
A53180	6th BIM Model Submission	14	11-Jan-17	24-Jan-17	06-Jun-17	20-Jun-17	100%	0%	-147				
A53190	6th BIM Model Submission - Review & Approval	21	25-Jan-17	14-Feb-17	20-Jun-17	11-Jul-17	100%	0%	-147				
BIM MODEL SUBMISSION - Garden Gallery Ceramic Cladding (MPLUS-BIM-D002)													
A53220	2nd BIM Model Submission	14	11-Jan-17	24-Jan-17	28-Mar-17	17-May-17	100%	0%	-113				
A53230	2nd BIM Model Submission - Review & Approval	21	25-Jan-17	14-Feb-17	18-May-17	07-Jun-17	100%	0%	-113				
BIM MODEL SUBMISSION - Metal Cladding FAC-LV-01a/FAC-LV-01b (Additional Scope)													
A53250	1st BIM Model Submission	70	17-Dec-16	24-Feb-17	03-Mar-17	18-May-17	100%	70%	-83				
A53260	1st BIM Model Submission - Review & Approval	21	25-Feb-17	17-Mar-17	19-May-17	08-Jun-17	100%	0%	-83				
A53270	2nd BIM Model Submission	14	18-Mar-17	31-Mar-17	09-Jun-17	22-Jun-17	100%	0%	-83				
A53280	2nd BIM Model Submission - Review & Approval	21	01-Apr-17	21-Apr-17	23-Jun-17	13-Jul-17	100%	0%	-83				
FABRICATION & DELIVERY OF M+ TOWER & PODIUM FACADE SYSTEM													
01A Tower Facade PC+CW (Bulk)													
A54880	Production & Fabrication - Precast Panel for Tower - Summary	229	19-Nov-16	05-Jul-17	19-Nov-16	16-Sep-17	69.87%	38%	-73				
Glass Production & Fabrication													
A54450	Coated Glass Production	108	19-Nov-16	31-Mar-17	19-Nov-16	23-Jun-17	100%	58%	-64				
A54460	Fabrication of Glass Panel	206	18-Feb-17	27-Oct-17	03-Mar-17	14-Nov-17	26.7%	20%	-14				
A54870	Coated Glass 1st Delivery to Factory	0	18-Apr-17		06-Jul-17		100%	0%	-64				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
CW Glazed Panel Production & Fabrication														
A54900	Die Making - Bulk Production	68	22-Nov-16	15-Feb-17	22-Nov-16	15-Apr-17 A	100%	100%	-48	Die Making - Bulk Production				
A54910	Aluminium Extrusion Production	201	16-Feb-17	19-Oct-17	28-Apr-17	28-Dec-17	28.36%	0%	-57					
A54920	Application of PVF2 Coating	171	30-Mar-17	26-Oct-17	13-Jun-17	05-Jan-18	12.28%	0%	-57					
A54860	Fabrication & Assemble of Curtain Wall Unit	203	18-Apr-17	18-Dec-17	06-Jul-17	10-Mar-18	4.43%	0%	-64	A54860				
Terracotta Production														
A54940	Terracotta Production - Tower (Bulk)	222	04-Jan-17	03-Oct-17	17-Mar-17	20-Dec-17	40.99%	12%	-64					
A54950	Delivery to Precast Factory	212	10-Mar-17	24-Nov-17	25-May-17	05-Feb-18	17.92%	0%	-59					
Precast Concrete Facade														
A54960	Precast Concrete Mould Making	215	28-Mar-17	15-Dec-17	31-May-17	13-Feb-18	10.7%	0%	-48					
A54970	Concreting of Precast Concrete	190	05-May-1	18-Dec-17	21-Jul-17	10-Mar-18	0%	0%	-64	A54970				
01B Tower Lighting (Bulk)														
Procurement & Production (3F to Roof) & Shipment														
A55020	Production - Tower Lighting Bar	189	31-Mar-17	18-Nov-17	16-Apr-17	23-Aug-17	10.58%	49%	73					
CW Glazed Panel Production & Fabrication														
A55030	Delivery & Assembly	200	04-May-1	30-Dec-17	17-May-17	13-Jan-18	0%	0%	-11	A55030				
A10000	IQC Inspection	190	19-May-1	04-Jan-18	02-Jun-17	17-Jan-18	0%	0%	-11	A10000				
A10010	OQC Inspection	190	29-May-1	13-Jan-18	12-Jun-17	26-Jan-18	0%	0%	-11	A10010				
02 Podium Facade PC + CW (Bulk)														
A54470	Production & Fabrication - Precast Panel for Podium	262	12-Nov-16	31-Jul-17	12-Nov-16	20-Oct-17	63.74%	33%	-81					
Glass Production & Fabrication														
A10020	Ordering of Coated Glass	106	12-Nov-16	22-Mar-17	12-Nov-16	14-Jun-17	100%	65%	-64	Ordering of Coated Glass, Ordering of Coated Glass				
A10030	Fabrication of Insulated Glass Panel	166	23-Mar-17	13-Oct-17	14-Jun-17	02-Jan-18	16.27%	0%	-64					
CW Glazed Panel Production & Fabrication														
A10040	Die Making - Bulk Production	46	17-Feb-17	12-Apr-17	17-Feb-17	09-May-17	100%	83%	-18	Die Making - Bulk Production, Die Making - Bulk Production				
A10050	Aluminium Extrusion Production	140	13-Apr-17	30-Sep-17	09-May-17	24-Oct-17	7.14%	0%	-18	A10050				
A10060	Application of PVF2 Coating	157	29-Apr-17	06-Nov-17	22-May-17	27-Nov-17	0%	0%	-18	A10060				
A10070	Fabrication & Assemble of Curtain Wall Unit	157	10-May-1	14-Nov-17	24-Jun-17	02-Jan-18	0%	0%	-38	A10070				
Terracotta Production														
A10090	Die Making - Terracotta Production	55	10-Jan-17	17-Mar-17	16-Mar-17	02-Jun-17	100%	50%	-59	Die Making - Terracotta Production, Die Making - Terracotta Production				
A10100	Terracotta Production - Tower (Bulk)	165	16-Feb-17	05-Sep-17	28-Apr-17	14-Nov-17	34.55%	0%	-57					
A10160	Delivery of Terracotta to Precast Factory from Italy (by ship)	131	05-May-1	09-Oct-17	13-Jul-17	15-Dec-17	0%	0%	-57	A10160				
Precast Concrete Facade														
A10110	Precast Concrete Mould Making	153	09-May-1	08-Nov-17	16-Jun-17	15-Dec-17	0%	0%	-32	A10110				
03 GW with T Mullion (Kinked & Straight B1F to GF) (Bulk)														
A54490	Production & Fabrication - GW with T Mullion (Kinked & Straight B1F to GF)	187	21-Apr-17	24-Oct-17	10-Jul-17	13-Jan-18	3.74%	0%	-81	A54490				
Glass Production & Fabrication														
A10190	Coated Glass Production	94	21-Apr-17	12-Aug-17	10-Jul-17	31-Oct-17	6.38%	0%	-65	A10190				
04B GW with Ceramic Mullion (GF & 1F) (Bulk)														
A54540	Production & Fabrication - GW with Ceramic Mullion (GF & 1F)	216	05-May-1	06-Dec-17	05-May-17*	06-Dec-17	0%	0%	0	A54540				
Glass Production & Fabrication														
A10460	Coated Glass Production	75	05-May-1	02-Aug-17	05-May-17	02-Aug-17	0%	0%	0	A10460				
Alum Frame Production & Fabrication														
A10480	Die Making - Bulk Production	38	19-Jun-17	02-Aug-17	19-Jun-17	02-Aug-17	0%	0%	0	A10480				
Terracotta Production														
A10550	Die Making - Bulk Production	50	26-May-1	25-Jul-17	26-May-17	25-Jul-17	0%	0%	0	A10550				
A10560	Terracotta Production (Bulk)	75	26-Jul-17	23-Oct-17	26-Jul-17	23-Oct-17	0%	0%	0	A10560				
05 Ceramic Concrete Tubes & Perforated Cladding (Bulk)														
A54600	Production & Fabrication - Ceramic Concrete Tubes & Perforated Cladding	229	13-Jun-17	27-Jan-18	27-Jul-17	12-Mar-18	0%	0%	-44	A54600				
Terracotta Production														
A10680	Die Making - Bulk Production	77	13-Jun-17	11-Sep-17	27-Jul-17	26-Oct-17	0%	0%	-37	A10680				
07 L3 Storefront (Bulk)														
A18870	Production & Fabrication - L3 Storefront	213	01-Apr-17	30-Oct-17	28-Apr-17	26-Nov-17	12.68%	0%	-27	A18870				
Glass Production & Fabrication														
A19170	Coated Glass Production	97	01-Apr-17	01-Aug-17	28-Apr-17*	23-Aug-17	19.59%	0%	-19	A19170				
Alum Frame Production & Fabrication														
A18890	Die Making - Bulk Production	71	01-Apr-17	30-Jun-17	28-Apr-17	24-Jul-17	26.76%	0%	-19	A18890				
A18900	Aluminium Extrusion Production	24	03-Jul-17	29-Jul-17	25-Jul-17	21-Aug-17	0%	0%	-19	A18900				
08 Garden Gallery Ceramic Cladding 3F (Bulk)														
A19190	Production & Fabrication - Garden Gallery Ceramic Cladding 3F	108	05-Apr-17	21-Jul-17	08-Jul-17	24-Oct-17	21.3%	0%	-94	A19190				
Brackets Production & Fabrication (SS)														
A18930	Production & Fabrication	35	05-Apr-17	20-May-17	28-Apr-17	10-Jun-17	48.57%	0%	-17	A18930				
A18940	Delivery of SS Bracket to Site	6	22-May-1	27-May-17	12-Jun-17	17-Jun-17	0%	0%	-17	A18940				
Terracotta Production & Fabrication														
A18950	Terracotta Production	45	05-Apr-17	02-Jun-17	28-Apr-17	22-Jun-17	37.78%	0%	-17	A18950				
A18960	Delivery to assemble factory	4	03-Jun-17	07-Jun-17	23-Jun-17	27-Jun-17	0%	0%	-17	A18960				
A18970	Assemble of bracket to Ceramic Cladding	36	08-Jun-17	20-Jul-17	28-Jun-17	09-Aug-17	0%	0%	-17	A18970				
09 North Perimeter Louvre Cladding (Bulk)														
A19210	Production & Fabrication - North Perimeter Louvre Cladding	294	06-Apr-17	24-Jan-18	28-Apr-17	15-Feb-18	7.48%	0%	-22	A19210				
Cladding & Louvre Production & Fabrication														
A18990	Die Making - Bulk Production	59	06-Apr-17	20-Jun-17	28-Apr-17*	10-Jul-17	27.12%	0%	-16	A18990				
A19000	Aluminium Extrusion Production	45	21-Jun-17	12-Aug-17	11-Jul-17	31-Aug-17	0%	0%	-16	A19000				
10 Doors (Bulk)														
A19230	Production & Fabrication - Doors	334	18-May-1	16-Apr-18	14-Jun-17	13-May-18	0%	0%	-27	A19230				
Doors Production & Fabrication														

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A19060	Die Making	89	06-Mar-17	24-Jun-17	06-Mar-17	18-Jul-17	47.19%	26%	-19	Die Making				
A19070	Aluminium Extrusion Production	90	16-Jun-17	29-Sep-17	16-Jun-17	29-Sep-17	0%	0%	0	A19070				
M+ Podium External Envelope (By RedLand, Permasteelisa)														
(By Permasteelisa) Preliminary Works														
A41110	Handover of Working Areas @ Zone A & provide reference line	0		05-Aug-17		26-Jul-17	0%	0%	9				A41110	
A41120	Surveying for Embeds	60	07-Aug-17	17-Oct-17	27-Jul-17	06-Oct-17	0%	0%	9				A41120	
B1/F to G/F Level														
(By Redland) Precast Concrete Panel														
A41140	Handover Zone A - B1/F Working Areas	0		05-Aug-17		26-Jul-17	0%	0%	9				A41140	
(By Permasteelisa) Glass Wall with T Mullion														
Zone A														
A41160	Handover Zone A - B1/F Working Areas	0		05-Aug-17		26-Jul-17	0%	0%	9				A41160	
G/F to 1/F Level														
(By Redland) Precast Concrete Panel														
A41190	Handover Zone A - G/F Working Areas	0		05-Aug-17		26-Jul-17	0%	0%	9				A41190	
(By Permasteelisa) Glass Window with Ceramic/Precast Concrete/AL Panel														
Zone A														
A41260	Handover Zone A - G/F Working Area	0		05-Aug-17		26-Jul-17	0%	0%	9				A41260	
1/F to 2/F Level														
(By Permasteelisa) Glass Wall with Ceramic/Ceramic Mullion/Precast Concrete														
Zone A														
A41270	Handover Zone A - 1/F Working Areas	0		05-Aug-17		26-Jul-17	0%	0%	9				A41270	
3/F Roof Level														
(By Permasteelisa) Skylight/Ceramic Cladding/Storefront														
Zone M, F & N														
A47590	Handover Zone M - 3/F Working Area	0		11-May-17		05-Jul-17	0%	0%	-45				Handover Zone M - 3/F Working	
M+ Tower External Envelope (By Permasteelisa)														
Tower Facade Advance Works														
Provision of Monorails, Catch fan & Working Platform														
A14820	Preparation & Design of Monorails	12	03-Apr-17	20-Apr-17	28-Apr-17	13-May-17*	100%	0%	-18	14820			Preparation & Design of Monorails	
A14830	Monorails - 1st Submission, Review and Approval by MJV	12	21-Apr-17	06-May-17	15-May-17	27-May-17	50%	0%	-18	A14830			Monorails - 1st Submission, Review and Approval by MJV	
A14840	Monorails - 2nd Submission, Review and Approval by MJV	12	08-May-17	20-May-17	29-May-17	12-Jun-17	0%	0%	-18	A14840			Monorails - 2nd Submission, Review and Approval by MJV	
Provision of Catchfan														
A42770	Preparation & Design of Catchfan & Working Platform	12	22-May-17	05-Jun-17	13-Jun-17	26-Jun-17	0%	0%	-18	A42770			Preparation & Design of Catchfan & Working	
Provision of Tower Crane TC6 on B1/F & 3/F Podium														
A42830	Zone E - 3/F Slab Complete	0		19-May-17		19-Jul-17	0%	0%	-50	A42830			Zone E - 3	
CSF & RDE Construction														
Sub-Structure RC Works														
B2/F Level														
North Zoning @ Portion - T														
Remaining Portion B7 @ Grid Line K' to A' / 5' to 7'														
A48100	Construct B2 Slab (B7) (160 m3)	11	09-Nov-16	21-Nov-16	15-Feb-17	12-Apr-17 A	100%	100%	-114	Construct B2 Slab (B7) (160 m3)				
B1/F Level														
North Zoning @ Portion - R														
Portion B1R3 @ Grid Line A' to C' / 6' to 7'														
A48270	Construct beams & slab (B1/F) (106 m3)	16	28-Dec-16	16-Jan-17	28-Dec-16	04-May-17	100%	80%	-83	Construct beams & slab (B1/F) (106 m3), Construct beams & slab (B1/F) (106 m3)				
A48290	Remove Scaffolds and Cleaning	3	03-Feb-17	06-Feb-17	28-Apr-17	02-May-17	100%	0%	-68	Remove Scaffolds and Cleaning				
Portion B1R4 @ Grid Line A to A' / 6' to 7'														
A48300	Construct beams & slab (B1/F) (100 m3)	15	16-Jan-17	04-Feb-17	09-Feb-17	02-May-17	100%	80%	-69	Construct beams & slab (B1/F) (100 m3); Construct beams & slab (B1/F) (100 m3)				
A48310	Concrete Curing period (2-weeks)	12	05-Feb-17	16-Feb-17	03-May-17	14-May-17	100%	0%	-87	Concrete Curing period (2-weeks)				
A48320	Remove Scaffolds and Cleaning	3	17-Feb-17	20-Feb-17	15-May-17	17-May-17	100%	0%	-68	Remove Scaffolds and Cleaning				
North Zoning @ Portion - S														
Portion S2 @ Grid Line A / 6' to 2														
A48340	Construct B1 Slab on Grid (Entrance Portal Road - RC 150 m3,)	14	06-Feb-17	21-Feb-17	04-May-17	19-May-17	100%	0%	-69	Construct B1 Slab on Grid (Entrance Portal Road - RC 150 m3,)				
A48350	Concrete Curing period (2-days), remove formworks & cleaning	4	22-Feb-17	25-Feb-17	20-May-17	23-May-17	100%	0%	-87	Concrete Curing period (2-days), remove formworks & cleaning				
CSF Zoning @ Portion - T														
Portion B1T4 @ Grid Line B' to D' / 3' to 6'														
A48560	Remove scaffolds & cleaning	4	20-Jan-17	24-Jan-17	28-Apr-17	04-May-17	100%	0%	-77	Remove scaffolds & cleaning				
Portion B1T5 @ Grid Line A' to B' / 4' to 6'														
A48580	Construct Columns & Walls B2 to B1/F @ GL A'-B' / 4'-6'	11	20-Jan-17	04-Feb-17	13-Apr-17	29-Apr-17	100%	90%	-67	Construct Columns & Walls B2 to B1/F @ GL A'-B' / 4'-6', Construct Columns & Walls B2 to B1/F @ GL A'-B' / 4'-6'				
A48590	Construct beams & slab (B1/F) (135 m3)	12	01-Feb-17	14-Feb-17	24-Apr-17	09-May-17	100%	40%	-65	Construct beams & slab (B1/F) (135 m3), Construct beams & slab (B1/F) (135 m3)				
A48600	Concrete Curing period (2-weeks)	11	15-Feb-17	25-Feb-17	09-May-17	20-May-17	100%	0%	-83	Concrete Curing period (2-weeks)				
A48610	Remove scaffolds & cleaning	5	27-Feb-17	03-Mar-17	20-May-17	26-May-17	100%	0%	-65	Remove scaffolds & cleaning				
Portion B1T6 @ Grid Line A to A' / 5' to 6'														
A48620	Construct Columns & Walls B2 to B1/F @ GL A-A' / 5'-6'	7	06-Feb-17	13-Feb-17	13-Apr-17	28-Apr-17	100%	90%	-60	Construct Columns & Walls B2 to B1/F @ GL A-A' / 5'-6', Construct Columns & Walls B2 to B1/F @ GL A-A' / 5'-6'				
A48630	Construct beams & slab (B1/F) (135 m3)	13	10-Feb-17	24-Feb-17	24-Apr-17	09-May-17	100%	40%	-57	Construct beams & slab (B1/F) (135 m3), Construct beams & slab (B1/F) (135 m3)				
A48640	Concrete Curing period (2-weeks)	10	25-Feb-17	06-Mar-17	09-May-17	19-May-17	100%	0%	-74	Concrete Curing period (2-weeks)				
A48650	Remove scaffolds & cleaning	5	07-Mar-17	11-Mar-17	19-May-17	25-May-17	100%	0%	-58	Remove scaffolds & cleaning				
RDE Zoning @ Portion - U														
Portion B1U1 @ Grid Line R' to J' / 1' to 4'														
A48710	Remove scaffolds and 1st Layer of Struts	6	10-Jan-17	16-Jan-17	13-Mar-17	22-Apr-17 A	100%	100%	-75	Remove scaffolds and 1st Layer of Struts				
Portion B1U2 @ Grid Line I' to J' / 4' to 6'														
A48780	Remove Scaffolds and 1st Layer of Struts	10	16-Jan-17	26-Jan-17	07-Feb-17	22-Apr-17 A	100%	100%	-66	Remove Scaffolds and 1st Layer of Struts				
Portion B1U3 @ Grid Line F' to H' / 1' to 3'														
A48840	Remove scaffolds and 1st Layer of Struts	6	13-Jan-17	19-Jan-17	13-Mar-17	22-Apr-17 A	100%	100%	-72	Remove scaffolds and 1st Layer of Struts				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Portion B1U4 @ Grid Line F' to H' / 3' to 6'														
A48880	Remove scaffolds & cleaning	5	21-Jan-17	26-Jan-17	06-Mar-17	22-Apr-17 A	100%	100%	-66	Remove scaffolds & cleaning				
LG/F Level														
CSF Zoning @ Portion - T														
Portion LGT2 @ Grid Line D' to F' / 3' to 5'														
A48940	Remove scaffolds & cleaning	11	24-Jan-17	08-Feb-17	28-Apr-17	12-May-17	100%	0%	-74	Remove scaffolds & cleaning				
Portion LGT3 @ Grid Line D' to F' / 5' to 6'														
A48980	Remove scaffolds & cleaning	6	18-Jan-17	24-Jan-17	28-Apr-17	06-May-17	100%	0%	-79	Remove scaffolds & cleaning				
Portion LGT4 @ Grid Line B' to D' / 3' to 5'														
A49030	Remove scaffolds & cleaning	6	09-Feb-17	15-Feb-17	28-Apr-17	06-May-17	100%	0%	-63	Remove scaffolds & cleaning				
Portion LGT5 @ Grid Line A' to D' / 5' to 6'														
A49050anew	Construct beams & slab (LG/F) - Remaining part	0			18-Mar-17	03-Apr-17 A	0%	100%		Construct beams & slab (LG/F) - Remaining part				
A49070	Remove scaffolds & cleaning	5	21-Mar-17	25-Mar-17	28-Apr-17	05-May-17	100%	0%	-29	Remove scaffolds & cleaning				
RDE Zoning @ Portion - U														
Portion LGU1 @ Grid Line H' to J' / 1' to 3'														
A49130	Remove scaffolds & cleaning	5	25-Jan-17	02-Feb-17	28-Apr-17	05-May-17	100%	0%	-73	Remove scaffolds & cleaning				
Portion LGU2 @ Grid Line F' to H' / 1' to 3'														
A49180	Remove scaffolds & cleaning	6	03-Feb-17	09-Feb-17	28-Apr-17	06-May-17	100%	0%	-68	Remove scaffolds & cleaning				
Portion LGU3 @ Grid Line F' to J' / 3' to 6'														
A49220	Remove scaffolds & cleaning	6	08-Feb-17	14-Feb-17	28-Apr-17	06-May-17	100%	0%	-64	Remove scaffolds & cleaning				
G/F Level														
North Zoning @ Portion - R (B1/F to G/F)														
Portion GFR1 @ Grid Line I' to J' / 5' to 1														
A49240	Construct Columns & Walls & Cols B1/F to G/F @ GL I'-J' / 5'-1	16	20-Jan-17	10-Feb-17	13-Feb-17	13-May-17	100%	25%	-73	Construct Columns & Walls & Cols B1/F to G/F @ GL I'-J' / 5'-1, Construct Columns & Walls & Cols B1/F to G/F @ GL I'-J' / 5'-1				
A49250	Construct beams & slab (G/F) (180 m3)	18	11-Feb-17	03-Mar-17	15-May-17	05-Jun-17	100%	0%	-73	Construct beams & slab (G/F) (180 m3)				
A49260	Concrete Curing period (2-weeks)	12	04-Mar-17	15-Mar-17	06-Jun-17	17-Jun-17	100%	0%	-94	Concrete Curing period (2-weeks)				
A49270	Remove scaffolds & cleaning	6	16-Mar-17	22-Mar-17	19-Jun-17	24-Jun-17	100%	0%	-74	Remove scaffolds & cleaning				
Portion GFR2 @ Grid Line F' to H' / 5' to 1														
A49280	Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1	16	11-Feb-17	01-Mar-17	06-Feb-17	17-May-17	100%	10%	-59	Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1, Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1				
A49290	Construct beams & slab (G/F) (175 m3)	18	04-Mar-17	24-Mar-17	06-Jun-17	26-Jun-17	100%	0%	-73	Construct beams & slab (G/F) (175 m3)				
A49300	Concrete Curing period (2-weeks)	12	25-Mar-17	05-Apr-17	27-Jun-17	08-Jul-17	100%	0%	-94	Concrete Curing period (2-weeks)				
A49310	Remove scaffolds & cleaning	6	06-Apr-17	12-Apr-17	10-Jul-17	15-Jul-17	100%	0%	-74	Remove scaffolds & cleaning				
Portion GFR3 & GFR4 @ Grid Line E' to F' / 6' to 2														
A49330	Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1	16	02-Mar-17	20-Mar-17	17-May-17	06-Jun-17	100%	0%	-59	Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1				
A49340	Construct beams & slab (G/F) (184 m3)	16	25-Mar-17	13-Apr-17	27-Jun-17	15-Jul-17	100%	0%	-73	Construct beams & slab (G/F) (184 m3)				
A49350	Concrete Curing period (2-weeks)	12	14-Apr-17	25-Apr-17	16-Jul-17	27-Jul-17	100%	0%	-93	Concrete Curing period (2-weeks)				
Portion GFR5 @ Grid Line C' to E' / 1 to 2														
A49370	Construct Columns & Walls & Cols B1/F to G/F @ GL C'-E' / 1-2	14	21-Mar-17	06-Apr-17	06-Jun-17	22-Jun-17	100%	0%	-59	Construct Columns & Walls & Cols B1/F to G/F @ GL C'-E' / 1-2				
A49380	Construct beams & slab (G/F) (149 m3)	14	18-Apr-17	05-May-17	17-Jul-17	01-Aug-17	64.29%	0%	-73	Construct beams & slab (G/F) (149 m3)				
Portion GFR6 @ Grid Line D' to E' / 6' to 1														
A49420	Construct Columns & Walls & Cols B1/F to G/F @ GL D'-E' / 6'-1	14	07-Apr-17	26-Apr-17	22-Jun-17	10-Jul-17	100%	0%	-59	Construct Columns & Walls & Cols B1/F to G/F @ GL D'-E' / 6'-1				
Portion GFR7 @ Grid Line C' to D' / 6' to 1														
A49460	Construct Columns & Walls & Cols B1/F to G/F @ GL C'-D' / 6'-1	14	27-Apr-17	15-May-17	10-Jul-17	26-Jul-17	7.14%	0%	-59	Construct Columns & Walls & Cols B1/F to G/F @ GL C'-D' / 6'-1				
A49470	Construct beams & slab (G/F) (148 m3)	14	16-May-17	01-Jun-17	26-Jul-17	11-Aug-17	0%	0%	-59	Construct beams & slab (G/F) (148 m3)				
Portion GFR8 @ Grid Line A' to C' / 6' to 7														
A49510	Construct Columns & Walls & Cols B1/F to G/F @ GL A'-C' / 6'-7	14	08-May-17	23-May-17	18-Jul-17	03-Aug-17	0%	0%	-59	Construct Columns & Walls & Cols B1/F to G/F @ GL A'-C' / 6'-7				
North Zoning @ Portion - S (B1/F to G/F)														
Portion GFS1 @ Grid Line A / 1 to 3														
A49710	Construct beams & slab (G/F) - remaining cantilever slab	18	29-Jun-17	20-Jul-17	01-Feb-17	28-Apr-17	0%	95%	68	Construct beams & slab (G/F) - remaining cantilever slab				
A49720	Concrete Curing period (2-weeks)	12	21-Jul-17	01-Aug-17	28-Apr-17	10-May-17	0%	0%	84	Concrete Curing period (2-weeks)				
A49730	Remove scaffolds & cleaning	6	02-Aug-17	08-Aug-17	10-May-17	17-May-17	0%	0%	70	Remove scaffolds & cleaning				
Portion GFS2 @ Grid Line A / 6' to 1														
A49740	Construct Columns & Walls & Cols B1/F to G/F @ GL A / 6'-1	14	27-Jun-17	13-Jul-17	28-Apr-17	16-May-17	0%	0%	48	Construct Columns & Walls & Cols B1/F to G/F @ GL A / 6'-1				
A49750	Construct beams & slab (G/F) (128 m3)	16	14-Jul-17	01-Aug-17	17-May-17	05-Jun-17	0%	0%	48	Construct beams & slab (G/F) (128 m3)				
A49760	Concrete Curing period (2-weeks)	12	02-Aug-17	13-Aug-17	06-Jun-17	17-Jun-17	0%	0%	57	Concrete Curing period (2-weeks)				
A49770	Remove scaffolds & cleaning	6	14-Aug-17	19-Aug-17	19-Jun-17	24-Jun-17	0%	0%	47	Remove scaffolds & cleaning				
CSF Zoning @ Portion - T (LG/F to G/F)														
Portion GFT1 (LG/F to G/F) @ Grid Line D' to F' / 1' to 3'														
A49800	Construct beams & slab (G/F) (141 m3)	25	24-Jan-17	24-Feb-17	01-Feb-17	04-May-17	100%	85%	-53	Construct beams & slab (G/F) (141 m3), Construct beams & slab (G/F) (141 m3)				
A49810	Concrete Curing period (2-weeks)	12	25-Feb-17	08-Mar-17	04-May-17	16-May-17	100%	0%	-69	Concrete Curing period (2-weeks)				
A49820	Remove scaffolds & cleaning	6	09-Mar-17	15-Mar-17	16-May-17	23-May-17	100%	0%	-53	Remove scaffolds & cleaning				
A49830	Complete RDE Trx Room and Give Access to ABWF & MEP	0	16-Mar-17		23-May-17		100%	0%	-53	Complete RDE Trx Room and Give Access to ABWF & MEP				
Portion GFT2 (LG/F to G/F) @ Grid Line D' to F' / 3' to 5'														
A49880	Remove scaffolds & cleaning	5	28-Feb-17	04-Mar-17	28-Apr-17	05-May-17	100%	0%	-47	Remove scaffolds & cleaning				
Portion GFT3 (LG/F to G/F) @ Grid Line D' to G' / 5' to 6'														
A49900	Construct beams & slab (G/F) (156 m3)	9	13-Jan-17	23-Jan-17	14-Feb-17	11-Apr-17 A	100%	100%	-62	Construct beams & slab (G/F) (156 m3)				
A49910	Concrete Curing period (2-weeks)	14	24-Jan-17	06-Feb-17	12-Apr-17	01-May-17	100%	71.43%	-84	Concrete Curing period (2-weeks), Concrete Curing period (2-weeks)				
A49920	Remove scaffolds & cleaning	5	07-Feb-17	11-Feb-17	02-May-17	08-May-17	100%	0%	-67	Remove scaffolds & cleaning				
Portion GFT4 (LG/F to G/F) @ Grid Line B' to D' / 3' to 6'														
A49940	Construct beams & slab (G/F) (284 m3)	12	10-Feb-17	23-Feb-17	29-Mar-17	02-May-17	100%	80%	-52	Construct beams & slab (G/F) (284 m3), Construct beams & slab (G/F) (284 m3)				
A49970	Commence CSF Building From G/F to 8/F (CMWP - 24 Mar 17)	0	20-Feb-17		28-Apr-17		100%	0%	-54	Commence CSF Building From G/F to 8/F (CMWP - 24 Mar 17)				
A49950	Concrete Curing period (2-weeks)	13	24-Feb-17	08-Mar-17	02-May-17	15-May-17	100%	0%	-67	Concrete Curing period (2-weeks)				
A49960	Remove scaffolds & cleaning	6	09-Mar-17	15-Mar-17	15-May-17	22-May-17	100%	0%	-51	Remove scaffolds & cleaning				
Portion GFT5 (B1/F to G/F) @ Grid Line A' to B' / 3' to 6'														
A49980	Construct Walls & Cols B1/F to G/F @ GL A'-B' / 3'-6', Construct Walls & Cols B1/F to G/F @ GL A'-B' / 3'-6'	10	23-Jan-17	06-Feb-17	18-Mar-17	02-May-17	100%	70%	-68	Construct Walls & Cols B1/F to G/F @ GL A'-B' / 3'-6', Construct Walls & Cols B1/F to G/F @ GL A'-B' / 3'-6'				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
A49990	Construct beams & slab (G/F) (170 m3)	12	07-Feb-17	20-Feb-17	04-May-17	17-May-17	100%	0%	-68		Construct beams & slab (G/F) (170 m3)		
A50010	Concrete Curing period (2-weeks)	14	21-Feb-17	06-Mar-17	18-May-17	31-May-17	100%	0%	-86		Concrete Curing period (2-weeks)		
A50020	Remove scaffolds & cleaning	5	07-Mar-17	11-Mar-17	01-Jun-17	06-Jun-17	100%	0%	-67		Remove scaffolds & cleaning		
Portion GFT6 (B1/F to G/F) @ Grid Line A to A' / 5' to 6'													
A50030	Construct Walls & Cols B 1/F to G/F @ GLA-A' / 5'-6'	7	06-Mar-17	13-Mar-17	01-Jun-17	08-Jun-17	100%	0%	-68		Construct Walls & Cols B 1/F to G/F @ GLA-A' / 5'-6'		
A50040	Construct beams & slab (G/F) (216 m3)	18	14-Mar-17	03-Apr-17	09-Jun-17	29-Jun-17	100%	0%	-68		Construct beams & slab (G/F) (216 m3)		
A50050	Concrete Curing period (2-weeks)	13	04-Apr-17	16-Apr-17	30-Jun-17	12-Jul-17	100%	0%	-87	A50050			
A50060	Remove scaffolds & cleaning	4	18-Apr-17	21-Apr-17	13-Jul-17	17-Jul-17	100%	0%	-70	A50060			
RDE Zoning @ Portion - U (LG/F to G/F)													
Portion GFU1 (LG/F to G/F) @ Grid Line H' to J' / 1' to 4'													
A50100	Construct beams & slab (G/F) (206 m3)	25	19-Jan-17	20-Feb-17	20-Feb-17	20-Apr-17 A	100%	100%	-46		Construct beams & slab (G/F) (206 m3)		
A50110	Concrete Curing period (2-weeks)	12	21-Feb-17	04-Mar-17	20-Apr-17	02-May-17	100%	58.33%	-59		Concrete Curing period (2-weeks), Concrete Curing period (2-weeks)		
A50120	Remove scaffolds & cleaning	6	06-Mar-17	11-Mar-17	04-May-17	10-May-17	100%	0%	-45		Remove scaffolds & cleaning		
Portion GFU2 (LG/F to G/F) @ Grid Line I' to J' / 4' to 6'													
A50140	Construct beams & slab (G/F) (178 m3)-Deferred due to hoisting steel plate at 1MF	13	11-Jan-17	25-Jan-17	06-Mar-17	13-Apr-17 A	100%	100%	-62		Construct beams & slab (G/F) (178 m3)-Deferred due to hoisting steel plate at 1MF		
A50150	Concrete Curing period (2-weeks)	12	26-Jan-17	06-Feb-17	14-Apr-17	26-Apr-17 A	100%	100%	-78		Concrete Curing period (2-weeks)		
A50160	Remove scaffolds & cleaning	6	07-Feb-17	13-Feb-17	28-Apr-17	06-May-17	100%	0%	-65		Remove scaffolds & cleaning		
Portion GFU3 (LG/F to G/F) @ Grid Line F' to I' / 1' to 3'													
A50180	Construct beams & slab (G/F) (269 m3) -remaining part	14	06-Feb-17	21-Feb-17	25-Feb-17	20-Apr-17 A	100%	100%	-45		Construct beams & slab (G/F) (269 m3) -remaining part		
A50190	Concrete Curing period (2-weeks)	12	22-Feb-17	05-Mar-17	21-Apr-17	02-May-17	100%	58.33%	-58		Concrete Curing period (2-weeks), Concrete Curing period (2-weeks)		
A50200	Remove scaffolds & cleaning	6	06-Mar-17	11-Mar-17	04-May-17	10-May-17	100%	0%	-45		Remove scaffolds & cleaning		
Portion GFU4 (LG/F to G/F) @ Grid Line F' to I' / 3' to 5'													
A50220	Construct beams & slab (G/F) (366 m3)	14	13-Feb-17	28-Feb-17	15-Mar-17	22-Apr-17 A	100%	100%	-41		Construct beams & slab (G/F) (366 m3)		
A50230	Concrete Curing period (2-weeks)	12	01-Mar-17	12-Mar-17	21-Apr-17	03-May-17	100%	50%	-52		Concrete Curing period (2-weeks), Concrete Curing period (2-weeks)		
A50260	Commence RDE Building From G/F to 15M/F (CMWP-20 Mar 17)	0	02-Mar-17		28-Apr-17		100%	0%	-45		Commence RDE Building From G/F to 15M/F (CMWP-20 Mar 17)		
A50240	Remove scaffolds & cleaning	6	13-Mar-17	18-Mar-17	04-May-17	10-May-17	100%	0%	-39		Remove scaffolds & cleaning		
CSF Super-Structure RC Works													
CSF Building													
CSF Structure @ Portion - T (G/F to 8/F)													
Grid Line B' to F' / 4' to 6'													
A50710	CSF - Walls, Columns & 1/F Slab	24	20-Feb-17	18-Mar-17	20-Mar-17	23-May-17	100%	18%	-50		CSF - Walls, Columns & 1/F Slab, CSF - Walls, Columns & 1/F Slab		
A50720	CSF - Walls, Columns & 2/F Slab	20	20-Mar-17	12-Apr-17	23-May-17	16-Jun-17	100%	0%	-50		CSF - Walls, Columns & 2/F Slab		
A50730	CSF - Walls, Columns & 3/F Slab	12	13-Apr-17	29-Apr-17	16-Jun-17	30-Jun-17	83.33%	0%	-50	A50730			
A50750	CSF - Walls, Columns & 4/F Slab	10	02-May-17	13-May-17	30-Jun-17	13-Jul-17	0%	0%	-50	A50750			
A50760	CSF - Walls, Columns & 5/F Slab	8	15-May-17	23-May-17	13-Jul-17	22-Jul-17	0%	0%	-50	A50760			
A50770	CSF - Walls, Columns & 6/F Slab	8	24-May-17	02-Jun-17	22-Jul-17	01-Aug-17	0%	0%	-50	A50770			
CSF Building FACADE Preliminaries													
ENGINEERING & APPROVAL - CSF													
SHOPDRAWING - CSF Glass Wall (All Area)													
A19260	1st Shopdrawing Submission - Review & Approval	21	31-Dec-16	20-Jan-17	17-Mar-17	06-Apr-17 A	100%	100%	-75		1st Shopdrawing Submission - Review & Approval		
A19270	2nd Shopdrawing Submission	14	21-Jan-17	03-Feb-17	28-Apr-17	11-May-17	100%	0%	-97		2nd Shopdrawing Submission		
A19280	2nd Shopdrawing Submission - Review & Approval	21	04-Feb-17	24-Feb-17	12-May-17	01-Jun-17	100%	0%	-97		2nd Shopdrawing Submission - Review & Approval		
SHOPDRAWING - Facade Doors Package #11 - CSF Doors - Total No. = 2													
A19290	1st Shopdrawing Submission	96	17-Dec-16	22-Mar-17	03-May-17*	06-Jun-17	100%	0%	-76		1st Shopdrawing Submission		
A19300	1st Shopdrawing Submission - Review & Approval	21	23-Mar-17	12-Apr-17	07-Jun-17	27-Jun-17	100%	0%	-76		1st Shopdrawing Submission - Review & Approval		
A19310	2nd Shopdrawing Submission	14	13-Apr-17	26-Apr-17	28-Jun-17	11-Jul-17	100%	0%	-76	A19310			
A19320	2nd Shopdrawing Submission - Review & Approval	21	27-Apr-17	17-May-17	12-Jul-17	01-Aug-17	4.76%	0%	-76	A19320			
SHOPDRAWING - CSF Roof Louvre Wall													
A19340	2nd Shopdrawing Submission & Comment	18	18-Jan-17	10-Feb-17	17-Mar-17	06-Apr-17 A	100%	100%	-45		2nd Shopdrawing Submission & Comment		
A19360	3rd Shopdrawing Submission & Comment	18	11-Feb-17	03-Mar-17	28-Apr-17	20-May-17	100%	0%	-61		3rd Shopdrawing Submission & Comment		
BD SUBMISSION FACADE SYSTEM & EMBEDS													
CSF Glass Wall (All Area), incl. CSF Louvre - FAC-LV-03 (additional Scope)													
A19400	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	14	19-Jan-17	01-Feb-17	29-Mar-17	15-Apr-17 A	100%	100%	-72		2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)		
A19410	CSF Glass Wall (All Area) - Submission to BD	0		03-Mar-17		01-Jun-17	100%	0%	-70		CSF Glass Wall (All Area) - Submission to BD		
A19420	CSF Glass Wall (All Area) - BD Approval	60	04-Mar-17	02-May-17	02-Jun-17	31-Jul-17	91.67%	0%	-90		CSF Glass Wall (All Area) - BD Approval		
PERFORMANCE TEST - SHOPDRAWING SUBMISSION, FABRICATION, INSTALLATION & TEST													
PERFORMANCE TEST & MOCK UP - CSF													
A19440	Shopdrawing Submission & Approval	70	17-Dec-16	15-Mar-17	25-Mar-17	07-Jun-17	100%	55%	-65		Shopdrawing Submission & Approval, Shopdrawing Submission & Approval		
A19450	Ordering & Production of Material	107	18-Jan-17	02-Jun-17	31-Mar-17	18-Aug-17	73.83%	14%	-64		Ordering & Production of Material		
PMU SHOPDRAWING SUBMISSION & TEST - CSF Building													
A19490	Perf MU - 1st Shopdrawing Submission - Review & Approval	21	12-Jan-17	01-Feb-17	29-Mar-17	18-Apr-17 A	100%	100%	-75		Perf MU - 1st Shopdrawing Submission - Review & Approval		
A19500	Perf MU - 2nd Shopdrawing Submission	14	02-Feb-17	15-Feb-17	28-Apr-17	11-May-17	100%	0%	-85		Perf MU - 2nd Shopdrawing Submission		
A19520	Perf MU - CSF Facade Ordering & Production	100	02-Feb-17	12-May-17	28-Apr-17	05-Aug-17	85%	0%	-85		Perf MU - CSF Facade Ordering & Production		
A19510	Perf MU - 2nd Shopdrawing Submission - Review & Approval	21	16-Feb-17	08-Mar-17	12-May-17	01-Jun-17	100%	0%	-85		Perf MU - 2nd Shopdrawing Submission - Review & Approval		
BIM MODEL SUBMISSION													
BIM MODEL SUBMISSION - CSF Glass Wall (All Area)													
A19740	1st BIM Model Submission	12	17-Dec-16	28-Dec-16	15-Apr-17	18-Apr-17 A	100%	100%	-110		1st BIM Model Submission		
A19750	1st BIM Model Submission - Review & Approval	21	29-Dec-16	18-Jan-17	19-Apr-17	07-May-17	100%	53%	-109		1st BIM Model Submission - Review & Approval, 1st BIM Model Submission - Review & Approval		
A19760	2nd BIM Model Submission	14	19-Jan-17	01-Feb-17	07-May-17	21-May-17	100%	0%	-109		2nd BIM Model Submission		
A19770	2nd BIM Model Submission - Review & Approval	21	02-Feb-17	22-Feb-17	21-May-17	11-Jun-17	100%	0%	-109		2nd BIM Model Submission - Review & Approval		
BIM MODEL SUBMISSION - CSF Louvre FAC-LV-03 (Additional Scope)													
A19780	1st BIM Model Submission	12	17-Dec-16	28-Dec-16	15-Apr-17	18-Apr-17 A	100%	100%	-110		1st BIM Model Submission		
A19790	1st BIM Model Submission - Review & Approval	21	29-Dec-16	18-Jan-17	19-Apr-17	07-May-17	100%	53%	-109		1st BIM Model Submission - Review & Approval, 1st BIM Model Submission - Review & Approval		
A19800	2nd BIM Model Submission	14	19-Jan-17	01-Feb-17	07-May-17	21-May-17	100%	0%	-109		2nd BIM Model Submission		
A19810	2nd BIM Model Submission - Review & Approval	21	02-Feb-17	22-Feb-17	21-May-17	11-Jun-17	100%	0%	-109		2nd BIM Model Submission - Review & Approval		

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Fabrication & Delivery of CSF Facade System														
A19560	Glass Wall Production and Fabrication	221	15-Feb-17	11-Nov-17	28-Apr-17	22-Jan-18	26.24%	0%	-58					
A19570	Glass Production and Fabrication	127	23-Mar-17	26-Aug-17	07-Jun-17	06-Nov-17	21.26%	0%	-58					
A19580	Roof Louvre Wall Production & Fabrication	161	22-Apr-17	03-Nov-17	04-Jul-17	13-Jan-18	3.11%	0%	-58					
Glass Production & Fabrication														
A19590	Ordering of Coated Glass	68	23-Mar-17	17-Jun-17	07-Jun-17	25-Aug-17	39.71%	0%	-58					
Glass Wall Production & Fabrication														
A19610	Die Making	51	15-Feb-17	19-Apr-17	03-Mar-17	15-May-17	100%	75%	-20					
A19630	PVF2 Paint Ordering	51	23-Mar-17	27-May-17	10-Apr-17	21-Jun-17	52.94%	14%	-20					
A19620	Aluminium Extrusion Production	24	20-Apr-17	19-May-17	15-May-17	13-Jun-17	29.17%	0%	-20					
A19640	Application of PVF2 Coating	18	29-May-17	19-Jun-17	21-Jun-17	13-Jul-17	0%	0%	-20					
Roof Louvre Wall Production & Fabrication														
A19680	Steel Frame Fabrication - Roof Louvre	120	22-Apr-17	13-Sep-17	04-Jul-17	23-Nov-17	4.17%	0%	-58					
A19690	Die Making	60	22-Apr-17	05-Jul-17	04-Jul-17	11-Sep-17	8.33%	0%	-58					
CSF External Envelope														
CSF Structure Milestones														
A19820	CSF - Wall, Column & G/F to 1/F Slab Complete	0		18-Mar-17		23-May-17	100%	0%	-56					
FACADE INSTALLATION - by Permasteelisa														
Glazed Glass Curtain Wall - South Elevation														
A19950	Handover of Working Area (G/F)	0		18-Mar-17		23-May-17	100%	0%	-56					
A19960	Surveying of Embeds (G/F to 1/F)	7	20-Mar-17	27-Mar-17	23-May-17	31-May-17	100%	0%	-56					
A19970	Submission of Embeds survey report (G/F to 1/F)	7	28-Mar-17	04-Apr-17	31-May-17	08-Jun-17	100%	0%	-56					
A19980	Preparation of Remedial Method (G/F to 1/F)	14	05-Apr-17	20-Apr-17	08-Jun-17	24-Jun-17	100%	0%	-56					
A19990	Approval of Remedial Method (G/F to 1/F)	14	21-Apr-17	06-May-17	24-Jun-17	11-Jul-17	42.86%	0%	-56					
A20000	Bracket Installation (G/F to 1/F)	14	08-May-17	23-May-17	11-Jul-17	27-Jul-17	0%	0%	-56					
RDE Super-Structure RC Works														
RDE Building														
RDE Structure @ Portion - U (G/F to 15M/F)														
Block A Grid Line G' to J' / 1' to 6'														
A50840	RDE - Walls, Columns & 1/F Slab	24	02-Mar-17	29-Mar-17	29-Mar-17	25-May-17	100%	11%	-42					
A50850	RDE - Walls, Columns & 2/F Slab	20	30-Mar-17	26-Apr-17	25-May-17	19-Jun-17	100%	0%	-42					
A50860	RDE - Walls, Columns & 3/F Slab	18	27-Apr-17	19-May-17	19-Jun-17	11-Jul-17	5.56%	0%	-42					
A50870	RDE - Walls, Columns & 4/F Slab	12	20-May-17	03-Jun-17	11-Jul-17	25-Jul-17	0%	0%	-42					
A50880	RDE - Walls, Columns & 5/F Slab	8	05-Jun-17	13-Jun-17	25-Jul-17	03-Aug-17	0%	0%	-42					
RDE Building FACADE Preliminaries														
SCHEMATIC DRAWINGS														
SCHEMATIC DRAWING SUBMISSION - by Redland														
A53320	2nd Schematic Drawing for PreCast Tubes, Columns and Roof Panel (FC-PC) - Review and Approval	14	28-Jan-17	10-Feb-17	15-Feb-17	11-May-17	100%	0%	-90					
SCHEMATIC DRAWING SUBMISSION - by PISA														
A53400	2nd Schematic Drawing for Window Wall & Louvre at 2F to 14F - Review & Approval	14	28-Jan-17	10-Feb-17	15-Mar-17	06-May-17	100%	40%	-84					
A53420	1st Schematic Drawing for Window Wall & Louvre at 15F to RF - Review & Approval	14	31-Dec-16	13-Jan-17	26-Mar-17	07-May-17	100%	29%	-114					
A53360	2nd Schematic Drawing for Window Wall, Facade Window, Louvre and operable panel at GF to 1F - Review & Approval	14	28-Jan-17	10-Feb-17	28-Apr-17	11-May-17	100%	0%	-90					
A53430	2nd Schematic Drawing for Window Wall & Louvre at 15F to RF	14	14-Jan-17	27-Jan-17	07-May-17	21-May-17	100%	0%	-114					
A53440	2nd Schematic Drawing for Window Wall & Louvre at 15F to RF - Review & Approval	14	28-Jan-17	10-Feb-17	21-May-17	04-Jun-17	100%	0%	-114					
SHOP DRAWINGS + DESIGN CALCULATION														
SHOPDRAWING + DESIGN CALCULATION - by Redland														
A53470	2nd Shopdrawing for PreCast Tubes, Columns and Roof Panel (FC-PC)	14	14-Jan-17	27-Jan-17	23-Mar-17	10-May-17	100%	9%	-103					
A53480	2nd Shopdrawing for PreCast Tubes, Columns and Roof Panel (FC-PC) - Review and Approval	14	28-Jan-17	10-Feb-17	10-May-17	24-May-17	100%	0%	-103					
A53490	3rd Shopdrawing for PreCast Tubes, Columns and Roof Panel (FC-PC)	14	11-Feb-17	24-Feb-17	24-May-17	07-Jun-17	100%	0%	-103					
A53500	3rd Shopdrawing for PreCast Tubes, Columns and Roof Panel (FC-PC) - Review and Approval	14	25-Feb-17	10-Mar-17	07-Jun-17	21-Jun-17	100%	0%	-103					
SHOPDRAWING + DESIGN CALCULATION - by PISA														
A53540	2nd Shopdrawing Cast-in Embed for Window Wall, Facade Window, Louver and operable panel at GF to 1F - Review & Approval	14	28-Jan-17	10-Feb-17	28-Jan-17	11-May-17	100%	0%	-90					
A53590	2nd Shopdrawing Cast-in Embed for Window Wall & Louver at 2F to 14F	14	14-Jan-17	27-Jan-17	16-Feb-17	10-May-17	100%	9%	-103					
A53820	1st Shopdrawing for Window Wall & Louver at 15F to RF - Review & Approval	14	04-Feb-17	17-Feb-17	22-Mar-17	02-May-17	100%	65%	-74					
A53770	2nd Shopdrawing for Window Wall & Louver at 2F to 14F	14	25-Jan-17	07-Feb-17	25-Mar-17	05-May-17	100%	44%	-87					
A53640	1st Shopdrawing Cast-in Embed for Window Wall & Louver at 15F to RF - Review & Approval	14	16-Jan-17	29-Jan-17	29-Mar-17	12-May-17	100%	0%	-103					
A53690	1st Shopdrawing for Window Wall, Facade Window, Louver and operable panel at GF to 1F	14	17-Dec-16	30-Dec-16	28-Apr-17	11-May-17	100%	0%	-132					
A53830	2nd Shopdrawing for Window Wall & Louver at 15F to RF	14	18-Feb-17	03-Mar-17	02-May-17	16-May-17	100%	0%	-74					
A53780	2nd Shopdrawing for Window Wall & Louver at 2F to 14F - Review & Approval	14	08-Feb-17	21-Feb-17	05-May-17	19-May-17	100%	0%	-87					
A53600	2nd Shopdrawing Cast-in Embed for Window Wall & Louver at 2F to 14F - Review & Approval	14	28-Jan-17	10-Feb-17	10-May-17	24-May-17	100%	0%	-103					
A53550	3rd Shopdrawing Cast-in Embed for Window Wall, Facade Window, Louver and operable panel at GF to 1F	14	11-Feb-17	24-Feb-17	12-May-17	25-May-17	100%	0%	-90					
A53700	1st Shopdrawing for Window Wall, Facade Window, Louver and operable panel at GF to 1F	14	31-Dec-16	13-Jan-17	12-May-17	25-May-17	100%	0%	-132					
A53650	2nd Shopdrawing Cast-in Embed for Window Wall & Louver at 15F to RF	14	30-Jan-17	12-Feb-17	13-May-17	26-May-17	100%	0%	-103					
A53840	2nd Shopdrawing for Window Wall & Louver at 15F to RF - Review & Approval	14	04-Mar-17	17-Mar-17	16-May-17	30-May-17	100%	0%	-74					
A53790	3rd Shopdrawing for Window Wall & Louver at 2F to 14F	14	22-Feb-17	07-Mar-17	19-May-17	02-Jun-17	100%	0%	-87					
A53610	3rd Shopdrawing Cast-in Embed for Window Wall & Louver at 2F to 14F	14	11-Feb-17	24-Feb-17	24-May-17	07-Jun-17	100%	0%	-103					
A53560	3rd Shopdrawing Cast-in Embed for Window Wall, Facade Window, Louver and operable panel at GF to 1F	14	25-Feb-17	10-Mar-17	26-May-17	08-Jun-17	100%	0%	-90					
A53710	2nd Shopdrawing for Window Wall, Facade Window, Louver and operable panel at GF to 1F	14	14-Jan-17	27-Jan-17	26-May-17	08-Jun-17	100%	0%	-132					
A53660	2nd Shopdrawing Cast-in Embed for Window Wall & Louver at 15F to RF - Review & Approval	14	13-Feb-17	26-Feb-17	27-May-17	09-Jun-17	100%	0%	-103					
A53850	3rd Shopdrawing for Window Wall & Louver at 15F to RF	14	18-Mar-17	31-Mar-17	30-May-17	13-Jun-17	100%	0%	-74					
A53800	3rd Shopdrawing for Window Wall & Louver at 2F to 14F - Review & Approval	14	08-Mar-17	21-Mar-17	02-Jun-17	16-Jun-17	100%	0%	-87					
A53620	3rd Shopdrawing Cast-in Embed for Window Wall & Louver at 2F to 14F - Review & Approval	14	25-Feb-17	10-Mar-17	07-Jun-17	21-Jun-17	100%	0%	-103					
A53720	2nd Shopdrawing for Window Wall, Facade Window, Louver and operable panel at GF to 1F	14	28-Jan-17	10-Feb-17	09-Jun-17	22-Jun-17	100%	0%	-132					
A53670	3rd Shopdrawing Cast-in Embed for Window Wall & Louver at 15F to RF	14	27-Feb-17	12-Mar-17	10-Jun-17	23-Jun-17	100%	0%	-103					
A53860	3rd Shopdrawing for Window Wall & Louver at 15F to RF - Review & Approval	14	01-Apr-17	14-Apr-17	13-Jun-17	27-Jun-17	100%	0%	-74					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017					
										Apr 19	May 20	Jun 21	Jul 22		
A53730	3rd Shopdrawing for Window Wall, Facade Window, Louver and operable panel at GF t	14	11-Feb-17	24-Feb-17	23-Jun-17	06-Jul-17	100%	0%	-132						
A53680	3rd Shopdrawing Cast-in Embed for Window Wall & Louver at 15F to RF - Review & A	14	13-Mar-17	26-Mar-17	24-Jun-17	07-Jul-17	100%	0%	-103						
A53740	3rd Shopdrawing for Window Wall, Facade Window, Louver and operable panel at GF t	14	25-Feb-17	10-Mar-17	07-Jul-17	20-Jul-17	100%	0%	-132						
PERFORMANCE MOCK UP TEST															
PERFORMANCE MOCK UP TEST - by PISA															
A53990	1st Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1!	14	04-Feb-17	17-Feb-17	21-Mar-17	01-May-17	100%	74%	-73						
A53910	3rd Performance Mock Up Test Design Submission of Window Wall (FC-WW-01) at G	14	13-Feb-17	26-Feb-17	24-Mar-17	04-May-17	100%	50%	-67						
A53940	1st Performance Mock Up Test Design Submission of Window Wall (FC-WW-3a, 04 &	14	14-Feb-17	27-Feb-17	28-Mar-17	08-May-17	100%	24%	-70						
A54000	1st Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1!	14	18-Feb-17	03-Mar-17	01-May-17	15-May-17	100%	0%	-73						
A53920	3rd Performance Mock Up Test Design Submission of Window Wall (FC-WW-01) at G	14	27-Feb-17	12-Mar-17	05-May-17	18-May-17	100%	0%	-67						
A53950	2nd Performance Mock Up Test Design Submission of Window Wall (FC-WW-3a, 04 &	14	28-Feb-17	13-Mar-17	08-May-17	22-May-17	100%	0%	-70						
A54010	2nd Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1	14	04-Mar-17	17-Mar-17	15-May-17	29-May-17	100%	0%	-73						
A53960	2nd Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1	14	14-Mar-17	27-Mar-17	22-May-17	05-Jun-17	100%	0%	-70						
A54020	2nd Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1	14	18-Mar-17	31-Mar-17	29-May-17	12-Jun-17	100%	0%	-73						
A53970	3rd Performance Mock Up Test Design Submission of Window Wall (FC-WW-3a, 04 &	14	28-Mar-17	10-Apr-17	05-Jun-17	19-Jun-17	100%	0%	-70						
A54030	3rd Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1!	14	01-Apr-17	14-Apr-17	12-Jun-17	26-Jun-17	100%	0%	-73						
A53980	3rd Performance Mock Up Test Design Submission of Window Wall (FC-WW-3a, 04 &	14	11-Apr-17	24-Apr-17	19-Jun-17	03-Jul-17	100%	0%	-70						
A54040	3rd Performance Mock Up Test Design Submission of Window Wall (FC-WW-06) at 1!	14	15-Apr-17	28-Apr-17	26-Jun-17	10-Jul-17	92.86%	0%	-73						
BD DRAWING + DESIGN CALCULATION															
BD DRAWING + DESIGN CALCULATION - by Redland															
A54080	2nd BD Submission for PreCast Tubes, Columns and Roof Panel (FC-PC) - Review ar	14	28-Jan-17	10-Feb-17	05-Jan-17	04-May-17	100%	50%	-83						
BD DRAWING + DESIGN CALCULATION - by PISA															
A54340	1st BD Submission for Window Wall & Louver at 2F to 14F - Review & Approval	14	11-Mar-17	24-Mar-17	28-Mar-17	08-May-17	100%	24%	-45						
A54170	2nd BD Submission Cast-in Embed for Window Wall & Louver at 2F to 14F	14	25-Jan-17	07-Feb-17	29-Mar-17	09-May-17	100%	15%	-91						
A54220	1st BD Submission Cast-in Embed for Window Wall & Louver at 15F to RF - Review &	14	14-Feb-17	27-Feb-17	30-Mar-17	11-May-17	100%	0%	-73						
A54280	1st BD Submission for Window Wall, Facade Window, Louver and operable panel at G	14	17-Jan-17	30-Jan-17	30-Mar-17	10-May-17	100%	9%	-100						
A54390	1st BD Submission for Window Wall & Louver at 15F to RF	14	15-Mar-17	28-Mar-17	28-Apr-17	11-May-17	100%	0%	-44						
A54350	2nd BD Submission for Window Wall & Louver at 2F to 14F	14	25-Mar-17	07-Apr-17	08-May-17	22-May-17	100%	0%	-45						
A54180	2nd BD Submission Cast-in Embed for Window Wall & Louver at 2F to 14F - Review &	14	08-Feb-17	21-Feb-17	09-May-17	23-May-17	100%	0%	-91						
A54290	2nd BD Submission for Window Wall, Facade Window, Louver and operable panel at G	14	31-Jan-17	13-Feb-17	10-May-17	24-May-17	100%	0%	-100						
A54230	2nd BD Submission Cast-in Embed for Window Wall & Louver at 15F to RF	14	28-Feb-17	13-Mar-17	12-May-17	25-May-17	100%	0%	-73						
A54400	1st BD Submission for Window Wall & Louver at 15F to RF - Review & Approval	14	29-Mar-17	11-Apr-17	12-May-17	25-May-17	100%	0%	-44						
A54360	2nd BD Submission for Window Wall & Louver at 2F to 14F - Review & Approval	14	08-Apr-17	21-Apr-17	22-May-17	05-Jun-17	100%	0%	-45						
A54190	3rd BD Submission Cast-in Embed for Window Wall & Louver at 2F to 14F	14	22-Feb-17	07-Mar-17	23-May-17	06-Jun-17	100%	0%	-91						
A54300	2nd BD Submission for Window Wall, Facade Window, Louver and operable panel at G	14	14-Feb-17	27-Feb-17	24-May-17	07-Jun-17	100%	0%	-100						
A54240	2nd BD Submission Cast-in Embed for Window Wall & Louver at 15F to RF - Review &	14	14-Mar-17	27-Mar-17	26-May-17	08-Jun-17	100%	0%	-73						
A54410	2nd BD Submission for Window Wall & Louver at 15F to RF	14	12-Apr-17	25-Apr-17	26-May-17	08-Jun-17	100%	0%	-44						
A54370	3rd BD Submission for Window Wall & Louver at 2F to 14F	14	22-Apr-17	05-May-17	05-Jun-17	19-Jun-17	42.86%	0%	-45						
A54200	3rd BD Submission Cast-in Embed for Window Wall & Louver at 2F to 14F - Review &	14	08-Mar-17	21-Mar-17	06-Jun-17	20-Jun-17	100%	0%	-91						
A54310	3rd BD Submission for Window Wall, Facade Window, Louver and operable panel at G	14	28-Feb-17	13-Mar-17	07-Jun-17	21-Jun-17	100%	0%	-100						
A54250	3rd BD Submission Cast-in Embed for Window Wall & Louver at 15F to RF	14	28-Mar-17	10-Apr-17	09-Jun-17	22-Jun-17	100%	0%	-73						
A54420	2nd BD Submission for Window Wall & Louver at 15F to RF - Review & Approval	14	26-Apr-17	09-May-17	09-Jun-17	22-Jun-17	14.29%	0%	-44						
A54380	3rd BD Submission for Window Wall & Louver at 2F to 14F - Review & Approval	14	06-May-17	19-May-17	19-Jun-17	03-Jul-17	0%	0%	-45						
A54320	3rd BD Submission for Window Wall, Facade Window, Louver and operable panel at G	14	14-Mar-17	27-Mar-17	21-Jun-17	05-Jul-17	100%	0%	-100						
A54260	3rd BD Submission Cast-in Embed for Window Wall & Louver at 15F to RF - Review &	14	11-Apr-17	24-Apr-17	23-Jun-17	06-Jul-17	100%	0%	-73						
A54430	3rd BD Submission for Window Wall & Louver at 15F to RF	14	10-May-17	23-May-17	23-Jun-17	06-Jul-17	0%	0%	-44						
A54440	3rd BD Submission for Window Wall & Louver at 15F to RF - Review & Approval	14	24-May-17	06-Jun-17	07-Jul-17	20-Jul-17	0%	0%	-44						
ICP & SPS Construction															
Key Dates															
A31570	SPS Structure Complete	0		15-Mar-17		21-Apr-17 A	100%	100%	-27						
A31580	ICP Structure Complete	0		24-Jun-17		12-Jun-17	0%	0%	11						
SPS WORKS (Sewerage Pumping Station)															
Pre-Construction Works															
A55810	SPS - Procurement & fabrication of Louvre	82	21-Jan-17	12-Apr-17	09-Mar-17	20-May-17	100%	72%	-38						
A55830	SPS - Procurement & fabrication of Davit System	90	27-Jan-17	26-Apr-17	09-Mar-17	16-Jun-17	100%	45%	-51						
A55850	SPS - Procurement & fabrication of GRP Cover	90	27-Jan-17	26-Apr-17	09-Mar-17	12-Apr-17 A	100%	100%	15						
A55870	SPS - Procurement & fabrication of Fire / Security Roller Shutter	43	06-Feb-17	20-Mar-17	19-Mar-17	26-May-17	100%	33%	-67						
A55890	SPS - Procurement & fabrication of Metal Door	43	06-Feb-17	20-Mar-17	19-Mar-17	26-May-17	100%	33%	-67						
A55920	SPS - Procurement & fabrication of Perforated Cladding	60	28-Feb-17	28-Apr-17	28-Apr-17	26-Jun-17	98.33%	0%	-59						
A55910	SPS - Confirmation of perforated corrugated cladding by FAC/MJV	0		28-Feb-17		28-Apr-17	100%	0%	-47						
A55820	SPS - 1st Delivery of Louvre	0		13-Apr-17		20-May-17	100%	0%	-28						
A55880	SPS - 1st Delivery of Fire / Security Shutter	0		21-Mar-17		26-May-17	100%	0%	-52						
A55900	SPS - 1st Delivery of Metal Door	0		21-Mar-17		26-May-17	100%	0%	-52						
A55840	SPS - 1st Delivery of Davit System	0		27-Apr-17		16-Jun-17	100%	0%	-41						
A55930	SPS - 1st Delivery of Perforated Cladding	0		29-Apr-17		27-Jun-17	0%	0%	-47						
RC Structures															
Portion E2 - Pump Station B2/F & B1/F															
A37960	SPS - Dismantle Falseworks & Clean area Below Roof Slab	4	24-Feb-17	28-Feb-17	20-Mar-17	21-Apr-17 A	100%	100%	-40						
Portion E1 - Plant Room B1/F															
A31830	SPS - Construct Concrete Vent Duct Above Roof Slab	17	15-Feb-17	06-Mar-17	27-Mar-17	28-Apr-17	100%	90%	-42						
A31840	SPS - Dismantle Falseworks & Clean area Below Roof Slab	4	22-Feb-17	25-Feb-17	31-Mar-17	21-Apr-17 A	100%	100%	-42						
A31860	SPS - Complete Structure	0		15-Mar-17		21-Apr-17 A	100%	100%	-27						
A31870	SPS - Complete Internal FS Tank & Give Access to PIW Contractor's	0		16-Mar-17		28-Apr-17	100%	0%	-32						
SPS - ABWF & Building Services Installation															
Pump Station															

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017										
										Apr 19	May 20	Jun 21	Jul 22							
B2/F - Pump Station																				
A55630	Complete Concrete Plinth	0		28-Feb-17	28-Apr-17	100%	0%	-46												
A55640	Install bracket for cat ladder	3	01-Mar-17	03-Mar-17	28-Apr-17	02-May-17	100%	0%	-46											
A55650	Waterproofing & water test	18	04-Mar-17	24-Mar-17	04-May-17	24-May-17	100%	0%	-46											
A55660	Plastering & screening	7	25-Mar-17	01-Apr-17	25-May-17	02-Jun-17	100%	0%	-46											
A55710	Cat ladder installation	7	03-Apr-17	11-Apr-17	03-Jun-17	10-Jun-17	100%	0%	-46	55710										
B1/F - Pump Station																				
Builders' Work																				
A55670	Complete Concrete Plinth	0		28-Feb-17	28-Apr-17	100%	0%	-46												
A55680	Blockwall	6	01-Mar-17	07-Mar-17	28-Apr-17	06-May-17	100%	0%	-46											
A55690	Plastering, screeding & Painting	10	08-Mar-17	18-Mar-17	08-May-17	18-May-17	100%	0%	-46											
A55700	Channel grating & railing installation	5	20-Mar-17	24-Mar-17	19-May-17	24-May-17	100%	0%	-46											
BS Installation																				
A55770	SPS - MEP 2nd fix	7	03-Apr-17	11-Apr-17	03-Jun-17	10-Jun-17	100%	0%	-46	55770										
A55780	SPS - Install Soil & Waste Water Pump Set	18	03-Apr-17	27-Apr-17	03-Jun-17	23-Jun-17	100%	0%	-46	55780										
A56610	SPS - Install Sewage Water Pump Set (3 nos.)	18	03-Apr-17	27-Apr-17	03-Jun-17	23-Jun-17	100%	0%	-46	56610										
Final Finishes																				
A55790	Apply floor sealer	3	28-Apr-17	02-May-17	24-Jun-17	27-Jun-17	0%	0%	-46		A55790									
A55800	Door & ironmongeries installation	5	04-May-17	09-May-17	28-Jun-17	04-Jul-17	0%	0%	-46		A55800									
A56580	Davit installation & GRP cover	5	04-May-17	09-May-17	28-Jun-17	04-Jul-17	0%	0%	-46		A56580									
CLP Meter Cabinet Room																				
Builders' Work																				
A31920	CLP Cabinet Room - Plastering & screeding	7	27-Feb-17	06-Mar-17	28-Apr-17	08-May-17	100%	0%	-48											
A31930	CLP Cabinet Room - Apply paint on ceiling & wall	3	07-Mar-17	09-Mar-17	09-May-17	11-May-17	100%	0%	-48											
A31950	CLP Cabinet Room - Sealer on floor	3	10-Mar-17	13-Mar-17	12-May-17	15-May-17	100%	0%	-48											
BS Installation																				
A31960	Install CLP Electrical Meter Cabinet	7	14-Mar-17	21-Mar-17	16-May-17	23-May-17	100%	0%	-48											
A31970	Inspection for Handover to CLP	7	22-Mar-17	29-Mar-17	24-May-17	01-Jun-17	100%	0%	-48											
A31980	CLP Meter Installation and T&C	21	30-Mar-17	19-Apr-17	02-Jun-17	22-Jun-17	100%	0%	-64											
A31990	CLP Permanent Power-On	0	15-May-17	15-May-17	22-Jun-17	22-Jun-17	0%	0%	-32											
A32040	Ready for Power Energization	0	15-May-17	15-May-17	22-Jun-17	22-Jun-17	0%	0%	-32											
Final Finishes																				
A31940	CLP Cabinet Room - Install doors, grated drains, & Misc. Items	3	20-Apr-17	22-Apr-17	23-Jun-17	26-Jun-17	100%	0%	-52		A31940									
LV Switch Room																				
Builders' Work																				
A56140	Plastering & screeding	7	27-Feb-17	06-Mar-17	28-Apr-17	08-May-17	100%	0%	-48											
BS Installation																				
A32050	SPS - MEP 2nd fix	6	07-Mar-17	13-Mar-17	09-May-17	15-May-17	100%	0%	-48											
A32060	SPS - Install LV Main Distribution Board	21	14-Mar-17	07-Apr-17	16-May-17	09-Jun-17	100%	0%	-48											
A56550	SPS - Setup LV Main Distribution Board & SAT	6	08-Apr-17	18-Apr-17	10-Jun-17	16-Jun-17	100%	0%	-48	A56550										
Final Finishes																				
A56150	Apply paint coating on ceiling & wall	7	19-Apr-17	26-Apr-17	17-Jun-17	24-Jun-17	100%	0%	-48		A56150									
A56160	Apply floor sealer	3	27-Apr-17	29-Apr-17	26-Jun-17	28-Jun-17	33.33%	0%	-48		A56160									
A56170	Door & ironmongeries installation	5	02-May-17	08-May-17	29-Jun-17	05-Jul-17	0%	0%	-48		A56170									
Fire Control Centre																				
Builders' Work																				
A56040	Plastering & screeding	6	27-Feb-17	04-Mar-17	28-Apr-17	06-May-17	100%	0%	-48											
BS Installation																				
A56050	SPS - MEP 2nd & Final Fix for Fire Control Centre	14	06-Mar-17	21-Mar-17	08-May-17	23-May-17	100%	0%	-48											
Final Finishes																				
A56060	Apply paint coating on ceiling & wall	5	22-Mar-17	27-Mar-17	24-May-17	29-May-17	100%	0%	-48											
A56070	Apply sealer on floor	3	28-Mar-17	30-Mar-17	31-May-17	02-Jun-17	100%	0%	-48											
A56080	Door & ironmongeries installation	3	28-Mar-17	30-Mar-17	31-May-17	02-Jun-17	100%	0%	-48											
FS Pump Room																				
Builders' Work																				
A55990	Plastering & screeding	5	27-Feb-17	03-Mar-17	22-Apr-17	04-May-17	100%	20%	-47											
BS Installation																				
A32180	SPS - MEP 2nd Fix (P&D, FS, MVAC, EL, ELV) + Testing & Commissioning (T&C)	10	04-Mar-17	15-Mar-17	05-May-17	23-Aug-17	100%	0%	-130											
A32190	SPS - Install FS Pump Set & SAT	30	16-Mar-17	24-Apr-17	15-May-17	19-Jun-17	100%	0%	-45											
Final Finishes																				
A56000	Apply paint coating on ceiling & wall	4	25-Apr-17	28-Apr-17	20-Jun-17	23-Jun-17	75%	0%	-45		A56000									
A56010	Apply floor sealer	3	29-Apr-17	04-May-17	24-Jun-17	27-Jun-17	0%	0%	-45		A56010									
A56020	Door & ironmongeries installation	3	05-May-17	08-May-17	28-Jun-17	30-Jun-17	0%	0%	-45		A56020									
Sprinkler Pump Room																				
Builders' Work																				
A55940	Plastering & screeding	5	27-Feb-17	03-Mar-17	28-Apr-17	05-May-17	100%	0%	-48											
BS Installation																				
A32200	SPS - MEP 2nd Fix	10	04-Mar-17	15-Mar-17	06-May-17	17-May-17	100%	0%	-48											
A32210	SPS - Install Sprinkler Pump Set & SAT	30	16-Mar-17	24-Apr-17	18-May-17	22-Jun-17	100%	0%	-48											
Final Finishes																				
A55950	Apply paint coating on ceiling & wall	4	25-Apr-17	28-Apr-17	23-Jun-17	27-Jun-17	75%	0%	-48		A55950									
A55960	Apply floor sealer	3	29-Apr-17	04-May-17	28-Jun-17	30-Jun-17	0%	0%	-48		A55960									
A55970	Door & ironmongeries installation	3	05-May-17	08-May-17	03-Jul-17	05-Jul-17	0%	0%	-48		A55970									
Fan Room																				
Builders' Work																				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A56090	Complete Concrete Plinth	0		25-Feb-17		28-Apr-17	100%	0%	-48		Complete Concrete Plinth			
A56100	Plastering & screeding	6	27-Feb-17	04-Mar-17	28-Apr-17	06-May-17	100%	0%	-48		Plastering & screeding			
BS Installation														
A56530	SPS - Install Fans (2 nos.) & Equipment	30	06-Mar-17	10-Apr-17	08-May-17	12-Jun-17	100%	0%	-48				SPS - Install Fans (2 nos.) & Equipment	
A56540	SPS - MEP 2nd & final fix	6	11-Apr-17	20-Apr-17	13-Jun-17	19-Jun-17	100%	0%	-48	A56540			SPS - MEP 2nd & final fix	
Final Finishes														
A56110	Apply paint coating on ceiling & wall	4	21-Apr-17	25-Apr-17	20-Jun-17	23-Jun-17	100%	0%	-48		A56110			Apply paint coating on ceiling & wall
A56120	Apply floor sealer	3	26-Apr-17	28-Apr-17	24-Jun-17	27-Jun-17	66.67%	0%	-48		A56120			Apply floor sealer
A56130	Door & ironmongeries installation	3	26-Apr-17	28-Apr-17	24-Jun-17	27-Jun-17	66.67%	0%	-48		A56130			Door & ironmongeries installation
Pump Station Service Yard														
Builders' Work														
A55730	Blockwall	12	27-Feb-17	11-Mar-17	28-Apr-17	13-May-17	100%	0%	-48				Blockwall	
A55740	Plastering & screeding	10	13-Mar-17	23-Mar-17	15-May-17	25-May-17	100%	0%	-48				Plastering & screeding	
A55750	Channel grating & trench cover installation	7	24-Mar-17	31-Mar-17	26-May-17	03-Jun-17	100%	0%	-48				Channel grating & trench cover installation	
BS Installation														
A55760	SPS - MEP 2nd Fix for Pump Station Service Yard	14	01-Apr-17	21-Apr-17	05-Jun-17	20-Jun-17	100%	0%	-48	760			SPS - MEP 2nd Fix for Pump Station Service Yard	
Final Finishes														
A56490	Install roller shutter (for security)	7	11-Apr-17	21-Apr-17	13-Jun-17	20-Jun-17	100%	0%	-48	A56490			Install roller shutter (for security)	
A56500	Apply paint on ceiling & wall	10	22-Apr-17	05-May-17	21-Jun-17	03-Jul-17	50%	0%	-48		A56500			Apply paint on ceiling & wall
A56510	Apply floor sealer	5	06-May-17	11-May-17	04-Jul-17	08-Jul-17	0%	0%	-48		A56510			Apply floor sealer
A56520	Door & ironmongeries installation	3	12-May-17	15-May-17	10-Jul-17	12-Jul-17	0%	0%	-48		A56520			Door & ironmongeries installation
Cleansing & Flushing Water Tank Room														
Builders' Work														
A56190	Plastering & screeding	6	27-Feb-17	04-Mar-17	28-Apr-17	06-May-17	100%	0%	-48				Plastering & screeding	
A56200	Install glass-fibre water tank supporting frame	6	06-Mar-17	11-Mar-17	08-May-17	13-May-17	100%	0%	-48				Install glass-fibre water tank supporting frame	
BS Installation														
A32160	SPS - Install Pumps, Valves & Equipment	36	06-Mar-17	20-Apr-17	08-May-17	19-Jun-17	100%	0%	-48				SPS - Install Pumps, Valves & Equipment	
A32170	SPS - Install Water Tank, Pipeworks & Testing	36	13-Mar-17	27-Apr-17	15-May-17	26-Jun-17	100%	0%	-48				SPS - Install Water Tank, Pipeworks & Testing	
Final Finishes														
A56210	Apply paint coating on ceiling & wall	7	28-Apr-17	08-May-17	27-Jun-17	05-Jul-17	0%	0%	-48		A56210			Apply paint coating on ceiling & wall
A56220	Apply floor sealer	3	09-May-17	11-May-17	06-Jul-17	08-Jul-17	0%	0%	-48		A56220			Apply floor sealer
A56230	Door & ironmongeries installation	3	09-May-17	11-May-17	06-Jul-17	08-Jul-17	0%	0%	-48		A56230			Door & ironmongeries installation
Sprinkler Tank														
A56240	Waterproofing & water test	12	16-Mar-17	29-Mar-17	28-Apr-17	13-May-17	100%	0%	-33				Waterproofing & water test	
A56250	Plaster work (inside tank)	8	30-Mar-17	08-Apr-17	15-May-17	23-May-17	100%	0%	-33				Plaster work (inside tank)	
A56260	Wall & floor tiling	8	10-Apr-17	21-Apr-17	24-May-17	02-Jun-17	100%	0%	-33	A56260			Wall & floor tiling	
A56270	Install Cat ladder & hatch cover	4	19-Apr-17	22-Apr-17	31-May-17	03-Jun-17	100%	0%	-33		A56270			Install Cat ladder & hatch cover
FS Tank														
A56280	Waterproofing & water test	12	16-Mar-17	29-Mar-17	28-Apr-17	13-May-17	100%	0%	-33				Waterproofing & water test	
A56290	Plaster work (inside tank)	8	30-Mar-17	08-Apr-17	15-May-17	23-May-17	100%	0%	-33				Plaster work (inside tank)	
A56300	Wall & floor tiling	8	10-Apr-17	21-Apr-17	24-May-17	02-Jun-17	100%	0%	-33	A56300			Wall & floor tiling	
A56310	Install Cat ladder & hatch cover	4	19-Apr-17	22-Apr-17	31-May-17	03-Jun-17	100%	0%	-33		A56310			Install Cat ladder & hatch cover
Accessible Unisex Toilet														
Builders' Work														
A56320	Waterproofing & water test	5	27-Feb-17	03-Mar-17	28-Apr-17	05-May-17	100%	0%	-48				Waterproofing & water test	
A56330	Protective screeding / floor screeding	2	04-Mar-17	06-Mar-17	06-May-17	08-May-17	100%	0%	-48				Protective screeding / floor screeding	
A56340	Wall & floor tiling	6	07-Mar-17	13-Mar-17	09-May-17	15-May-17	100%	0%	-48				Wall & floor tiling	
A56350	Gypsum/cement board ceiling framework & close-up	6	14-Mar-17	20-Mar-17	16-May-17	22-May-17	100%	0%	-48				Gypsum/cement board ceiling framework & close-up	
BS Installation														
A56360	SPS - MEP 2nd Fix for Accessible Unisex Toilet	14	21-Mar-17	06-Apr-17	23-May-17	08-Jun-17	100%	0%	-48				SPS - MEP 2nd Fix for Accessible Unisex Toilet	
Final Finishes														
A56370	Apply Taping joint & painting on ceiling	4	07-Apr-17	11-Apr-17	09-Jun-17	13-Jun-17	100%	0%	-48	A56370			Apply Taping joint & painting on ceiling	
A56380	Sanitary wares & fitting installation	5	12-Apr-17	20-Apr-17	14-Jun-17	19-Jun-17	100%	0%	-48	A56380			Sanitary wares & fitting installation	
A56390	Door & ironmongeries installation	3	21-Apr-17	24-Apr-17	20-Jun-17	22-Jun-17	100%	0%	-48		A56390			Door & ironmongeries installation
A56400	Mirror installation	1	25-Apr-17	25-Apr-17	23-Jun-17	23-Jun-17	100%	0%	-48		A56400			Mirror installation
Corridor														
Builders' Work														
A31875	Blockwall	10	27-Feb-17	09-Mar-17	28-Apr-17	11-May-17	100%	0%	-48				Blockwall	
A31880	Plastering & screeding	7	10-Mar-17	17-Mar-17	12-May-17	19-May-17	100%	0%	-48				Plastering & screeding	
A31890	Wall tiling & Install chequered plate on floor	6	18-Mar-17	24-Mar-17	20-May-17	26-May-17	100%	0%	-48				Wall tiling & Install chequered plate on floor	
BS Installation														
A56180	SPS - MEP 2nd Fix for Corridor	14	25-Mar-17	11-Apr-17	27-May-17	13-Jun-17	100%	0%	-48				SPS - MEP 2nd Fix for Corridor	
Final Finishes														
A31910	FRP ceiling	7	12-Apr-17	22-Apr-17	14-Jun-17	21-Jun-17	100%	0%	-48	A31910			FRP ceiling	
A56410	Apply paint on ceiling & wall	7	24-Apr-17	02-May-17	22-Jun-17	29-Jun-17	57.14%	0%	-48		A56410			Apply paint on ceiling & wall
A56420	Door & ironmongeries installation	7	04-May-17	11-May-17	30-Jun-17	08-Jul-17	0%	0%	-48		A56420			Door & ironmongeries installation
Staircase														
Builders' Work														
A56430	Wall Plastering & screeding	7	16-Mar-17	23-Mar-17	28-Apr-17	08-May-17	100%	0%	-33				Wall Plastering & screeding	
A56440	Install handrail / balustrade	7	24-Mar-17	31-Mar-17	09-May-17	16-May-17	100%	0%	-33				Install handrail / balustrade	
BS Installation														
A56450	SPS - MEP 2nd Fix for Staircases	14	01-Apr-17	21-Apr-17	17-May-17	02-Jun-17	100%	0%	-33	450			SPS - MEP 2nd Fix for Staircases	
Final Finishes														
A56460	Floor tiling	6	22-Apr-17	28-Apr-17	03-Jun-17	09-Jun-17	83.33%	0%	-33		A56460			Floor tiling
A56470	Apply paint on ceiling & wall	7	29-Apr-17	09-May-17	10-Jun-17	17-Jun-17	0%	0%	-33		A56470			Apply paint on ceiling & wall

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
A56480	Install Door & ironmongeries	3	10-May-1	12-May-17	19-Jun-17	21-Jun-17	0%	0%	-33		A56480		Install Door & ironmongeries
SPS - External Envelope													
A32230	SPS - Erect steel frame for perforated corrugated cladding	12	13-Apr-17	29-Apr-17	20-May-17	05-Jun-17	83.33%	0%	-28	A32230		SPS - Erect steel frame for perforated corrugated cladding	
A32220	SPS - Install GRC Architectural Louvre & Bracket	7	13-Apr-17	24-Apr-17	20-May-17	29-May-17	100%	0%	-28	A32220		SPS - Install GRC Architectural Louvre & Bracket	
A56560	SPS - Install perforated corrugated cladding	12	02-May-1	16-May-17	27-Jun-17	11-Jul-17	0%	0%	-46	A56560		SPS - Install perforate	
A56570	SPS - Final Fix & Facade Final Cleaning	6	17-May-1	23-May-17	12-Jul-17	18-Jul-17	0%	0%	-46	A56570		SPS - Final	
SPS - Access Pavement													
A56590	SPS - Backfilling	2	05-May-1	06-May-17	14-Jun-17	15-Jun-17	0%	0%	-33	A56590		SPS - Backfilling	
A56600	SPS - Construct SPS access pavement	10	08-May-1	18-May-17	16-Jun-17	27-Jun-17	0%	0%	-33	A56600		SPS - Construct SPS access pavement	
SPS - Testing & Commissioning													
A32240	SPS - Testing and Commissioning	20	28-Apr-17	23-May-17	27-Jun-17	20-Jul-17	0%	0%	-48	A32240		SPS - Te	
SPS - Statutory Inspection													
FS Water													
A32290	SPS - Submit & Approval of Form WW046 (Part 4) to WSD (Final Report)	14	09-Apr-17	22-Apr-17	17-Jun-17	30-Jun-17	100%	0%	-69	A32290		SPS - Submit & Approval of Form WW	
A32300	SPS - Inspection and Approval by WSD	2	24-Apr-17	25-Apr-17	03-Jul-17	04-Jul-17	100%	0%	-56	A32300		SPS - Inspection and Approval b	
A32305	SPS - Water Sample (2 nos.) & Report Submission	10	26-Apr-17	05-May-17	05-Jul-17	14-Jul-17	20%	0%	-70	A32305		SPS - Water Sam	
A32310	SPS - Issuance of WW046 (Part 5) by WSD (Water Certificate)	14	06-May-1	19-May-17	15-Jul-17	28-Jul-17	0%	0%	-70	A32310			
Potable Water / Flushing Water													
A32360	SPS - Submit & Approval of Form WW046 (Part 4) to WSD	14	09-Apr-17	22-Apr-17	11-Jun-17	24-Jun-17	100%	0%	-63	A32360		SPS - Submit & Approval of Form WW046 (Par	
A32370	SPS - Inspection and Approval by WSD	2	24-Apr-17	25-Apr-17	26-Jun-17	27-Jun-17	100%	0%	-51	A32370		SPS - Inspection and Approval by WSD	
A32375	SPS - Water Sample (2 nos.) & Report Submission	10	26-Apr-17	05-May-17	28-Jun-17	07-Jul-17	20%	0%	-63	A32375		SPS - Water Sample (2 nos.	
A32380	SPS - Issuance of WW046 (Part 5) by WSD (Water Certificate)	14	06-May-1	19-May-17	08-Jul-17	21-Jul-17	0%	0%	-63	A32380		SPS - It	
A32390	SPS - Water Meter Connection (Plumbing) by WSD	4	20-May-1	23-May-17	22-Jul-17	25-Jul-17	0%	0%	-63	A32390		S	
FSD (Fire Services)													
A32392	SPS - Submission & Approval of Final Amendment Building Plan to BD/FSD	30	16-Mar-17	14-Apr-17	28-Apr-17	27-May-17	100%	0%	-43	A32392		SPS - Submission & Approval of Final Amendment Building Plan to BD/FSD	
A32405	SPS - FS direct link / FTNS available	7	24-May-1	31-May-17	01-Jun-17	08-Jun-17	0%	0%	-7	A32405		SPS - FS direct link / FTNS available	
A32394	SPS - VAC Submission to FSD & Approval	30	14-Apr-17	13-May-17	13-Jun-17	12-Jul-17	46.67%	0%	-60	A32394		SPS - VAC Submiss	
A32400	SPS - Submit Form 314 & 501 to FSD	0	16-May-1		13-Jul-17		0%	0%	-48	A32400		SPS - Submit Form	
ICP WORKS (Interfacing Car Park)													
Stage 2B													
Install waling and Strut at +1.5mPD for Sheet Pile Type A1													
A32880	Portion B10 - Install waling and Strut @ +1.5mPD	2	13-Feb-17	14-Feb-17	01-Mar-17	28-Apr-17	100%	50%	-59	A32880		Portion B10 - Install waling and Strut @ +1.5mPD, Portion B10 - Install waling and Strut @ +1.5mPD	
Stage 3													
ELS and Pile cap construction													
Portion B7													
A33040	Portion B7 - Construct remaining pile cap and grade beam	7	24-Feb-17	03-Mar-17	17-Mar-17	03-Apr-17 A	100%	100%	-25	A33040		Portion B7 - Construct remaining pile cap and grade beam	
Portion B8													
A33100	Portion B8 - 2nd layer lateral support Installation @ +1.0mPD	4	09-Mar-17	13-Mar-17	19-Jan-17	05-Apr-17 A	100%	100%	-18	A33100		Portion B8 - 2nd layer lateral support Installation @ +1.0mPD	
A33110	Portion B8 - Excavate to pile cap and grade beam formation level to -2.075mPD	2	14-Mar-17	15-Mar-17	01-Mar-17	12-Apr-17 A	100%	100%	-22	A33110		Portion B8 - Excavate to pile cap and grade beam formation level to -2.075mPD	
A33120	Portion B8 - Construct remaining pile cap and grade beam	6	16-Mar-17	22-Mar-17	06-Mar-17	24-Apr-17 A	100%	100%	-23	A33120		Portion B8 - Construct remaining pile cap and grade beam	
Portion B10													
A33200	Portion B10 - Construct remaining pile cap and grade beam	6	01-Apr-17	08-Apr-17	25-Mar-17	03-Apr-17 A	100%	100%	5	A33200		Portion B10 - Construct remaining pile cap and grade beam	
Portion B11													
A33260	Portion B11 - 2nd layer lateral support Installation @ +1.0mPD	4	12-Apr-17	19-Apr-17	17-Mar-17	05-Apr-17 A	100%	100%	10	A33260		Portion B11 - 2nd layer lateral support Installation @ +1.0mPD	
A33270	Portion B11 - Excavate to pile cap and grade beam formation level to -2.075mPD	2	20-Apr-17	21-Apr-17	10-Apr-17	12-Apr-17 A	100%	100%	6	A33270		Portion B11 - Excavate to pile cap and grade beam formation level to -2.075mPD	
A33280	Portion B11 - Construct remaining pile cap and grade beam	6	22-Apr-17	28-Apr-17	12-Apr-17	24-Apr-17 A	83.33%	100%	5	A33280		Portion B11 - Construct remaining pile cap and grade beam	
Portion B13													
A33440	Portion B13 - Construct remaining pile cap and grade beam	4	13-May-1	17-May-17	30-Mar-17	13-Apr-17 A	0%	100%	25	A33440		Portion B13 - Construct remaining pile cap and grade beam	
Secondary Beam and Bottom Slab Construction													
Portion B7													
A33600	Portion B7 - Lay under slab drainages, backfill, blinding & waterproofing	4	07-Mar-17	10-Mar-17	06-Apr-17	06-Apr-17 A	100%	100%	-21	A33600		Portion B7 - Lay under slab drainages, backfill, blinding & waterproofing	
A33630	Portion B7 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	9	14-Mar-17	23-Mar-17	06-Apr-17	10-Apr-17 A	100%	100%	-13	A33630		Portion B7 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	
A33640	Portion B7 - Cast concrete	1	24-Mar-17	24-Mar-17	11-Apr-17 A	11-Apr-17 A	100%	100%	-13	A33640		Portion B7 - Cast concrete	
Portion B8													
A33710	Portion B8 - Construct Manholes & Sump Pits	4	23-Mar-17	27-Mar-17	23-Feb-17	08-Apr-17 A	100%	100%	-9	A33710		Portion B8 - Construct Manholes & Sump Pits	
A33700	Portion B8 - Lay under slab drainages, backfill, blinding & waterproofing	4	23-Mar-17	27-Mar-17	10-Mar-17	07-Apr-17 A	100%	100%	-8	A33700		Portion B8 - Lay under slab drainages, backfill, blinding & waterproofing	
A33730	Portion B8 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	10	30-Mar-17	11-Apr-17	13-Mar-17	28-Apr-17 A	100%	100%	-11	A33730		Portion B8 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	
A33740	Portion B8 - Cast concrete	1	12-Apr-17	12-Apr-17	11-Apr-17 A	29-Apr-17 A	100%	100%	-11	A33740		Portion B8 - Cast concrete	
Portion B10													
A33800	Portion B10 - Lay under slab drainages, backfill, blinding & waterproofing	3	10-Apr-17	12-Apr-17	05-Apr-17	07-Apr-17 A	100%	100%	5	A33800		Portion B10 - Lay under slab drainages, backfill, blinding & waterproofing	
A33820	Portion B10 - BD Inspection & Approval for drainages	1	19-Apr-17	19-Apr-17	05-Apr-17	05-Apr-17 A	100%	100%	10	A33820		Portion B10 - BD Inspection & Approval for drainages	
A33830	Portion B10 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	9	20-Apr-17	29-Apr-17	05-Apr-17	10-Apr-17 A	77.78%	100%	15	A33830		Portion B10 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	
A33840	Portion B10 - Cast concrete	1	02-May-1	02-May-17	11-Apr-17 A	11-Apr-17 A	0%	100%	15	A33840		Portion B10 - Cast concrete	
Portion B11													
A33930	Portion B11 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	10	09-May-1	19-May-17	25-Apr-17	28-Apr-17 A	0%	100%	17	A33930		Portion B11 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	
A33940	Portion B11 - Cast concrete	1	20-May-1	20-May-17	29-Apr-17	29-Apr-17 A	0%	100%	17	A33940		Portion B11 - Cast concrete	
Portion B13													
A34110	Portion B13 - Construct Manholes & Sump Pits	2	18-May-1	19-May-17	01-Apr-17	05-Apr-17 A	0%	100%	34	A34110		Portion B13 - Construct Manholes & Sump Pits	
A34120	Portion B13 - BD Inspection & Approval for drainages	1	24-May-1	24-May-17	03-Apr-17	03-Apr-17 A	0%	100%	39	A34120		Portion B13 - BD Inspection & Approval for drainages	
A34130	Portion B13 - Cast blinding layer and rebar fixing for secondary beam and bottom slab	5	25-May-1	31-May-17	13-Apr-17	21-Apr-17 A	0%	100%	31	A34130		Portion B13 - Cast blinding layer and rebar fixing for secondary beam and bottom s	
A34140	Portion B13 - Cast concrete	1	01-Jun-17	01-Jun-17	22-Apr-17	22-Apr-17 A	0%	100%	31	A34140		Portion B13 - Cast concrete	
B1 Slab Construction (Phase 2) - Construct B2/F to B1/F CoLs, Walls & B1 Slab													
Portion A14													
A34250	Portion A14 - Construct B1 Slab	9	11-May-1	20-May-17	10-Mar-17	11-Apr-17 A	0%	100%	30	A34250		Portion A14 - Construct B1 Slab	
Portion A15													

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A34270	Portion A15 - Construct B1 Slab	9	11-May-1	20-May-17	13-Mar-17	21-Apr-17 A	0%	100%	24					
Portion B16														
A34280	Portion B16 - Columns & Walls Construction	12	27-Apr-17	12-May-17	20-Feb-17	27-Apr-17 A	8.33%	100%	12					
A34290	Portion B16 - Construct B1 Slab	8	13-May-1	22-May-17	10-Apr-17	28-Apr-17 A	0%	100%	19					
Portion B17														
A34300	Portion B17 - Columns & Walls Construction	11	26-Apr-17	10-May-17	22-Mar-17	24-Apr-17 A	18.18%	100%	13					
A34310	Portion B17 - Construct B1 Slab	7	11-May-1	18-May-17	05-Apr-17	28-Apr-17 A	0%	100%	16					
B1 Slab Construction (Phase 3) - Construct B2/F to B1/F Cols, Walls & B1 Slab and Remove Struts														
Portion A16														
A34330	Portion A16 - Construct B1 Slab	4	07-Apr-17	11-Apr-17	20-Mar-17	21-Apr-17 A	100%	100%	-5					
A34350	Portion A16 - Columns & Walls Construction (Deferred Area)	4	26-Apr-17	29-Apr-17	10-Apr-17	28-Apr-17	50%	90%	2					
A34360	Portion A16 - Construct B1 Slab (Deferred Area)	3	02-May-1	05-May-17	28-Apr-17	04-May-17	0%	0%	2					
A34340	Portion A6 - Removal of Lateral Support	2	24-Apr-17	25-Apr-17	29-Apr-17	02-May-17	100%	0%	-5					
Portion B18														
A34380	Portion B18 - Construct B1 Slab	4	08-Apr-17	12-Apr-17	06-Apr-17	21-Apr-17 A	100%	100%	-4					
A34400	Portion B18 - Columns & Walls Construction (Deferred Area)	3	27-Apr-17	29-Apr-17	17-Apr-17	28-Apr-17	33.33%	90%	2					
A34410	Portion B18 - Construct B1 Slab (Deferred Area)	3	02-May-1	05-May-17	28-Apr-17	04-May-17	0%	0%	2					
A34390	Portion B6 - Removal of Lateral Support	2	25-Apr-17	26-Apr-17	29-Apr-17	02-May-17	100%	0%	-4					
Portion A17														
A34430	Portion A17 - Construct B1 Slab	5	10-Apr-17	18-Apr-17	28-Mar-17	28-Apr-17	100%	90%	-9					
A34440	Portion A7 - Removal of Lateral Support	2	27-Apr-17	28-Apr-17	09-May-17	11-May-17	50%	0%	-9					
Portion B19														
A34450	Portion B19 - Columns & Walls Construction	6	31-Mar-17	07-Apr-17	12-Apr-17	28-Apr-17	100%	95%	-14					
A34460	Portion B19 - Construct B1 Slab	4	08-Apr-17	12-Apr-17	17-Apr-17	02-May-17	100%	40%	-12					
A34470	Portion B7 - Removal of Lateral Support	2	25-Apr-17	26-Apr-17	11-May-17	13-May-17	100%	0%	-12					
A34480	Portion B19 - Columns & Walls Construction (Deferred Area)	3	27-Apr-17	29-Apr-17	13-May-17	17-May-17	33.33%	0%	-12					
A34490	Portion B19 - Construct B1 Slab (Deferred Area)	3	02-May-1	05-May-17	17-May-17	20-May-17	0%	0%	-12					
Portion A18														
A34520	Portion A8 - Removal of Lateral Support	2	10-May-1	11-May-17	10-Apr-17	28-Apr-17	0%	75%	10					
A34540	Portion A18 - Construct B1 Slab (Deferred Area)	3	16-May-1	18-May-17	28-Apr-17	02-May-17	0%	0%	13					
Portion B20														
A34550	Portion B20 - Columns & Walls Construction	6	13-Apr-17	22-Apr-17	28-Apr-17	06-May-17	100%	0%	-10					
A34560	Portion B20 - Construct B1 Slab	4	24-Apr-17	27-Apr-17	08-May-17	11-May-17	100%	0%	-10					
A34570	Portion B8 - Removal of Lateral Support	2	09-May-1	10-May-17	20-May-17	22-May-17	0%	0%	-10					
Portion B21														
A34580	Portion B21 - Columns & Walls Construction	4	04-May-1	08-May-17	03-Apr-17	27-Apr-17 A	0%	100%	8					
A34590	Portion B21 - Construct B1 Slab	3	09-May-1	11-May-17	10-Apr-17	28-Apr-17 A	0%	100%	9					
A34600	Portion B9 - Removal of Lateral Support	2	20-May-1	22-May-17	09-May-17	10-May-17	0%	0%	10					
A34610	Portion B21 - Columns & Walls Construction (Deferred Area)	3	23-May-1	25-May-17	11-May-17	13-May-17	0%	0%	10					
A34620	Portion B21 - Construct B1 Slab (Deferred Area)	3	26-May-1	29-May-17	15-May-17	17-May-17	0%	0%	10					
Portion B22														
A34630	Portion B22 - Columns & Walls Construction	4	04-May-1	08-May-17	13-Apr-17	29-Apr-17	0%	50%	5					
A34640	Portion B22 - Construct B1 Slab	3	09-May-1	11-May-17	02-May-17	05-May-17	0%	0%	5					
A34650	Portion B10 - Removal of Lateral Support	2	20-May-1	22-May-17	15-May-17	16-May-17	0%	0%	5					
A34660	Portion B22 - Columns & Walls Construction (Deferred Area)	3	23-May-1	25-May-17	17-May-17	19-May-17	0%	0%	5					
A34670	Portion B22 - Construct B1 Slab (Deferred Area)	3	26-May-1	29-May-17	20-May-17	23-May-17	0%	0%	5					
Portion A19														
A34690	Portion A19 - Construct B1 Slab	4	31-May-1	03-Jun-17	13-Mar-17	11-Apr-17 A	0%	100%	41					
A34710	Portion A19 - Columns & Walls Construction (Deferred Area)	3	15-Jun-17	17-Jun-17	10-Apr-17	14-Apr-17 A	0%	100%	50					
A34700	Portion A9 - Removal of Lateral Support	2	13-Jun-17	14-Jun-17	28-Apr-17	29-Apr-17	0%	0%	36					
A34720	Portion A19 - Construct B1 Slab (Deferred Area)	3	19-Jun-17	21-Jun-17	28-Apr-17	02-May-17	0%	0%	41					
Portion B23														
A34730	Portion B23 - Columns & Walls Construction	5	22-May-1	26-May-17	28-Apr-17	05-May-17	0%	0%	18					
A34740	Portion B23 - Construct B1 Slab	3	27-May-1	31-May-17	06-May-17	09-May-17	0%	0%	18					
A34750	Portion B11 - Removal of Lateral Support	2	09-Jun-17	10-Jun-17	18-May-17	19-May-17	0%	0%	18					
Portion A20														
A34770	Portion A20 - Construct B1 Slab	3	05-Jun-17	07-Jun-17	14-Mar-17	11-Apr-17 A	0%	100%	44					
A34780	Portion A10 - Removal of Lateral Support	2	16-Jun-17	17-Jun-17	28-Apr-17	29-Apr-17	0%	0%	42					
Portion A21														
A34810	Portion A11 - Removal of Lateral Support	2	16-Jun-17	17-Jun-17	10-Apr-17	28-Apr-17	0%	75%	44					
A34830	Portion A21 - Construct B1 Slab (Deferred Area)	3	19-Jun-17	21-Jun-17	11-Apr-17 A	29-Apr-17	0%	50%	43					
Portion B24														
A34840	Portion B24 - Columns & Walls Construction	4	31-May-1	03-Jun-17	22-Mar-17	28-Apr-17	0%	90%	29					
A34850	Portion B24 - Construct B1 Slab	3	05-Jun-17	07-Jun-17	11-Apr-17 A	29-Apr-17	0%	40%	30					
A34860	Portion B12 - Removal of Lateral Support	2	16-Jun-17	17-Jun-17	10-May-17	12-May-17	0%	0%	31					
Portion B25														
A34870	Portion B25 - Columns & Walls Construction	5	02-Jun-17	07-Jun-17	24-Apr-17	04-May-17	0%	20%	28					
A34880	Portion B25 - Construct B1 Slab	3	08-Jun-17	10-Jun-17	05-May-17	08-May-17	0%	0%	28					
A34900	Portion B25 - Columns & Walls Construction (Deferred Area - Stage 1)	3	12-Jun-17	14-Jun-17	09-May-17	11-May-17	0%	0%	28					
A34910	Portion B25 - Construct B1 Slab (Deferred Area - Stage 1)	3	15-Jun-17	17-Jun-17	12-May-17	15-May-17	0%	0%	28					
A34890	Portion B13 - Removal of Lateral Support	2	20-Jun-17	21-Jun-17	17-May-17	18-May-17	0%	0%	29					
A34920	Portion B13 - Removal of Lateral Support	2	27-Jun-17	28-Jun-17	24-May-17	25-May-17	0%	0%	29					
Roof Slab (Portion A) - Construct B1/F to Roof Lvl Cols, Walls & Roof Slab														
Portion A22														
A34940	Portion A22 - Construct Roof Slab	10	01-Feb-17	11-Feb-17	27-Mar-17	06-May-17	100%	40%	-66					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

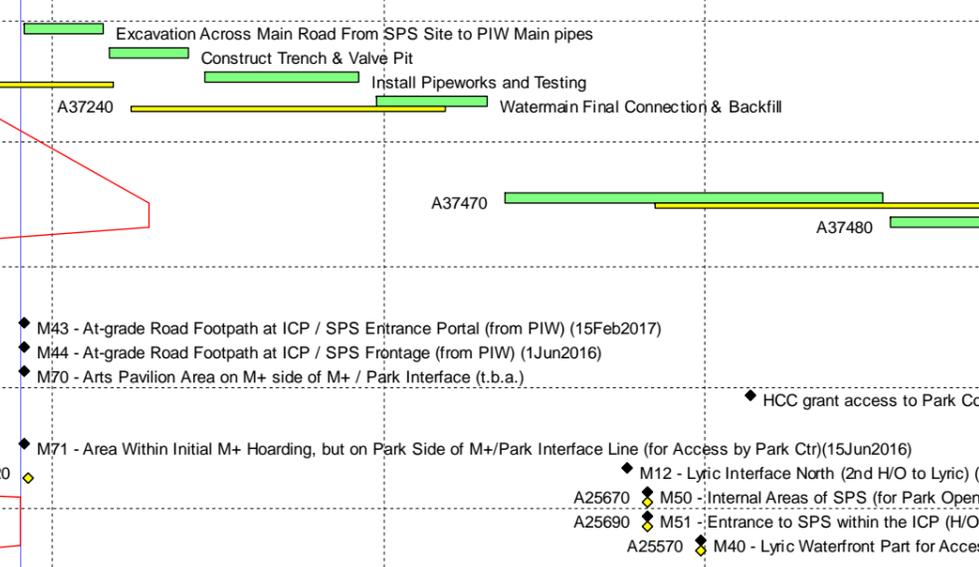
Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017					
										Apr 19	May 20	Jun 21	Jul 22		
Portion A23															
A34950	Portion A23 - Columns & Walls Construction	13	22-May-17	06-Jun-17	20-Feb-17	11-May-17	0%	30%	22						
A34960	Portion A23 - Construct Roof Slab	7	07-Jun-17	14-Jun-17	11-May-17	19-May-17	0%	0%	22						
Portion A24															
A34970	Portion A24 - Columns & Walls Construction	7	19-Apr-17	26-Apr-17	28-Apr-17	09-May-17	100%	0%	-9						
A34980	Portion A24 - Construct Roof Slab	4	27-Apr-17	02-May-17	09-May-17	13-May-17	25%	0%	-9						
Portion A25															
A34990	Portion A25 - Columns & Walls Construction	7	05-Jun-17	12-Jun-17	28-Apr-17	08-May-17	0%	0%	29						
A35000	Portion A25 - Construct Roof Slab	4	13-Jun-17	16-Jun-17	09-May-17	12-May-17	0%	0%	29						
Portion A26															
A35010	Portion A26 - Columns & Walls Construction	4	08-Jun-17	12-Jun-17	28-Apr-17	04-May-17	0%	0%	32						
A35020	Portion A26 - Construct Roof Slab	3	13-Jun-17	15-Jun-17	05-May-17	08-May-17	0%	0%	32						
Roof Slab (Portion B) - Construct B1/F to Roof Lvl Cols, Walls & Roof Slab															
Portion B26															
A35030	Portion B26 - Columns & Walls Construction	9	09-Feb-17	18-Feb-17	24-Apr-17	09-May-17	100%	20%	-61						
A35040	Portion B26 - Construct Roof Slab	6	20-Feb-17	25-Feb-17	09-May-17	16-May-17	100%	0%	-61						
Portion B27															
A35050	Portion B27 - Columns & Walls Construction	9	23-May-17	02-Jun-17	28-Apr-17	10-May-17	0%	0%	19						
A35060	Portion B27 - Construct Roof Slab	6	03-Jun-17	09-Jun-17	16-May-17	23-May-17	0%	0%	15						
Portion B28															
A35070	Portion B28 - Columns & Walls Construction	6	13-Apr-17	22-Apr-17	02-May-17	10-May-17	100%	0%	-12						
A35080	Portion B28 - Construct Roof Slab	5	24-Apr-17	28-Apr-17	10-May-17	16-May-17	80%	0%	-12						
Portion B29															
A35090	Portion B29 - Columns & Walls Construction	6	28-Apr-17	06-May-17	12-May-17	18-May-17	0%	0%	-10						
A35100	Portion B29 - Construct Roof Slab	4	08-May-17	11-May-17	19-May-17	23-May-17	0%	0%	-10						
Portion B30															
A35110	Portion B30 - Columns & Walls Construction	6	12-May-17	18-May-17	06-May-17	12-May-17	0%	0%	5						
A35120	Portion B30 - Construct Roof Slab	4	19-May-17	23-May-17	13-May-17	17-May-17	0%	0%	5						
Portion B31															
A35130	Portion B31 - Columns & Walls Construction	6	01-Jun-17	07-Jun-17	10-May-17	16-May-17	0%	0%	18						
A35140	Portion B31 - Construct Roof Slab	4	08-Jun-17	12-Jun-17	17-May-17	20-May-17	0%	0%	18						
Portion B32															
A35150	Portion B32 - Columns & Walls Construction	6	13-Jun-17	19-Jun-17	16-May-17	22-May-17	0%	0%	23						
A35160	Portion B32 - Construct Roof Slab	4	20-Jun-17	23-Jun-17	23-May-17	26-May-17	0%	0%	23						
Miscellaneous Structure Above Grd Slab / Roof Deck															
Gridline 1a - 5a / Fa-Ma															
A35170	Construct Vent Ducts / Staircases / Lift Shaft on Upper Roof	13	10-Jun-17	24-Jun-17	24-May-17	12-Jun-17	0%	0%	11						
A35180	SPS and ICP - Non-Deferred Access for Backfilling Works	0		14-Jul-17		30-Jun-17	0%	0%	10						
A35190	Diversion of Traffic and Hoarding modification	14	15-Jul-17	31-Jul-17	01-Jul-17	17-Jul-17	0%	0%	12						
Gridline 5a - 9a / Da-Ma															
A35200	Construct Vent Ducts & Staircases	8	16-Jun-17	24-Jun-17	09-May-17	26-May-17	0%	0%	24						
A35210	ICP - Completion of ICP Structure for Backfilling Works	0		26-Jun-17		26-May-17	0%	0%	20						
A35220	Diversion of Traffic and Hoarding modification	14	26-Jun-17	11-Jul-17	27-May-17	12-Jun-17	0%	0%	25						
Dismantle TC 5 & Infill openings															
A35230	Dismantle Tower Crane TC5	3	17-Jun-17	20-Jun-17	19-May-17	23-May-17	0%	0%	24						
A35240	Concrete In-Fill from Roof to B1/slab Openings	4	21-Jun-17	24-Jun-17	23-May-17	03-Jun-17	0%	0%	19						
ICP - ABWF Works															
B2 Slab Construction (Phase 1)															
Portion A12 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35250	Portion A12 - Preparation Works	1	25-Jan-17	25-Jan-17	28-Apr-17	28-Apr-17	100%	0%	-73						
A35260	Portion A12 - Granular Fill on Top of Pilecaps & Bottom slab	3	26-Jan-17	01-Feb-17	29-Apr-17	04-May-17	100%	0%	-73						
A35270	Portion A12 - Construct B2 Slab	6	02-Feb-17	08-Feb-17	05-May-17	11-May-17	100%	0%	-73						
Portion A13 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35280	Portion A13 - Preparation Works	1	08-Feb-17	08-Feb-17	28-Apr-17	28-Apr-17	100%	0%	-64						
A35290	Portion A13 - Granular Fill on Top of Pilecaps & Bottom slab	3	09-Feb-17	11-Feb-17	29-Apr-17	04-May-17	100%	0%	-64						
A35300	Portion A13 - Construct B2 Slab	6	13-Feb-17	18-Feb-17	05-May-17	11-May-17	100%	0%	-64						
Portion B14 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35310	Portion B14 - Preparation Works	1	08-Feb-17	08-Feb-17	28-Apr-17	28-Apr-17	100%	0%	-64						
A35320	Portion B14 - Granular Fill on Top of Pilecaps & Bottom slab	3	09-Feb-17	11-Feb-17	29-Apr-17	04-May-17	100%	0%	-64						
A35330	Portion B14 - Construct B2 Slab	6	13-Feb-17	18-Feb-17	05-May-17	11-May-17	100%	0%	-64						
Portion B15 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35340	Portion B15 - Preparation Works	1	06-Mar-17	06-Mar-17	28-Apr-17	28-Apr-17	100%	0%	-42						
A35350	Portion B15 - Granular Fill on Top of Pilecaps & Bottom slab	3	07-Mar-17	09-Mar-17	29-Apr-17	04-May-17	100%	0%	-42						
A35360	Portion B15 - Construct B2 Slab	6	10-Mar-17	16-Mar-17	05-May-17	11-May-17	100%	0%	-42						
B2 Slab Construction (Phase 2)															
Portion A14 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35370	Portion A14 - Preparation Works	1	16-Jun-17	16-Jun-17	11-May-17	11-May-17	0%	0%	30						
A35380	Portion A14 - Granular Fill on Top of Pilecaps & Bottom slab	3	17-Jun-17	20-Jun-17	12-May-17	15-May-17	0%	0%	30						
A35390	Portion A14 - Construct B2 Slab	6	21-Jun-17	27-Jun-17	16-May-17	22-May-17	0%	0%	30						
Portion A15 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35400	Portion A15 - Preparation Works	1	16-Jun-17	16-Jun-17	18-May-17	18-May-17	0%	0%	24						
A35410	Portion A15 - Granular Fill on Top of Pilecaps & Bottom slab	3	17-Jun-17	20-Jun-17	19-May-17	22-May-17	0%	0%	24						
A35420	Portion A15 - Construct B2 Slab	6	21-Jun-17	27-Jun-17	23-May-17	29-May-17	0%	0%	24						
Portion B16 - B2 Slab (200 thk) @ Lvl -0.05mPD															
A35430	Portion B16 - Preparation Works	1	17-Jun-17	17-Jun-17	25-May-17	25-May-17	0%	0%	19						

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A35440	Portion B16 - Granular Fill on Top of Pilecaps & Bottom slab	3	19-Jun-17	21-Jun-17	26-May-17	29-May-17	0%	0%	19					
A35450	Portion B16 - Construct B2 Slab	6	22-Jun-17	28-Jun-17	31-May-17	06-Jun-17	0%	0%	19					
Portion B17 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35460	Portion B17 - Preparation Works	1	14-Jun-17	14-Jun-17	25-May-17	25-May-17	0%	0%	16					
A35470	Portion B17 - Granular Fill on Top of Pilecaps & Bottom slab	3	15-Jun-17	17-Jun-17	26-May-17	29-May-17	0%	0%	16					
A35480	Portion B17 - Construct B2 Slab	6	19-Jun-17	24-Jun-17	31-May-17	06-Jun-17	0%	0%	16					
B2 Slab Construction (Phase 3)														
Portion A16 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35490	Portion A16 - Preparation Works	1	01-Jun-17	01-Jun-17	29-May-17	31-May-17	0%	0%	2					
A35500	Portion A16 - Granular Fill on Top of Pilecaps & Bottom slab	3	02-Jun-17	05-Jun-17	31-May-17	03-Jun-17	0%	0%	2					
A35510	Portion A16 - Construct B2 Slab	6	06-Jun-17	12-Jun-17	03-Jun-17	10-Jun-17	0%	0%	2					
Portion B18 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35520	Portion B18 - Preparation Works	1	18-Jul-17	18-Jul-17	19-Jun-17	19-Jun-17	0%	0%	24					
A35530	Portion B18 - Granular Fill on Top of Pilecaps & Bottom slab	3	19-Jul-17	21-Jul-17	20-Jun-17	22-Jun-17	0%	0%	24					
A35540	Portion B18 - Construct B2 Slab	6	22-Jul-17	28-Jul-17	23-Jun-17	29-Jun-17	0%	0%	24					
Portion A17 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35550	Portion A17 - Preparation Works	1	16-May-1	16-May-17	25-May-17	26-May-17	0%	0%	-9					
A35560	Portion A17 - Granular Fill on Top of Pilecaps & Bottom slab	3	17-May-1	19-May-17	26-May-17	31-May-17	0%	0%	-9					
A35570	Portion A17 - Construct B2 Slab	6	20-May-1	26-May-17	31-May-17	07-Jun-17	0%	0%	-9					
Portion B19 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35580	Portion B19 - Preparation Works	1	27-May-1	27-May-17	12-Jun-17	13-Jun-17	0%	0%	-12					
A35590	Portion B19 - Granular Fill on Top of Pilecaps & Bottom slab	3	29-May-1	01-Jun-17	13-Jun-17	16-Jun-17	0%	0%	-12					
A35600	Portion B19 - Construct B2 Slab	6	02-Jun-17	08-Jun-17	16-Jun-17	23-Jun-17	0%	0%	-12					
Portion A18 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35610	Portion A18 - Preparation Works	1	14-Jun-17	14-Jun-17	13-Jun-17	14-Jun-17	0%	0%	1					
A35620	Portion A18 - Granular Fill on Top of Pilecaps & Bottom slab	3	15-Jun-17	17-Jun-17	14-Jun-17	17-Jun-17	0%	0%	1					
A35630	Portion A18 - Construct B2 Slab	6	19-Jun-17	24-Jun-17	17-Jun-17	24-Jun-17	0%	0%	1					
Portion B20 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35640	Portion B20 - Preparation Works	1	25-May-1	25-May-17	07-Jun-17	07-Jun-17	0%	0%	-10					
A35650	Portion B20 - Granular Fill on Top of Pilecaps & Bottom slab	3	26-May-1	29-May-17	08-Jun-17	10-Jun-17	0%	0%	-10					
A35660	Portion B20 - Construct B2 Slab	6	31-May-1	06-Jun-17	12-Jun-17	17-Jun-17	0%	0%	-10					
Portion B21 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35670	Portion B21 - Preparation Works	1	24-Jun-17	24-Jun-17	13-Jun-17	13-Jun-17	0%	0%	10					
A35680	Portion B21 - Granular Fill on Top of Pilecaps & Bottom slab	3	26-Jun-17	28-Jun-17	14-Jun-17	16-Jun-17	0%	0%	10					
A35690	Portion B21 - Construct B2 Slab	6	29-Jun-17	06-Jul-17	17-Jun-17	23-Jun-17	0%	0%	10					
Portion B22 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35700	Portion B22 - Preparation Works	1	24-Jun-17	24-Jun-17	19-Jun-17	19-Jun-17	0%	0%	5					
A35710	Portion B22 - Granular Fill on Top of Pilecaps & Bottom slab	3	26-Jun-17	28-Jun-17	20-Jun-17	22-Jun-17	0%	0%	5					
A35720	Portion B22 - Construct B2 Slab	6	29-Jun-17	06-Jul-17	23-Jun-17	29-Jun-17	0%	0%	5					
Portion A19 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35730	Portion A19 - Preparation Works	1	18-Jul-17	18-Jul-17	29-May-17	29-May-17	0%	0%	41					
A35740	Portion A19 - Granular Fill on Top of Pilecaps & Bottom slab	3	19-Jul-17	21-Jul-17	31-May-17	02-Jun-17	0%	0%	41					
A35750	Portion A19 - Construct B2 Slab	6	22-Jul-17	28-Jul-17	03-Jun-17	09-Jun-17	0%	0%	41					
Portion B23 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35760	Portion B23 - Preparation Works	1	26-Jun-17	26-Jun-17	05-Jun-17	05-Jun-17	0%	0%	18					
A35770	Portion B23 - Granular Fill on Top of Pilecaps & Bottom slab	3	27-Jun-17	29-Jun-17	06-Jun-17	08-Jun-17	0%	0%	18					
A35780	Portion B23 - Construct B2 Slab	6	30-Jun-17	07-Jul-17	09-Jun-17	15-Jun-17	0%	0%	18					
Portion A20 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35790	Portion A20 - Preparation Works	1	04-Jul-17	04-Jul-17	11-May-17	11-May-17	0%	0%	44					
A35800	Portion A20 - Granular Fill on Top of Pilecaps & Bottom slab	3	05-Jul-17	07-Jul-17	12-May-17	15-May-17	0%	0%	44					
A35810	Portion A20 - Construct B2 Slab	6	08-Jul-17	14-Jul-17	16-May-17	22-May-17	0%	0%	44					
Portion A21 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35820	Portion A21 - Preparation Works	1	18-Jul-17	18-Jul-17	26-May-17	27-May-17	0%	0%	43					
A35830	Portion A21 - Granular Fill on Top of Pilecaps & Bottom slab	3	19-Jul-17	21-Jul-17	27-May-17	01-Jun-17	0%	0%	43					
A35840	Portion A21 - Construct B2 Slab	6	22-Jul-17	28-Jul-17	01-Jun-17	08-Jun-17	0%	0%	43					
Portion B24 - B2 Slab (200 thk) @ Lvl -0.05mPD														
A35850	Portion B24 - Preparation Works	1	04-Jul-17	04-Jul-17	26-May-17	27-May-17	0%	0%	30					
A35860	Portion B24 - Granular Fill on Top of Pilecaps & Bottom slab	3	05-Jul-17	07-Jul-17	27-May-17	01-Jun-17	0%	0%	30					
A35870	Portion B24 - Construct B2 Slab	6	08-Jul-17	14-Jul-17	01-Jun-17	08-Jun-17	0%	0%	30					
B2/F to B1/F ABWF and Fitout Works														
Portion A (Phase 1)														
A35930	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	40	28-Jun-17	14-Aug-17	23-May-17	10-Jul-17	0%	0%	30					
A35880	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	40	21-Feb-17	08-Apr-17	24-May-17	11-Jul-17	100%	0%	-73					
A35980	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	50	16-Jun-17	14-Aug-17	14-Jun-17	12-Aug-17	0%	0%	2					
A35940	Fitout Works - Internal Ceiling & Wall Painting	40	03-Aug-17	18-Sep-17	28-Jun-17	14-Aug-17	0%	0%	30					
A35990	Fitout Works - Internal Ceiling & Wall Painting	50	09-Aug-17	07-Oct-17	05-Jul-17	31-Aug-17	0%	0%	30					
A35890	Fitout Works - Internal Ceiling & Wall Painting	40	06-Apr-17	27-May-17	08-Jul-17	23-Aug-17	40%	0%	-73					
Portion B (Phase 3)														
A36030	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	40	10-Feb-17	28-Mar-17	28-Apr-17	16-Jun-17	100%	0%	-62					
A36040	Fitout Works - Internal Ceiling & Wall Painting	40	25-Mar-17	17-May-17	14-Jun-17	31-Jul-17	62.5%	0%	-62					
A36070	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	50	18-Jul-17	13-Sep-17	24-Jun-17	22-Aug-17	0%	0%	19					
A36110	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	50	16-Aug-17	14-Oct-17	19-Jul-17	14-Sep-17	0%	0%	24					
B1/F to Roof ABWF and Fitout Works														
Portion A														
Phase 1 & 2														

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A36150	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	60	08-Mar-17	23-May-17	01-Jun-17	10-Aug-17	66.67%	0%	-66					
A36160	Fitout Works - Internal Ceiling & Wall Painting	60	22-Apr-17	05-Jul-17	13-Jul-17	20-Sep-17	8.33%	0%	-66					
Phase 3														
A36190	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	60	08-Mar-17	23-May-17	01-Jun-17	10-Aug-17	66.67%	0%	-66					
A36200	Fitout Works - Internal Ceiling & Wall Painting	60	22-Apr-17	05-Jul-17	13-Jul-17	20-Sep-17	8.33%	0%	-66					
Portion B														
Phase 1 & 2														
A36230	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	75	02-May-17	31-Jul-17	15-Jul-17	13-Oct-17	0%	0%	-61					
ICP - Building Services														
B2/F Level														
Mechanical														
Zone 2														
A36370	ICP (MVAC) - B2/F Building Services (1st Fix)	40	21-Aug-17	07-Oct-17	26-Jul-17	09-Sep-17	0%	0%	22					
Plumbing & Drainage														
Zone 2														
A36410	ICP (P&D) - B2/F Building Services (1st Fix)	40	09-Aug-17	23-Sep-17	08-Jul-17	23-Aug-17	0%	0%	27					
Fire Services (Wet)														
Zone 2														
A36450	ICP (FS-Wet) - B2/F Building Services (1st Fix)	40	09-Aug-17	23-Sep-17	08-Jul-17	23-Aug-17	0%	0%	27					
Fire Services (Dry)														
Zone 2														
A36490	ICP (FS-Dry) - B2/F Building Services (1st Fix)	40	09-Aug-17	23-Sep-17	08-Jul-17	23-Aug-17	0%	0%	27					
B1/F Level														
CLP Works Leading to Energization / Power-On														
Electrical (B1/F) - Transformer Room (B128)														
A36650	CLP Transformer - Builders Works & BS Installation	21	27-Jun-17	21-Jul-17	13-Jun-17*	07-Jul-17	0%	0%	12					
A36660	Inspection for Handover to CLP	5	17-Jul-17	21-Jul-17	03-Jul-17	07-Jul-17	0%	0%	12					
A36670	CLP Transformer Installation Works	90	22-Jul-17	19-Oct-17	08-Jul-17	05-Oct-17	0%	0%	14					
Electrical (B1/F) - LV Switch room (B126)														
A36690	LV Switch room - Builders Works & BS Installation	30	16-Jun-17	21-Jul-17	08-Jun-17	14-Jul-17	0%	0%	7					
A36700	LV Switch room - Install LV Switch Board & Testing	45	22-Jul-17	12-Sep-17	14-Jul-17	05-Sep-17	0%	0%	7					
External Electrical Power and Lead-In Cable Ducts														
A36710	Construct (4x) 2.5x2.2x1.2m Electrical Draw Pits	36	27-Jun-17	08-Aug-17	13-Jun-17	25-Jul-17	0%	0%	12					
A36720	Install 12x150dia @ 2-Layers GI Ducts	36	11-Jul-17	21-Aug-17	26-Jun-17	07-Aug-17	0%	0%	12					
A36730	MV Cable Laying & Testing	30	04-Aug-17	07-Sep-17	21-Jul-17	24-Aug-17	0%	0%	12					
FS Plant Rooms (FS Pump Room and Security Room)														
A36830	FS Rooms - Builders Works & BS Installation	45	13-Jul-17	02-Sep-17	14-Jun-17	07-Aug-17	0%	0%	24					
A36840	FS Rooms - Install Pumps, Equipment & Cabinet	45	10-Aug-17	30-Sep-17	13-Jul-17	04-Sep-17	0%	0%	24					
Fire Services (Wet)														
Zone 1														
A36870	ICP (FS-Wet) - B1/F Building Services (1st Fix)	40	22-Apr-17	10-Jun-17	13-Jul-17	28-Aug-17	12.5%	0%	-66					
Fire Services (Dry)														
Zone 1														
A36910	ICP (FS-Dry) - B1/F Building Services (1st Fix)	40	22-Apr-17	10-Jun-17	13-Jul-17	28-Aug-17	12.5%	0%	-66					
ICP - External Envelope														
A36990	ICP - Install GRC Architectural Louvre & Bracket	40	26-Jun-17	11-Aug-17	13-Jun-17	29-Jul-17	0%	0%	11					
A37010	ICP - Install Facade Louvre Screen	40	26-Jun-17	11-Aug-17	13-Jun-17	29-Jul-17	0%	0%	11					
External Works														
SPS														
SPS - G/F External Utilities & Roadworks														
Grd Lvl - Watermain / FS Pipes Connection (Outside SPS) to PIW														
A37210	Excavation Across Main Road From SPS Site to PIW Main pipes	45	29-Dec-16	23-Feb-17	28-Apr-17*	05-May-17	100%	0%	-55					
A37220	Construct Trench & Valve Pit	16	24-Feb-17	14-Mar-17	06-May-17	13-May-17	100%	0%	-46					
A37230	Install Pipeworks and Testing	40	15-Mar-17	06-May-17	15-May-17	29-May-17	85%	0%	-19					
A37240	Watermain Final Connection & Backfill	25	08-May-17	06-Jun-17	31-May-17	10-Jun-17	0%	0%	-4					
ICP														
ICP - G/F External Utilities & Roadworks														
Works Above ICP at Portion B														
A37470	Portion B - Waterproofing & Backfilling	30	26-Jun-17	31-Jul-17	12-Jun-17	17-Jul-17	0%	0%	12					
A37480	Portion B - Above Slab Utilities & Fire Hydrant	30	01-Aug-17	04-Sep-17	18-Jul-17	21-Aug-17	0%	0%	12					
Co-ordinated External Works & Utilities Services Installation														
Interface Dates														
Access Dates														
A25000	M43 - At-grade Road Footpath at ICP / SPS Entrance Portal (from PIW) (15Feb2017)	0	03-Jan-17		28-Apr-17		100%	0%	-115					
A25010	M44 - At-grade Road Footpath at ICP / SPS Frontage (from PIW) (1Jun2016)	0	03-Jan-17		28-Apr-17		100%	0%	-115					
A25130	M70 - Arts Pavilion Area on M+ side of M+ / Park Interface (t.b.a.)	0	17-Dec-16		28-Apr-17		100%	0%	-132					
A27940	HCC grant access to Park Contractor for SM100 construction	0	28-Mar-17		05-Jul-17		100%	0%	-77					
Vacation Date														
A25840	M71 - Area Within Initial M+ Hoarding, but on Park Side of M+/Park Interface Line (for	0		16-Dec-16		28-Apr-17*	100%	0%	-132					
A25320	M12 - Lyric Interface North (2nd H/O to Lyric) (31Mar17)	0		28-Apr-17		23-Jun-17*	0%	0%	-56					
A25670	M50 - Internal Areas of SPS (for Park Opening) (25Jun2017)	0		25-Jun-17		25-Jun-17*	0%	0%	0					
A25690	M51 - Entrance to SPS within the ICP (H/O to Park) (25Jun2017)	0		25-Jun-17		25-Jun-17*	0%	0%	0					
A25570	M40 - Lyric Waterfront Part for Access Around ESS Compound (H/O to Lyric) (30Jun2017)	0		30-Jun-17		30-Jun-17*	0%	0%	0					
Interface Schedule (Appendix D1 - 16 December 2015)														
Lyric Theatre Complex and Extended Basement (Lyric)														



Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017					
										Apr 19	May 20	Jun 21	Jul 22		
Along Interface North of AEL															
A25950	Complete excavation north of AEL for B2/F slab and vacate M12	0		16-Dec-16		28-Apr-17*	100%	0%	-103						
A25960	Take possession of M12 for external wall construction (30 Nov 2016)	0	13-Jan-17		28-Apr-17		100%	0%	-83						
A25970	Vacate M12 permanently (31 Mar 2017)	0		28-Apr-17		23-Jun-17	0%	0%	-45						
Along Interface South of AEL															
DCS Basement Area															
A26050	Complete the staircase and external wall and vacate M15 (Refer to M+Podium Structu	0		10-May-17		10-May-17*	0%	0%	0						
PIW Phase 1															
M+ North West Boundary Interface with Construction At-Grade Road by PIW															
A26160	Remove the hoarding along footway & vacate footway	0		08-Jul-17		08-Jul-17*	0%	0%	0						
ICP & SPS Interface with PIW At-Grade Road															
A26170	Remove the hoarding along footway & vacate footway	0		14-Aug-17		08-Jul-17*	0%	0%	31						
M+ Portal Road Interface PIW at Grade Road															
A26180	Access Portion M43	0	03-Jan-17		28-Apr-17		100%	0%	-92						
M+ Drain Connection to PIW Drainage MH WHC6_1f															
A26190	Commencement of drainage work for WHC6_1f	0	06-Jan-17		28-Apr-17*		100%	0%	-89						
A26200	Complete of drainage work for WHC6_1f	0		10-Feb-17		02-Jun-17*	100%	0%	-89						
Towngas Interface PIW															
DN150 incoming gas main at Entrance Portal (CIV-DWG-0403)															
A26210	Complete Entrance Portal RC Structure	0	03-Apr-17		28-Apr-17*		100%	0%	-18						
A26220	Excavate Trench & Install Shoring for Gas Main @ Footway (To be coordinated with P	6	03-Apr-17	10-Apr-17	28-Apr-17	06-May-17	100%	0%	-18						
A26230	Allow Towngas to install gas main (By Towngas)	6	11-Apr-17	20-Apr-17	08-May-17	13-May-17	100%	0%	-18						
A26240	Backfill Trench to Ground Levels	3	21-Apr-17	24-Apr-17	15-May-17	17-May-17	100%	0%	-18						
DN150 incoming gas main for RDE (CIV-DWG-0404)															
A26250	Excavate Trench & Install Shoring for Gas Main @ Footway (To be coordinated with P	6	05-Apr-17	11-Apr-17	12-Jul-17	18-Jul-17	100%	0%	-77						
A26260	Allow Towngas to install gas main (By Towngas)	6	12-Apr-17	21-Apr-17	19-Jul-17	25-Jul-17	100%	0%	-77						
A26270	Backfill Trench to Ground Levels	3	22-Apr-17	25-Apr-17	26-Jul-17	28-Jul-17	100%	0%	-77						
M+ Road Interface with PIW															
A26310	Allow Access to PIW to construct traffic signal draw pits, controller, signal poles & Ca	0	03-Apr-17		28-Apr-17		100%	0%	-18						
Seawater Cooling Intake Pipes Interface PIW															
A26320	Allow Access to PIW to lay utilities over the Seawater Cooling Intake	0	16-May-17		21-Jun-17*		0%	0%	-30						
A26330	PIW complete lay utilities over Seawater Cooling Intake (To be coordinate with PIW)	0		13-Jun-17		19-Jul-17	0%	0%	-30						
Civil Works Interface with PIW Watermain South of M+															
KGO Cooling Main Diversion															
A26360	Allow access to PIW Contractor to complete KGO Cooling Main Diversion	0	01-Apr-17		28-Apr-17*		100%	0%	-19						
Park															
Sewage Interface w/ Park PIW (SW of M+ & ICP SPS)															
A26430	Complete Laying Sewer Pipe DN300 from F2.1E to SM19	0		20-Mar-17		26-Jun-17	100%	0%	-77						
A26440	Complete Laying Sewer Pipe DN450 to Park Contractor MH SM13	0		17-Aug-17		18-Jul-17	0%	0%	26						
A26450	Complete drain test & Handover to DSD (3 months prior to KD03 of Park Contract) (22	0		17-Aug-17		18-Jul-17	0%	0%	26						
SPS & Interface Carpark Interface w/ Park															
A26460	SPS Complete Meter Cabinet for power supply for T&C	0		15-May-17		22-Jun-17	0%	0%	-32						
A26500	Complete Access Road to SPS for FS Inspection (Park above ICP)	0		18-May-17		27-Jun-17	0%	0%	-33						
A26470	SPS Test & Commissioning Complete	0		23-May-17		20-Jul-17	0%	0%	-48						
Telecoms Interface w/ Park PIW (W of M+)															
A26520	Allow Access to Park Contractor to connect ICT Cable Ducts to M+ Draw-pit	0	17-Dec-16		28-Apr-17		100%	0%	-103						
A26530	Allow Access to Park Contractor to connect ELV Cable Ducts to M+ Draw-pit	0	17-Dec-16		28-Apr-17		100%	0%	-103						
A26540	Allow Access to Park Contractor to construct & connect FTNS Cable Ducts at M+ GL	0	17-Dec-16		28-Apr-17		100%	0%	-103						
CLP															
A26550	Handover M+ - Transformer Room Trx A to CLP	0		06-Apr-17		28-Apr-17*	100%	0%	-21						
A26560	Handover M+ - Transformer Room Trx B to CLP	0		03-Mar-17		28-Apr-17*	100%	0%	-55						
A26580	Handover RDE - Transformer Room to CLP	0		06-Apr-17		28-Apr-17*	100%	0%	-21						
A27785	Handover SPS - Meter Cabinet to CLP	0	30-Mar-17		02-Jun-17		100%	0%	-64						
A27780	Handover ICP - Transformer Room to CLP	0	22-Jul-17		08-Jul-17		0%	0%	14						
Construction															
Seawater Outfall Pipe															
Submissions & Approval															
A26620	RSS Review & Approve Trench Detail Design and Method Statement	109	12-Aug-16	20-Dec-16	12-Aug-16	04-May-17	100%	97%	-103						
A26600	BD Review & Approve ELS Design	87	08-Sep-16	21-Dec-16	08-Sep-16	05-May-17	100%	95%	-103						
Construction at CH0+66 to CH0+108															
Trench Excavation & Pipe works (CH0+66 to CH0+102)															
A26660	Install Strut & Wailing @ +3.5mPD	12	17-Dec-16	03-Jan-17	28-Apr-17	13-May-17	100%	0%	-103						
A26670	Trench Excavation@+3.0mPD to Final excavation Lvl	3	04-Jan-17	06-Jan-17	15-May-17	17-May-17	100%	0%	-103						
A26680	Pipe Laying & Associated Works	6	07-Jan-17	13-Jan-17	18-May-17	24-May-17	100%	0%	-103						
A26690	Construct Bend Blocks	6	14-Jan-17	20-Jan-17	25-May-17	01-Jun-17	100%	0%	-103						
A26700	Pressure Test	6	21-Jan-17	27-Jan-17	02-Jun-17	08-Jun-17	100%	0%	-103						
A26710	Back Filling to Struts & Wailing Lvl	6	01-Feb-17	07-Feb-17	09-Jun-17	15-Jun-17	100%	0%	-103						
A26720	Dismantle Struts & Wailing	3	08-Feb-17	10-Feb-17	16-Jun-17	19-Jun-17	100%	0%	-103						
A26730	Back Filling to GL	6	11-Feb-17	17-Feb-17	20-Jun-17	26-Jun-17	100%	0%	-103						
A26740	Extract Sheetpiles	3	18-Feb-17	21-Feb-17	27-Jun-17	29-Jun-17	100%	0%	-103						
Construct Cofferdam & Pipe works for Lead In (CH0+102 to CH0+108)															
A26750	Drive in Sheetpiles (Cofferdam) @ 18m depth	9	22-Dec-16	04-Jan-17	05-May-17	16-May-17	100%	0%	-103						
A26760	Curtain Grouting (where required)	12	05-Jan-17	18-Jan-17	16-May-17	31-May-17	100%	0%	-103						
A26770	Dewatering	1	19-Jan-17	19-Jan-17	31-May-17	01-Jun-17	100%	0%	-103						
A26780	ELS Excavation (Cofferdam)@GL +5.0mPD to +3.0mPD	3	20-Jan-17	23-Jan-17	01-Jun-17	05-Jun-17	100%	0%	-103						

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
A26790	Install 1st Layer Strut & Wailing (Cofferdam) @ +3.5mPD	6	24-Jan-17	02-Feb-17	05-Jun-17	12-Jun-17	100%	0%	-103				Install 1st Layer Strut & Wailing (Cofferdam) @ +3.5mPD
A26800	ELS Excavation (Cofferdam)@+3.0mPD to +0.275mPD	3	03-Feb-17	06-Feb-17	12-Jun-17	15-Jun-17	100%	0%	-103				ELS Excavation (Cofferdam)@+3.0mPD to +0.275mPD
A26810	Install 2nd Layer Strut & Wailing (Cofferdam) @ +0.775mPD	6	07-Feb-17	13-Feb-17	15-Jun-17	22-Jun-17	100%	0%	-103				Install 2nd Layer Strut & Wailing (Cofferdam) @ +0.775mPD
A26820	ELS Excavation (Cofferdam)@+0.275mPD to -2.45mPD	3	14-Feb-17	16-Feb-17	22-Jun-17	26-Jun-17	100%	0%	-103				ELS Excavation (Cofferdam)@+0.275mPD to -2.45mPD
A26830	Install 3rd Layer Strut & Wailing (Cofferdam) @ -1.95mPD	6	17-Feb-17	23-Feb-17	26-Jun-17	04-Jul-17	100%	0%	-103				Install 3rd Layer Strut & Wailing (Cofferdam) @ -1.95mPD
A26840	ELS Excavation Final (Cofferdam)@ -2.45mPD to -3.70mPD	3	24-Feb-17	27-Feb-17	04-Jul-17	07-Jul-17	100%	0%	-103				ELS Excavation Final (Cofferdam)@ -2.45mPD to -3.70mPD
A26850	Pipe Laying & Associated Works	4	28-Feb-17	03-Mar-17	07-Jul-17	12-Jul-17	100%	0%	-103				Pipe Laying & Associated Works
A26860	Construct 2 Nos of Bend Block	6	04-Mar-17	10-Mar-17	12-Jul-17	19-Jul-17	100%	0%	-103				Construct 2 Nos of Bend Block
A26870	Construct Valve Chamber	10	11-Mar-17	22-Mar-17	19-Jul-17	31-Jul-17	100%	0%	-103				Construct Valve Chamber
Construction at CH0+0 to CH66													
Trench Excavation & Pipe works CH0+32 to CH0+66													
A26960	Drive In Sheet Piles	9	22-Feb-17	03-Mar-17	30-Jun-17	11-Jul-17	100%	0%	-103				Drive In Sheet Piles
A26970	Trench Excavation	3	04-Mar-17	07-Mar-17	12-Jul-17	14-Jul-17	100%	0%	-103				Trench Excavation
A26980	Install 1st Layer of Struts & Wailing	12	08-Mar-17	21-Mar-17	15-Jul-17	28-Jul-17	100%	0%	-103				Install 1st Layer of Struts & Wailing
Trench Excavation & Pipe works CH0+0 to CH0+32													
A27100	Drive in Sheet Piles	9	22-Feb-17	03-Mar-17	30-Jun-17	11-Jul-17	100%	0%	-103				Drive in Sheet Piles
A27110	Trench @GL +5.0mPD to +4.0mPD	3	04-Mar-17	07-Mar-17	12-Jul-17	14-Jul-17	100%	0%	-103				Trench @GL +5.0mPD to +4.0mPD
A27120	Install 1st Layer Strut & Wailing@ +4.5mPD	12	08-Mar-17	21-Mar-17	15-Jul-17	28-Jul-17	100%	0%	-103				Install 1st Layer Strut & Wailing@ +4.5mPD
DCS Box (Portion M15&M16)													
A27270	Strip Formwork	1	17-Dec-16	17-Dec-16	28-Apr-17	28-Apr-17	100%	0%	-103				Strip Formwork
Seawater Intake Pipe Works													
A27370	Prepare & Submit Detailed Design and Modification Works to RSS	10	17-Dec-16	30-Dec-16	28-Apr-17	11-May-17	100%	0%	-103				Prepare & Submit Detailed Design and Modification Works to RSS
A27380	RSS Review & Approve Detail Design and Modification Works	12	31-Dec-16	14-Jan-17	12-May-17	25-May-17	100%	0%	-103				RSS Review & Approve Detail Design and Modification Works
Construction of Seawater Intake Pipe													
A27420	Excavate from G/F (+4.5mPD) to +2.0mPD	3	09-Mar-17	11-Mar-17	08-Mar-17	29-Apr-17	100%	60%	-37				Excavate from G/F (+4.5mPD) to +2.0mPD
A27430	Install UU Support	12	13-Mar-17	25-Mar-17	20-Mar-17	06-May-17	100%	50%	-30				Install UU Support
A27400	Install UU Supports	12	23-Jan-17	08-Feb-17	28-Apr-17	13-May-17	100%	0%	-75				Install UU Supports
A27440	Excavate from +2.0mPD to +0.3mPD	3	27-Mar-17	29-Mar-17	08-May-17	10-May-17	100%	0%	-30				Excavate from +2.0mPD to +0.3mPD
A27450	Lay DN600 Seawater Intake Pipes x 2	10	30-Mar-17	11-Apr-17	11-May-17	22-May-17	100%	0%	-30				Lay DN600 Seawater Intake Pipes x 2
A27460	Lay DN100 Chlorination Pipe	10	30-Mar-17	11-Apr-17	11-May-17	22-May-17	100%	0%	-30				Lay DN100 Chlorination Pipe
A27470	Lay DN28 Cleansing Pipe	10	30-Mar-17	11-Apr-17	11-May-17	22-May-17	100%	0%	-30				Lay DN28 Cleansing Pipe
A27410	Drill holes, Inject Curtain Grout & backfill	24	09-Feb-17	08-Mar-17	15-May-17	12-Jun-17	100%	0%	-75				Drill holes, Inject Curtain Grout & backfill
A27480	Construct Thrust Blocks	10	12-Apr-17	26-Apr-17	23-May-17	03-Jun-17	100%	0%	-30				Construct Thrust Blocks
A27490	Pressure Testing and Inspection	6	27-Apr-17	05-May-17	05-Jun-17	10-Jun-17	16.67%	0%	-30				Pressure Testing and Inspection
A27500	Backfill to +2.0mPD	2	06-May-17	08-May-17	12-Jun-17	13-Jun-17	0%	0%	-30				Backfill to +2.0mPD
A27510	Remove Underground Utilities Support & Backfill up to +2.3mPD	6	09-May-17	15-May-17	14-Jun-17	20-Jun-17	0%	0%	-30				Remove Underground Utilities Support & Backfill up to +2.3mPD
A27520	Complete Pipeworks & Traffic Diversion	0		15-May-17		20-Jun-17	0%	0%	-30				Complete Pipeworks & Traffic Diversion
Sewerage													
Sewerage Interface with PIW & F2 Contractor													
Sewerage at Austin Road West (Portion L08)													
A27790	PIW Implement TTMS & Allow Access to Manhole F1.2 to HCC	0	01-Feb-17		28-Apr-17*		100%	0%	-70				PIW Implement TTMS & Allow Access to Manhole F1.2 to HCC
A27800	Excavate Trial Trench for UU within Austin Road West Area	12	01-Feb-17	14-Feb-17	28-Apr-17	13-May-17	100%	0%	-70				Excavate Trial Trench for UU within Austin Road West Area
A27810	Demolished Existing Planter	10	15-Feb-17	25-Feb-17	15-May-17	25-May-17	100%	0%	-70				Demolished Existing Planter
A27820	Excavate & Install Lateral Support	10	27-Feb-17	09-Mar-17	26-May-17	07-Jun-17	100%	0%	-70				Excavate & Install Lateral Support
A27830	Construct M+ Terminal Manhole F1.3A	6	10-Mar-17	16-Mar-17	08-Jun-17	14-Jun-17	100%	0%	-70				Construct M+ Terminal Manhole F1.3A
A27840	Lay down DN375 F1.3B to F1.3A to F1.2	3	17-Mar-17	20-Mar-17	15-Jun-17	17-Jun-17	100%	0%	-70				Lay down DN375 F1.3B to F1.3A to F1.2
A27850	Pressure Test	3	21-Mar-17	23-Mar-17	19-Jun-17	21-Jun-17	100%	0%	-70				Pressure Test
A27860	Back fill & Reinstate pavement / Reinstate Planter	9	24-Mar-17	03-Apr-17	22-Jun-17	03-Jul-17	100%	0%	-70				Back fill & Reinstate pavement / Reinstate Planter
A27870	HCC connect DN375 to F1.2	1	05-Apr-17	05-Apr-17	04-Jul-17	04-Jul-17	100%	0%	-70				HCC connect DN375 to F1.2
Sewerage adjacent to CLP Station (Portion L19)													
A27880	F2 (Gammon's) allow access to HCC at Portion L06	0	01-Feb-17		28-Apr-17*		100%	0%	-70				F2 (Gammon's) allow access to HCC at Portion L06
A27890	Excavate Trench and install shoring for sewer drain along CLP Station	14	01-Feb-17	16-Feb-17	28-Apr-17	16-May-17	100%	0%	-70				Excavate Trench and install shoring for sewer drain along CLP Station
A27900	Construct manholes F1.3C and F1.3B	10	17-Feb-17	28-Feb-17	17-May-17	27-May-17	100%	0%	-70				Construct manholes F1.3C and F1.3B
A27910	Lay down DN375 from F1.3C to F1.3B (approx. 39m)	7	01-Mar-17	08-Mar-17	29-May-17	06-Jun-17	100%	0%	-70				Lay down DN375 from F1.3C to F1.3B (approx. 39m)
A27920	Pressure Test	3	09-Mar-17	11-Mar-17	07-Jun-17	09-Jun-17	100%	0%	-70				Pressure Test
A27930	Backfill to adjacent ground level	8	13-Mar-17	21-Mar-17	10-Jun-17	19-Jun-17	100%	0%	-70				Backfill to adjacent ground level
Sewerage at Portion M01, Gridline A / 3-14													
MH F2.1B to MH F2.1A													
A27960	Completion of G/F Slab, Wall & Column at Portion A	0		17-Jan-17		28-Apr-17	100%	0%	-79				Completion of G/F Slab, Wall & Column at Portion A
A27970	Manhole & Trench Excavation for Sewerage Pipe between MH F2.1B to F2.1A	2	18-Jan-17	19-Jan-17	28-Apr-17	29-Apr-17	100%	0%	-79				Manhole & Trench Excavation for Sewerage Pipe between MH F2.1B to F2.1A
A27980	Construct Manhole F2.1A	6	20-Jan-17	26-Jan-17	02-May-17	09-May-17	100%	0%	-79				Construct Manhole F2.1A
A27990	Lay Sewerage Pipe DN300 between MH F2.1A to F2.1B (Approx. 25m)	4	20-Jan-17	24-Jan-17	02-May-17	06-May-17	100%	0%	-79				Lay Sewerage Pipe DN300 between MH F2.1A to F2.1B (Approx. 25m)
A28000	Lay & Connect Sewerage Pipe incoming from M+ to MH F2.1A	2	25-Jan-17	26-Jan-17	08-May-17	09-May-17	100%	0%	-79				Lay & Connect Sewerage Pipe incoming from M+ to MH F2.1A
A28010	Pressure Test	3	27-Jan-17	02-Feb-17	10-May-17	12-May-17	100%	0%	-79				Pressure Test
A28020	Backfill to ground level	4	03-Feb-17	07-Feb-17	13-May-17	17-May-17	100%	0%	-79				Backfill to ground level
MH F2.1C to MH F2.1B													
A28030	Manhole & Trench Excavation for Sewerage Pipe between MH F2.1C to F2.1B	2	27-Jan-17	01-Feb-17	10-May-17	11-May-17	100%	0%	-79				Manhole & Trench Excavation for Sewerage Pipe between MH F2.1C to F2.1B
A28040	Construct Manhole F2.1B & F2.1C	16	02-Feb-17	20-Feb-17	12-May-17	31-May-17	100%	0%	-79				Construct Manhole F2.1B & F2.1C
A28050	Lay Sewerage Pipe DN300 between MH F2.1C to F2.1B (Approx. 40m)	7	02-Feb-17	09-Feb-17	12-May-17	19-May-17	100%	0%	-79				Lay Sewerage Pipe DN300 between MH F2.1C to F2.1B (Approx. 40m)
A28060	Pressure test	3	21-Feb-17	23-Feb-17	01-Jun-17	03-Jun-17	100%	0%	-79				Pressure test
A28070	Backfill to ground level	5	24-Feb-17	01-Mar-17	05-Jun-17	09-Jun-17	100%	0%	-79				Backfill to ground level
MH F2.1D to MH F2.1C													
A28080	Completion of G/F Slab, Wall & Column at Portion E	0		22-Feb-17		28-Apr-17	100%	0%	-51				Completion of G/F Slab, Wall & Column at Portion E
A28090	Manhole & Trench Excavation for Sewerage Pipe between MH F2.1D to F2.1C	3	23-Feb-17	25-Feb-17	01-Jun-17	03-Jun-17	100%	0%	-77				Manhole & Trench Excavation for Sewerage Pipe between MH F2.1D to F2.1C
A28100	Construct Manhole F2.1D	10	27-Feb-17	09-Mar-17	05-Jun-17	15-Jun-17	100%	0%	-77				Construct Manhole F2.1D

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A28110	Lay Sewerage Pipe DN375 between MH F2.1D to F2.1C (Approx. 21m)	4	27-Feb-17	02-Mar-17	05-Jun-17	08-Jun-17	100%	0%	-77					
A28120	Lay & Connect Sewerage Pipe incoming from M+ to MH F2.1C	2	03-Mar-17	04-Mar-17	09-Jun-17	10-Jun-17	100%	0%	-77					
A28130	Pressure Test	3	10-Mar-17	13-Mar-17	16-Jun-17	19-Jun-17	100%	0%	-77					
A28140	Backfill to ground level	3	14-Mar-17	16-Mar-17	20-Jun-17	22-Jun-17	100%	0%	-77					
MH F2.1E to MH F2.1D														
A28150	Manhole & Trench Excavation for Sewerage Pipe between MH F2.1E to F2.1D	3	10-Mar-17	13-Mar-17	16-Jun-17	19-Jun-17	100%	0%	-77					
A28160	Construct Manholes F2.1E	6	14-Mar-17	20-Mar-17	20-Jun-17	26-Jun-17	100%	0%	-77					
A28170	Lay Sewerage Pipe between MH F2.1E to F2.1D (DN375mm) (Approx. 25m)	6	14-Mar-17	20-Mar-17	20-Jun-17	26-Jun-17	100%	0%	-77					
A28180	Pressure Test	3	21-Mar-17	23-Mar-17	27-Jun-17	29-Jun-17	100%	0%	-77					
A28190	Backfill to ground level	3	24-Mar-17	27-Mar-17	30-Jun-17	04-Jul-17	100%	0%	-77					
Sewerage at Portion M05 & M27														
A28250	Complete SPS Structure	0		15-Mar-17		28-Apr-17	100%	0%	-33					
A28240	Complete B1 Column, Wall & Slab at ICP Portion A21	0		21-Jun-17		29-Apr-17	0%	0%	43					
A28230	Complete B1 Column, Wall & Slab at ICP Portion A20	0		17-Jun-17		29-Apr-17	0%	0%	39					
A28210	Complete B1 Column, Wall & Slab at ICP Portion A18	0		18-May-17		02-May-17	0%	0%	13					
A28220	Complete B1 Column, Wall & Slab at ICP Portion A19	0		21-Jun-17		02-May-17	0%	0%	41					
MH SM22 to SM21T (DN450)														
A28260	Excavate & Lateral Support for Manhole SM22 & SM21T	3	16-Mar-17	18-Mar-17	03-Mar-17	28-Apr-17	100%	80%	-31					
A28270	Construct MH SM22 & SM21T	18	20-Mar-17	10-Apr-17	13-Mar-17	29-Apr-17	100%	90%	-14					
A28320	Backfill to formation level	2	21-Apr-17	22-Apr-17	28-Apr-17	29-Apr-17	100%	0%	-6					
MH SM21T to SM21														
A28330	Excavate & Lateral Support for Manhole SM21	2	22-Jun-17	23-Jun-17	04-May-17	05-May-17	0%	0%	41					
A28340	Construct MH SM21	12	24-Jun-17	08-Jul-17	06-May-17	19-May-17	0%	0%	41					
A28350	Trench Excavation & Lateral Support from SM21T to SM21	4	10-Jul-17	13-Jul-17	20-May-17	24-May-17	0%	0%	41					
A28360	Lay Sewerage Pipe DN450 between SM21T to SM21 (Approx. 28m)	5	14-Jul-17	19-Jul-17	25-May-17	31-May-17	0%	0%	41					
A28370	Backfill to formation level	1	20-Jul-17	20-Jul-17	01-Jun-17	01-Jun-17	0%	0%	41					
MH SM21 to SM21A														
A28380	Excavate & Lateral Support for Manhole SM21A	2	21-Jul-17	22-Jul-17	02-Jun-17	03-Jun-17	0%	0%	41					
A28390	Construct MH SM21A	12	24-Jul-17	05-Aug-17	05-Jun-17	17-Jun-17	0%	0%	41					
A28400	Trench Excavation & Lateral Support from SM21 to SM21A	1	07-Aug-17	07-Aug-17	19-Jun-17	19-Jun-17	0%	0%	41					
A28410	Lay Sewerage Pipe DN450 between SM21 to SM21A (Approx. 6m)	1	08-Aug-17	08-Aug-17	20-Jun-17	20-Jun-17	0%	0%	41					
A28420	Pressure Test	3	09-Aug-17	11-Aug-17	21-Jun-17	23-Jun-17	0%	0%	41					
A28430	Backfill to formation level	2	12-Aug-17	14-Aug-17	24-Jun-17	26-Jun-17	0%	0%	41					
MH SM21A to Interface MH SM13														
Submissions														
A28440	Prepare & Submit ELS Design to RSS for Approval	6	17-Dec-16	23-Dec-16	28-Apr-17	06-May-17	100%	0%	-103					
A28450	RSS Review & Approve ELS Design	12	24-Dec-16	10-Jan-17	08-May-17	20-May-17	100%	0%	-103					
Construction														
A28460	Drive In Sheetpiles	12	22-Jun-17	06-Jul-17	22-May-17	05-Jun-17	0%	0%	26					
A28470	Trench Excavation & Lateral Support from SM21A to SM13	18	07-Jul-17	27-Jul-17	06-Jun-17	26-Jun-17	0%	0%	26					
A28480	Lay Sewerage Pipe DN450 between SM21A to SM13 (Approx. 52m)	9	28-Jul-17	07-Aug-17	27-Jun-17	07-Jul-17	0%	0%	26					
A28490	Connect Pipe to Interfacing MH SM13 / Box out Pipe on MH13 Wall	1	08-Aug-17	08-Aug-17	08-Jul-17	08-Jul-17	0%	0%	26					
A28500	Pressure Test	3	09-Aug-17	11-Aug-17	10-Jul-17	12-Jul-17	0%	0%	26					
A28510	Backfill to formation level	5	12-Aug-17	17-Aug-17	13-Jul-17	18-Jul-17	0%	0%	26					
Rising Main														
SPS Pump Station														
ABF51850	Lay 2 Nos. DN200 Rising Main	8	12-Apr-17	24-Apr-17	12-Jun-17	20-Jun-17	100%	0%	-46					
Storm Drainage														
Storm Drain DN750 along Gridline A/3-11 (MH S2.4 to S2.6)														
A28520	Excavate to formation level	3	08-Feb-17	10-Feb-17	18-May-17	20-May-17	100%	0%	-79					
A28530	Construct Manhole S2.4 & S2.6	12	11-Feb-17	24-Feb-17	22-May-17	05-Jun-17	100%	0%	-79					
A28540	Lay DN700 pipe from Manholes S2.4 to S2.6 (Approx. 78m)	14	25-Feb-17	13-Mar-17	06-Jun-17	21-Jun-17	100%	0%	-79					
A28550	Pressure Test	3	14-Mar-17	16-Mar-17	22-Jun-17	24-Jun-17	100%	0%	-79					
A28560	Backfill to existing ground level	5	17-Mar-17	22-Mar-17	26-Jun-17	30-Jun-17	100%	0%	-79					
Storm Drain DN1050 along Gridline A/11-14 (MH S2.6 to S2.6A to S2.7 to S2.8)														
A28570	Excavate to formation level & install shoring	6	14-Mar-17	20-Mar-17	22-Jun-17	28-Jun-17	100%	0%	-79					
A28580	Construct Manhole S2.6a, S2.7 & S2.8	12	21-Mar-17	03-Apr-17	29-Jun-17	13-Jul-17	100%	0%	-79					
A28590	Lay DN1050 pipe from Manholes S2.6 to S2.6a to S2.7 to S2.8 (Approx. 45m)	7	05-Apr-17	12-Apr-17	14-Jul-17	21-Jul-17	100%	0%	-79					
A28600	Pressure Test	3	13-Apr-17	19-Apr-17	22-Jul-17	25-Jul-17	100%	0%	-79					
A28610	Backfill to existing ground level	5	20-Apr-17	25-Apr-17	26-Jul-17	31-Jul-17	100%	0%	-79					
Storm Drain DN1050 along Gridline A/14 (MH S2.8 to S2.9a to S2.9c)														
A28620	Excavate Trial Trench for existing underground utilities	12	13-Apr-17	29-Apr-17	22-Jul-17	04-Aug-17	83.33%	0%	-79					
Storm Drain DN600 along Gridline B-E/14 (MH S2.10 to S2.9c)														
A28970	Excavate Trial Trench	3	09-May-17	11-May-17	09-May-17*	11-May-17	0%	0%	0					
A28980	Excavate to Formation Level	3	12-May-17	15-May-17	12-May-17	15-May-17	0%	0%	0					
A28990	Lay DN600 Pipe from MHS2.10 to S2.9c (Approx 30m)	3	16-May-17	18-May-17	16-May-17	18-May-17	0%	0%	0					
A29000	Pressure Test	3	19-May-17	22-May-17	19-May-17	22-May-17	0%	0%	0					
A29010	Backfill to existing ground level	3	23-May-17	25-May-17	23-May-17	25-May-17	0%	0%	0					
Storm Drain DN400 suspended along Gridline J/1'-M/1														
Storm Drain at Portion M12														
A29080	External Wall @ gridline J/1'-6' (including Wall Finish) complete	0		11-Mar-17		10-May-17	100%	0%	-45					
A29090	Erect Working Platform	12	13-Mar-17	25-Mar-17	11-May-17	24-May-17	100%	0%	-45					
A29100	Install Brackets for Suspension Pipe	10	27-Mar-17	07-Apr-17	25-May-17	06-Jun-17	100%	0%	-45					
A29110	Install suspended vertical Rain Water Outlet DN150 - 4 nos	2	08-Apr-17	10-Apr-17	07-Jun-17	08-Jun-17	100%	0%	-45					
A29130	Lay horizontal suspended DN400 pipe (Approx. 120m)	12	08-Apr-17	25-Apr-17	07-Jun-17	20-Jun-17	100%	0%	-45					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A29120	Install suspended vertical Dringage DN100 - 5 nos	5	11-Apr-17	19-Apr-17	09-Jun-17	14-Jun-17	100%	0%	-45	A29120				
A29140	Pressure Test	3	26-Apr-17	28-Apr-17	21-Jun-17	23-Jun-17	66.67%	0%	-45		A29140			
A29150	Complete suspended Storm Drain at Portion M12	0		28-Apr-17		23-Jun-17	0%	0%	-45		A29150			
Storm Drain DN250 suspended along Gridline M/4-12														
Storm Drain at Portion M14														
A29250	Coordinate with Lyrics Contractor for temporary access to M14 (App-D1)	0	31-Mar-17		28-Apr-17*		100%	0%	-20					
Storm Drain DN600 at Portion M45														
Storm Drain along Gridline D-E/1'-2' (MH WHC6_1c to S3.4)														
A29390	Excavate trench for DN600 and install shoring	105	15-Aug-16	17-Dec-16	15-Aug-16	29-Apr-17	100%	99%	-103					
A29400	Lay DN600 pipe from WHC6_1c to MHS3.4 (Approx. 18m)	98	24-Aug-16	20-Dec-16	24-Aug-16	02-May-17	100%	97%	-104					
A29420	Backfill and reinstate pavement	95	26-Aug-16	19-Dec-16	26-Aug-16	29-Apr-17	100%	98%	-104					
A29380	Formation and Construct MH S3.4	8	17-Dec-16	28-Dec-16	28-Apr-17	09-May-17	100%	0%	-103					
A29410	Pressure Test	3	20-Dec-16	23-Dec-16	02-May-17	06-May-17	100%	0%	-104					
Storm Drain along Gridline E'-G' / 1'-2' (MH S3.4 to S3.3 to S3.2)														
A29430	Complete B1 Slab, Columns & Walls at GL F' to H' / 1'-3'	0		19-Jan-17		28-Apr-17	100%	0%	-77					
A29470	Formation & Lay DN600 pipe from S3.4 to S3.3 to S3.2 (Approx 7m)	3	20-Jan-17	23-Jan-17	28-Apr-17	02-May-17	100%	0%	-77					
A29440	Formation & Construct MH S3.3 & S3.2	10	20-Jan-17	03-Feb-17	28-Apr-17	11-May-17	100%	0%	-77					
A29450	Connect DN250 pipe x 3Nos to MH S3.3	1	03-Feb-17	03-Feb-17	11-May-17	11-May-17	100%	0%	-77					
A29460	Connect DN250 pipe x 2Nos to MH S3.2	1	03-Feb-17	03-Feb-17	11-May-17	11-May-17	100%	0%	-77					
A29480	Pressure Test	3	04-Feb-17	07-Feb-17	12-May-17	15-May-17	100%	0%	-77					
A29490	Backfill trench to Ground Level	0	08-Feb-17		16-May-17		100%	0%	-77					
Storm Drain DN450 at Portion M01														
Storm Drain along Gridline G'-J' / 1'-2' (MH S3.2 to S3.1 to S3.1b to S3.1a)														
A29500	Formation & Construct MH S3.1, S3.1b & S3.1a	15	08-Feb-17	24-Feb-17	16-May-17	02-Jun-17	100%	0%	-77					
A29540	Formation & Lay DN450 pipe from MH3.2 to S3.1a (Approx. 39m)	4	08-Feb-17	11-Feb-17	16-May-17	19-May-17	100%	0%	-77					
A29510	Connect DN200 pipe to MH S3.1	1	24-Feb-17	24-Feb-17	02-Jun-17	02-Jun-17	100%	0%	-77					
A29520	Connect DN200 pipe to MH S3.1b	1	24-Feb-17	24-Feb-17	02-Jun-17	02-Jun-17	100%	0%	-77					
A29530	Connect DN300 & DN400 pipe to MH S3.1a	1	24-Feb-17	24-Feb-17	02-Jun-17	02-Jun-17	100%	0%	-77					
A29550	Pressure Test	3	25-Feb-17	28-Feb-17	03-Jun-17	06-Jun-17	100%	0%	-77					
A29560	Backfill trench to Ground Level	2	01-Mar-17	02-Mar-17	07-Jun-17	08-Jun-17	100%	0%	-77					
Storm Drain DN375 at Portion M45														
Storm Drain along Gridline A-K' / 5' (S1.1 to S1.2 to WHC6_1e)														
A29610	Excavate trench for DN375 and install shoring	50	03-Nov-16	03-Jan-17	03-Nov-16	13-May-17	100%	76%	-103					
A29620	Construct Manhole S1.1 & S1.2	41	07-Nov-16	23-Dec-16	07-Nov-16	08-May-17	100%	85%	-103					
A29630	Lay down DN375 pipe between WHC6_1e to S1.1 to S1.2 (Approx.55m)	40	12-Nov-16	30-Dec-16	12-Nov-16	11-May-17	100%	75%	-103					
A29640	Pressure Test	29	16-Nov-16	19-Dec-16	16-Nov-16	29-Apr-17	100%	95%	-103					
A29650	Backfill and reinstate pavement	24	22-Nov-16	19-Dec-16	22-Nov-16	29-Apr-17	100%	92%	-103					
A29590	Excavate Trial Trench for existing Underground Utilities	14	17-Dec-16	05-Jan-17	28-Apr-17	16-May-17	100%	0%	-103					
A29600	Install support to existing underground Utilities	14	06-Jan-17	21-Jan-17	17-May-17	02-Jun-17	100%	0%	-103					
Storm Drain DN150 at Portion M04														
Storm Drain for MH WHC6_1f														
A29660	PIW allow access to WHC6_1f for M+ connection	0	06-Jan-17		28-Apr-17*		100%	0%	-89					
A29670	Fence off work area for DN150 storm drain excavation	1	06-Jan-17	06-Jan-17	28-Apr-17	28-Apr-17	100%	0%	-89					
A29680	Excavate Trial Trench fo existing Underground Utilities	14	06-Jan-17	21-Jan-17	28-Apr-17	16-May-17	100%	0%	-89					
A29690	Excavate trench for DN150 and install shoring	7	23-Jan-17	02-Feb-17	17-May-17	24-May-17	100%	0%	-89					
A29700	Lay down DN150 and connect to WHC6_1f (approx. 11m)	4	03-Feb-17	07-Feb-17	25-May-17	29-May-17	100%	0%	-89					
A29710	Backfill and reinstate pavement	3	08-Feb-17	10-Feb-17	31-May-17	02-Jun-17	100%	0%	-89					
Storm Drain DN300 at Portion M44 (MH6_2a.1 to DM65)														
Grd Lvl - Storm / Drainage Connection (Outside SPS)														
A37250	Sewerage - Construct 5x Manholes	60	17-Dec-16	03-Mar-17	13-Feb-17	06-May-17	100%	90%	-49					
A37260	Sewerage - Install 450 / 300 Storm Drainage Pipes & Testing	60	14-Jan-17	28-Mar-17	28-Apr-17	11-Jul-17	100%	0%	-82					
A37270	Sewerage - Install 2x200 dia Raising Main Pipes & Testing	60	14-Jan-17	28-Mar-17	28-Apr-17	11-Jul-17	100%	0%	-82					
A37280	Connect to Existing Storm Manholes & Backfill	45	21-Feb-17	18-Apr-17	05-Jun-17	27-Jul-17	100%	0%	-82					
Adjacent SPS to Center of At Grade Road														
A29790	Backfill, Extract Sheet Piles and Reinstale Pavement	6	04-Feb-17	10-Feb-17	03-Mar-17	29-Apr-17	100%	70%	-63					
Center of At Grade Road to MH_2a.1														
A38030	Excavate trial trench for existing underground utilities	6	13-Feb-17	18-Feb-17	29-Apr-17	09-May-17	100%	0%	-62					
A38025	Agreed with PIW dates for Pipe Laying	0		13-Feb-17		29-Apr-17*	100%	0%	-62					
A38040	Drive In Sheet Piles	3	20-Feb-17	22-Feb-17	09-May-17	12-May-17	100%	0%	-62					
A38050	Excavate to invert level and install struts	6	23-Feb-17	01-Mar-17	12-May-17	19-May-17	100%	0%	-62					
A38060	Laydown DN300 between MH6_2a.1 to Center of at Grade Road (Approx. 9m)	3	02-Mar-17	04-Mar-17	19-May-17	23-May-17	100%	0%	-62					
A38070	Pressure Test	3	06-Mar-17	08-Mar-17	23-May-17	26-May-17	100%	0%	-62					
A38080	Backfill, Extract Sheet Piles and Reinstale Pavement	6	09-Mar-17	15-Mar-17	26-May-17	03-Jun-17	100%	0%	-62					
Grd Lvl - External Storm Drainage Connection														
A37400	Storm drain Excavation Adjacent Main Road GL 5a-10a / Aa	16	17-Jun-17	06-Jul-17	13-May-17	01-Jun-17	0%	0%	29		A37400			
A37410	Construct Storm Water Manholes (SMH-01 & 02)	12	07-Jul-17	20-Jul-17	02-Jun-17	15-Jun-17	0%	0%	29		A37410			
A37420	Install Storm Drain Pipes & Testing	30	21-Jul-17	24-Aug-17	16-Jun-17	21-Jul-17	0%	0%	29			A37420		
A37430	Connect to Existing Storm Manholes & Backfill	16	25-Aug-17	12-Sep-17	22-Jul-17	09-Aug-17	0%	0%	29				A37430	
WSD														
Water Main Works at Portion M01 (Refer to M+ MEP Programme)														
A29800	PIW Contractor Allow Access to Portion M45 to HCC (IS Appendix D1, item 36, 31 Jul)	0	17-Dec-16		28-Apr-17*		100%	0%	-103					
A29810	Complete Master Meter Room Structure B1 Slab, Wall & Column (Refer to MICP)	0		21-Mar-17		28-Apr-17*	100%	0%	-28					
A29820	Remove existing hoarding fixed to Sheet pile	6	22-Mar-17	28-Mar-17	28-Apr-17	06-May-17	100%	0%	-28					
A29830	Install a new hoarding with 500mm clearance from roadside	6	29-Mar-17	05-Apr-17	08-May-17	13-May-17	100%	0%	-28					
A29840	Excavate Trench in footway to expose PIW watermain & Cut Down Sheet Piles	2	06-Apr-17	07-Apr-17	15-May-17	16-May-17	100%	0%	-28		A29840			

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A29850	Lay 2Nos of DN150 DI Fresh Water Pipe & 1 No of DN100 DI Salt Water Pipe	5	08-Apr-17	13-Apr-17	17-May-17	22-May-17	100%	0%	-28					
A29860	Pressure test (By PIW Contractor)	6	18-Apr-17	24-Apr-17	23-May-17	29-May-17	100%	0%	-28					
A29870	Remove the Blank Flanges & Make Final Connection	2	25-Apr-17	26-Apr-17	31-May-17	01-Jun-17	100%	0%	-28					
A29880	Backfill & Reinstale to Ground Level	3	27-Apr-17	29-Apr-17	02-Jun-17	05-Jun-17*	33.33%	0%	-28					
A29890	Handover to PIW for footway pavement construction (IS Appdx D1, #36-15 Aug 17)	0		29-Apr-17		05-Jun-17*	0%	0%	-28					
SPS External - Grd Lvl - Watermain (Outside SPS) to PIW														
A30040	Complete SPS Structure & Give Access to Park Contractor	0		15-Mar-17		28-Apr-17	100%	0%	-33					
A30050	Excavation Across Main Road From SPS Site to PIW Main pipes	8	16-Mar-17	24-Mar-17	28-Apr-17	09-May-17	100%	0%	-33					
A30060	Construct Valve Pit	14	25-Mar-17	11-Apr-17	10-May-17	25-May-17	100%	0%	-33					
A30070	Install Pipeworks (FW, CW & FS Water Main)	16	06-Apr-17	27-Apr-17	20-May-17	08-Jun-17	100%	0%	-33					
A30080	Pressure Test	3	28-Apr-17	02-May-17	09-Jun-17	12-Jun-17	0%	0%	-33					
A30090	Swabbing Test	1	04-May-1	04-May-17	13-Jun-17	13-Jun-17	0%	0%	-33					
A30110	Lab Test	12	05-May-1	18-May-17	14-Jun-17	27-Jun-17	0%	0%	-33					
A30120	Watermain Final Connection	2	19-May-1	20-May-17	28-Jun-17	29-Jun-17	0%	0%	-33					
ICP External - Grd Lvl - External Watermain Connection to PIW														
A30140	Complete ICP Structure	0	26-Jun-17		27-May-17		0%	0%	24					
A30150	Pipeworks Excavation at Main Road From ICP Site to PIW Main	12	15-Aug-17	28-Aug-17	27-Jun-17	11-Jul-17	0%	0%	41					
A30160	Install Pipeworks (FW, CW & FS Water Main) (Approx.18.5m)	18	29-Aug-17	18-Sep-17	12-Jul-17	01-Aug-17	0%	0%	41					
Power														
Power Cable 11kV at Footpath adjacent to Entrance Portal (Interface with PIW)														
A30260	Excavate trench in footway for the 11kV direct buried cables	15	01-Feb-17	17-Feb-17	28-Apr-17*	17-May-17	100%	0%	-70					
A30270	Lay Lead-in Cable (by CLP) & Inspection	30	18-Feb-17	19-Mar-17	18-May-17	16-Jun-17	100%	0%	-89					
A30280	Backfilling footway to adjacent ground level	3	20-Mar-17	22-Mar-17	17-Jun-17	20-Jun-17	100%	0%	-70					
Power Cable 11kV at Gridline A / 1-3														
A30290	Complete Riser Room Structure at Adjacent to Transformer Room A	0	13-Feb-17		17-May-17		100%	0%	-75					
A30300	Construct 2600mm x 1500mm cable trench & Install Cable Ducts	5	13-Feb-17	17-Feb-17	17-May-17	23-May-17	100%	0%	-75					
A30310	Lay Lead-in Cable (by CLP) & connect to district-wide system	30	18-Feb-17	19-Mar-17	23-May-17	22-Jun-17	100%	0%	-95					
A30320	Backfilling	3	20-Mar-17	22-Mar-17	22-Jun-17	26-Jun-17	100%	0%	-75					
Power Cable 11kV at Gridline A / 3-14														
Construction at Drawpit E1 to Drawpit E2														
A30330	Construct Drawpits E1 & E2	8	23-Mar-17	31-Mar-17	03-Jul-17	11-Jul-17	100%	0%	-79					
A30340	Construct Cable Tunnel from Drawpits E1 to E2 & Install Cable Ducts (Approx. 57m)	19	01-Apr-17	27-Apr-17	12-Jul-17	02-Aug-17	100%	0%	-79					
Power Cable 11kV at Gridline A-C / 14														
A30400	Construct Cable Trench & Install Cable Ducts (Approx 43m)	8	09-May-1	17-May-17	09-May-17*	17-May-17	0%	0%	0					
A30410	Tests & inspection	1	18-May-1	18-May-17	18-May-17	18-May-17	0%	0%	0					
SPS External Power Cable Trench For CLP Lead In														
A30560	Excavate trench	3	24-Apr-17	26-Apr-17	02-May-17	05-May-17	100%	0%	-6					
A30570	Install 6 Nos of DN200 Cable Duct	3	27-Apr-17	29-Apr-17	06-May-17	09-May-17	33.33%	0%	-6					
A30580	Lay power Lead-in for SPS & Inspection (by CLP)	15	30-Apr-17	14-May-17	10-May-17	24-May-17	0%	0%	-10					
A30590	Backfill & Reinstale Pavement	3	15-May-1	17-May-17	25-May-17	27-May-17	0%	0%	-9					
ICP External Power Cable Trench For CLP Lead In														
A30530	Construct 2 Nos of Drawpit at the ICP Entrance	8	15-Aug-17	23-Aug-17	27-Jun-17	06-Jul-17	0%	0%	41					
A30540	Install 10x200 Dia. GI Duct In 2 Layers & 1x100Dia Duct with Earthing Conductor (91r	10	24-Aug-17	04-Sep-17	07-Jul-17	18-Jul-17	0%	0%	41					
A30545	Lay power Lead-in for ICP & Inspection (by CLP)	45	05-Sep-17	19-Oct-17	19-Jul-17	01-Sep-17	0%	0%	48					
Gas														
Gas Main at Portion M01														
Gas Main RDE connection along Gridline E' - I' / 1'														
A30700	Trial Trench for Underground Utilities	10	08-Feb-17	18-Feb-17	16-May-17	26-May-17	100%	0%	-77					
A30710	Install support for existing Underground Utilities	6	20-Feb-17	25-Feb-17	27-May-17	03-Jun-17	100%	0%	-77					
A30720	Excavate Trench for Main Gas 100mm and install shoring	8	27-Feb-17	07-Mar-17	05-Jun-17	13-Jun-17	100%	0%	-77					
A30730	Lay down Main Gas 100mm (by Towngas Specialist Contractor)	14	08-Mar-17	23-Mar-17	14-Jun-17	29-Jun-17	100%	0%	-77					
A30740	Backfill Trench to Ground Level	4	24-Mar-17	28-Mar-17	30-Jun-17	05-Jul-17	100%	0%	-77					
A30750	Testing and Inspection	5	29-Mar-17	03-Apr-17	06-Jul-17	11-Jul-17	100%	0%	-77					
Telecom/ICT/FTNS														
Telecom @ Gridline A-C/14														
A30850	Completion for Construction of Power Cable Trench/Tunnel	0		17-May-17		17-May-17	0%	0%	0					
A30860	Lay 28Nos of DN100 Ducting @ A-C/14 (Approx. 30m)	2	18-May-1	19-May-17	18-May-17	19-May-17	0%	0%	0					
A30870	Construct 1# 28 DN100 FTNS drawpit @ gridline A-C/14	4	20-May-1	24-May-17	20-May-17	24-May-17	0%	0%	0					
A30880	Notify Telecom and request installation of cables	0		24-May-17		24-May-17	0%	0%	0					
SPS FTNS Lead In														
A31560	Lay FTNS Ducting (Approx 19m)	3	27-Apr-17	29-Apr-17	06-May-17	09-May-17	33.33%	0%	-6					
A31620	Construct 2# 1DN100 FTNS Drawpit	10	02-May-1	13-May-17	10-May-17	20-May-17	0%	0%	-6					
A32070	Notify Telecom & Request Installation of Cables	0		13-May-17		20-May-17	0%	0%	-6					
A32075	Installation of FTNS Cables (by Telecom)	8	15-May-1	23-May-17	22-May-17	31-May-17	0%	0%	-6					
Backfilling and EVA														
A31040	Completion of ICP Structure	0		24-Jun-17		12-Jun-17	0%	0%	11					
Backfilling														
A31050	Backfilling to +6.50mPD	12	26-Jun-17	10-Jul-17	13-Jun-17	26-Jun-17	0%	0%	11					
A31060	Backfilling to +8.50mPD	18	11-Jul-17	31-Jul-17	27-Jun-17	18-Jul-17	0%	0%	11					
A31070	Backfilling to +10.50mPD	18	01-Aug-17	21-Aug-17	19-Jul-17	08-Aug-17	0%	0%	11					
Fuel Tank														
A31200	Prepare & Submit Method Statement for Fuel Tank Construction to RSS for Approval	18	14-Mar-17	03-Apr-17	12-Jun-17	03-Jul-17	100%	0%	-70					
A31210	RSS Review & Approve Method Statement for Fuel Tank Construction	12	05-Apr-17	21-Apr-17	04-Jul-17	17-Jul-17	100%	0%	-70					
A31190	Complete GF Slab, Columns & Walls at Portion GFT6	0		21-Apr-17		17-Jul-17	100%	0%	-70					
A31220	Remove Hoarding fixed to sheetpile at Portion M04	5	22-Apr-17	27-Apr-17	18-Jul-17	22-Jul-17	100%	0%	-70					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
A31230	Install Hoarding on road-side edge of footway (500mm clearance from carriageway)	12	28-Apr-17	13-May-17	24-Jul-17	05-Aug-17	0%	0%	-70				
ABWF & Building Services													
RC Structure Completion & ABWF Access Dates													
B2F-B1F Access													
Sector C3 Access													
A11380	Zone B1S1 - Complete B2F @ GL 2-3/A	0		21-Jan-17		18-Apr-17 A	100%	100%	-86				
A11390	Zone B1S2 - Complete B2F @ GL 1-2/A	0		09-Mar-17		04-Jun-17	100%	0%	-87				◆ Zone B1S2 - Complete B2F @ GL 1:2/A
Sector F1 Access													
A11410	Zone B1R4 - Complete B2F @ GL 6'-7/A-C	0		06-Mar-17		01-Jun-17	100%	0%	-87				◆ Zone B1R4 - Complete B2F @ GL 6'-7/A-C
A11370	Zone B1S2 - Complete B2F @ GL 5'-1/A	0		09-Mar-17		04-Jun-17	100%	0%	-87				◆ Zone B1S2 - Complete B2F @ GL 5'-1/A
A11420	Zone B1T6 - Complete B2F @ GL 4'-6/A-C	0		25-Mar-17		09-Jun-17	100%	0%	-76				◆ Zone B1T6 - Complete B2F @ GL 4'-6/A-C
Sector F2 Access													
A11450	Zone B1R3 - Complete B2F @ GL 6'-7/A-C	0		20-Feb-17		17-May-17	100%	0%	-86				◆ Zone B1R3 - Complete B2F @ GL 6'-7/A-C
A11460	Zone B1T4 - Complete B2F @ GL 4'-6/B-D'	0		10-Feb-17		18-May-17	100%	0%	-97				◆ Zone B1T4 - Complete B2F @ GL 4'-6/B-D'
A11440	Zone B1T5 - Complete B2F @ GL 4'-6/A-C'	0		17-Mar-17		10-Jun-17	100%	0%	-84				◆ Zone B1T5 - Complete B2F @ GL 4'-6/A-C'
Sector F3 Access (Entrance Portal)													
A11510	Zone B1S1 - Complete B2F @ GL 2-3/A	0		21-Jan-17		18-Apr-17 A	100%	100%	-86				
A11500	Zone B1S2 - Complete B2F @ GL 5'-1/A	0		09-Mar-17		04-Jun-17	100%	0%	-87				◆ Zone B1S2 - Complete B2F @ GL 5'-1/A
Sector F4 Access													
A11490	Zone B1T4 - Complete B2F @ GL 2'-5/B-D'	0		10-Feb-17		18-May-17	100%	0%	-97				◆ Zone B1T4 - Complete B2F @ GL 2'-5/B-D'
A11470	Zone B1T5 - Complete B2F @ GL 3'-4/A-C'	0		17-Mar-17		10-Jun-17	100%	0%	-84				◆ Zone B1T5 - Complete B2F @ GL 3'-4/A-C'
Sector G1 Access													
A11540	Zone B1R2 - Complete B2F @ GL 6'-1/G-H'	0		08-Feb-17		28-Apr-17	100%	0%	-78				◆ Zone B1R2 - Complete B2F @ GL 6'-1/G-H'
A11570	Zone B1T2 - Complete B2F @ GL 4'-5/D-F'	0		19-Jan-17		28-Apr-17	100%	0%	-98				◆ Zone B1T2 - Complete B2F @ GL 4'-5/D-F'
A11550	Zone B1U4 - Complete B2F @ GL 4'-6/F-H'	0		13-Feb-17		08-May-17	100%	0%	-84				◆ Zone B1U4 - Complete B2F @ GL 4'-6/F-H'
A11520	Zone B1T3 - Complete B2F @ GL 5'-6/D-G'	0		25-Mar-17		09-Jun-17	100%	0%	-76				◆ Zone B1T3 - Complete B2F @ GL 5'-6/D-G'
Sector G2 Access													
A11670	Zone B1R1 - Complete B2F @ GL 6'-1/I-J'	0		07-Feb-17		28-Apr-17	100%	0%	-79				◆ Zone B1R1 - Complete B2F @ GL 6'-1/I-J'
A11690	Zone B1R2 - Complete B2F @ GL 6'-1/G-I'	0		08-Feb-17		28-Apr-17	100%	0%	-78				◆ Zone B1R2 - Complete B2F @ GL 6'-1/G-I'
A11700	Zone B1U4 - Complete B2F @ GL 4'-6/H-I'	0		13-Feb-17		08-May-17	100%	0%	-84				◆ Zone B1U4 - Complete B2F @ GL 4'-6/H-I'
A11680	Zone B1U2 - Complete B2F @ GL 4'-6/I-J'	0		13-Feb-17		08-May-17	100%	0%	-84				◆ Zone B1U2 - Complete B2F @ GL 4'-6/I-J'
Sector G3 Access													
A11580	Zone B1T1 - Complete B2F @ GL 1'-3/D-F'	0		09-Feb-17		28-Apr-17	100%	0%	-77				◆ Zone B1T1 - Complete B2F @ GL 1'-3/D-F'
A11590	Zone B1T2 - Complete B2F @ GL 3'-5/D-F'	0		19-Jan-17		28-Apr-17	100%	0%	-98				◆ Zone B1T2 - Complete B2F @ GL 3'-5/D-F'
A11600	Zone B1U3 - Complete B2F @ GL 1'-3/F-H'	0		06-Feb-17		08-May-17	100%	0%	-91				◆ Zone B1U3 - Complete B2F @ GL 1'-3/F-H'
A11610	Zone B1U4 - Complete B2F @ GL 3'-5/F-H'	0		13-Feb-17		08-May-17	100%	0%	-84				◆ Zone B1U4 - Complete B2F @ GL 3'-5/F-H'
Sector G4 Access													
A11630	Zone B1U1 - Complete B2F @ GL 1'-4/H-J'	0		02-Feb-17		08-May-17	100%	0%	-95				◆ Zone B1U1 - Complete B2F @ GL 1'-4/H-J'
A11640	Zone B1U2 - Complete B2F @ GL 4/I-J'	0		13-Feb-17		08-May-17	100%	0%	-84				◆ Zone B1U2 - Complete B2F @ GL 4/I-J'
A11650	Zone B1U3 - Complete B2F @ GL 1'-3/H-J'	0		06-Feb-17		08-May-17	100%	0%	-91				◆ Zone B1U3 - Complete B2F @ GL 1'-3/H-J'
A11660	Zone B1U4 - Complete B2F @ GL 3'-5/H-J'	0		13-Feb-17		08-May-17	100%	0%	-84				◆ Zone B1U4 - Complete B2F @ GL 3'-5/H-J'
B1F-GF Access													
Sector C1 Access													
A11940	Zone E - Complete B1F @ GL 8-9/A-C	0		10-Feb-17		10-May-17	100%	0%	-89				◆ Zone E - Complete B1F @ GL 8-9/A-C
Sector C2 Access													
A12410	Zone A5 - Complete B1F @ GL 4-6/E-H	0		22-Jun-17		25-May-17	0%	0%	28				◆ Zone A5 - Complete B1F @ GL 4-6/E-H
Sector C3 Access													
A11990	Zone A1 - Complete B1F @ GL 2-4/A-C	0		24-Feb-17		17-Apr-17 A	100%	100%	-51				◆ Zone A1 - Complete B1F @ GL 2-4/A-C
A12000	Zone GFS1 - Complete B1F @ GL 1-3/A	0		22-Aug-17		01-Jun-17	0%	0%	83				◆ Zone GFS1 - Complete B1F @ GL 1-3/A
Sector C4 Access													
A12460	Zone A1 - Complete B1F @ GL 2-4/C-E	0		24-Feb-17		02-May-17	100%	0%	-67				◆ Zone A1 - Complete B1F @ GL 2-4/C-E
A12010	Zone A4 - Complete B1F @ GL 2-4/E-H	0		26-Apr-17		20-May-17	100%	0%	-24				◆ Zone A4 - Complete B1F @ GL 2-4/E-H
A12490	Zone A5 - Complete B1F @ GL 4-5/E-H	0		22-Jun-17		25-May-17	0%	0%	28				◆ Zone A5 - Complete B1F @ GL 4-5/E-H
Sector A3 Access													
A12020	Zone E - Complete B1F @ GL 8-11/A-C	0		10-Feb-17		10-May-17	100%	0%	-89				◆ Zone E - Complete B1F @ GL 8-11/A-C
Sector D1 Access													
A12090	Zone A5 - Complete B1F @ GL 5-6/F-H	0		22-Jun-17		25-May-17	0%	0%	28				◆ Zone A5 - Complete B1F @ GL 5-6/F-H
Sector D3 Access													
A12110	Zone A4 - Complete B1F @ GL 2-4/F-H	0		26-Apr-17		20-May-17	100%	0%	-24				◆ Zone A4 - Complete B1F @ GL 2-4/F-H
A12630	Zone A5 - Complete B1F @ GL 4-5/F-H	0		22-Jun-17		25-May-17	0%	0%	28				◆ Zone A5 - Complete B1F @ GL 4-5/F-H
Sector F1 Access													
A12160	Zone GFS2 - Complete B1F @ GL 5'-1/A	0		02-Sep-17		10-Jul-17	0%	0%	54				◆ Zone GFS2 - Complete B1F @ GL 5'-1/A
Sector F2 Access													
A12190	Zone GFT4 - Complete B1F @ GL 4'-6/B-D'	0		04-Mar-17		13-May-17	100%	0%	-70				◆ Zone GFT4 - Complete B1F @ GL 4'-6/B-D'
A12170	Zone GFT5 - Complete B1F @ GL 4'-6/A-B'	0		25-Mar-17		20-Jun-17	100%	0%	-87				◆ Zone GFT5 - Complete B1F @ GL 4'-6/A-B'
Sector F3 Access (Entrance Portal)													
A12210	Zone GFS1 - Complete B1F @ GL 1-3/A	0		22-Aug-17		01-Jun-17	0%	0%	83				◆ Zone GFS1 - Complete B1F @ GL 1-3/A
A12200	Zone GFS2 - Complete B1F @ GL 5'-1/A	0		02-Sep-17		10-Jul-17	0%	0%	54				◆ Zone GFS2 - Complete B1F @ GL 5'-1/A
Sector F4 Access													
A12230	Zone GFT4 - Complete B1F @ GL 2'-6/B-D'	0		29-Mar-17		06-Jun-17	100%	0%	-68				◆ Zone GFT4 - Complete B1F @ GL 2'-6/B-D'
A12220	Zone GFT5 - Complete B1F @ GL 3'-5/A-B'	0		25-Mar-17		20-Jun-17	100%	0%	-87				◆ Zone GFT5 - Complete B1F @ GL 3'-5/A-B'
Sector G1 Access													
A12250	Zone GFT2 - Complete B1F @ GL 4'-5/D-F'	0		18-Mar-17		19-May-17	100%	0%	-62				◆ Zone GFT2 - Complete B1F @ GL 4'-5/D-F'
A12240	Zone GFT3 - Complete B1F @ GL 5'-6/D-G'	0		25-Feb-17		22-May-17	100%	0%	-86				◆ Zone GFT3 - Complete B1F @ GL 5'-6/D-G'
A12270	Zone GFU4 - Complete B1F @ GL 4'-6/F-H'	0		01-Apr-17		24-May-17	100%	0%	-53				◆ Zone GFU4 - Complete B1F @ GL 4'-6/F-H'

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017										
										Apr 19	May 20	Jun 21	Jul 22							
Sector G2 Access																				
A12290	Zone GFU4 - Complete B1F @ GL 4'-5/H'-I'	0		01-Apr-17		24-May-17	100%	0%	-53											
A12280	Zone GFU2 - Complete B1F @ GL 4'-6/I'-J'	0		14-Mar-17		06-Jun-17	100%	0%	-84											
A12300	Zone GFR1 - Complete B1F @ GL 5'-1/I'-J'	0		06-Apr-17		10-Jul-17	100%	0%	-95											
Sector G3 Access																				
A12330	Zone GFT2 - Complete B1F @ GL 3'-5/D'-F'	0		18-Mar-17		19-May-17	100%	0%	-62											
A12340	Zone GFU3 - Complete B1F @ GL 1'-3/F'-H'	0		25-Mar-17		24-May-17	100%	0%	-60											
A12350	Zone GFU4 - Complete B1F @ GL 3'-5/F'-H'	0		01-Apr-17		24-May-17	100%	0%	-53											
A12320	Zone GFT1 - Complete B1F @ GL 1'-3/D'-F'	0		29-Mar-17		07-Jun-17	100%	0%	-70											
Sector G4 Access																				
A12370	Zone GFU1 - Complete B1F @ GL 1'-4/H'-J'	0		25-Mar-17		24-May-17	100%	0%	-60											
A12700	Zone GFU3 - Complete B1F @ GL 1'-3/F'-H'	0		25-Mar-17		24-May-17	100%	0%	-60											
A12710	Zone GFU4 - Complete B1F @ GL 3'-5/F'-H'	0		01-Apr-17		24-May-17	100%	0%	-53											
A12380	Zone GFU2 - Complete B1F @ GL 4/I'-J'	0		14-Mar-17		06-Jun-17	100%	0%	-84											
GF-1F Access																				
Sector C1 Access																				
A12740	Zone A3 - Complete GF @ GL 5-7/A-C	0		02-Feb-17		28-Apr-17	100%	0%	-84											
A12730	Zone A2 - Complete GF @ GL 4-6/A-C	0		16-Feb-17		24-May-17	100%	0%	-96											
A12750	Zone E - Complete GF @ GL 8-9/A-C	0		07-Mar-17		07-Jun-17	100%	0%	-92											
Sector C2 Access																				
A12790	Zone A3 - Complete GF @ GL 5-7/C-E	0		02-Feb-17		28-Apr-17	100%	0%	-84											
A12780	Zone A2 - Complete GF @ GL 4-5/C-E	0		16-Feb-17		24-May-17	100%	0%	-96											
A12800	Zone A5 - Complete GF @ GL 4-6/E-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
Sector C3 Access																				
A12840	Zone A2 - Complete GF @ GL 4-5/A-C	0		16-Feb-17		24-May-17	100%	0%	-96											
A12830	Zone A1 - Complete GF @ GL 2-4/A-C	0		25-Feb-17		01-Jun-17	100%	0%	-96											
Sector C4 Access																				
A12870	Zone A2 - Complete GF @ GL 4-5/C-E	0		16-Feb-17		24-May-17	100%	0%	-96											
A12860	Zone A1 - Complete GF @ GL 2-4/C-E	0		25-Feb-17		01-Jun-17	100%	0%	-96											
A12890	Zone A5 - Complete GF @ GL 4-5/E-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
A12880	Zone A4 - Complete GF @ GL 2-4/E-H	0		07-Jun-17		15-Jun-17	0%	0%	-8											
Sector A3 Access																				
A12920	Zone E - Complete GF @ GL 8-11/A-C	0		07-Mar-17		07-Jun-17	100%	0%	-92											
Sector B2 Access																				
A13010	Zone H - Complete GF @ GL 11-14/K-M	0		13-Feb-17		10-Jun-17	100%	0%	-116											
Sector D1 Access																				
A13090	Zone A5 - Complete GF @ GL 5-6/F-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
Sector D3 Access																				
A13150	Zone A5 - Complete GF @ GL 4-5/F-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
A13140	Zone A4 - Complete GF @ GL 2-4/F-H	0		07-Jun-17		15-Jun-17	0%	0%	-8											
1F-1MF Access																				
Sector C1 Access																				
A13290	Zone M - Complete 1F @ GL 7-8/A-C	0		01-Mar-17		18-Apr-17 A	100%	100%	-47											
A13310	Zone A3 - Complete 1F @ GL 5-7/A-C	0		02-Feb-17		20-Apr-17 A	100%	100%	-76											
A13300	Zone A2 - Complete 1F @ GL 4-6/A-C	0		16-Feb-17		24-May-17	100%	0%	-96											
Sector C2 Access																				
A13340	Zone M - Complete 1F @ GL 7-8/C-D	0		01-Mar-17		18-Apr-17 A	100%	100%	-47											
A13360	Zone A3 - Complete 1F @ GL 5-7/C-E	0		02-Feb-17		20-Apr-17 A	100%	100%	-76											
A13350	Zone A2 - Complete 1F @ GL 4-5/C-E	0		16-Feb-17		24-May-17	100%	0%	-96											
A13370	Zone A5 - Complete 1F @ GL 4-6/E-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
Sector C3 Access																				
A13420	Zone A2 - Complete 1F @ GL 4-5/A-C	0		16-Feb-17		24-May-17	100%	0%	-96											
A13410	Zone A1 - Complete 1F @ GL 2-4/A-C	0		25-Feb-17		01-Jun-17	100%	0%	-96											
Sector C4 Access																				
A13450	Zone A2 - Complete 1F @ GL 4-5/C-E	0		16-Feb-17		24-May-17	100%	0%	-96											
A13440	Zone A1 - Complete 1F @ GL 2-4/C-E	0		25-Feb-17		01-Jun-17	100%	0%	-96											
A13470	Zone A5 - Complete 1F @ GL 4-5/E-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
A13460	Zone A4 - Complete 1F @ GL 2-4/E-H	0		07-Jun-17		15-Jun-17	0%	0%	-8											
Sector D1 Access																				
A13680	Zone A5 - Complete 1F @ GL 5-6/F-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
Sector D3 Access																				
A13730	Zone A5 - Complete 1F @ GL 4-5/F-H	0		11-Jul-17		13-Jun-17	0%	0%	28											
A13720	Zone A4 - Complete 1F @ GL 2-4/F-H	0		07-Jun-17		15-Jun-17	0%	0%	-8											
1MF-2F Access																				
Sector C1 Access																				
A13800	Zone M - Complete 1MF @ GL 7-8/A-C	0		25-Mar-17		24-May-17	100%	0%	-60											
A13830	Zone A3 - Complete 1MF @ GL 5-7/A-C	0		27-Feb-17		26-May-17	100%	0%	-88											
A13810	Zone A2 - Complete 1MF @ GL 4-6/A-C	0		13-Mar-17		19-Jun-17	100%	0%	-97											
A13840	Zone E - Complete 1MF @ GL 8-9/A-C	0		31-Mar-17		03-Jul-17	100%	0%	-94											
Sector C2 Access																				
A13850	Zone M - Complete 1MF @ GL 7-8/C-D	0		25-Mar-17		24-May-17	100%	0%	-60											
A13870	Zone A3 - Complete 1MF @ GL 5-7/C-E	0		27-Feb-17		26-May-17	100%	0%	-88											
A13860	Zone A2 - Complete 1MF @ GL 4-5/C-E	0		13-Mar-17		19-Jun-17	100%	0%	-97											
A13880	Zone A5 - Complete 1MF @ GL 4-6/E-H	0		29-Jul-17		03-Jul-17	0%	0%	26											
Sector C3 Access																				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
A13940	Zone A2 - Complete 1MF @ GL 4-5/A-C	0		13-Mar-17		19-Jun-17	100%	0%	-97				
A13930	Zone A1 - Complete 1MF @ GL 2-4/A-C	0		22-Mar-17		26-Jun-17	100%	0%	-96				
Sector C4 Access													
A13960	Zone A2 - Complete 1MF @ GL 4-5/C-E	0		13-Mar-17		19-Jun-17	100%	0%	-97				
A13950	Zone A1 - Complete 1MF @ GL 2-4/C-E	0		22-Mar-17		26-Jun-17	100%	0%	-96				
A13980	Zone A5 - Complete 1MF @ GL 4-5/E-H	0		29-Jul-17		03-Jul-17	0%	0%	26				
A13970	Zone A4 - Complete 1MF @ GL 2-4/E-H	0		03-Jul-17		11-Jul-17	0%	0%	-8				
Sector A3 Access													
A14020	Zone E - Complete 1MF @ GL 8-11/A-C	0		31-Mar-17		03-Jul-17	100%	0%	-94				
Sector B2 Access													
A14110	Zone H - Complete 1MF @ GL 11-14/K-M	0		17-Mar-17		14-Jul-17	100%	0%	-118				
Sector D1 Access													
A14180	Zone A5 - Complete 1MF @ GL 5-6/F-H	0		29-Jul-17		03-Jul-17	0%	0%	26				
Sector D3 Access													
A14240	Zone A5 - Complete 1MF @ GL 4-5/F-H	0		29-Jul-17		03-Jul-17	0%	0%	26				
A14230	Zone A4 - Complete 1MF @ GL 2-4/F-H	0		03-Jul-17		11-Jul-17	0%	0%	-8				
2F-3F Access (incl. Podium Roof)													
Sector C1 Access													
A14310	Zone M - Complete 2F @ GL 7-8/A-C	0		24-Apr-17		19-Jun-17	100%	0%	-56				
A14330	Zone A3 - Complete 2F @ GL 5-7/A-C	0		23-Mar-17		21-Jun-17	100%	0%	-90				
A14320	Zone A2 - Complete 2F @ GL 4-6/A-C	0		07-Apr-17		14-Jul-17	100%	0%	-97				
Sector C2 Access													
A14350	Zone M - Complete 2F @ GL 7-8/C-D	0		24-Apr-17		19-Jun-17	100%	0%	-56				
A14380	Zone A3 - Complete 2F @ GL 5-7/C-E	0		23-Mar-17		21-Jun-17	100%	0%	-90				
A14360	Zone A2 - Complete 2F @ GL 4-5/C-E	0		07-Apr-17		14-Jul-17	100%	0%	-97				
A14390	Zone A5 - Complete 2F @ GL 4-6/E-H	0		19-Aug-17		24-Jul-17	0%	0%	26				
Sector C3 Access													
A14440	Zone A2 - Complete 2F @ GL 4-5/A-C	0		07-Apr-17		14-Jul-17	100%	0%	-97				
A14430	Zone A1 - Complete 2F @ GL 2-4/A-C	0		20-Apr-17		21-Jul-17	100%	0%	-92				
Sector C4 Access													
A14470	Zone A2 - Complete 2F @ GL 4-5/C-E	0		07-Apr-17		14-Jul-17	100%	0%	-97				
A14460	Zone A1 - Complete 2F @ GL 2-4/C-E	0		20-Apr-17		21-Jul-17	100%	0%	-92				
A14490	Zone A5 - Complete 2F @ GL 4-5/E-H	0		19-Aug-17		24-Jul-17	0%	0%	26				
Sector D1 Access													
A14700	Zone A5 - Complete 2F @ GL 5-6/F-H	0		19-Aug-17		24-Jul-17	0%	0%	26				
Sector D3 Access													
A14750	Zone A5 - Complete 2F @ GL 4-5/F-H	0		19-Aug-17		24-Jul-17	0%	0%	26				
3F-4F Access													
Sector C1 Access													
A22560	Zone M - Complete 3F @ GL 7-8/A-C	0		25-May-17		19-Jul-17	0%	0%	-55				
Sector C2 Access													
A22570	Zone M - Complete 3F @ GL 7-8/C-D	0		25-May-17		19-Jul-17	0%	0%	-55				
Interfacing - Take Over Zone Areas Access													
M+ Basement													
B2/F													
First Access													
A20410	Sector G	0		25-Feb-17		20-May-17	100%	0%	-78				
A20400	Sector F	0		09-Mar-17		04-Jun-17	100%	0%	-80				
B1/F													
First Access													
A20470	Sector G	0		25-Mar-17		17-Jun-17	100%	0%	-77				
LG/F													
First Access													
A20520	Sector G	0		14-Mar-17		06-Jun-17	100%	0%	-77				
A20530	Sector F	0		25-Mar-17		20-Jun-17	100%	0%	-80				
M+ Podium													
G/F													
A20550	Sector B	0		13-Feb-17		10-Jun-17	100%	0%	-109				
A20560	Sector C	0		07-Jun-17		15-Jun-17	0%	0%	-8				
1/F & 1M/F													
A20590	Sector C	0		31-Mar-17		03-Jul-17	100%	0%	-86				
3/F													
A20700	Sector A, B, C & D - External Area	0		16-Dec-16		28-Apr-17	100%	0%	-122				
A20680	Sector C - Tower Footprint	0		25-May-17		19-Jul-17	0%	0%	-53				
CSF													
Structure Completion Preparation for Builders' Work Access													
A23720	G/F Curing & Falseworks Stripping	30	19-Mar-17	21-Apr-17	23-May-17	23-Jun-17	100%	0%	-60				
A23730	1/F Curing & Falseworks Stripping	30	13-Apr-17	17-May-17	16-Jun-17	17-Jul-17	40%	0%	-59				
A23740	2/F Curing & Falseworks Stripping	30	30-Apr-17	01-Jun-17	30-Jun-17	31-Jul-17	0%	0%	-59				
A23750	3/F Curing & Falseworks Stripping	30	14-May-17	13-Jun-17	13-Jul-17	12-Aug-17	0%	0%	-59				
A23760	4/F Curing & Falseworks Stripping	30	24-May-17	23-Jun-17	22-Jul-17	21-Aug-17	0%	0%	-58				
RDE													
Structure Completion Preparation for Builders' Work Access													
A21080	G/F Curing & Falseworks Stripping	30	30-Mar-17	04-May-17	25-May-17	25-Jun-17	83.33%	0%	-50				
A21090	1/F Curing & Falseworks Stripping	30	27-Apr-17	28-May-17	19-Jun-17	20-Jul-17	3.33%	0%	-50				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
A21100	2/F Curing & Falseworks Stripping	30	20-May-1	19-Jun-17	11-Jul-17	10-Aug-17	0%	0%	-50					
A21110	3/F Curing & Falseworks Stripping	30	04-Jun-17	04-Jul-17	25-Jul-17	24-Aug-17	0%	0%	-50					
Construction Milestones														
AB10000	Instructed Commencement of works for M+ Podium ABWF & Fit-out work	0	24-Jan-17		28-Apr-17*		100%	0%	-87					
Lifts and Escalators														
Podium Lift & Escalator Installation														
Passenger Lift, FS & Disable Lift (LT12) @ Zone A1														
LT10590	Available of lift Shaft LT12 (w/ Zone A1 Temporary watertight)	0	06-Aug-17		27-Jul-17		0%	0%	10				LT10590	
LT10600	Builders' Work for LT12 Lift Shaft	25	07-Aug-17	04-Sep-17	27-Jul-17	24-Aug-17	0%	0%	9				LT10600	
Passenger Lift, FS & Disable Lift (LT14) @ Zone A4														
LT10640	Available of lift Shaft LT14 (w/ Zone A4 Temporary watertight)	0	06-Aug-17		27-Jul-17		0%	0%	10				LT10640	
LT10650	Builders' Work for LT14 Lift Shaft	25	07-Aug-17	04-Sep-17	27-Jul-17	24-Aug-17	0%	0%	9				LT10650	
Escalators (ES03 & ES04) @ Zone A B1F to GF														
LT11170	Available of Escalator Pit ES03 & ES04 at Zone A	0		05-Aug-17		26-Jul-17	0%	0%	10				LT11170	
LT11180	Escalators ES03 & ES04 Installation	60	06-Aug-17	04-Oct-17	27-Jul-17	24-Sep-17	0%	0%	10				LT11180	
ABWF & BS Pre-Construction Works														
AB10070	Shop drawings Submission & Approval	210	03-Oct-16	13-May-17	02-Oct-16	14-Jun-17	93.33%	79%	-30					
AB10080	Method Statement & ITP Submission & Approval	210	03-Oct-16	13-May-17	02-Oct-16	14-Jun-17	93.33%	79%	-30					
AB10090	Materials Submission & Approval	210	03-Oct-16	13-May-17	02-Oct-16	14-Jun-17	93.33%	79%	-30					
Long Lead Materials Procurement & Delivery														
AB10100	Others	270	06-Jan-17	15-Oct-17	06-Jan-17	15-Nov-17	38.89%	28%	-29					
SPS Materials														
AB51390	Fire/ Security Shutters	43	06-Feb-17	20-Mar-17	06-Feb-17	21-May-17	100%	50%	-56					
AB51470	Louver	72	21-Jan-17	06-Apr-17	15-Feb-17	20-May-17	100%	72%	-38					
AB51370	Davit System	83	27-Jan-17	26-Apr-17	24-Mar-17	15-Jun-17	100%	45%	-47					
AB51400	Metal Door	43	06-Feb-17	20-Mar-17	28-Apr-17*	12-Jun-17	100%	0%	-77					
ABWF & Building Services Installation														
Interfacing - Take Over Zone Areas Access														
M+ Basement														
B2/F														
First Access														
AB10150	Sector B	0	17-Dec-16		28-Apr-17*		100%	0%	-122					
AB10170	Sector D	0	27-Jan-17		28-Apr-17*		100%	0%	-84					
AB10180	Sector A	0	13-Jan-17		28-Apr-17*		100%	0%	-98					
AB10190	Sector G	0	13-Feb-17		28-Apr-17*		100%	0%	-70					
AB10200	Sector F	0	09-Mar-17		28-Apr-17*		100%	0%	-46					
B1/F														
First Access														
AB10250	Sector G	0	27-Feb-17		28-Apr-17*		100%	0%	-56					
AB10260	Sector F	0	25-Mar-17		28-Apr-17*		100%	0%	-30					
LG/F														
AB10300	Sector G	0	27-Feb-17		28-Apr-17*		100%	0%	-56					
AB10310	Sector F	0	25-Mar-17		28-Apr-17*		100%	0%	-30					
M+ Podium														
G/F														
AB10340	Sector B	0	13-Feb-17		28-Apr-17*		100%	0%	-70					
AB10330	Sector C	0	23-May-1		23-May-17*		0%	0%	0					
1/F & 1M/F														
AB10370	Sector C	0	31-Mar-17		28-Apr-17*		100%	0%	-24					
AB10380	Sector B	0	01-Mar-17		28-Apr-17*		100%	0%	-54					
3/F														
AB10450	Sector C - Tower Footprint	0	25-May-1		25-May-17*		0%	0%	0					
CSF														
Builder's Works Access Dates														
AB10760	G/F	0	10-Jun-17		10-Jun-17*		0%	0%	0					
AB10770	1/F	0	17-Jun-17		17-Jun-17		0%	0%	0					
AB10780	2/F	0	24-Jun-17		24-Jun-17		0%	0%	0					
AB10790	3/F	0	02-Jul-17		02-Jul-17		0%	0%	0					
AB10800	4/F	0	09-Jul-17		09-Jul-17		0%	0%	0					
AB10810	5/F	0	16-Jul-17		16-Jul-17		0%	0%	0					
AB10820	6/F	0	23-Jul-17		23-Jul-17		0%	0%	0					
Fit-Out Works Access Dates														
AB51240	G/F	0	06-Jul-17		06-Jul-17*		0%	0%	0					
AB51250	1/F	0	16-Jul-17		16-Jul-17		0%	0%	0					
AB51260	2/F	0	24-Jul-17		24-Jul-17		0%	0%	0					
RDE														
Builder's Works Access Dates														
AB10860	G/F	0	18-Jul-17		18-Jul-17*		0%	0%	0					
AB10870	1/F	0	25-Jul-17		25-Jul-17		0%	0%	0					
SPS														
AB11230	B2/F	0	01-Mar-17		22-Apr-17		100%	100%	-48					
AB11240	B1/F	0	01-Mar-17		22-Apr-17		100%	100%	-48					
AB11250	R/F	0	01-Mar-17		28-Apr-17*		100%	0%	-54					
M+ Basement ABWF & BS Installation														
B2/F - Sector A														

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Tanks														
M+ Sprinkler Water Tank														
AB13590	Waterproofing & water test	12	02-Feb-17	13-Feb-17	03-Apr-17	29-Apr-17	100%	90%	-70					
AB13600	Plastering work (inside tank)	10	14-Feb-17	23-Feb-17	29-Apr-17	11-May-17	100%	0%	-70					
AB13610	Wall & floor tiling	14	24-Feb-17	09-Mar-17	11-May-17	25-May-17	100%	0%	-70					
AB13620	Application of sealer on soffit (outside tank)	7	10-Mar-17	16-Mar-17	25-May-17	02-Jun-17	100%	0%	-70					
AB13630	Cat ladder	7	17-Mar-17	23-Mar-17	02-Jun-17	09-Jun-17	100%	0%	-70					
AB13640	Hatch cover	7	24-Mar-17	30-Mar-17	09-Jun-17	16-Jun-17	100%	0%	-70					
M+ FS Water Tank														
AB13660	Waterproofing & water test	12	24-Feb-17	07-Mar-17	03-Apr-17	29-Apr-17	100%	90%	-48					
AB13670	Plastering work (inside tank)	10	08-Mar-17	17-Mar-17	29-Apr-17	11-May-17	100%	0%	-48					
AB13680	Wall & floor tiling	14	18-Mar-17	31-Mar-17	11-May-17	25-May-17	100%	0%	-48					
AB13690	Application of sealer on soffit (outside tank)	7	01-Apr-17	08-Apr-17	25-May-17	02-Jun-17	100%	0%	-48					
AB13700	Cat ladder	7	09-Apr-17	18-Apr-17	02-Jun-17	09-Jun-17	100%	0%	-48					
AB13710	Hatch cover	7	19-Apr-17	25-Apr-17	09-Jun-17	16-Jun-17	100%	0%	-48					
M+ IR Tank														
AB13730	Waterproofing & water test	12	18-Mar-17	29-Mar-17	10-Apr-17	29-Apr-17	100%	90%	-26					
AB13740	Plastering work (inside tank)	10	30-Mar-17	09-Apr-17	29-Apr-17	11-May-17	100%	0%	-26					
AB13750	Wall & floor tiling	14	10-Apr-17	26-Apr-17	11-May-17	25-May-17	100%	0%	-26					
AB13760	Application of sealer on soffit (outside tank)	7	27-Apr-17	05-May-17	25-May-17	02-Jun-17	14.29%	0%	-26					
AB13770	Cat ladder	7	06-May-17	12-May-17	02-Jun-17	09-Jun-17	0%	0%	-26					
AB13780	Hatch cover	7	13-May-17	19-May-17	09-Jun-17	16-Jun-17	0%	0%	-26					
Rain Water Retention Tank														
AB13800	Waterproofing & water test	12	10-Apr-17	24-Apr-17	10-Apr-17	11-May-17	100%	0%	-15					
AB13810	Plastering work (inside tank)	10	25-Apr-17	06-May-17	12-May-17	21-May-17	30%	0%	-15					
AB13820	Wall & floor tiling	14	07-May-17	20-May-17	22-May-17	05-Jun-17	0%	0%	-15					
AB13830	Application of sealer on soffit (outside tank)	7	21-May-17	27-May-17	06-Jun-17	12-Jun-17	0%	0%	-15					
AB13840	Cat ladder	7	28-May-17	04-Jun-17	13-Jun-17	19-Jun-17	0%	0%	-15					
AB13850	Hatch cover	7	05-Jun-17	11-Jun-17	20-Jun-17	26-Jun-17	0%	0%	-15					
General Builders' Work														
AB13320	Steel Post	14	13-Jan-17	26-Jan-17	28-Apr-17	13-May-17	100%	0%	-98					
AB13330	Blockwall	20	27-Jan-17	18-Feb-17	14-May-17	03-Jun-17	100%	0%	-98					
AB13340	Wall Plastering	14	18-Feb-17	04-Mar-17	03-Jun-17	17-Jun-17	100%	0%	-98					
AB13350	Floor Screeding	7	04-Mar-17	11-Mar-17	17-Jun-17	24-Jun-17	100%	0%	-98					
AB13360	Drywall (MEP concealed items, close up panel)	14	06-May-17	19-May-17	27-Jul-17	10-Aug-17	0%	0%	-80					
Workshops, Storages & Offices														
I.S. Workshop Facility, MO EQ Room														
AB13870	Skim coat, application of epoxy paint on wall and sealer on soffit & floor	14	28-May-17	11-Jun-17	13-Jun-17	26-Jun-17	0%	0%	-15					
Exhibit Tech/ Electrical Workroom, Corridor, Exhibit Lighting Electrical Shop/ Storage, General Stor														
AB13910	Skim coat, application of epoxy paint on wall and sealer on soffit & floor	14	12-Jun-17	25-Jun-17	27-Jun-17	11-Jul-17	0%	0%	-15					
B2/F - Sector C														
Plantrooms														
SH Water Tank/ Street Hydrant Tank														
AB11910	Waterproofing & water test	12	30-Mar-17	11-Apr-17	03-Apr-17	29-Apr-17	100%	90%	-14					
AB11920	Plastering work (inside tank)	10	12-Apr-17	24-Apr-17	29-Apr-17	11-May-17	100%	0%	-14					
AB11930	Wall & floor tiling	14	25-Apr-17	10-May-17	11-May-17	25-May-17	21.43%	0%	-14					
AB11940	Application of sealer on soffit (outside tank)	7	11-May-17	17-May-17	25-May-17	02-Jun-17	0%	0%	-14					
AB11950	Cat ladder	7	18-May-17	24-May-17	02-Jun-17	09-Jun-17	0%	0%	-14					
AB11960	Hatch cover	7	25-May-17	01-Jun-17	09-Jun-17	16-Jun-17	0%	0%	-14					
Grease Trap Room for Podium														
Builders' Work														
AB11550	Concrete plinth & waterproofing works	12	03-Apr-17	20-Apr-17	28-Jun-17	13-Jul-17	100%	0%	-67					
AB11560	Floor Screeding	7	21-Apr-17	27-Apr-17	13-Jul-17	20-Jul-17	100%	0%	-79					
AB11570	Wall rendering	7	28-Apr-17	06-May-17	20-Jul-17	27-Jul-17	0%	0%	-79					
AB11580	Sealer on ceiling soffit & application of epoxy paint on wall	7	07-May-17	13-May-17	27-Jul-17	03-Aug-17	0%	0%	-79					
M+ Water Pump Room														
Builders' Work														
AB11630	Concrete plinth & waterproofing works	12	28-Apr-17	11-May-17	20-Jul-17	01-Aug-17	0%	0%	-79					
ICT Room														
Builders' Work														
AB12120	Blockwall	10	18-May-17	27-May-17	02-Jun-17	12-Jun-17	0%	0%	-14					
AB12130	Plastering & screeding	5	28-May-17	02-Jun-17	12-Jun-17	17-Jun-17	0%	0%	-14					
AB12135	Sealer on ceiling soffit & application of epoxy paint on wall	5	03-Jun-17	07-Jun-17	17-Jun-17	22-Jun-17	0%	0%	-14					
BS Installation														
AB12140	MEP 2nd fix & final fix	30	08-Jun-17	08-Jul-17	22-Jun-17	23-Jul-17	0%	0%	-14					
Final Finishes														
AB12150	Final coat of paint on wall	3	09-Jul-17	11-Jul-17	23-Jul-17	26-Jul-17	0%	0%	-14					
AB12160	Sealer on floor	3	12-Jul-17	14-Jul-17	26-Jul-17	29-Jul-17	0%	0%	-14					
ICT Riser														
Builders' Work														
AB12180	Blockwall	10	28-May-17	07-Jun-17	12-Jun-17	22-Jun-17	0%	0%	-14					
AB12190	Plastering & screeding	5	08-Jun-17	12-Jun-17	22-Jun-17	27-Jun-17	0%	0%	-14					
AB12195	Sealer on ceiling soffit & application of epoxy paint on wall	5	13-Jun-17	17-Jun-17	27-Jun-17	03-Jul-17	0%	0%	-14					
BS Installation														
AB12200	MEP 2nd & final fix	30	18-Jun-17	18-Jul-17	03-Jul-17	02-Aug-17	0%	0%	-14					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
Security Control Room														
Builders' Work														
AB11980	Blockwall	10	11-May-1	20-May-17	25-May-17	05-Jun-17	0%	0%	-14		AB11980		Blockwall	
AB11990	Plastering & screeding	5	21-May-1	25-May-17	05-Jun-17	10-Jun-17	0%	0%	-14		AB11990		Plastering & screeding	
AB12000	Acoustic ceiling framework	5	26-May-1	31-May-17	10-Jun-17	15-Jun-17	0%	0%	-14		AB12000		Acoustic ceiling framework	
BS Installation														
AB12010	MEP 2nd & final fix	30	15-Jun-17	15-Jul-17	29-Jun-17	30-Jul-17	0%	0%	-14			AB12010		
General Builders' Work														
AB11500	Blockwall	14	02-Feb-17	15-Feb-17	06-Mar-17	13-May-17	100%	5%	-80				Blockwall, Blockwall	
AB11510	Wall Plastering	24	16-Feb-17	11-Mar-17	13-May-17	07-Jun-17	100%	0%	-80				Wall Plastering	
AB11490	Steel Post	10	27-Jan-17	08-Feb-17	14-May-17	23-May-17	100%	0%	-98				Steel Post	
AB11520	Floor Screeding	28	05-Mar-17	01-Apr-17	31-May-17	28-Jun-17	100%	0%	-80				Floor Screeding	
AB11540	Drywall (MEP consealed items, close up panel)	28	02-Apr-17	05-May-17	28-Jun-17	27-Jul-17	78.57%	0%	-80	1540				
General BS Installation														
Electrical System														
AB52280	MEP 1st fix - B2F Sector C	30	06-May-1	05-Jun-17	27-Jul-17	26-Aug-17	0%	0%	-80			AB52280		
Plumbing & Drainage														
AB52310	P&D 1st fix - B2F Sector C	30	06-May-1	05-Jun-17	06-Feb-17	23-Jun-17	0%	0%	-18				P&D 1st fix - B2F Sector C, P&D 1st fix - B2F S	
AB52320	P&D 2nd fix - B2F Sector C	45	06-Jun-17	21-Jul-17	24-Jun-17	08-Aug-17	0%	0%	-18			AB52320		
FS System														
AB52340	FS 1st fix - B2F Sector C	30	06-May-1	05-Jun-17	27-Jul-17	26-Aug-17	0%	0%	-80			AB52340		
HVAC System														
AB52370	HVAC 1st fix - B2F Sector C	60	06-May-1	06-Jul-17	06-Feb-17	23-Jun-17	0%	10%	12				HVAC 1st fix - B2F Sector C,	
AB52380	HVAC 2nd fix - B2F Sector C	69	07-Jul-17	13-Sep-17	24-Jun-17	01-Sep-17	0%	0%	12			AB52380		
Workshops, Storages & Offices														
Bulk Supply Storage, Museum Workshops, ICT Riser, Display Case -Plinth-Vitrine, Exhibit Workshops														
AB12240	Construction of maintenance platform	48	13-Jun-17	31-Jul-17	27-Jun-17	15-Aug-17	0%	0%	-14			AB12240		
AB12250	Fire shutters/ security shutters installation	28	11-Jul-17	07-Aug-17	25-Jul-17	22-Aug-17	0%	0%	-14			AB12250		
B2/F - Sector D														
MEP Plantrooms														
ELV (First Access Areas)														
Builders' Works														
AB52400	Steel Post	3	27-Apr-17	29-Apr-17	28-Apr-17	30-Apr-17	33.33%	0%	-1			AB52400	Steel Post	
AB52410	Blockwall	5	30-Apr-17	06-May-17	02-May-17	07-May-17	0%	0%	-1			AB52410	Blockwall	
AB52420	Wall Plastering	7	07-May-1	13-May-17	08-May-17	14-May-17	0%	0%	-1			AB52420	Wall Plastering	
AB52430	Floor Screeding	7	14-May-1	20-May-17	15-May-17	21-May-17	0%	0%	-1			AB52430	Floor Screeding	
AB52440	Sealer on ceiling soffit & application of epoxy paint on wall	3	21-May-1	23-May-17	22-May-17	24-May-17	0%	0%	-1			AB52440	Sealer on ceiling soffit & application of epoxy paint on wall	
BS Installation														
AB12830	MEP 2nd fix	14	24-May-1	07-Jun-17	25-May-17	08-Jun-17	0%	0%	-1			AB12830	MEP 2nd fix	
AB12840	Install ELV Switchboard	60	08-Jun-17	07-Aug-17	09-Jun-17	08-Aug-17	0%	0%	-1			AB12840		
General Builders' Work														
AB12770	Steel Post	7	27-Apr-17	05-May-17	28-Apr-17	06-May-17	14.29%	0%	-1			AB12770	Steel Post	
AB12780	Blockwall	10	06-May-1	15-May-17	07-May-17	16-May-17	0%	0%	-1			AB12780	Blockwall	
AB12790	Wall Plastering	14	15-May-1	29-May-17	16-May-17	31-May-17	0%	0%	-1			AB12790	Wall Plastering	
AB12800	Floor Screeding	14	29-May-1	13-Jun-17	31-May-17	14-Jun-17	0%	0%	-1			AB12800	Floor Screeding	
AB12810	Drywall (MEP consealed items, close up panel)	7	13-Jun-17	20-Jun-17	27-Jul-17	03-Aug-17	0%	0%	-43			AB12810		
B2/F - Sector F														
General Builder's Work														
AB15860	Steel Post	7	10-Mar-17	16-Mar-17	05-Jun-17	11-Jun-17	100%	0%	-80				Steel Post	
AB15870	Blockwall	10	17-Mar-17	26-Mar-17	12-Jun-17	21-Jun-17	100%	0%	-80				Blockwall	
AB15880	Wall Plastering	14	26-Mar-17	10-Apr-17	21-Jun-17	06-Jul-17	100%	0%	-80				Wall Plastering	
AB15890	Floor Screeding	28	02-Apr-17	06-May-17	28-Jun-17	27-Jul-17	75.71%	0%	-80	5890				
AB15900	Drywall (MEP consealed items, close up panel)	28	06-May-1	04-Jun-17	27-Jul-17	24-Aug-17	0%	0%	-80			AB15900		
General BS Installation														
Electrical System														
AB52680	MEP 1st fix - B2F Sector F	30	06-May-1	06-Jun-17	27-Jul-17	26-Aug-17	0%	0%	-80			AB52680		
Plumbing & Drainage														
AB52710	P&D 1st fix - B2F Sector F	30	06-May-1	06-Jun-17	27-Jul-17	26-Aug-17	0%	0%	-80			AB52710		
FS System														
AB52740	FS 1st fix - B2F Sector F	30	06-May-1	06-Jun-17	27-Jul-17	26-Aug-17	0%	0%	-80			AB52740		
HVAC System														
AB52770	HVAC 1st fix - B2F Sector F	60	06-May-1	07-Jul-17	27-Jul-17	25-Sep-17	0%	0%	-80			AB52770		
B2/F - Sector G														
Plantrooms														
RDE Potable Water Tank														
AB14300	Waterproofing works & water test	12	02-Apr-17	18-Apr-17	26-Jun-17	09-Jul-17	100%	0%	-78	4300			Waterproofing works & w	
AB14310	Plastering work (inside tank)	10	18-Apr-17	28-Apr-17	09-Jul-17	19-Jul-17	92%	0%	-78			AB14310	Plastering	
AB14320	Wall & floor tiling	14	28-Apr-17	14-May-17	19-Jul-17	02-Aug-17	0%	0%	-78			AB14320		
Heat Exchanger Room														
Builders' Work														
AB14220	Concrete plinth and waterproofing works	12	14-Mar-17	26-Mar-17	07-Jun-17	19-Jun-17	100%	0%	-78				Concrete plinth and waterproofing works	
AB14230	Floor Screeding & wall rendering	7	26-Mar-17	02-Apr-17	19-Jun-17	26-Jun-17	100%	0%	-78				Floor Screeding & wall rendering	
AB14240	Sealer on ceiling soffit & application of epoxy paint on wall	14	02-Apr-17	20-Apr-17	26-Jun-17	11-Jul-17	100%	0%	-78	4240			Sealer on ceiling soffit	
BS Installation														
AB14250	Heat Exchanger Room - MEP 2nd fix	15	20-Apr-17	07-May-17	11-Jul-17	26-Jul-17	48%	0%	-78			AB14250		

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017			
										Apr 19	May 20	Jun 21	Jul 22
AB14260	Install heat exchanger	30	07-May-1	07-Jun-17	26-Jul-17	25-Aug-17	0%	0%	-78				
General Builders' Work													
AB14170	Steel Post	7	26-Feb-17	04-Mar-17	21-May-17	27-May-17	100%	0%	-78				
AB14180	Blockwall	10	05-Mar-17	14-Mar-17	28-May-17	07-Jun-17	100%	0%	-78				
AB14190	Wall Plastering	18	14-Mar-17	01-Apr-17	07-Jun-17	25-Jun-17	100%	0%	-78				
AB14200	Floor Screeding	7	01-Apr-17	09-Apr-17	25-Jun-17	03-Jul-17	100%	0%	-78				
AB14210	Drywall (MEP consealed items, close up panel)	14	09-Apr-17	26-Apr-17	03-Jul-17	17-Jul-17	100%	0%	-78				
General BS Installation													
Electrical System													
AB52800	MEP 1st fix - B2F Sector G	30	09-Apr-17	14-May-17	03-Jul-17	02-Aug-17	50.67%	0%	-78				
Plumbing & Drainage													
AB52830	P&D 1st fix - B2F Sector G	30	09-Apr-17	14-May-17	03-Jul-17	02-Aug-17	50.67%	0%	-78				
FS System													
AB52860	FS 1st fix - B2F Sector G	30	09-Apr-17	14-May-17	03-Jul-17	02-Aug-17	50.67%	0%	-78				
HVAC System													
AB52890	HVAC 1st fix - B2F Sector G	60	09-Apr-17	14-Jun-17	03-Jul-17	01-Sep-17	25.33%	0%	-78				
B1/F - Sector C													
Plantrooms													
Transformer Room B													
Builders' Work													
AB16690	Wall rendering	9	02-Mar-17	10-Mar-17	10-Apr-17	19-Apr-17 A	100%	100%	-35				
AB16700	Wall tiling (1.5m high)	10	11-Mar-17	20-Mar-17	28-Apr-17	09-May-17	100%	0%	-44				
AB16680	Construct plinth	5	25-Feb-17	01-Mar-17	28-Apr-17	04-May-17	100%	0%	-58				
AB16710	Floor screeding	4	21-Mar-17	24-Mar-17	10-May-17	13-May-17	100%	0%	-44				
AB16720	Installation of cable trench cover	10	25-Mar-17	03-Apr-17	14-May-17	23-May-17	100%	0%	-44				
AB16730	Sealer on ceiling soffit & application of epoxy paint on wall	6	05-Apr-17	10-Apr-17	24-May-17	29-May-17	100%	0%	-44				
BS Installation													
AB16740	Transformer Room B - MEP 2nd fix	14	11-Apr-17	27-Apr-17	31-May-17	13-Jun-17	100%	0%	-44				
AB16750	Inspection by CLP	14	28-Apr-17	13-May-17	14-Jun-17	27-Jun-17	0%	0%	-44				
AB53500	H/O TX Room B to CLP	0	14-May-1		28-Jun-17		0%	0%	-44				
AB53510	CLP Installation for TX Room B	60	14-May-1	14-Jul-17	28-Jun-17	27-Aug-17	0%	0%	-44				
Transformer Room A													
Builders' Work													
AB16790	Wall rendering	9	02-Mar-17	10-Mar-17	10-Apr-17	19-Apr-17 A	100%	100%	-35				
AB16780	Construct plinth	5	25-Feb-17	01-Mar-17	28-Apr-17	04-May-17	100%	0%	-58				
AB16800	Wall tiling (1.5m high)	10	11-Mar-17	20-Mar-17	28-Apr-17	09-May-17	100%	0%	-44				
AB16810	Floor screeding	4	21-Mar-17	24-Mar-17	10-May-17	13-May-17	100%	0%	-44				
AB16820	Installation of cable trench cover	10	25-Mar-17	03-Apr-17	14-May-17	23-May-17	100%	0%	-44				
AB16830	Sealer on ceiling soffit & application of epoxy paint on wall	6	05-Apr-17	10-Apr-17	24-May-17	29-May-17	100%	0%	-44				
BS Installation													
AB16840	Transformer Room A - MEP 2nd fix	14	11-Apr-17	27-Apr-17	31-May-17	13-Jun-17	100%	0%	-44				
AB16850	Inspection by CLP	14	28-Apr-17	13-May-17	14-Jun-17	27-Jun-17	0%	0%	-44				
AB53530	H/O TX Room A to CLP	0	14-May-1		28-Jun-17		0%	0%	-44				
AB53540	CLP Installation for TX Room A	60	14-May-1	14-Jul-17	28-Jun-17	27-Aug-17	0%	0%	-44				
LV Switch Room 1 & 2													
Builders' Work													
AB16880	Construction plinth	5	25-Feb-17	01-Mar-17	17-Apr-17	26-Apr-17 A	100%	100%	-51				
AB16890	Wall rendering	9	02-Mar-17	10-Mar-17	28-Apr-17	08-May-17	100%	0%	-53				
AB16900	Wall tiling (1.5m high)	10	11-Mar-17	20-Mar-17	09-May-17	18-May-17	100%	0%	-53				
AB16910	Floor screeding	4	21-Mar-17	24-Mar-17	19-May-17	22-May-17	100%	0%	-53				
AB16920	Sealer on ceiling soffit & application of epoxy paint on wall	6	25-Mar-17	30-Mar-17	23-May-17	28-May-17	100%	0%	-53				
BS Installation													
AB16930	LV Switch Room 1 & 2 - MEP 2nd fix	14	31-Mar-17	16-Apr-17	29-May-17	12-Jun-17	100%	0%	-53				
AB16940	LV Switch Room 1 & 2 - Main Switch Board 1 & 2 Site Test	8	18-Apr-17	25-Apr-17	13-Jun-17	20-Jun-17	100%	0%	-53				
AB53560	LV Switch Room 1 & 2 - Install Main Switch Board 1 & 2	60	26-Apr-17	27-Jun-17	21-Jun-17	20-Aug-17	3.33%	0%	-53				
CBS Room													
Builder's Work													
AB16970	Construct plinth	5	25-Feb-17	01-Mar-17	28-Apr-17	04-May-17	100%	0%	-58				
AB16980	Wall rendering	9	02-Mar-17	10-Mar-17	05-May-17	13-May-17	100%	0%	-58				
AB16990	Wall tiling (1.5m high)	10	11-Mar-17	20-Mar-17	14-May-17	23-May-17	100%	0%	-58				
AB17000	Floor screeding	4	21-Mar-17	24-Mar-17	24-May-17	27-May-17	100%	0%	-58				
AB17010	Sealer on ceiling soffit & application of epoxy paint on wall	6	25-Mar-17	30-Mar-17	28-May-17	03-Jun-17	100%	0%	-58				
BS Installation													
AB17020	CBS Room - MEP 2nd fix	14	31-Mar-17	16-Apr-17	04-Jun-17	17-Jun-17	100%	0%	-58				
AB17030	CBS Room - CBS Installation & Termination	60	18-Apr-17	19-Jun-17	18-Jun-17	17-Aug-17	16.67%	0%	-58				
Main I.T. Room													
Builder's Work													
AB53570	Construct plinth	5	25-Feb-17	01-Mar-17	28-Apr-17	04-May-17	100%	0%	-58				
AB53580	Wall rendering	9	02-Mar-17	10-Mar-17	05-May-17	13-May-17	100%	0%	-58				
AB53590	Wall tiling (1.5m high)	10	11-Mar-17	20-Mar-17	14-May-17	23-May-17	100%	0%	-58				
AB53600	Floor screeding	4	21-Mar-17	24-Mar-17	24-May-17	27-May-17	100%	0%	-58				
AB53610	Sealer on ceiling soffit & application of epoxy paint on wall	6	25-Mar-17	30-Mar-17	28-May-17	03-Jun-17	100%	0%	-58				
BS Installation													
AB17070	Main I.T. Room - MEP 2nd fix	14	31-Mar-17	16-Apr-17	04-Jun-17	17-Jun-17	100%	0%	-58				
AB17080	Main I.T. Room - MEP Final fix	14	18-Apr-17	02-May-17	18-Jun-17	02-Jul-17	71.43%	0%	-58				

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
ICT														
Builders' Work														
AB18430	Sealer on ceiling soffit & on wall	7	17-May-1	23-May-17	14-Jul-17	20-Jul-17	0%	0%	-56		AB18430			
BS Installation														
AB18440	ICT Room - MEP 2nd fix	14	24-May-1	07-Jun-17	21-Jul-17	03-Aug-17	0%	0%	-56		AB18440			
Lighting Control Centre														
Builders' Work														
AB18490	Sealer on ceiling soffit & on wall	7	24-May-1	31-May-17	21-Jul-17	27-Jul-17	0%	0%	-56		AB18490			
General Builders' Work														
AB18020	Steel Post	10	27-Feb-17	08-Mar-17	28-Apr-17	09-May-17	100%	0%	-56			Steel Post		
AB18030	Blockwall	21	09-Mar-17	29-Mar-17	10-May-17	31-May-17	100%	0%	-56			Blockwall		
AB18040	Wall Plastering	21	30-Mar-17	23-Apr-17	01-Jun-17	21-Jun-17	100%	0%	-56			Wall Plastering		
AB18050	Floor Screeding	14	24-Apr-17	09-May-17	22-Jun-17	06-Jul-17	28.57%	0%	-56		AB18050			Floor Screeding
General BS Installation														
Electrical System														
AB54180	MEP 1st fix - LGF Sector G	30	30-Mar-17	04-May-17	01-Jun-17	30-Jun-17	83.33%	0%	-56					MEP 1st fix - LGF Sector G
AB54190	MEP 2nd fix - LGF Sector G	45	05-May-1	19-Jun-17	02-Jul-17	15-Aug-17	0%	0%	-56		AB54190			
Plumbing & Drainage														
AB54210	P&D 1st fix - LGF Sector G	30	30-Mar-17	04-May-17	01-Jun-17	30-Jun-17	83.33%	0%	-56					P&D 1st fix - LGF Sector G
AB54220	P&D 2nd fix - LGF Sector G	45	05-May-1	19-Jun-17	02-Jul-17	15-Aug-17	0%	0%	-56		AB54220			
FS System														
AB54240	FS 1st fix - LGF Sector G	30	30-Mar-17	04-May-17	01-Jun-17	30-Jun-17	83.33%	0%	-56					FS 1st fix - LGF Sector G
AB54250	FS 2nd fix - LGF Sector G	45	05-May-1	19-Jun-17	02-Jul-17	15-Aug-17	0%	0%	-56		AB54250			
HVAC System														
AB54270	HVAC 1st fix - LGF Sector G	30	30-Mar-17	04-May-17	01-Jun-17	30-Jun-17	83.33%	0%	-56					HVAC 1st fix - LGF Sector G
AB54280	HVAC 2nd fix - LGF Sector G	45	05-May-1	19-Jun-17	02-Jul-17	15-Aug-17	0%	0%	-56		AB54280			
LGF - Sector F														
General Builders' Work														
AB22530	Steel Post	14	26-Mar-17	09-Apr-17	21-Jun-17	05-Jul-17	100%	0%	-80					Steel Post
AB22540	Blockwall	14	10-Apr-17	26-Apr-17	06-Jul-17	19-Jul-17	100%	0%	-80		AB22540			Blockwall
AB22550	Wall Plastering	14	27-Apr-17	12-May-17	20-Jul-17	02-Aug-17	7.14%	0%	-80		AB22550			
General BS Installation														
Electrical System														
AB54330	MEP 1st fix - LGF Sector F	30	27-Apr-17	28-May-17	20-Jul-17	18-Aug-17	3.33%	0%	-80		AB54330			
Plumbing & Drainage														
AB54360	P&D 1st fix - LGF Sector F	30	27-Apr-17	28-May-17	20-Jul-17	18-Aug-17	3.33%	0%	-80		AB54360			
FS System														
AB54390	FS 1st fix - LGF Sector F	30	27-Apr-17	28-May-17	20-Jul-17	18-Aug-17	3.33%	0%	-80		AB54390			
HVAC System														
AB54420	HVAC 1st fix - LGF Sector F	30	27-Apr-17	28-May-17	20-Jul-17	18-Aug-17	3.33%	0%	-80		AB54420			
LGF - Sector G														
General Builders' Work														
AB21990	Steel Post	14	15-Mar-17	28-Mar-17	07-Jun-17	20-Jun-17	100%	0%	-77					Steel Post
AB22000	Blockwall	14	29-Mar-17	12-Apr-17	21-Jun-17	05-Jul-17	100%	0%	-77					Blockwall
AB22010	Wall Plastering	14	13-Apr-17	29-Apr-17	06-Jul-17	19-Jul-17	85.71%	0%	-77		AB22010			Wall Plastering
AB22020	Floor Screeding	21	30-Apr-17	22-May-17	20-Jul-17	09-Aug-17	0%	0%	-77		AB22020			
General BS Installation														
Electrical System														
AB54570	MEP 1st fix - LGF Sector G	30	13-Apr-17	17-May-17	06-Jul-17	04-Aug-17	40%	0%	-77		AB54570			
Plumbing & Drainage														
AB54600	P&D 1st fix - LGF Sector G	30	13-Apr-17	17-May-17	06-Jul-17	04-Aug-17	40%	0%	-77		AB54600			
FS System														
AB54630	FS 1st fix - LGF Sector G	30	13-Apr-17	17-May-17	06-Jul-17	04-Aug-17	40%	0%	-77		AB54630			
HVAC System														
AB54660	HVAC 1st fix - LGF Sector G	30	13-Apr-17	17-May-17	06-Jul-17	04-Aug-17	40%	0%	-77		AB54660			
Plantrooms														
M+ Water Tank														
AB22190	Waterproofing works & water	12	15-Mar-17	26-Mar-17	07-Jun-17	18-Jun-17	100%	0%	-77					Waterproofing works & water
AB22200	Plastering work (inside tank)	10	27-Mar-17	06-Apr-17	19-Jun-17	28-Jun-17	100%	0%	-77					Plastering work (inside tank)
AB22210	Wall & floor tiling	14	07-Apr-17	23-Apr-17	29-Jun-17	13-Jul-17	100%	0%	-77		AB22210			Wall & floor tiling
AB22220	Application of sealer on soffit (outside tank)	7	24-Apr-17	30-Apr-17	14-Jul-17	20-Jul-17	57.14%	0%	-77		AB22220			Application of sealer on soffit (outside tank)
AB22230	Cat ladder	7	02-May-1	09-May-17	21-Jul-17	27-Jul-17	0%	0%	-77		AB22230			
M+ Podium ABWF & BS Installation														
G/F - Sector B														
General Builder's Work														
AB23360	Drywall (MEP concealed items, close up panel)	14	13-Feb-17	26-Feb-17	28-Apr-17	13-May-17	100%	0%	-70					Drywall (MEP concealed items, close up panel)
AB23370	Floor Screeding	14	20-Feb-17	05-Mar-17	07-May-17	20-May-17	100%	0%	-70					Floor Screeding
General BS Installation														
Electrical System														
AB54810	MEP 1st fix - GF Sector B	30	13-Feb-17	14-Mar-17	28-Apr-17	29-May-17	100%	0%	-70					MEP 1st fix - GF Sector B
AB54820	MEP 2nd fix - GF Sector B	45	15-Mar-17	04-May-17	31-May-17	15-Jul-17	88.89%	0%	-70					MEP 2nd fix - GF Sector B
AB54830	MEP Final fix - GF Sector B	30	05-May-1	04-Jun-17	16-Jul-17	14-Aug-17	0%	0%	-70		AB54830			
Plumbing & Drainage														
AB54840	P&D 1st fix - GF Sector B	30	13-Feb-17	14-Mar-17	28-Apr-17	29-May-17	100%	0%	-70					P&D 1st fix - GF Sector B
AB54850	P&D 2nd fix - GF Sector B	45	15-Mar-17	04-May-17	31-May-17	15-Jul-17	88.89%	0%	-70					P&D 2nd fix - GF Sector B

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017				
										Apr 19	May 20	Jun 21	Jul 22	
AB54860	P&D Final fix - GF Sector B	30	05-May-1	04-Jun-17	16-Jul-17	14-Aug-17	0%	0%	-70					
FS System														
AB54870	FS 1st fix - GF Sector B	30	13-Feb-17	14-Mar-17	28-Apr-17	29-May-17	100%	0%	-70					
AB54880	FS 2nd fix - GF Sector B	45	15-Mar-17	04-May-17	31-May-17	15-Jul-17	88.89%	0%	-70					
AB54890	FS Final fix - GF Sector B	30	05-May-1	04-Jun-17	16-Jul-17	14-Aug-17	0%	0%	-70					
HVAC System														
AB54900	HVAC 1st fix - GF Sector B	30	13-Feb-17	14-Mar-17	28-Apr-17	29-May-17	100%	0%	-70					
AB54910	HVAC 2nd fix - GF Sector B	45	15-Mar-17	04-May-17	31-May-17	15-Jul-17	88.89%	0%	-70					
AB54920	HVAC Final fix - GF Sector B	30	05-May-1	04-Jun-17	16-Jul-17	14-Aug-17	0%	0%	-70					
Plantrooms														
MEP Rooms														
Builders' Work														
AB23380	Sealer on ceiling soffit & epoxy paint on wall	7	06-Jul-17	12-Jul-17	06-Jul-17	12-Jul-17	0%	0%	0					
BS Installation														
AB23390	MEP Room - MEP 2nd fix	5	13-Jul-17	17-Jul-17	13-Jul-17	17-Jul-17	0%	0%	0					
AB23400	MEP Room - MEP final fix	5	18-Jul-17	22-Jul-17	18-Jul-17*	22-Jul-17	0%	0%	0					
Final Finishes														
AB23410	Final coat of paint on wall	3	23-Jul-17	25-Jul-17	23-Jul-17	25-Jul-17	0%	0%	0					
AB23420	Sealer on floor	3	26-Jul-17	28-Jul-17	26-Jul-17	28-Jul-17	0%	0%	0					
G/F - Sector C														
General Builders' Work														
AB23780	Wall Plastering	7	23-May-1	29-May-17	23-May-17	29-May-17	0%	0%	0					
AB23790	Drywall (MEP consealed items, close up panel)	14	31-May-1	13-Jun-17	31-May-17	13-Jun-17	0%	0%	0					
AB23800	Floor Screeding	14	14-Jun-17	27-Jun-17	14-Jun-17	27-Jun-17	0%	0%	0					
General BS Installation														
Electrical System														
AB54930	MEP 1st fix - GF Sector C	30	23-May-1	22-Jun-17	23-May-17	22-Jun-17	0%	0%	0					
AB54940	MEP 2nd fix - GF Sector C	45	23-Jun-17	07-Aug-17	23-Jun-17	07-Aug-17	0%	0%	0					
Plumbing & Drainage														
AB54960	P&D 1st fix - GF Sector C	30	23-May-1	22-Jun-17	23-May-17	22-Jun-17	0%	0%	0					
AB54970	P&D 2nd fix - GF Sector C	45	23-Jun-17	07-Aug-17	23-Jun-17	07-Aug-17	0%	0%	0					
FS System														
AB54990	FS 1st fix - GF Sector C	30	23-May-1	22-Jun-17	23-May-17	22-Jun-17	0%	0%	0					
AB55000	FS 2nd fix - GF Sector C	45	23-Jun-17	07-Aug-17	23-Jun-17	07-Aug-17	0%	0%	0					
HVAC System														
AB55020	HVAC 1st fix - GF Sector C	30	23-May-1	22-Jun-17	23-May-17	22-Jun-17	0%	0%	0					
AB55030	HVAC 2nd fix - GF Sector C	45	23-Jun-17	07-Aug-17	23-Jun-17	07-Aug-17	0%	0%	0					
Plantrooms														
MEP Rooms														
Builder's Work														
AB23810	Sealer on ceiling soffit & epoxy paint on wall	7	28-Jun-17	05-Jul-17	28-Jun-17	05-Jul-17	0%	0%	0					
BS Installation														
AB23820	MEP Room - MEP 2nd fix	14	06-Jul-17	19-Jul-17	06-Jul-17	19-Jul-17	0%	0%	0					
AB23830	MEP Room - MEP final fix	14	20-Jul-17	02-Aug-17	20-Jul-17	02-Aug-17	0%	0%	0					
Workshops, Storages & Offices														
Storage														
AB23870	Application of sealer on wall, soffit and floor	7	28-Jun-17	05-Jul-17	28-Jun-17	05-Jul-17	0%	0%	0					
1M/F - Sector C														
AB26400	Maintenance platform installation	75	01-Apr-17	21-Jun-17	03-Jul-17	16-Sep-17	30.67%	0%	-86					
General BS Installation														
Electrical System														
AB55890	MEP 1st fix - 1MF Sector A	30	01-Apr-17	06-May-17	03-Jul-17	02-Aug-17	76.67%	0%	-86					
Plumbing & Drainage														
AB55920	P&D 1st fix - 1MF Sector A	30	01-Apr-17	06-May-17	03-Jul-17	02-Aug-17	76.67%	0%	-86					
FS System														
AB55950	FS 1st fix - 1MF Sector A	30	01-Apr-17	06-May-17	03-Jul-17	02-Aug-17	76.67%	0%	-86					
HVAC System														
AB55980	HVAC 1st fix - 1MF Sector A	30	01-Apr-17	06-May-17	03-Jul-17	02-Aug-17	76.67%	0%	-86					
3/F - Sector C - Tower Footprint														
General Builders' Work														
AB28650	Blockwall	10	26-May-1	05-Jun-17	20-Jul-17	29-Jul-17	0%	0%	-53					
General BS Installation														
Electrical System														
AB56790	MEP 1st fix - 3F Sector C	30	26-May-1	25-Jun-17	20-Jul-17	18-Aug-17	0%	0%	-53					
Plumbing & Drainage														
AB56820	P&D 1st fix - 3F Sector C	30	26-May-1	25-Jun-17	20-Jul-17	18-Aug-17	0%	0%	-53					
FS System														
AB56850	FS 1st fix - 3F Sector C	30	26-May-1	25-Jun-17	20-Jul-17	18-Aug-17	0%	0%	-53					
HVAC System														
AB56880	HVAC 1st fix - 3F Sector C	30	26-May-1	25-Jun-17	20-Jul-17	18-Aug-17	0%	0%	-53					
RDE ABWF & BS Installation														
Internal Finishes														
General Finishes														
A24140	G/F Builders' Works	51	05-May-1	25-Jun-17	25-Jun-17	16-Aug-17	0%	0%	-50					
A24150	1/F Builders' Works	51	29-May-1	20-Jul-17	20-Jul-17	09-Sep-17	0%	0%	-50					

Three Months Rolling Programme (3MRP) Month 19 - 30 Apr 2017

Activity ID	Activity Name	MICP D15 O3A	MICP D15 O3A	MICP D15 O3A	Start	Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	2017											
										Apr 19	May 20	Jun 21	Jul 22								
Statutory Inspection & OP																					
EPD																					
A55510	EPD Submission for GENSET Exhaust Flue	30	27-Feb-17	28-Mar-17	01-May-17	30-May-17	100%	0%	-63												
A55520	DG Store Submission for GENSET System	0	06-Jan-17		31-May-17		100%	0%	-145												



Lyric Theatre Complex

C. Action and Limit Levels for Construction Phase

Air Quality

The Action and Limit Levels for 1-hour and 24-hour TSP for the monitoring station are presented in following tables:

Table C-1: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (mg/m ³)	Limit Level (mg/m ³)
AM1	273.7	500
AM2A	274.2	500

Table C-2: Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
AM1	143.6	260
AM2A	151.1	260

Noise

The Action and Limit Levels for Noise for the monitoring stations are presented in following table:

Table C-3: Action and Limit Levels for Construction Noise

Time Period & Monitoring Locations	Action Level	Limit Level
NM1A		
0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)

D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact

Air Quality

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-1: Event and Action Plan for Air Quality

Event	Action			
	ET	IEC	WKCD A	Contractor
Action Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and WKCD A; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and WKCD A; 3. Advise the WKCD A on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCD A; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to WKCD A within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCD A, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD A informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the WKCD A on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event**Action**

2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none">1. Notify IEC, WKCDA, Contractor and EPD;2. Identify source;3. Repeat measurement to confirm findings;4. Increase monitoring frequency to daily;5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken;7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;8. If exceedance stops, cease additional monitoring.	<ol style="list-style-type: none">1. Check monitoring data submitted by ET;2. Check Contractor's working method;3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions;4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly;5. Monitor the implementation of remedial measures.	<ol style="list-style-type: none">1. Confirm receipt of notification of failure in writing;2. Notify Contractor;3. In consolidation with the IEC, agree on the remedial measures to be implemented;4. Ensure remedial measures properly implemented;5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	<ol style="list-style-type: none">1. Take immediate action to avoid further exceedance;2. Submit proposals for remedial actions to IEC within three working days of notification;3. Implement the agreed proposals;4. Resubmit proposals if problem still not under control;5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.
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Construction Noise

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-2: Event and Action Plan for Construction Noise

Event	Action			
	ET	IEC	WKCD	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify WKCD, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCD and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCD accordingly; 3. Advise the WKCD on the effectiveness of the proposed remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and WKCD; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, WKCD, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCD on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst WKCD, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCD accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCD within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCD until the exceedance is abated.

Landscape and Visual Impact

In case of non-compliance of landscape and visual impacts, procedures in accordance with the Event and Action Plan should be followed:

Table D-3: Event and Action Plan for Landscape and Visual Impact

Event	Action			
	ET	IEC	WKCD A	Contractor
Design Check	<ol style="list-style-type: none"> 1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report. 	<ol style="list-style-type: none"> 1. Check report submitted by ET; 2. Recommend remedial design if necessary. 	<ol style="list-style-type: none"> 1. Undertake remedial design if necessary. 	-
Non-conformity on one occasion	<ol style="list-style-type: none"> 1. Identify source of non-conformity; 2. Report to IEC and WKCD A; 3. Discuss remedial actions with IEC, WKCD A and Contractor; 4. Monitor remedial actions until rectification has been completed. 	<ol style="list-style-type: none"> 1. Check and verify source of non-conformity; 2. Discuss remedial actions with ET and Contractor; 3. Advise WKCD A on effectiveness of proposed remedial actions; 4. Check implementation of remedial actions. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated conformity	<ol style="list-style-type: none"> 1. Identify source of non-conformity; 2. Report to IEC and WKCD A; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, WKCD A and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity rectified, reduce monitoring frequency back to normal. 	<ol style="list-style-type: none"> 1. Check and verify source of non-conformity; 2. Check Contractor's working method; 3. Discuss remedial actions with ET and Contractor; 4. Advise WKCD A on effectiveness of proposed remedial actions; 5. Supervise implementation of remedial actions. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

MAY 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	5	6
7	8	9	10 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	11	12	13
14	15	16 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	17	18	19	20
21	22 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	23	24	25	26 AM1, AM2A - 24hrTSP, 1hr TSP x3	27
28	29	30	31			
		Notes: AM1 - International Commerce Centre (ICC) AM2A - Austin Road West (Opposite to The Harbourside) NM1A - International Commerce Centre (ICC)				

JUNE 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	2	3
4	5	6	7 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	8	9	10
11	12	13 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	14	15	16	17
18	19 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	20	21	22	23 AM1, AM2A - 24hrTSP, 1hr TSP x3	24
25	26	27	28	29 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	30	
		Notes: AM1 - International Commerce Centre (ICC) AM2A - Austin Road West (Opposite to The Harbourside) NM1A - International Commerce Centre (ICC)				

F. Calibration Certifications

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM1(ICC)
 Calibrated by : K.T.Ho
 Date : 12/04/2017

Sampler

Model : TE-5170
 Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 20 Mar 2017
 Slope (m) : 2.08464
 Intercept (b) : -0.03684
 Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1014
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	10.0	3.196	1.551	57	57.61
2 13 holes	8.2	2.894	1.406	50	50.54
3 10 holes	6.0	2.476	1.205	42	42.45
4 7 holes	4.2	2.071	1.011	34	34.36
5 5 holes	2.4	1.566	0.769	22	22.24

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 44.426 Intercept(b): -11.359 Correlation Coefficient(r): 0.9991

Checked by: 
 Magnum Fan

Date: 18/04/2017

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM2A (Harbourside)
 Calibrated by : K.T.Ho
 Date : 12/04/2017

Sampler

Model : TE-5170
 Serial Number : S/N 8919

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 20 Mar 2017
 Slope (m) : 2.08464
 Intercept (b) : -0.03684
 Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1014
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.8	3.472	1.683	54	54.58
2 13 holes	8.8	2.998	1.456	46	46.49
3 10 holes	6.8	2.636	1.282	39	39.42
4 7 holes	4.2	2.071	1.011	30	30.32
5 5 holes	2.2	1.499	0.737	21	21.23

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 35.358 Intercept(b): -5.218 Correlation Coefficient(r): 0.9994

Checked by: 
 Magnum Fan

Date: 18/04/2017



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 20, 2017 Rootmeter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 759.46

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.4390	3.2	2.00
2	NA	NA	1.00	1.0240	6.4	4.00
3	NA	NA	1.00	0.9170	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7200	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0120	0.7033	1.4257	0.9958	0.6920	0.8784
1.0078	0.9842	2.0163	0.9916	0.9683	1.2423
1.0057	1.0967	2.2543	0.9895	1.0791	1.3889
1.0045	1.1507	2.3643	0.9884	1.1322	1.4567
0.9992	1.3878	2.8514	0.9831	1.3654	1.7568
Qstd slope (m) = 2.08464			Qa slope (m) = 1.30537		
intercept (b) = -0.03684			intercept (b) = -0.02270		
coefficient (r) = 0.99994			coefficient (r) = 0.99994		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/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}

CALIBRATION CERTIFICATE

Date: December 21, 2016

Equipment Name	:	Digital Dust Indicator, Model LD-3B
Code No.	:	080000-42
Quantity	:	1 unit
Serial No.	:	276020
Sensitivity	:	0.001 mg/m ³
Sensitivity Adjustment	:	787CPM
Scale Setting	:	December 16, 2016

We hereby certify that the above mentioned instrument has been calibrated satisfactorily.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Shintaro Okamura

Shintaro Okamura

Overseas Sales Division

TEST CERTIFICATE

Report No. 16-1879-1.

CUSTOMER : INNOTECH INSTRUMENTATION CO.LTD.



SIBATA SCIENTIFIC TECHNOLOGY LTD.
DATE 19/ December /2016

APPROVE BY 	VERIFIED BY 	ISSUED BY
----------------	-----------------	---------------

PRODUCT NAME	: Digital Dust Indicator
MODEL NUMBER	: LD-3B
SERIAL NUMBER	: 276020
CALIBRATION DATE	: 16- December -2016

Testing Category	Judging Standard	Judgment			Inspection chart
		Reading of Master	Reading of this Instrument	Correction	
Function Test	Switch, Display, Wiring will normally function	OK			Reference Value(S)
Sensitivity Calibration	Count is $\pm 2\%$ accurate to the master by the standard calibration particle	799 CPM	795 CPM	-0.5 %	
Dust Concentration Measuring	Count is $\pm 10\%$ accurate to the master under the 3 different concentration.	2053 CPM	1979 CPM	-3.6 %	787 CPM
Reproducibility	The difference between maximum and minimum value of sensitivity adjustment scale setting must be 5.0 % or less of maximum value. (The results of measurement of sensitivity adjustment in 5 times are within this range.)	978 CPM	957 CPM	-2.1 %	Test atmosphere
	Synthetic Judgment	516 CPM	507 CPM	-1.7 %	
		OK			Temperature
					Humidity
					23 °C
					45 %


REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

REPORT NO. : HK1710039
 PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017
 CUSTOMER : Envirotech Services Company
 ADDRESS : Rm. 113, 1/F., MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.

REPORT NO. : HK1710039
 PROJECT ITEM NO. : HK1710039-01
PERFORMANCE CHECK / CALIBRATED EQUIPMENT
 TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 276020
 EQUIPMENT NO. : ---
 RECEIPT DATE : 11/01/2017
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

PERFORMANCE CHECK / CALIBRATION Information

CODE	Calibration Parameter	Method Procedure	Reference Method
Dust PC/CAL	Performance Check / Calibration of Dust Meter	CAL003	General Technical Requirements of Environmental Monitoring, Environmental Monitoring & Audit Guidelines for Development Projects in HK

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 2. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Approved Signatory :

Issue Date: 17/01/2017

 Wong Po Yan Pauline
 (Testing Engineer)


REPORT OF PERFORMANCE CHECK / CALIBRATION

PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017
 REPORT NO. : HK1710039

PERFORMANCE CHECK / CALIBRATED EQUIPMENT

TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 276020
 EQUIPMENT NO. : ---
 SENSITIVITY ADJUSTMENT : ---
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

STANDARD EQUIPMENT

TYPE : HIGH VOLUME AIR SAMPLER
 MANUFACTURER : TISCH
 MODEL NO. : TE-5170
 EQUIPMENT REF NO. : PTL_HV002
 LAST CALIBRATION DATE : 23/11/2016

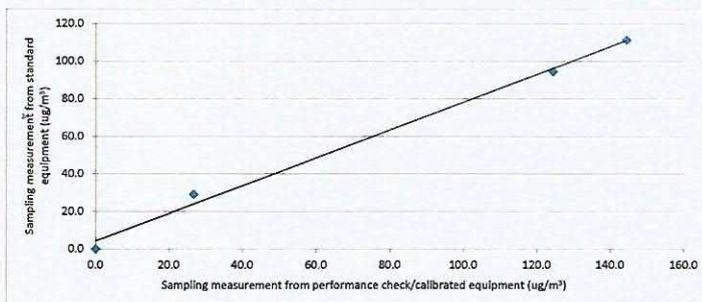
EQUIPMENT PERFORMANCE CHECK / CALIBRATION RESULTS:

Sensitivity Adjustment Scale Setting (Before Performance check / Calibration): 787 CPM
 Sensitivity Adjustment Scale Setting (After Performance check / Calibration): 787 CPM

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard equipment) (Y - Axis)	Total Count ² (Performance Check / Calibrated equipment)	Concentration in Count/Minute ³ (Performance Check / Calibrated equipment) (X - Axis)
Zero Check ¹	12/01/2017,10:00:00 AM	19	1016	0	0	0
1	12/01/2017,11:10:00 AM	19	1016	95	7462	124
2	12/01/2017,2:30:00 PM	19	1016	111	8670	145
3	12/01/2017,3:34:00 PM	19	1016	29	1600	27

Linear Regression of Y on X

Slope (K- factor) : 0.7
 Correlation Coefficient : 0.9972
 Validity of Performance Check / Calibration Record : 12/01/2018



- Notes : 1. Zero check conducted as per CAL003 SOP and manufacturer's manual as appropriate.
 2. Total Count was measured by Digital Dust Indicator.
 3. Count/minute was calculated by (Total Count/60)
 4. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 5. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Operator: MA Ching Him, Jackey Signature: [Signature] Date: 12/01/2017

Checked by: Wong Po Yan, Pauline Signature: [Signature] Date: 17/01/2017

CALIBRATION CERTIFICATE

Date: December 21, 2016

Equipment Name	:	Digital Dust Indicator, Model LD-3B
Code No.	:	080000-42
Quantity	:	1 unit
Serial No.	:	2Z6240
Sensitivity	:	0.001 mg/m ³
Sensitivity Adjustment	:	565CPM
Scale Setting	:	December 16, 2016

We hereby certify that the above mentioned instrument has been calibrated satisfactorily.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Shintaro Okamura

Shintaro Okamura

Overseas Sales Division

TEST CERTIFICATE

Report No. 16-1879-2
SIBATA SCIENTIFIC TECHNOLOGY LTD.
 DATE 19/ December /2016

CUSTOMER : INNOTECH INSTRUMENTATION CO.LTD.



APPROVE BY 	VERIFIED BY 	ISSUED BY 
---	--	--

PRODUCT NAME : Digital Dust Indicator
MODEL NUMBER : LD-3B
SERIAL NUMBER : 2Z6240
CALIBRATION DATE : 16-- December --2016

Testing Category	Judging Standard	Judgment		
		Reading of Master	Reading of this Instrument	Correction
Function Test	Switch, Display, Wiring will normally function	OK		
Sensitivity Calibration	Count is $\pm 2\%$ accurate to the master by the standard calibration particle	798 CPM	796 CPM	-0.3%
Dust Concentration Measuring	Count is $\pm 10\%$ accurate to the master under the 3 different concentration.	2053 CPM	1989 CPM	-3.1%
		978 CPM	966 CPM	-1.2%
Reproducibility	The difference between maximum and minimum value of sensitivity adjustment scale setting must be 5.0 % or less of maximum value. (The results of measurement of sensitivity adjustment in 5 times are within this range.)	516 CPM	515 CPM	-0.2%
		OK		
Synthetic Judgment		Good		
		Reference Value(S)		
		565 CPM		
		Test atmosphere		
		Temperature	Humidity	
		23 °C	45 %	


REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

REPORT NO. : HK1710040
 PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017

CUSTOMER : Envirotech Services Company
 ADDRESS : Rm. 113, 1/F., MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.

REPORT NO. : HK1710040
 PROJECT ITEM NO. : HK1710040-01
PERFORMANCE CHECK / CALIBRATED EQUIPMENT
 TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 2Z6240
 EQUIPMENT NO. : ---
 RECEIPT DATE : 11/01/2017
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

PERFORMANCE CHECK / CALIBRATION Information

CODE	Calibration Parameter	Method Procedure	Reference Method
Dust PC/CAL	Performance Check / Calibration of Dust Meter	CAL003	General Technical Requirements of Environmental Monitoring, Environmental Monitoring & Audit Guidelines for Development Projects in HK

- Notes : 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 2. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Approved Signatory :

Issue Date: 17/01/2017

Wong Po Yan Pauline
 (Testing Engineer)


REPORT OF PERFORMANCE CHECK / CALIBRATION

PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017
 REPORT NO. : HK1710040

PERFORMANCE CHECK / CALIBRATED EQUIPMENT

TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 2Z6240
 EQUIPMENT NO. : ---
 SENSITIVITY ADJUSTMENT : ---
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

STANDARD EQUIPMENT

TYPE : HIGH VOLUME AIR SAMPLER
 MANUFACTURER : TISCH
 MODEL NO. : TE-5170
 EQUIPMENT REF NO. : PTL_HV002
 LAST CALIBRATION DATE : 23/11/2016

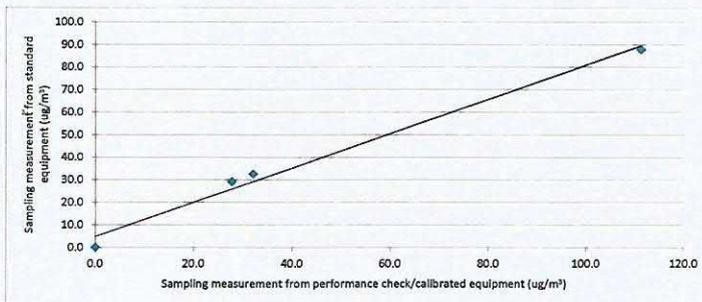
EQUIPMENT PERFORMANCE CHECK / CALIBRATION RESULTS:

Sensitivity Adjustment Scale Setting (Before Performance check / Calibration): 565 CPM
 Sensitivity Adjustment Scale Setting (After Performance check / Calibration): 565 CPM

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard equipment) (Y - Axis)	Total Count ² (Performance Check / Calibrated equipment)	Concentration in Count/Minute ³ (Performance Check / Calibrated equipment) (X - Axis)
Zero Check ¹	12/01/2017, 10:00:00 AM	19	1016	0	0	0
1	12/01/2017, 12:15:00 PM	19	1016	88	6680	111
2	12/01/2017, 1:25:00 PM	19	1016	33	1924	32
3	12/01/2017, 3:34:00 PM	19	1016	29	1664	28

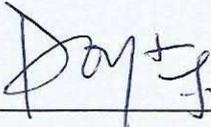
Linear Regression of Y on X

Slope (K- factor) : 0.8
 Correlation Coefficient : 0.9940
 Validity of Performance Check / Calibration Record : 12/01/2018



- Notes : 1. Zero check conducted as per CAL003 SOP and manufacturer's manual as appropriate.
 2. Total Count was measured by Digital Dust Indicator.
 3. Count/minute was calculated by (Total Count/60)
 4. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 5. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Operator: MA Ching Him, Jackey Signature: _____ Date: 12/01/2017

Checked by: Wong Po Yan, Pauline Signature:  Date: 17/01/2017



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C164166
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1465) Date of Receipt / 收件日期 : 20 July 2016

Description / 儀器名稱 : Precision Integrating Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-18
Serial No. / 編號 : 00360030
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(55 \pm 20)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

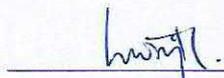
DATE OF TEST / 測試日期 : 29 July 2016

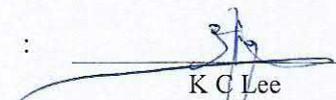
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 
測試 : _____
H T Wong
Technical Officer

Certified By : 
核證 : _____
K C Lee
Project Engineer

Date of Issue : 1 August 2016
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 – 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C164166
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	A	Fast	94.00	1	94.4	± 0.7

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
60 - 120	LA	A	Fast	94.00	1	94.4 (Ref.)
				104.00		104.4
				114.00		114.4

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

- 6.2 Time Weighting

- 6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	A	Fast	94.00	1	94.4	Ref.
			Slow			94.4	± 0.1

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C164166
證書編號

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
50 -110	LA	A	Fast	106.00	Continuous	106.0	Ref.
	LAmx				200 ms	105.1	-1.0 ± 1.0
	LA	Slow	Continuous		106.0	Ref.	
	LAmx		500 ms		102.4	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LA	A	Fast	94.00	31.5 Hz	54.7	-39.4 ± 1.5
					63 Hz	68.0	-26.2 ± 1.5
					125 Hz	78.0	-16.1 ± 1.0
					250 Hz	85.6	-8.6 ± 1.0
					500 Hz	91.1	-3.2 ± 1.0
					1 kHz	94.4	Ref.
					2 kHz	95.7	+1.2 ± 1.0
					4 kHz	95.5	+1.0 ± 1.0
					8 kHz	93.3	-1.1 (+1.5 ; -3.0)
12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)					

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LC	C	Fast	94.00	31.5 Hz	91.3	-3.0 ± 1.5
					63 Hz	93.5	-0.8 ± 1.5
					125 Hz	94.2	-0.2 ± 1.0
					250 Hz	94.4	0.0 ± 1.0
					500 Hz	94.5	0.0 ± 1.0
					1 kHz	94.4	Ref.
					2 kHz	94.3	-0.2 ± 1.0
					4 kHz	93.6	-0.8 ± 1.0
					8 kHz	91.4	-3.0 (+1.5 ; -3.0)
12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)					

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C164166

證書編號

6.4 Time Averaging

UUT Setting				Applied Value					UUT	IEC 60804
Range (dB)	Mode	Frequency Weighting	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
50 - 110	LAeq	A	10 sec.	4	1		110	100	100.1	± 0.5
			60 sec.					90	89.9	± 0.5
			5 min.					80	79.6	± 1.0
								70	69.7	± 1.0

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 307435

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value :

94 dB	31.5 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C163248

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1307) Date of Receipt / 收件日期 : 10 June 2016

Description / 儀器名稱 : Sound Level Calibrator
Manufacturer / 製造商 : Rion
Model No. / 型號 : NC-73
Serial No. / 編號 : 10997142
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(55 \pm 20)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 15 June 2016

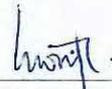
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By
測試


H T Wong
Technical Officer

Certified By
核證


K C Lee
Project Engineer

Date of Issue
簽發日期

17 June 2016

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 1 of 2

Certificate of Calibration

校正證書

Certificate No. : C163248
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C153519
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.7	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.985	1 kHz $\pm 2\%$	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

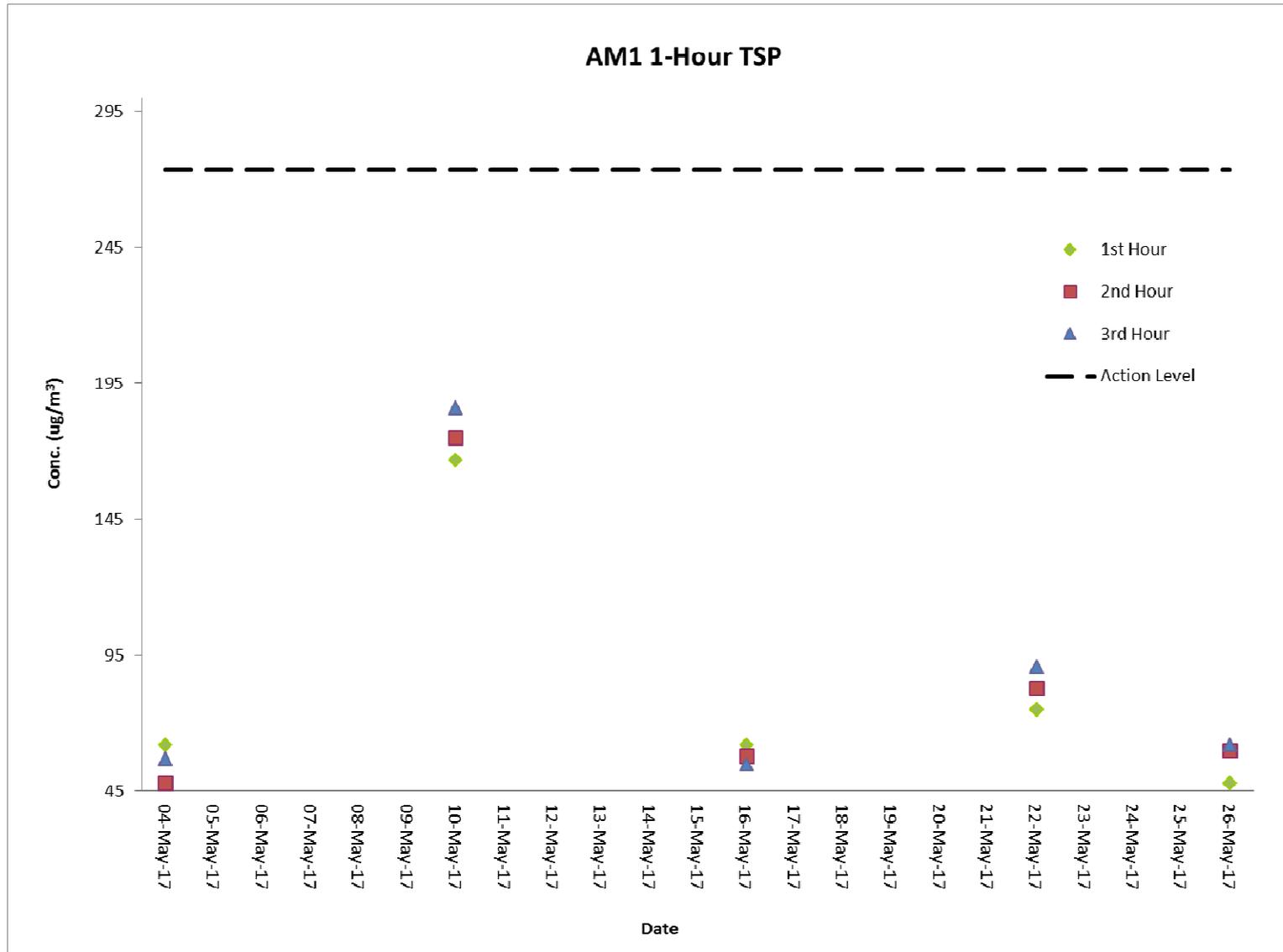
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

G. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM1 (1-hour TSP)

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
04-May-17	Cloudy	10:42 - 16:00	62	48	57	273.7	500
10-May-17	Cloudy	10:50 - 16:00	167	175	186	273.7	500
16-May-17	Cloudy	10:37 - 16:00	62	58	55	273.7	500
22-May-17	Cloudy	11:00 - 16:00	75	83	91	273.7	500
26-May-17	Cloudy	8:02 - 11:02	48	60	62	273.7	500

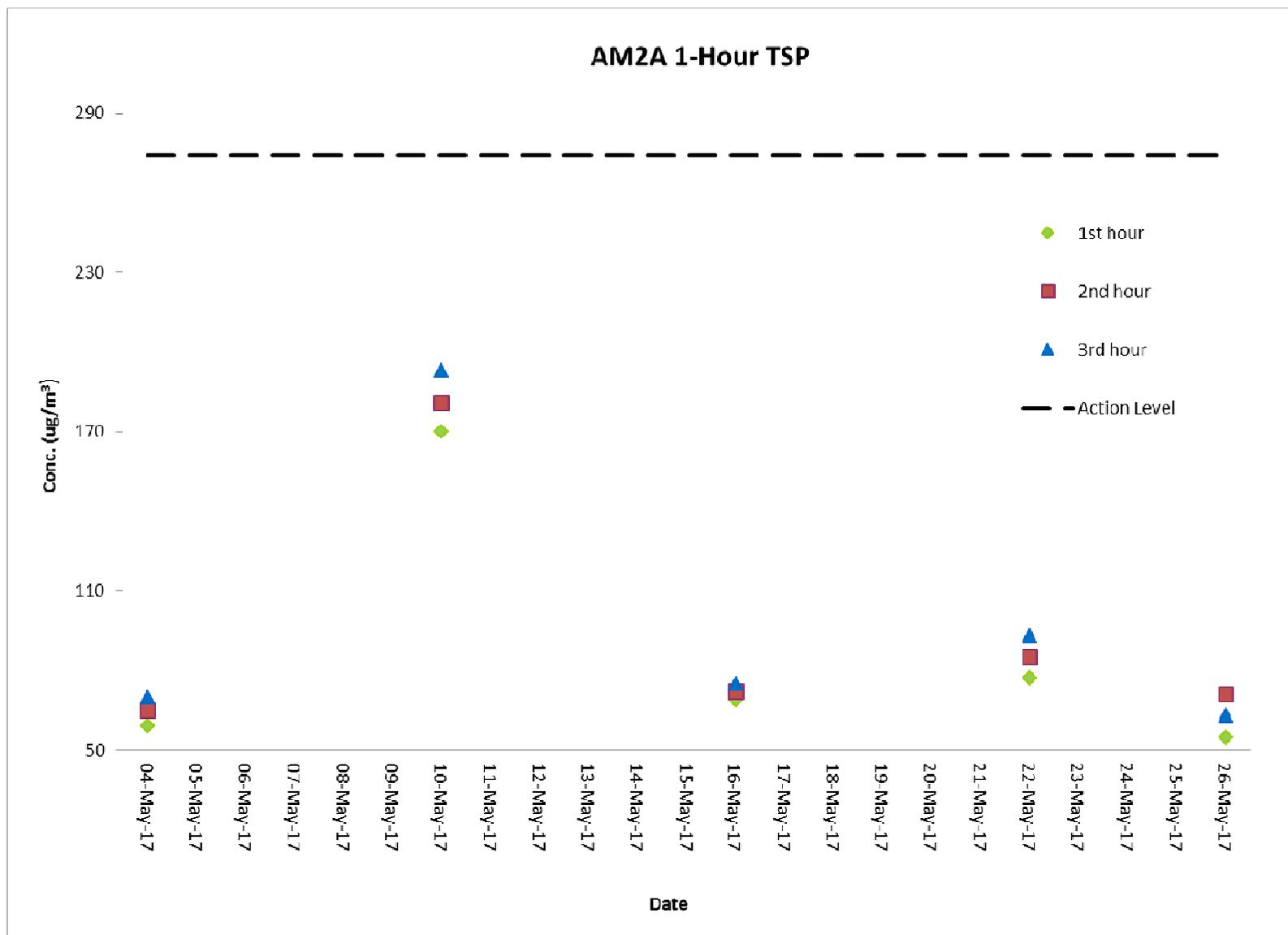
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



Air Quality Monitoring Result at Station AM2A (1-hour TSP)

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
04-May-17	Cloudy	10:55 - 16:10	59	65	70	274.2	500
10-May-17	Cloudy	11:02 - 16:10	170	181	193	274.2	500
16-May-17	Cloudy	10:50 - 16:10	69	72	75	274.2	500
22-May-17	Cloudy	11:12 - 16:10	77	85	93	274.2	500
26-May-17	Cloudy	8:14 - 11:14	55	71	63	274.2	500

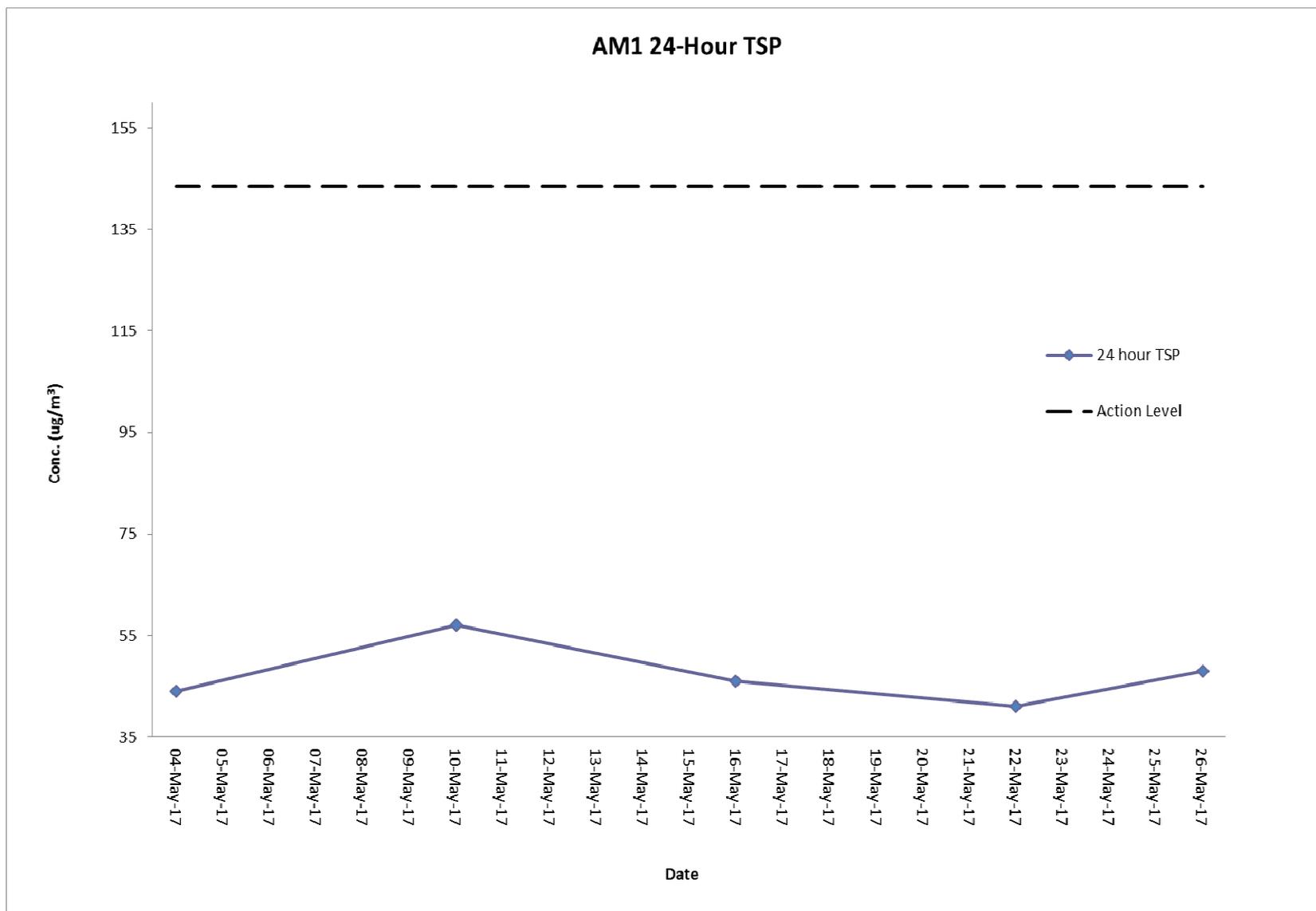
Graphical Presentation of Air Quality Monitoring Result at Station AM2A (1-hour TSP)



Air Quality Monitoring Result at Station AM1 (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
04-May-17	10:40	05-May-17	10:40	2.7771	2.857	21000.38	21024.38	24	1.25	1.25	1.25	44	Cloudy	143.6	260
10-May-17	10:48	11-May-17	10:48	2.7647	2.8678	21024.38	21048.38	24	1.25	1.25	1.25	57	Cloudy	143.6	260
16-May-17	10:35	17-May-17	10:35	2.7668	2.8491	21048.38	21072.38	24	1.25	1.25	1.25	46	Cloudy	143.6	260
22-May-17	10:48	23-May-17	10:48	2.7673	2.8411	21072.38	21096.38	24	1.25	1.25	1.25	41	Cloudy	143.6	260
26-May-17	08:00	27-May-17	08:00	2.7735	2.86	21096.38	21120.38	24	1.25	1.25	1.25	48	Cloudy	143.6	260

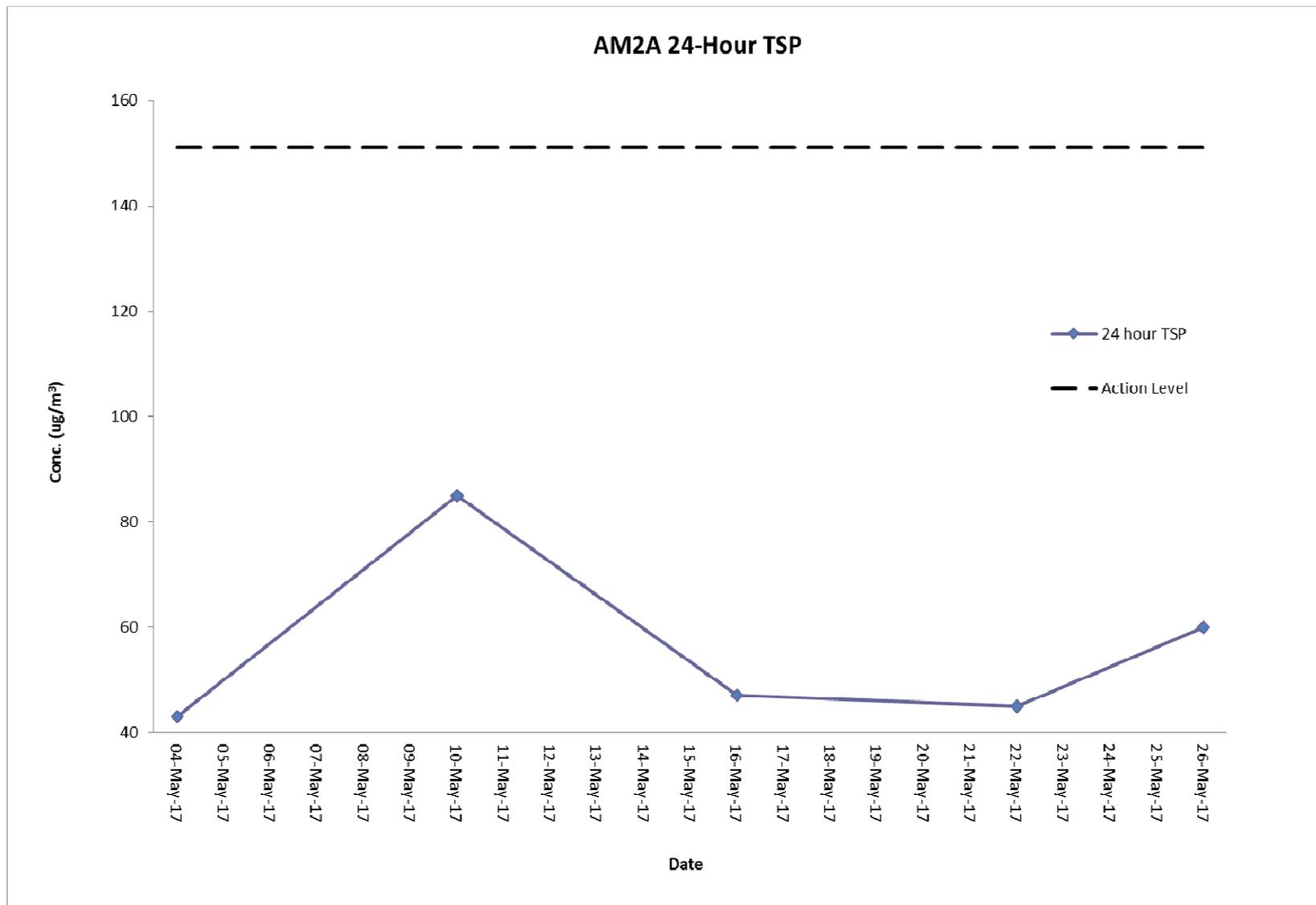
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



Air Quality Monitoring Result at Station AM2A (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
04-May-17	10:52	05-May-17	10:52	2.7729	2.8521	16655.59	16679.59	24	1.28	1.28	1.28	43	Cloudy	151.1	260
10-May-17	11:00	11-May-17	11:00	2.7649	2.9222	16679.59	16703.59	24	1.28	1.28	1.28	85	Cloudy	151.1	260
16-May-17	10:47	17-May-17	10:47	2.7755	2.8619	16703.59	16727.59	24	1.28	1.28	1.28	47	Cloudy	151.1	260
22-May-17	11:10	23-May-17	11:10	2.7684	2.8519	16727.59	16751.59	24	1.28	1.28	1.28	45	Cloudy	151.1	260
26-May-17	08:12	27-May-17	08:12	2.7601	2.8711	16751.59	16775.59	24	1.28	1.28	1.28	60	Cloudy	151.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM2A (24-hour TSP)



Noise Monitoring Result at Station NM1A

Date	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq} (30 min.) dB(A)
04-May-17	14:00	66.0	62.1	69
04-May-17	14:05	67.4	63.0	
04-May-17	14:10	68.8	64.1	
04-May-17	14:15	67.9	63.9	
04-May-17	14:20	66.7	62.7	
04-May-17	14:25	68.8	64.8	
10-May-17	14:00	66.9	62.1	68
10-May-17	14:05	68.0	64.1	
10-May-17	14:10	67.9	63.4	
10-May-17	14:15	65.8	61.7	
10-May-17	14:20	66.7	62.2	
10-May-17	14:25	67.1	63.7	
16-May-17	14:00	66.0	61.1	69
16-May-17	14:05	66.4	62.3	
16-May-17	14:10	68.9	64.1	
16-May-17	14:15	67.7	63.8	
16-May-17	14:20	66.2	62.7	
16-May-17	14:25	68.7	64.7	
22-May-17	14:00	68.1	64.1	68
22-May-17	14:05	66.7	62.9	
22-May-17	14:10	67.7	63.4	
22-May-17	14:15	66.9	62.8	
22-May-17	14:20	67.4	63.0	
22-May-17	14:25	66.0	61.7	

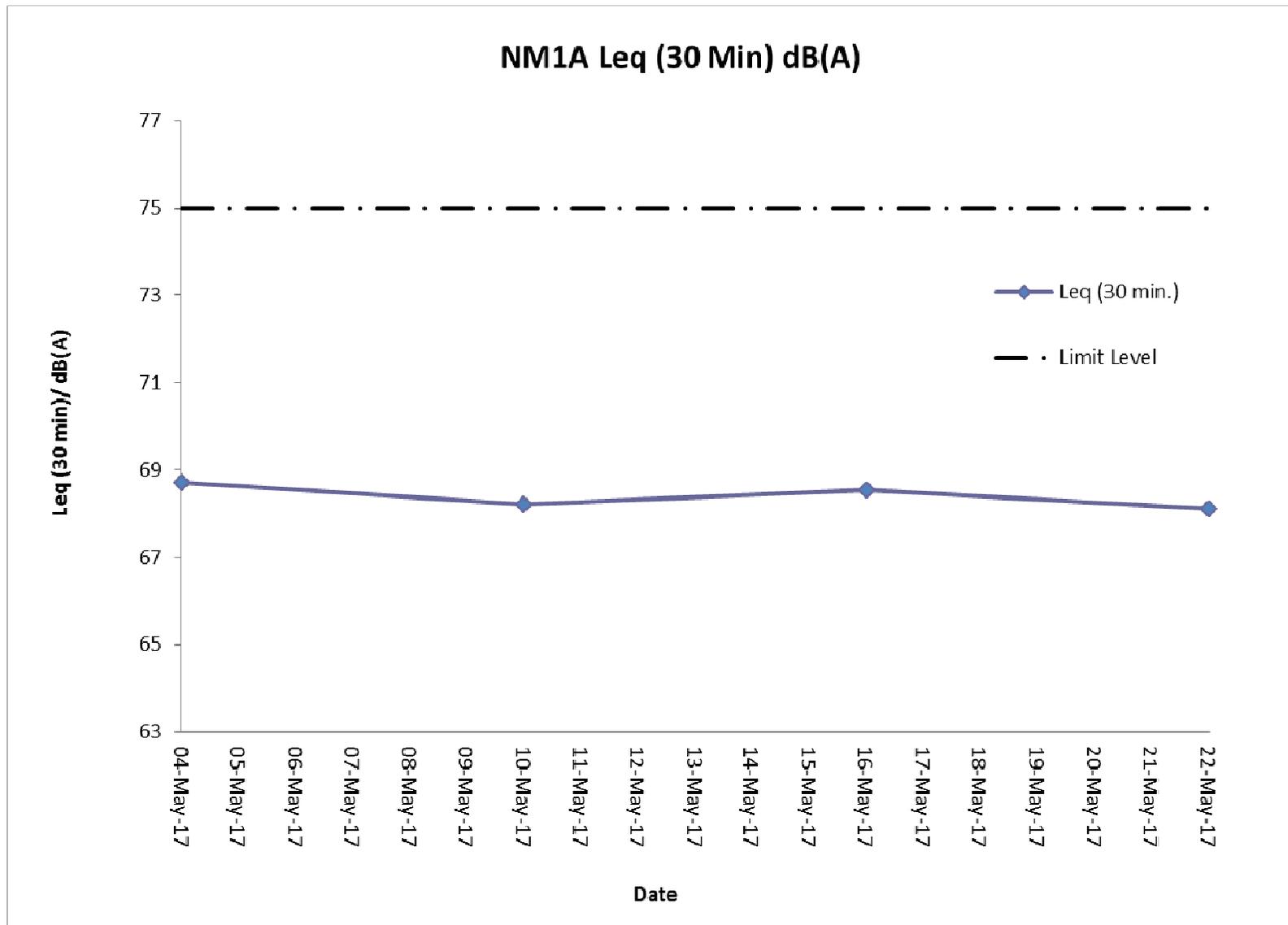
Remarks:

+3dB (A) correction was applied to free-field measurement.



The station set-up of a free-field measurement at Station NM1A.

Graphical Presentation Noise Monitoring Result at Station NM1A

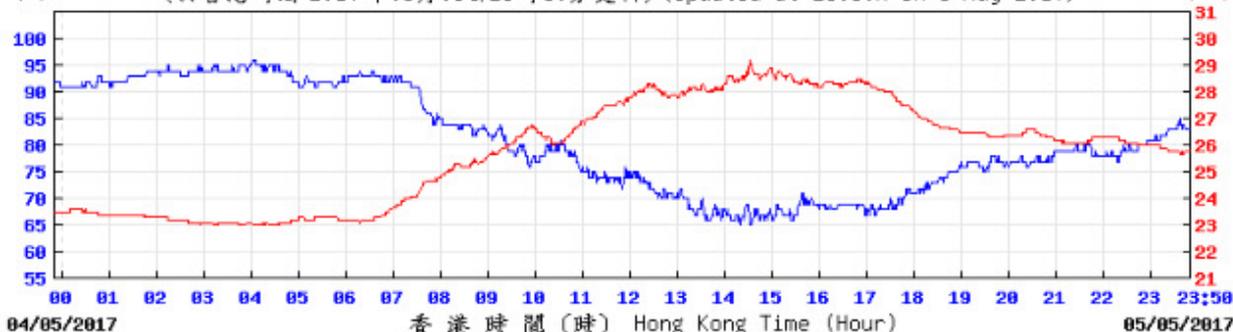


H. Meteorological Data Extracted from Hong Kong Observatory

Extract of Meteorological Observations for King's Park Automatic Weather Station, May 2017

Temperature/Humidity:

(%) (於香港時間 2017年05月05日23時50分更新) (Updated at 23:50H on 5 May 2017) (°C)



04/05/2017

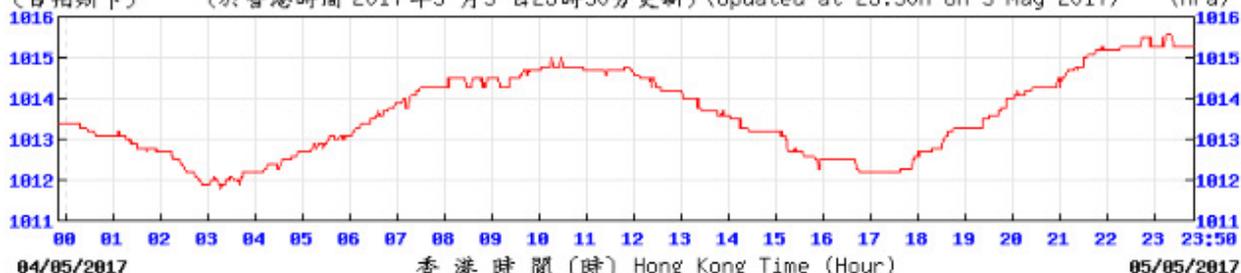
香港時間 (時) Hong Kong Time (Hour)

05/05/2017

© 香港天文台 Hong Kong Observatory

Pressure:

(百帕斯卡) (於香港時間 2017年5月5日23時50分更新) (Updated at 23:50H on 5 May 2017) (hPa)



04/05/2017

香港時間 (時) Hong Kong Time (Hour)

05/05/2017

© 香港天文台 Hong Kong Observatory

Wind Direction:

(於香港時間 2017年05月05日23時50分更新) (Updated at 23:50H on 5 May 2017)



04/05/2017

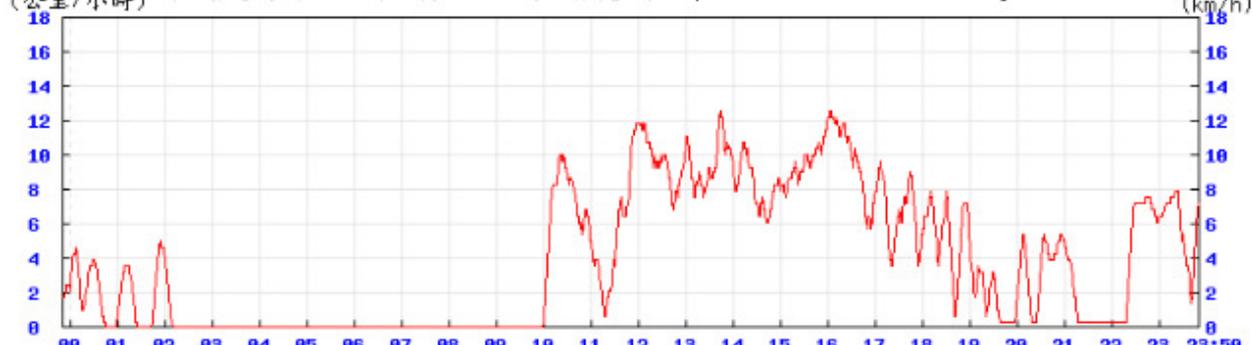
香港時間 (時) Hong Kong Time (Hour)

05/05/2017

© 香港天文台 Hong Kong Observatory

Wind Speed:

(公里/小時) (於香港時間 2017年5月5日23時50分更新) (Updated at 23:50H on 5 May 2017) (km/h)



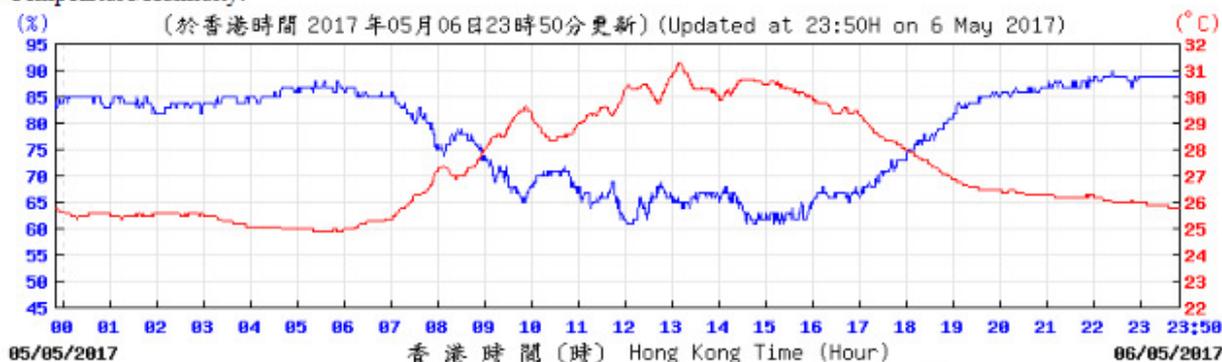
04/05/2017

香港時間 (時) Hong Kong Time (Hour)

05/05/2017

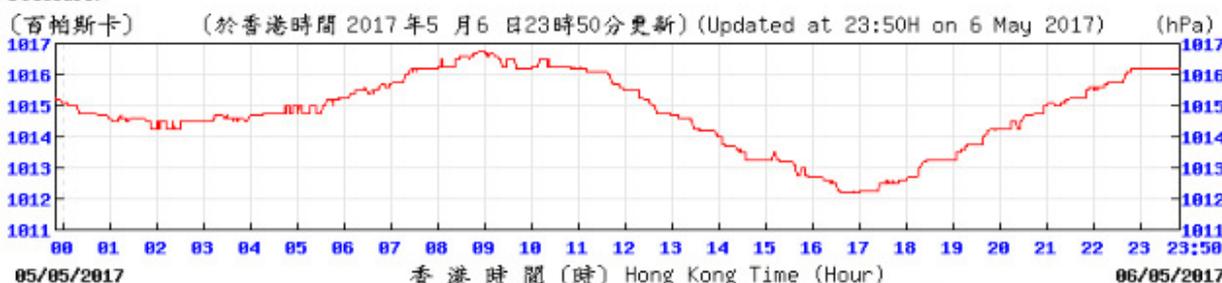
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



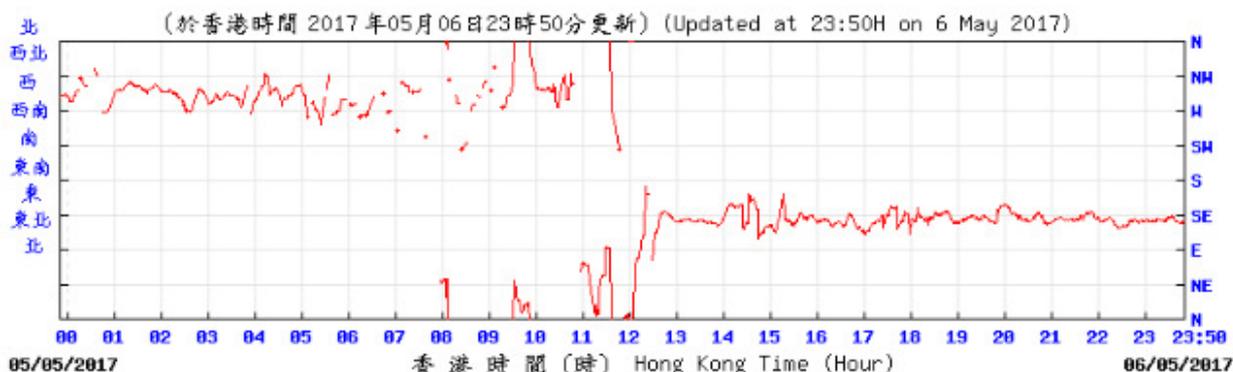
© 香港天文台 Hong Kong Observatory

Pressure:



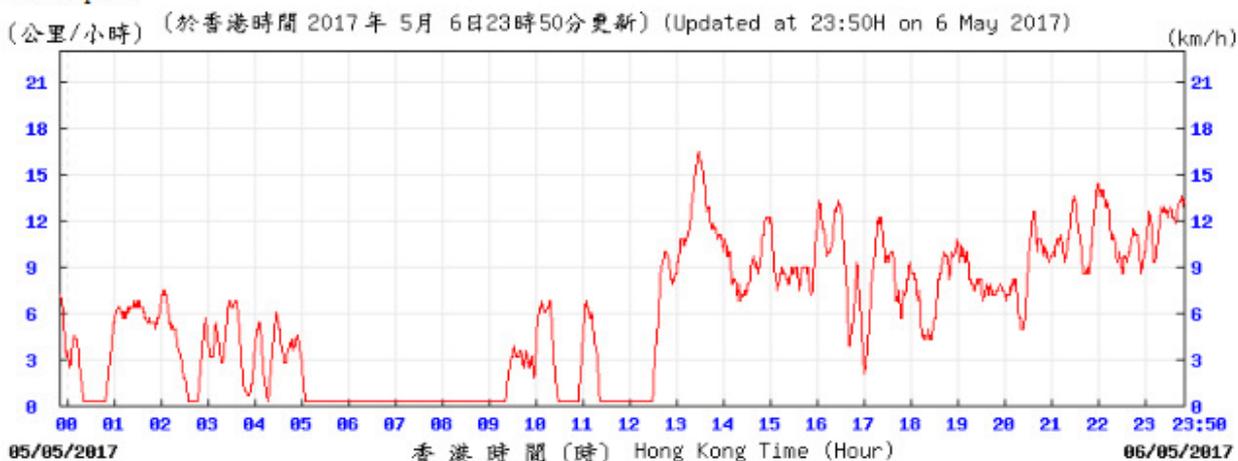
© 香港天文台 Hong Kong Observatory

Wind Direction:



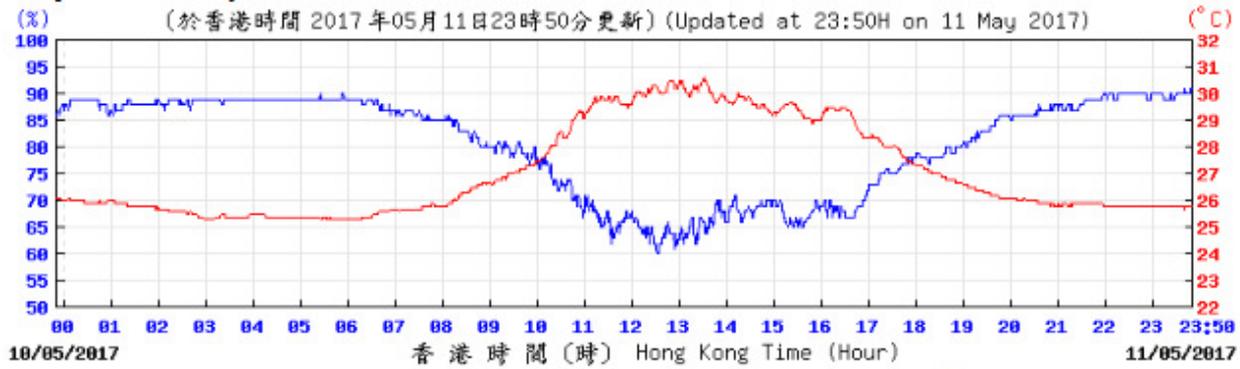
© 香港天文台 Hong Kong Observatory

Wind Speed:



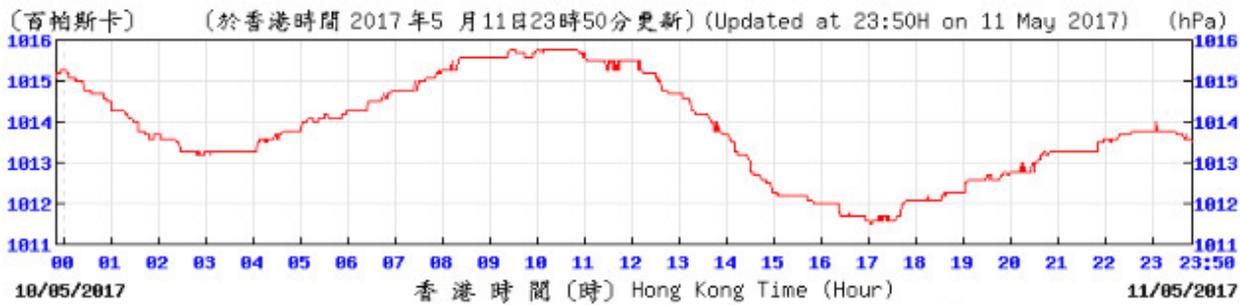
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



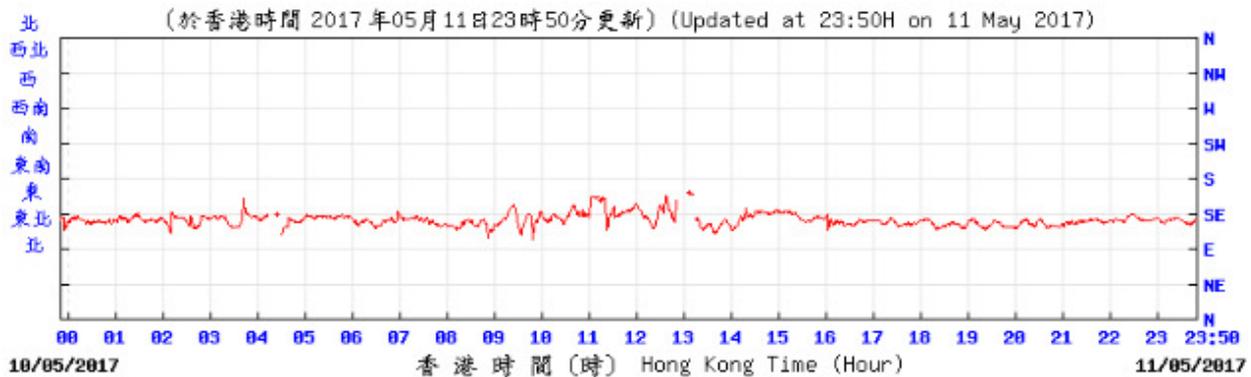
© 香港天文台 Hong Kong Observatory

Pressure:



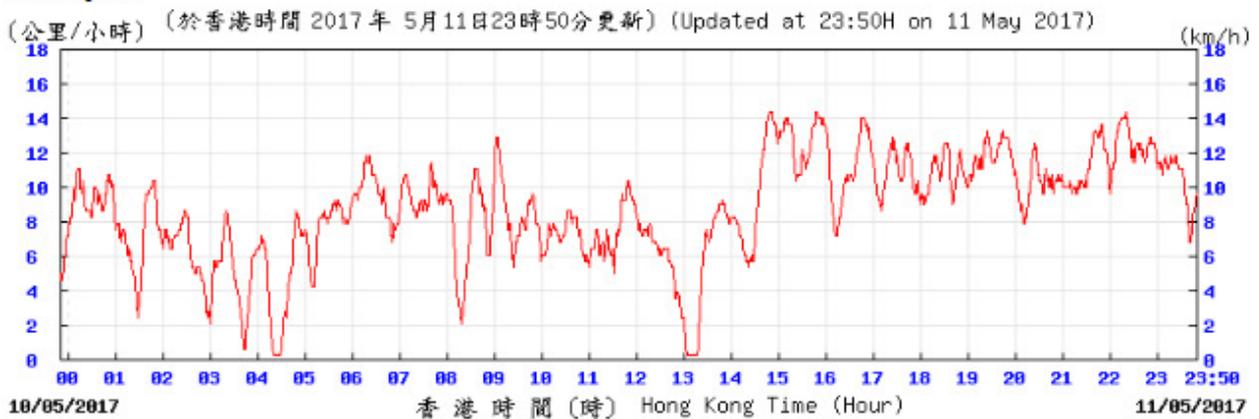
© 香港天文台 Hong Kong Observatory

Wind Direction:



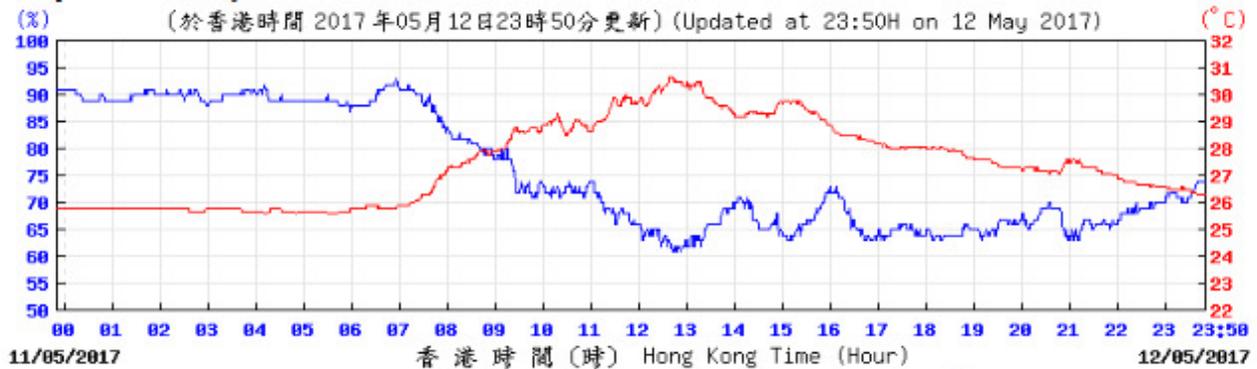
© 香港天文台 Hong Kong Observatory

Wind Speed:



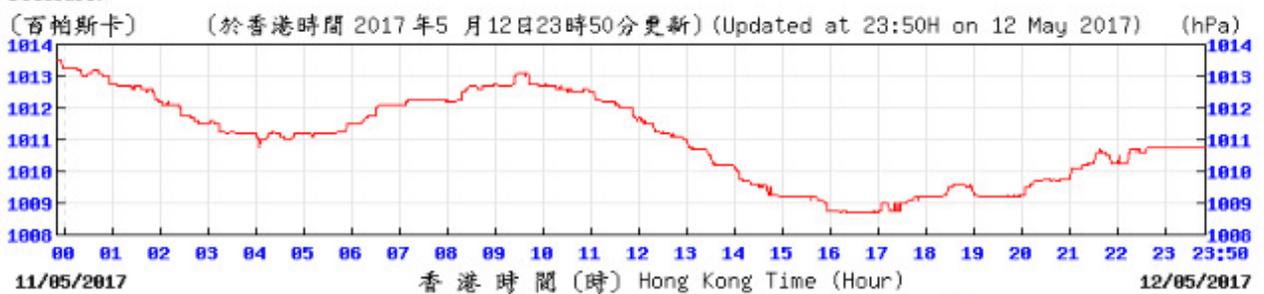
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



© 香港天文台 Hong Kong Observatory

Pressure:



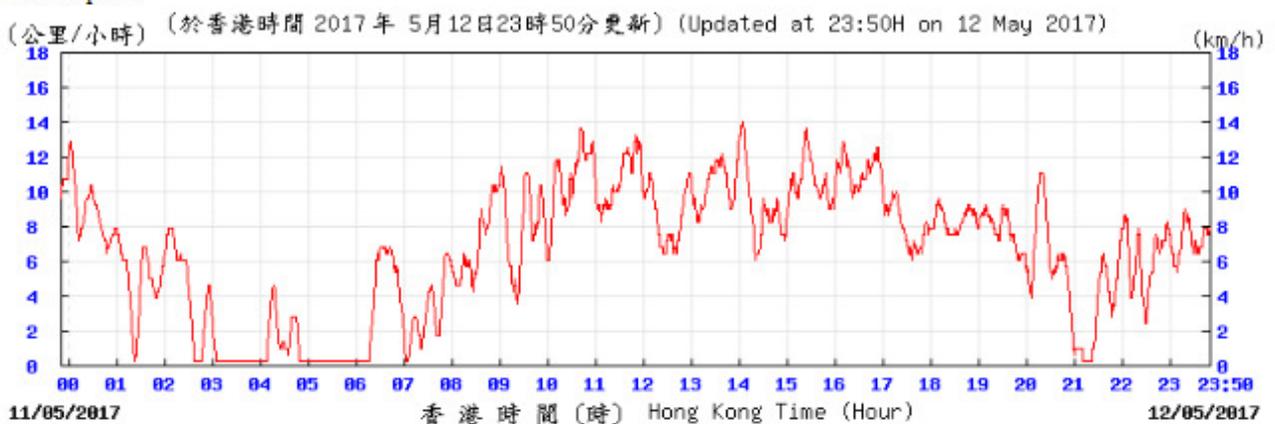
© 香港天文台 Hong Kong Observatory

Wind Direction:



© 香港天文台 Hong Kong Observatory

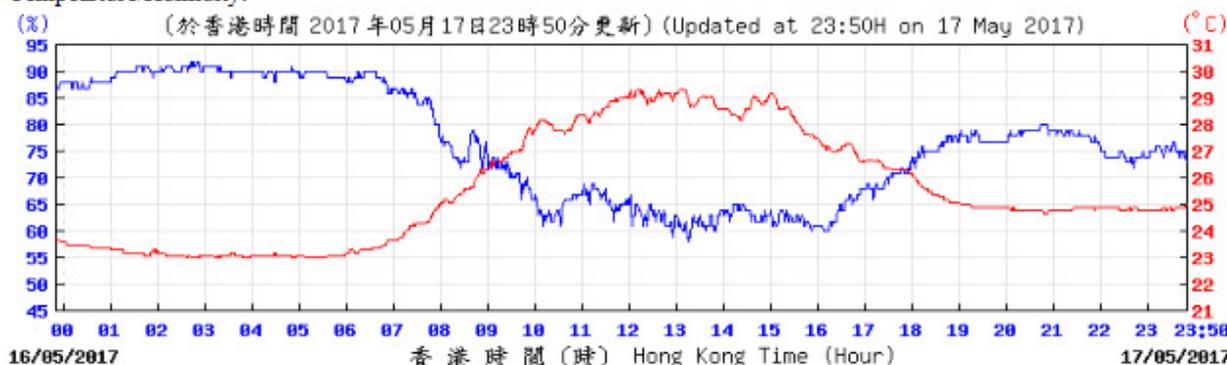
Wind Speed:



KPC

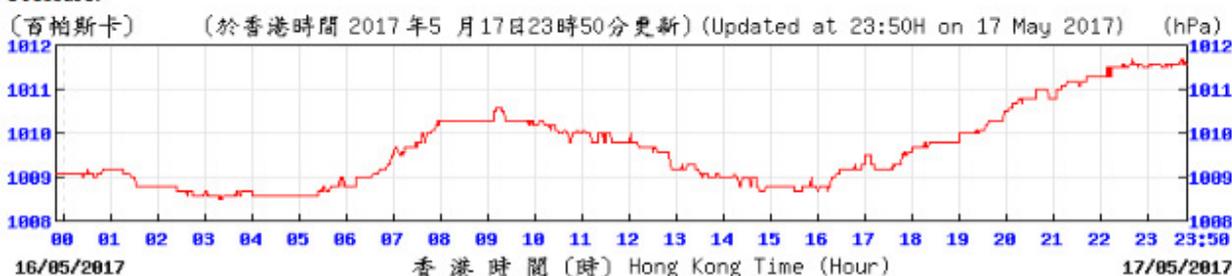
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



KPC

Pressure:



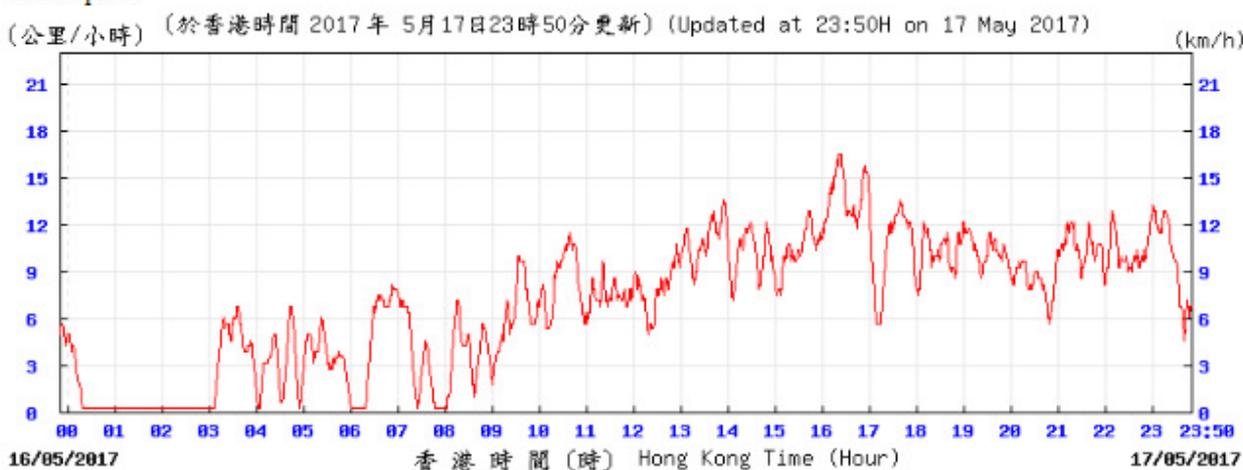
KPC

Wind Direction:



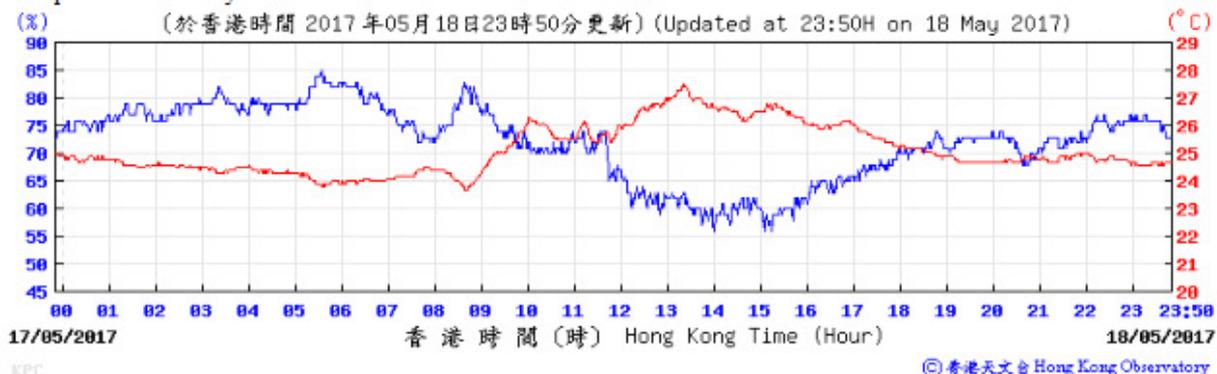
KPC

Wind Speed:

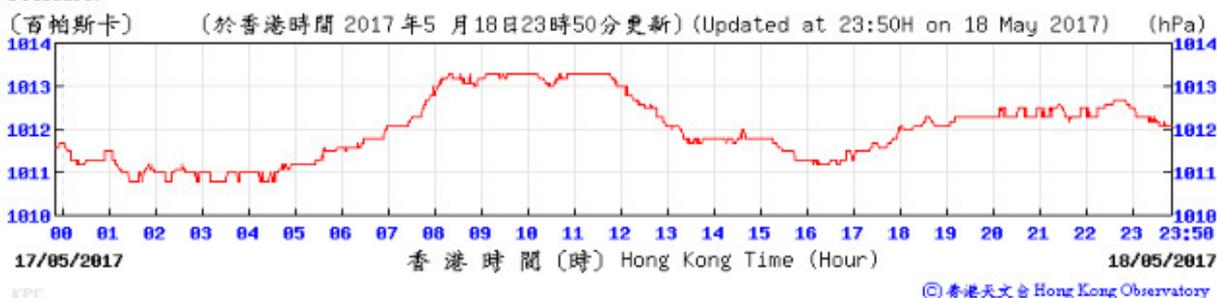


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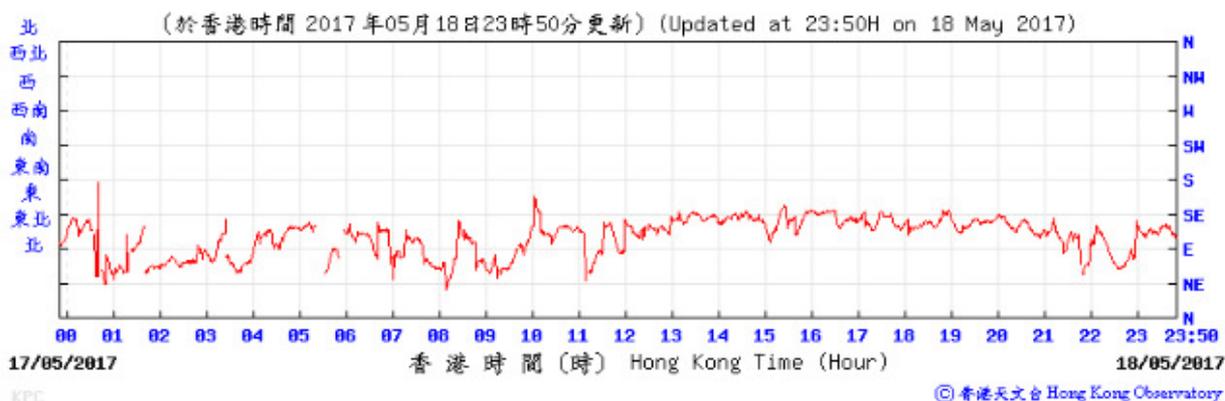
Temperature/Humidity:



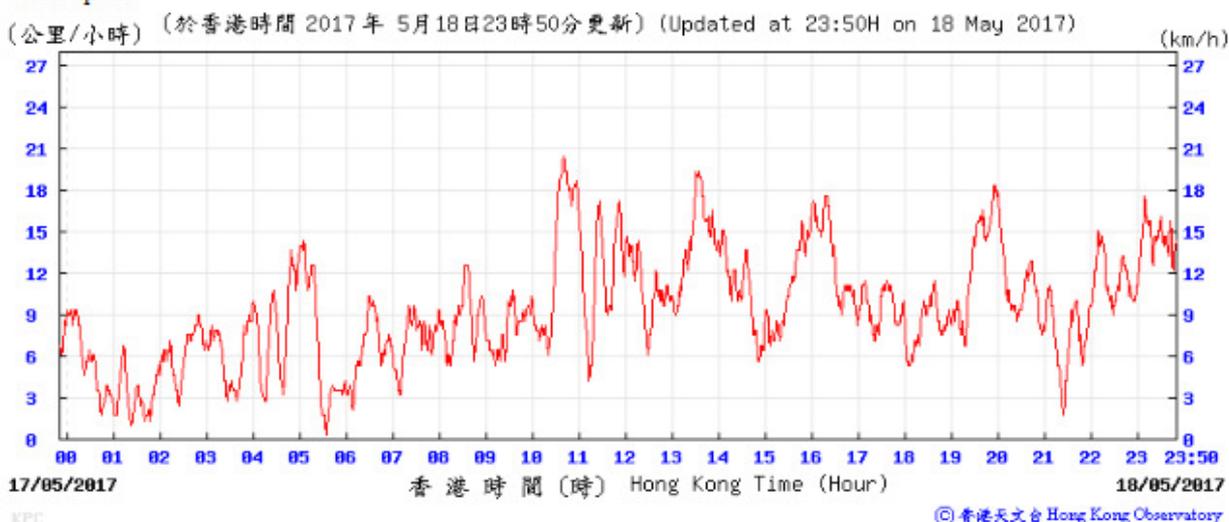
Pressure:



Wind Direction:

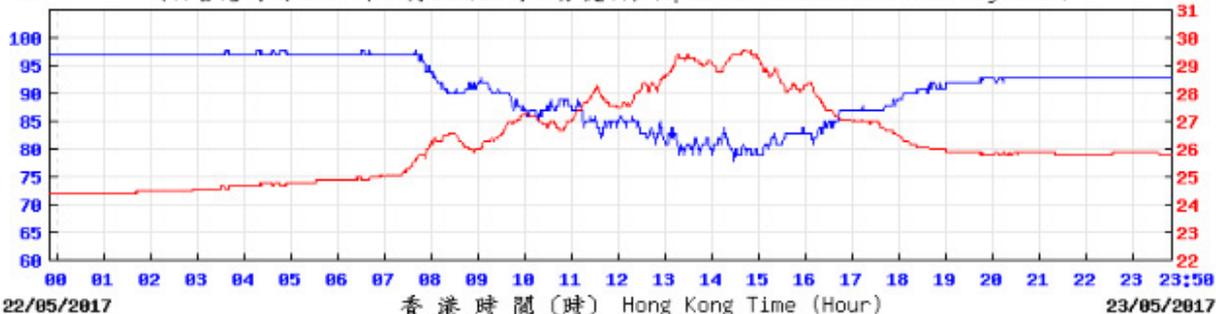


Wind Speed:



Temperature/Humidity:

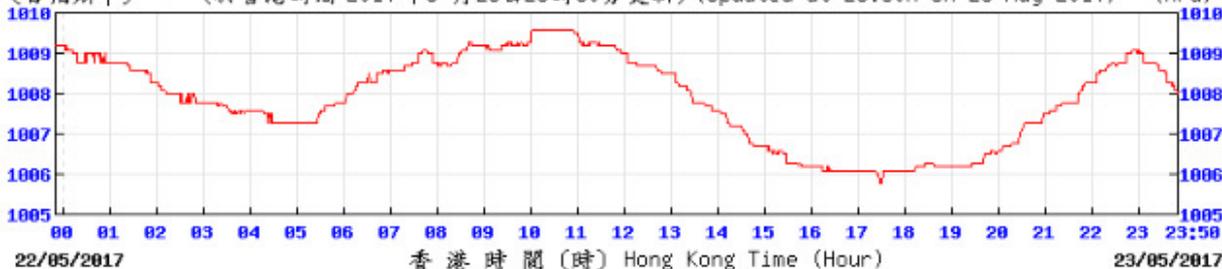
(%) (於香港時間 2017年05月23日23時50分更新) (Updated at 23:50H on 23 May 2017) (°C)



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Pressure:

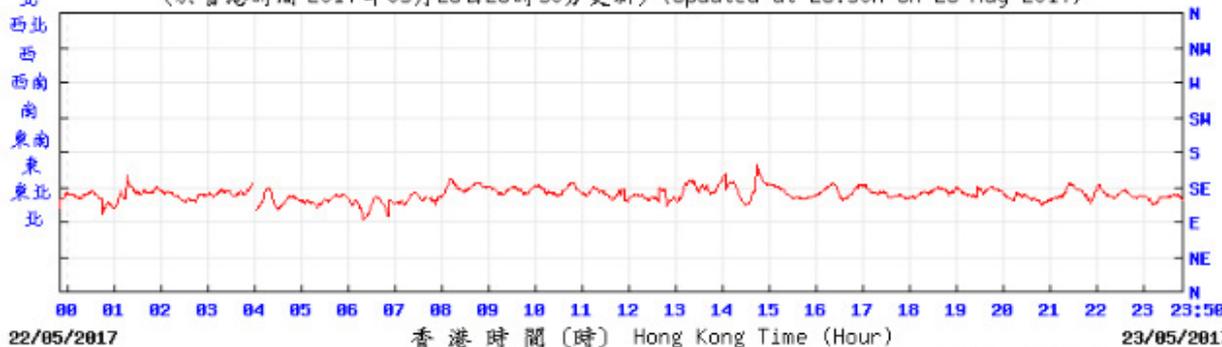
(百帕斯卡) (於香港時間 2017年5月23日23時50分更新) (Updated at 23:50H on 23 May 2017) (hPa)



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Wind Direction:

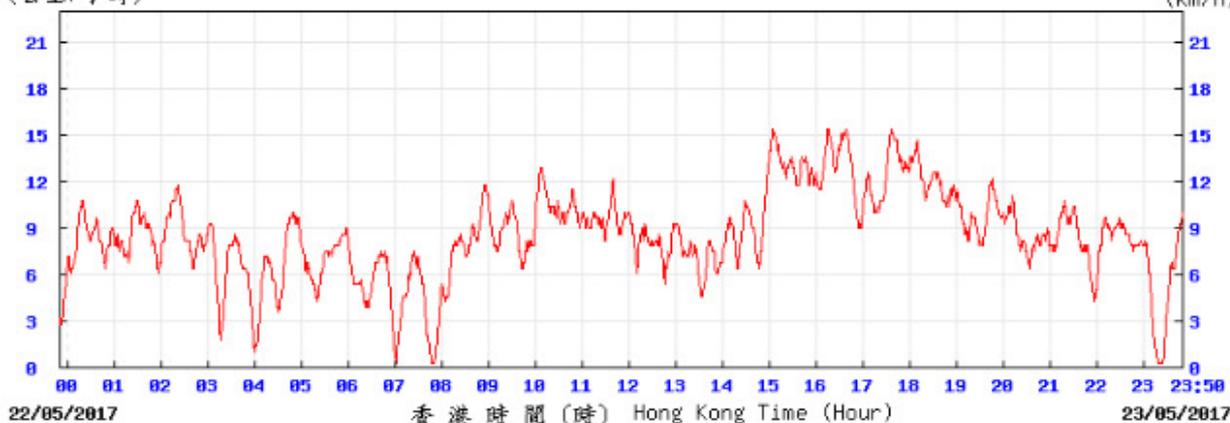
(於香港時間 2017年05月23日23時50分更新) (Updated at 23:50H on 23 May 2017)



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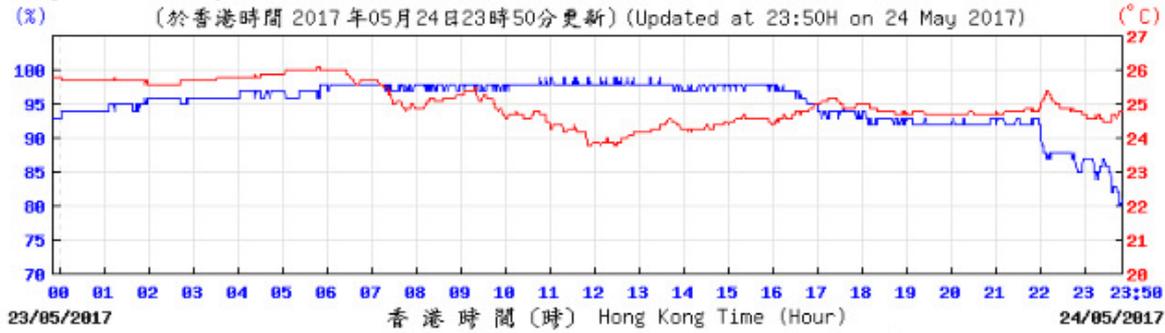
Wind Speed:

(公里/小時) (於香港時間 2017年5月23日23時50分更新) (Updated at 23:50H on 23 May 2017) (km/h)



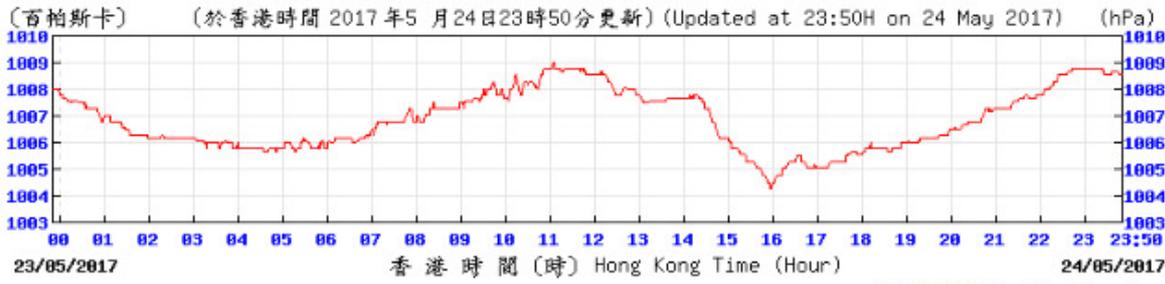
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



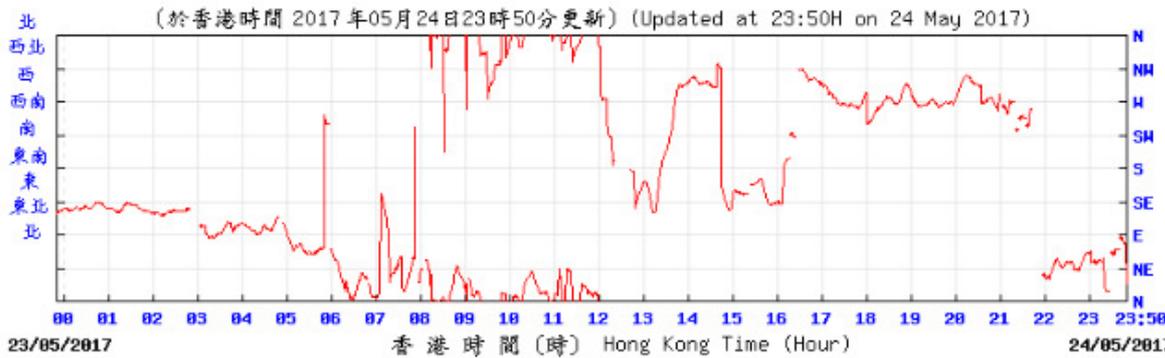
© 香港天文台 Hong Kong Observatory

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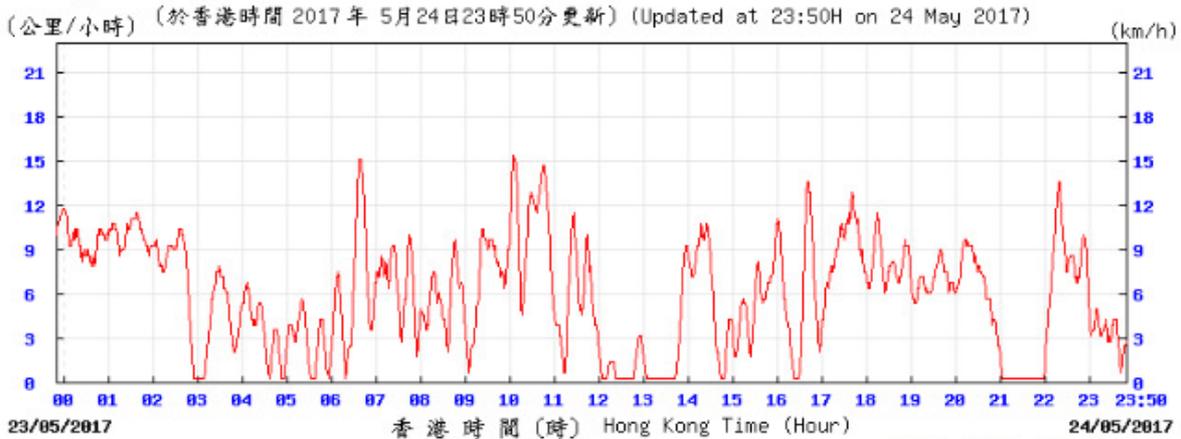
© 香港天文台 Hong Kong Observatory

Wind Direction:



© 香港天文台 Hong Kong Observatory

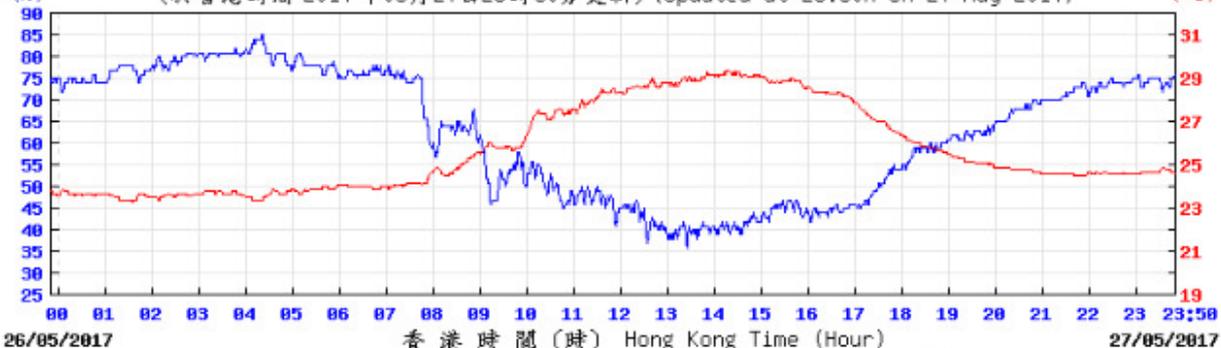
Wind Speed:



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Temperature/Humidity:

(於香港時間 2017 年05月27日23時50分更新) (Updated at 23:50H on 27 May 2017) (°C)

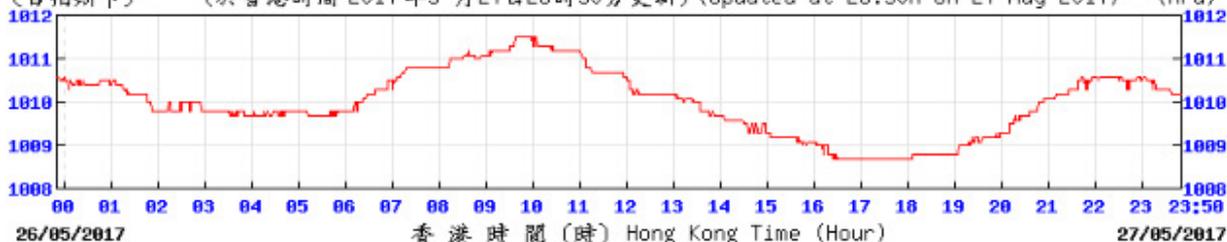


KPC

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Pressure:

(百帕斯卡) (於香港時間 2017 年5 月27日23時50分更新) (Updated at 23:50H on 27 May 2017) (hPa)

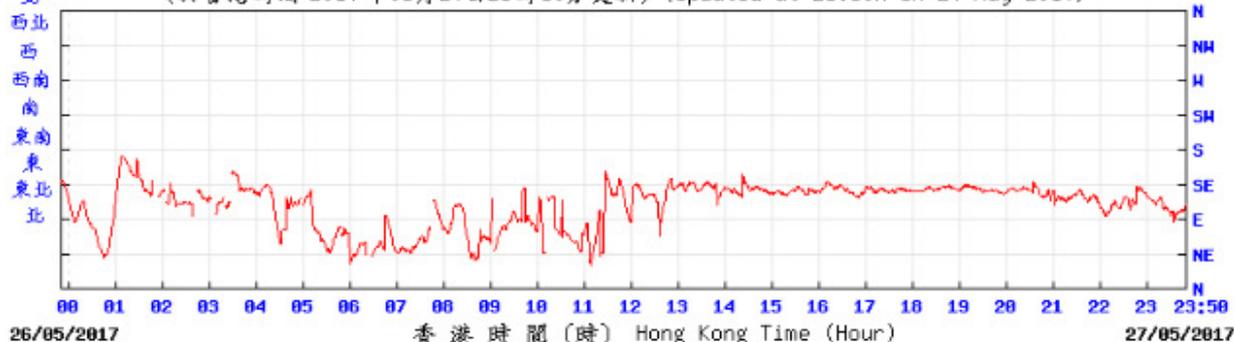


KPC

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Wind Direction:

(於香港時間 2017 年05月27日23時50分更新) (Updated at 23:50H on 27 May 2017)

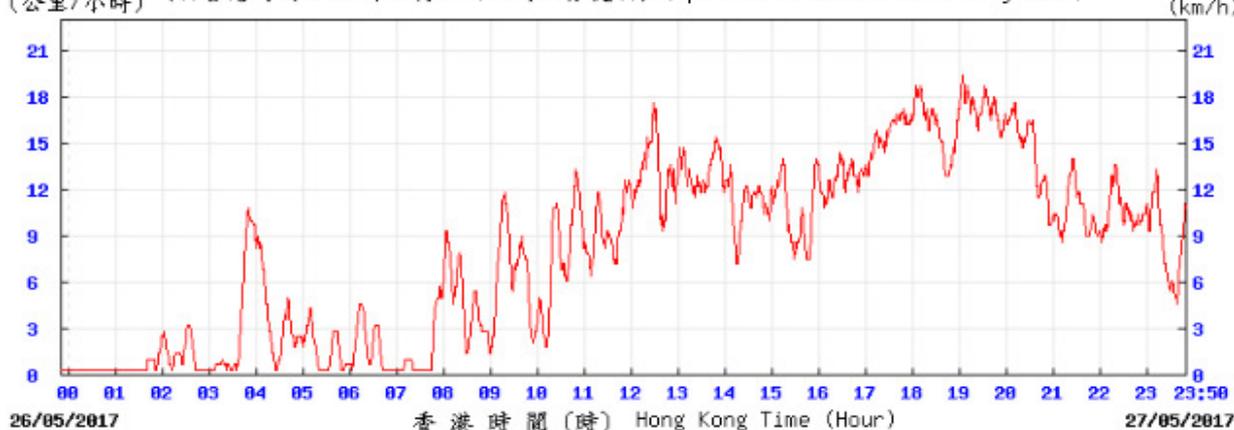


KPC

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Wind Speed:

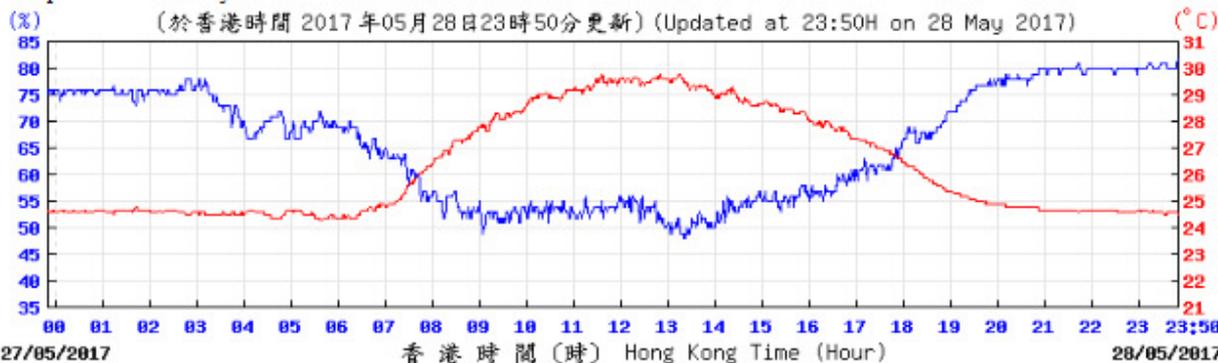
(公里/小時) (於香港時間 2017 年 5月27日23時50分更新) (Updated at 23:50H on 27 May 2017) (km/h)



KPC

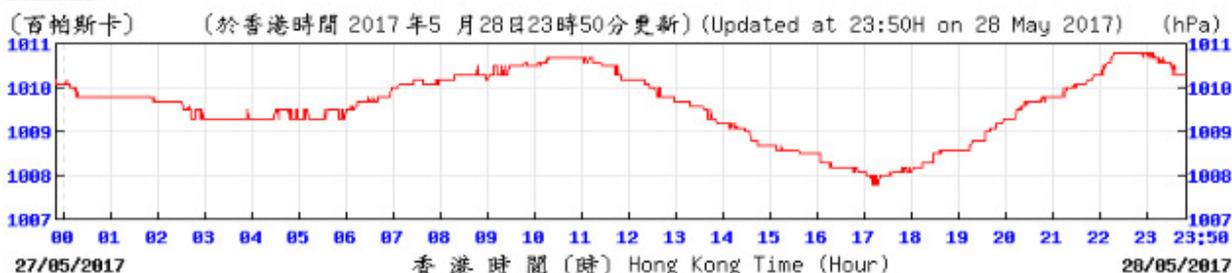
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



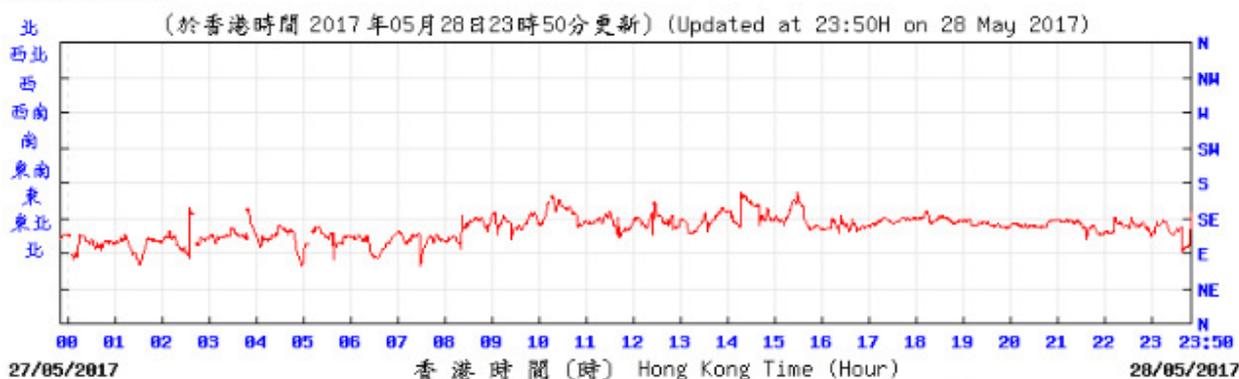
© 香港天文台 Hong Kong Observatory

Pressure:



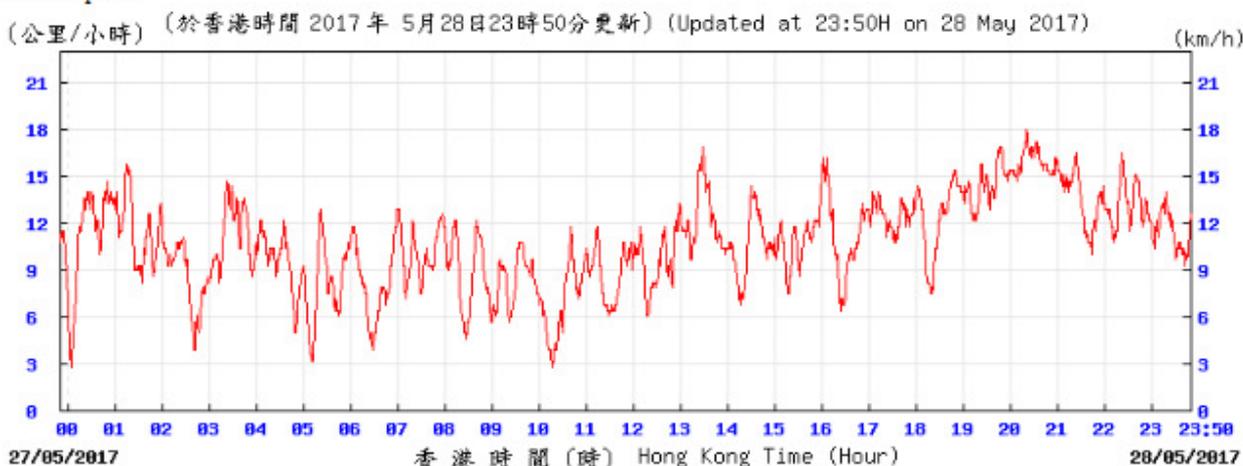
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Wind Direction:



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Wind Speed:



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I. Waste Flow table

M+ Museum

Table I-1: Monthly Waste Flow Table for M+ Museum

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2015													
Nov	46607.4	0.0	0.0	8240.0	38367.4	0.0	0.0	76.2	0.0	0.0	0.0	0.0	67.6
Dec	29652.9	0.0	0.0	29621.4	31.5	0.0	0.0	26.3	0.0	0.0	0.0	1.0	66.0
Sub-total (2015)	76260.3	0.0	0.0	37861.4	38398.9	0.0	0.0	102.5	0.0	0.0	0.0	1.0	133.6
2016													
Jan	21077.4	0.0	6352.0	14576.0	149.4	0.0	0.0	18.8	0.0	0.0	0.0	0.0	23.2
Feb	7626.2	0.0	3424.0	4048.0	154.2	0.0	0.0	59.8	0.0	0.0	0.0	0.0	20.5
Mar	10442.5	0.0	1600.0	7888.0	954.5	0.0	0.0	29.7	0.0	0.0	0.0	0.0	46.3
Apr	30413.2	0.0	6352.0	23408.0	653.2	0.0	0.0	25.8	0.1	0.0	27.8	0.0	34.5
May	24083.5	0.0	112.0	23216.0	755.5	0.0	0.0	61.5	0.4	0.0	33.6	0.0	62.3
Jun	7880.1	0.0	4736.0	2384.0	760.1	0.0	0.0	106.6	0.1	0.0	14.6	0.0	52.8
Jul	5893.1	0.0	2656.0	2240.0	997.1	0.0	0.0	77.6	0.0	0.0	33.6	0.0	83.1
Aug	13709.6	0.0	0.0	12432.0	1277.6	0.0	0.0	111.3	0.3	0.0	38.5	0.0	104.9
Sep	6702.0	0.0	0.0	5648.0	1000.1	53.9	0.0	104.2	0.0	0.0	45.5	0.2	107.9
Oct	2103.6	0.0	0.0	496.0	1595.4	12.2	0.0	83.0	0.4	0.0	73.5	0.0	108.2
Nov	3302.7	0.0	0.0	2384.0	855.5	63.2	0.0	88.4	0.6	0.0	63.0	0.0	129.1
Dec	899.8	0.0	0.0	736.0	126.8	37.0	0.0	48.3	0.6	0.0	70.0	0.0	89.0
Sub-total (2016)	134133.5	0.0	25232.0	99456.0	9279.3	166.3	0.0	814.9	2.5	0.0	400.1	0.2	861.8
2017													
Jan	675.2	0.0	0.0	432.0	237.9	5.3	0.0	79.5	1.0	0.0	70.0	0.0	79.7
Feb	927.7	0.0	0.0	768.0	125.6	34.0	0.0	70.5	0.6	0.0	84.0	0.0	81.4
Mar	1881.3	0.0	0.0	1280.0	491.6	109.8	0.0	62.8	0.4	0.0	98.0	0.0	148.5
Apr	710.9	0.0	0.0	160.0	393.4	157.5	0.0	87.5	0.7	0.0	175.0	0.0	102.5
May	1153.7	0.0	0.0	528.0	452.0	173.7	0.0	71.1	0.0	0.0	280.0	0.0	139.0
Sub-total (2017)	5348.8	0.0	0.0	3168.0	1700.5	480.3	0.0	371.4	2.7	0.0	707.0	0.0	551.0
Total	215742.6	0.0	25232.0	140485.4	49378.7	646.5	0.0	1288.9	5.2	0.0	1107.1	1.2	1546.4

Note:

-134 ton, 86.42 ton and 231.57 ton of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively in the reporting month.

-For inert C&D materials reused in other projects, the projects refer to (1) Green Valley; (2) Advance Works for Shek Wu Hui Sewage Treatment Works (3) Design and Construction of Kai Tak Cable Tunnel, CLP; (4) MTR Contract 1002 Whampoa Station and Overrun Tunnel; (5) CEDD Tuen Mun Area 54 Contract No. CV/2015/03; (6) Union Construction Ltd.'s site; (7) Foundation Works at Marriot Hotel at Ocean Park.

Lyric Theatre Complex

Table I-2: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2016													
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5
Jun	8600.8	0.0	0.0	0.0	8600.8	0.0	0.0	31.4	0.2	0.0	0.0	0.5	13.5
Jul	12624.2	0.0	0.0	0.0	12624.2	0.0	0.0	19.6	0.0	0.0	0.0	2.0	9.9
Aug	14419.9	0.0	0.0	0.0	14419.9	0.0	0.0	43.9	0.0	0.0	0.0	0.0	11.1
Sep	13671.3	0.0	0.0	0.0	13671.3	0.0	0.0	59.8	0.0	0.0	0.0	1.6	12.4
Oct	13088.9	0.0	0.0	0.0	13088.9	0.0	0.0	37.1	0.2	1.5	0.0	0.0	15.2
Nov	12424.7	0.0	0.0	0.0	12424.7	0.0	0.0	74.7	0.0	0.0	0.0	1.4	10.2
Dec	12487.6	0.0	0.0	0.0	12487.6	0.0	0.0	13.9	0.0	0.0	0.0	1.3	9.0
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.7	0.4	1.5	0.0	7.6	191.6
2017													
Jan	9607.8	0.0	0.0	0.0	9607.8	0.0	0.0	29.5	0.0	0.0	0.0	0.0	7.3
Feb	9108.2	0.0	0.0	0.0	9108.2	0.0	0.0	50.2	0.2	0.0	0.0	0.7	9.8
Mar	11361.7	0.0	0.0	0.0	11361.7	0.0	0.0	16.1	0.0	0.0	0.0	1.4	8.5
Apr	2591.5	0.0	0.0	0.0	2591.5	0.0	0.0	35.7	0.0	0.0	0.0	0.0	4.7
May	2579.3	0.0	0.0	99.0	2480.3	0.0	0.0	20.9	0.1	0.0	0.0	0.5	10.0
Jun													
Sub-total (2017)	35248.5	0.0	0.0	99.0	35149.5	0.0	0.0	152.4	0.3	0.0	0.0	2.7	40.1
Total	146387.3	0.0	0.0	99.0	146288.3	0.0	0.0	487.2	0.7	1.5	0.0	10.3	231.7

Note:
-877.16 ton and 1,603.16 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively in the reporting month.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
Air Quality Impact (Construction)			
2.1 & 10.3.1	<p>General Dust Control Measures</p> <p>Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)</p>	Obs	Obs
2.1 & 10.3.1	<p>Best Practice For Dust Control</p> <p>The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:</p> <p><i>Good Site Management</i></p> <ul style="list-style-type: none"> • Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. <p><i>Disturbed Parts of the Roads</i></p> <ul style="list-style-type: none"> • Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. <p><i>Exposed Earth</i></p> <ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. <p><i>Loading, Unloading or Transfer of Dusty Materials</i></p> <ul style="list-style-type: none"> • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation 	Obs/ Rem	Obs
		✓	✓
		✓	✓
		N/A	N/A
		✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	so as to keep the dusty material wet.		
	<i>Debris Handling</i>		
	<ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓	✓
	<ul style="list-style-type: none"> Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	✓	✓
	<i>Transport of Dusty Materials</i>		
	<ul style="list-style-type: none"> Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	✓	✓
	<i>Wheel washing</i>		
	<ul style="list-style-type: none"> Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓
	<i>Use of vehicles</i>		
	<ul style="list-style-type: none"> The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. 	✓	✓
	<ul style="list-style-type: none"> Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓
	<ul style="list-style-type: none"> Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 	✓	✓
	<i>Site hoarding</i>		
	<ul style="list-style-type: none"> Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 	✓	✓
2.1 & 10.3.1	<p>Best Practicable Means for Cement Works (Concrete Batching Plant)</p> <p>The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:</p> <p>Exhaust from Dust Arrestment Plant</p>		

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection 	✓	✓
	Emission Limits		
	<ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	✓	✓
	Engineering Design/Technical Requirements		
	<ul style="list-style-type: none"> As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions 	✓	✓
-	<p>Non-Road Mobile Machinery (NRMM):</p> <p>All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.</p>	✓	✓
Noise Impact (Construction)			
3.1 & 10.4.1	<p>Good Site Practice</p> <p>Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:</p> <ul style="list-style-type: none"> only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; mobile plant should be sited as far away from NSRs as possible; and material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓
3.1 & 10.4.1	<p>Adoption of Quieter PME</p> <p>The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.</p>	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
3.1 & 10.4.1	Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓	✓
3.1 & 10.4.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No.9/2010.	N/A	N/A
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	✓	✓
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A
Water Quality Impact (Construction)			
4.1 & 10.5.1	Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts: <ul style="list-style-type: none"> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction; Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction. All drainage facilities and erosion and sediment control structures should be regularly inspected and 	✓	Obs
		✓	✓
		✓	Rem/ Obs

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.		
	<ul style="list-style-type: none"> Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. 	✓	✓
	<ul style="list-style-type: none"> 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 sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly 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. 	✓	✓
	<ul style="list-style-type: none"> Open stockpiles of construction materials or construction wastes on-site 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. 	Obs/ Rem	Obs
	<ul style="list-style-type: none"> Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers. 	✓	✓
	<ul style="list-style-type: none"> Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. 	✓	✓
	<ul style="list-style-type: none"> Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A	N/A
	Barging facilities and activities		
	Recommendations for good site practices during operation of the proposed barging point include:		
	<ul style="list-style-type: none"> All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A	N/A
	<ul style="list-style-type: none"> Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of 	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	materials or polluted water during loading or transportation;		
	<ul style="list-style-type: none"> All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A	N/A
		N/A	N/A
4.1 & 10.5.1	Sewage effluent from construction workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	✓	✓
4.1 & 10.5.1	General construction activities <ul style="list-style-type: none"> Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	✓	✓
		Obs	✓
Waste Management Implications (Construction)			
6.1 & 10.7.1	Good Site Practices Recommendations for good site practices during the construction activities include:		
	<ul style="list-style-type: none"> 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 handling procedures Provision of sufficient waste disposal points and regular collection of waste Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓
		✓	✓
		Obs	✓
		✓	✓
		✓	✓
		✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
6.1 & 10.7.1	<p>Waste Reduction Measures</p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> Sort inert C&D material to recover any recyclable portions such as metals Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force Proper site practices to minimise the potential for damage or contamination of inert C&D materials Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste 	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
6.1 & 10.7.1	<p>Inert and Non-inert C&D Materials</p> <p>In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.</p> <ul style="list-style-type: none"> The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No.6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site. 	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
6.1 & 10.7.1	<p>Chemical Waste</p> <ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the “Code of Practice on the Packaging Labelling and Storage of Chemical Wastes”. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	Obs	Obs
6.1 & 10.7.1	<p>General Refuse</p> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	✓	✓
Land Contamination (Construction)			
7.1 & 10.8.1	<p>The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials.</p> <p>The following measures are proposed for excavation and transportation of contaminated material:</p> <ul style="list-style-type: none"> To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 	N/A	N/A
		N/A	N/A
		N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; Speed control for trucks carrying contaminated materials should be exercised; Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A
Ecological Impact (Construction)			
No mitigation measure is required.			
Landscape and Visual Impact (Construction)			
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	✓	N/A
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A	N/A
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A	N/A
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A	N/A
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	N/A
Table 9.1 (CM9)	Minimize the structure of marine facilities to built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A	N/A
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	✓	✓
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A	N/A

N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder

K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 31 October 2015 for M+ Museum main works and 1 March 2016 for Lyric Theatre Complex foundation works) to the end of the reporting month and are summarized in the **Table K-1** and **Table K-2** below respectively.

Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for M+ Museum Main Works

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 31 October 2015 to end of the reporting month	3	1	0

Table K-2: Statistics for complaints, notifications of summons and successful prosecutions for Lyric Theatre Complex Foundation Works

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	1	0	0
From 1 March 2016 to end of the reporting month	5	0	0