

Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (February 2016 - April 2016)

May 2016



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This Quarterly EM&A Report has been reviewed and certified by the

Environmental Team Leader (ETL) and verified by the Independent

Environmental Checker (IEC).

Certified by:	Brian Tam Environmental Team Leader (ETL) West Kowloon Cultural District Authority
Date	1.6.2016
Verified by:	Jul
	Fredrick Leong Independent Environmental Checker (IEC) Meinhardt Infrastructure & Environment Ltd
Date	1 Jun 2016



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Executive Summary

This Quarterly EM&A Report presents the monitoring works at both the main works of M+ Museum from 1 February to 30 April 2016 and foundation works of Lyric Theatre Complex conducted from 1 March to 30 April 2016.

The impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the foundation works contractor where appropriate in the reporting quarter.

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 quarter.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

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

Record of Complaints

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No environmental complaint regarding construction noise was recorded in the reporting quarter.

Record of Notification of Summons and Successful Prosecutions

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



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/A (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 Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/A. This Quarterly EM&A Report presents the monitoring works conducted from 1 February 2016 to 30 April 2016. 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:

- Site formation
- Excavation
- Formworks installation
- Concrete pouring
- Rebar /earthing installation
- Construction of pile caps
- Installation of lateral support
- Construction of slab
- Construction of water tank
- Underground slab drainage and manholes

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

- H-Pile Construction
- Bored Pile Construction
- Pipe Pile Construction

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.

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2 Summary of EM&A Requirements

2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

Parameters	Descriptions	Locations	Frequencies	Action level	Limit level
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days	143.6 µg/m3	260 µg/m3
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	273.7 µg/m3	500 µg/m3
	24-Hour TSP	AM2 - The Harbourside Tower 1	At least once every 6 days	151.1 µg/m3	260 µg/m3
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days	274.2 µg/m3	500 µg/m3
Noise	L _{eq} , 30 minutes	NM1- Podium level of The Harbourside Tower 1	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
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	N/A	N/A

Table 2.1: Summary of Impact EM&A Requirements

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 were set up. 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.

2.2 Enviornmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. The summary of implementation status of the environmental mitigation measures are provided in **Appendix C**.



3 Summary of EM&A Monitoring Results

3.1 **Monitoring Data**

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in Appendix D. Monitoring data with graphical presentation for the reporting quarter are shown in Appendix E. A summary on the monitoring results are presented in Table 3.1.

Table 3.1: Summary of Mor	nitoring Data			
Parameter	Monitoring Location	Minimum	Maximum	Average
Air Quality				
1 hour TSP	AM1	51	174	85
1 hour TSP	AM2	54	200	97
24 hour TSP	AM1	43	75	53
24 hour TSP	AM2	55	125	70
Construction Noise				
Leq(30min)	NM1A	67.3	70.9	68.8

3.2 **Monitoring Exceedances**

Summary of the exceedances in the reporting quarter is tabulated in **Table 3.2**.

Table 3.2: Summary of 24-hour TSP monitoring results

No. of Exceedance							
Ionitoring Station	Parameter	Action Level	Limit Level	Action Taken			
Air Quality							
AM1 —	1 hour TSP	0	0	N/A			
	24 hour TSP	0	0	N/A			
	1 hour TSP	0	0	N/A			
AM2 -	24 hour TSP	0	0	N/A			
Construction Noise							
NM1A	Leq(30min)	0	0	N/A			

3.2.1 **1-hour TSP Monitoring**

All 1-hour TSP monitoring was conducted as scheduled in the reporting guarter. No Action/ Limit Level exceedance was recorded.

3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.



3.2.3 Construction Noise Monitoring

All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.4 Landscape and Visual Monitoring

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects was recorded.



4 Waste Management

4.1 M+ Museum

As advised by the Contractor, 432.4 ton, 1,312.6 ton and 16.9 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38, Tseung Kwan O Area 137 and Chai Wan Public Fill Barging Point respectively, while 101.3 ton of general refuse was disposed of at SENT landfill. 115.3 ton of metals, 0.1 ton of paper/cardboard packaging, 0 ton of plastic and 27.8 ton of timber were collected by recycling contractors in the reporting month. 11,376 ton of inert C&D materials was reused on site. 35,344.0 ton of inert C&D materials was reused in other projects. 0 ton of chemical wastes was collected by licensed contractors in the reporting quarter.

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 F**.

4.2 Lyric Theatre Complex

As advised by the Contractor, 1,100.61 ton and 10,233 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively, while 49.8 ton of general refuse was disposed of at SENT landfill. 20.5 ton of metals, 0.1 ton of paper/cardboard packaging, 0 ton of plastic and 0 ton of timber were collected by recycling contractors in the reporting month. 0 ton of inert C&D materials was reused on site. 0 ton of inert C&D materials was reused in other projects. 0 ton of chemical wastes was collected by licensed contractors in the reporting quarter.

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 F**.



5 Environmental Non-conformance

No environmental non-compliance, complaint and environmental related prosecution or notification of summons was received in the reporting quarter. The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

363512/ENP/ENL/05/03/1 May 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\03 Quarterly EM&A Summary Report\(2) Quarterly EM&A Report (Feb 16- Apr 16)\Rev.1\Quarterly EM&A Report (Feb16-Apr16)_v1.docx



6 Comments, recommendations and Conclusion

6.1 Comments

Based on the observations made during site audits and landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and noise limits were recorded.

6.2 **Recommendations**

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will be continued, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

6.3 Conclusion

The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction works 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 Project 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 quarter.

No environmental complaint and no notifications of summons or successful prosecution were received during the reporting quarter.

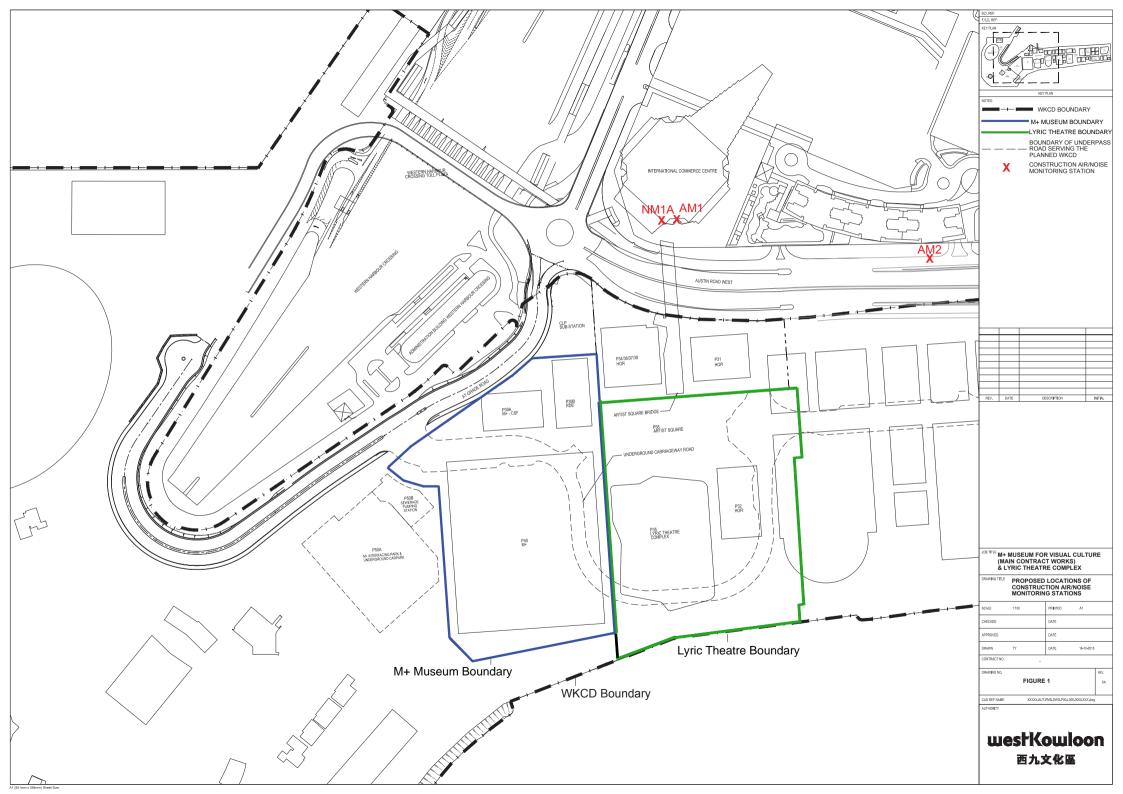
Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting quarter as required. It was observed that the Contractor had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during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

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Figure 1 Site Layout Plan and Monitoring Stations

363512/ENP/ENL/05/03/1 May 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\03 Quarterly EM&A Summary Report\(2) Quarterly EM&A Report (Feb 16- Apr 16)\Rev.1\Quarterly EM&A Report (Feb16-Apr16)_v1.docx





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Appendix A. Project Organisation

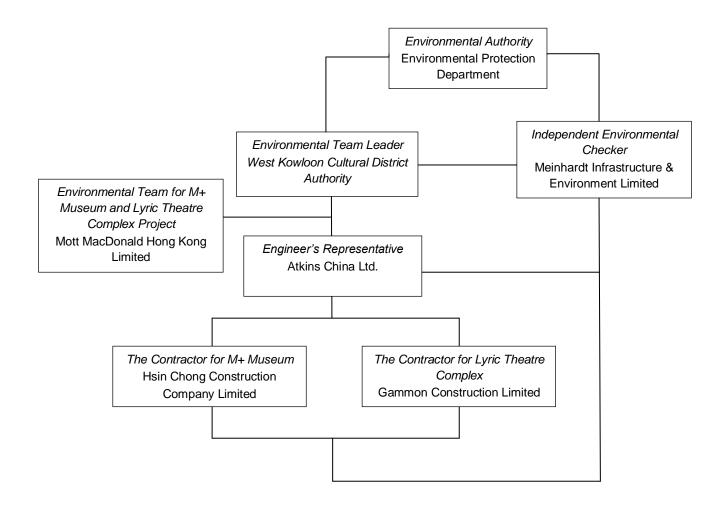


Table A-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Senior Resident Engineer	Mr. Alfred Lee	5401 7289
Meinhardt Infrastructure & Environment Limited	IEC	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

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Appendix B. Construction Programme

363512/ENP/ENL/05/03/1 May 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\03 Quarterly EM&A Summary Report\(2) Quarterly EM&A Report (Feb 16- Apr 16)\Rev.1\Quarterly EM&A Report (Feb16-Apr16)_v1.docx

M+ Museum

ty ID Ac	ctivity Name	Duration	Start	Finish	Quants Production rates	Decembe 3		January 4		February 5
2MPP - Pov	3 (2nd Draft) DD 30 Dec 15	150	26-Sep-15 A	01-Apr-16		29 06 13	20	27 03 10 <u></u>	17 24	31 07 14
	S (2110 Drait) DD 30 Dec 15	133	26-Sep-15 A	09-Mar-16						
+.10 Prelims	- //40 // 00									
M+.10.00 Key Date Access Date	is / IAS / LOC	57 32	30-Dec-15 31-Dec-15	09-Mar-16 11-Feb-16						
	xxess date M05 - SPS	0	11-Feb-16			-				Access da
	ccess date M06 - ICP	0	11-Feb-16							Access da
	ccess date M07 - ICP	0	11-Feb-16							Access da
	ccess date M22 - ICP/SPS	0	11-Feb-16			-				Access da
3MAD1060 Ac	ccess date M23 - Park Area	0	31-Dec-15			-		Access date M23 - Park Area, A	ccess date M23 - Par	rkArea
3MAD1070 Ac	ccess date M32 - ICP & SPS	0	11-Feb-16							Access d
3MAD1090 Ac	ccess date M23 - Park Area West of New Temp Access Road	0	31-Dec-15*					Access date M23 - Park Area V		
Vacation Date		57	30-Dec-15	09-Mar-16						
3MVD1000 M	21-M+ north west area within at-grade road, M22-ICP/SPS frontage within at-	0	30-Dec-15					M21-M+ north west area within a	t-grade road, M22-IC	P/SPS frontage within at-grade
3MVD1020 M	14a, M15, M16, East boundary Lyric Interface	0	09-Mar-16							
Milestone Dates		48	30-Dec-15	29-Feb-16						
Cost Centre A - Prelim	ninaries & General requirements	0	30-Dec-15	30-Dec-15						
	omplete Construction Programme and Methodology Submission and Presenta	0	30-Dec-15					Complete Construction Program		
	btain approval from Contractor Admin on: Proj Man Doc's. Construction Prog.,	0	30-Dec-15					Obtain approval from Contractor		
	ompliance Review to the Contract Administrator's satisfaction	0	30-Dec-15					Compliance Review to the Contr	act Administrator's sati	tisfaction, Compliance Review to
Cost Centre B - M+		0	29-Feb-16	29-Feb-16						
	2 - Complete 35% of Volume of Bulk Excavation (42,000m3)	0	29-Feb-16*	29-Feb-16						
	ommodation & Facilities	48	12-Dec-15 A	13-Feb-16						
M+ Site Offices		48 48	12-Dec-15 A	13-Feb-16 13-Feb-16						
Stage 3	Office - Area M10 (1000m2)	48	12-Dec-15 A 12-Dec-15 A	13-Feb-16						
	art clearing and setting up of Contractor's Office at Area M10	40	30-Dec-15	13-1-60-10				Start clearing and setting up of C	ontractor's Office at A	krea M10 Start clearing and set
	te Construction / Setup 1000m2 / 100nr person Office with 2 Levels	48	12-Dec-15 A	13-Feb-16		-			Sintactor's Onice at A	Site (
	art to Occupy		13-Feb-16	13-1 60-10		-				♦ Start
ASIO - Area L22 & L	•	27	30-Dec-15	30-Jan-16		-				↓ Otal
	Al - Design / Approvals	2	30-Dec-15	31-Dec-15		-		CAI - Design / Approvals		
	SD / Liaise / Approvals	25	02-Jan-16	30-Jan-16						FSD / Liaise / Approvals
4+.10.40 Site Adm		118	26-Sep-15 A	20-Feb-16						
Key Domestic Subo		79	26-Sep-15 A	02-Jan-16						
Finalize Major subcon		79	26-Sep-15 A	02-Jan-16						
	artner - Facade	77	26-Sep-15 A	31-Dec-15				Gartner - Facade		
3MDS.10002 All	liance - Concrete	79	26-Sep-15 A	02-Jan-16				Alliance - Concrete		
3MDS.10003 Mi	ing Tai - Formworks	77	26-Sep-15 A	30-Dec-15				Ming Tai - Formworks		
3MDS.10004 Tir	n Wo - Rebar	77	26-Sep-15 A	30-Dec-15				Tin Wo - Rebar		
3MDS.10005 Ga	ammon Steel - Steel Truss	79	26-Sep-15 A	30-Dec-15				Gammon Steel - Steel Truss		
3MDS.10006 Lie	ebherr- Tower Crane	77	26-Sep-15 A	31-Dec-15		1 1 1		Liebherr- Tower Crane		
3MDS.10007 Hs	sin Chong Aster - MEP - Drainage	77	26-Sep-15 A	30-Dec-15		1		Hsin Chong Aster - MEP - Drain	зge	
3MDS.10008 Hs	sin Chong Aster - MEP - Earthing	77	26-Sep-15 A	30-Dec-15				Hsin Chong Aster - MEP - Earth	ng	
3MDS.10009 CH	hun Sing - ELS	77	26-Sep-15 A	30-Dec-15		- 1 1		Chun Sing - ELS		
Design & Realization	on	92	16-Oct-15 A	08-Feb-16						
Basement		81	30-Oct-15 A	08-Feb-16						
3MDR.1006 Co	onsultant/CA Review & Approval	11	05-Dec-15 A	06-Jan-16				Consultant/CA Rev	ew & Approval	
	onsultant/CA Review & Approval	37	28-Nov-15 A	08-Jan-16		- !		Consultant/CA R		
	onsultant/CA Review & Approval	11	08-Jan-16	22-Jan-16					Consultant/C	
	reparation and submission for CSID / CBWD at B1/F	60	30-Oct-15 A	08-Jan-16		-		Preparation and	submission for CSID /	
	onsultant/CA Review & Approval	11	08-Jan-16	22-Jan-16		<u> </u>	<u></u>			A Review & Approval
	reparation and submission for BIM at LG/F	49	28-Nov-15 A	23-Jan-16		-			Preparation	n and submission for BIM at LG
	onsultant/CAReview & Approval	11	23-Jan-16	06-Feb-16		_				Consultant/CA Re
	reparation and submission for CSID / CBWD at LG/F	49	28-Nov-15 A	23-Jan-16		-			Preparation	n and submission for CSID / CB
	onsultant/CAReview & Approval	11	23-Jan-16	06-Feb-16		-				Consultant/CA Re
	reparation and submission for BIM at G/F	39	12-Dec-15 A	25-Jan-16						ation and submission for BIM at
	onsultant/CA Review & Approval	11	25-Jan-16	08-Feb-16						Consultant/C
	reparation and submission for CSID / CBWD at LG/F	39	12-Dec-15 A	25-Jan-16		-			Prepara	ation and submission for CSID /
	onsultant/CA Review & Approval	11	25-Jan-16	08-Feb-16						Consultant/C
	nd Sewage Pumping Station (SPS)	82 82	16-Oct-15 A	25-Jan-16					C 44 , al	f Inderground utilities for IOD
	udy of Underground utilities for ICP/SPS	82 113	16-Oct-15 A	25-Jan-16		1		1	Study o	of Underground utilities for ICP/
	ubmission for the early works	113 99	02-Oct-15 A 20-Oct-15 A	20-Feb-16 20-Feb-16						
Method Statement & M 3MPS.1027 EL	laterial Submission	99 11	20-Oct-15 A 30-Dec-15						aterials submission	
				12-Jan-16		-				wiew & Approval
	onsultant/CA Review & Approval	6	13-Jan-16	19-Jan-16					Consultant/CA Rev	view & Approval
	onsultant/CA Review & Approval	56	23-Oct-15 A	31-Dec-15		<u> </u>		Consultant/CA Review & Appro	hasoment structure	
3MPS.1037 Fc	prmwork design for basement structure	60 32	23-Oct-15 A 07-Dec-15 A	05-Jan-16 17-Jan-16					basement structure Consultant/CA Review	
3MPS.1038 Co	onsultant/CAReview & Approval									

Forecast Bar	Page 1 of 11		Date	
♦ Milestone		02-De	ec-15 3	3MRP
	M+ 3 Months Rolling Programme	31-De	ec-15 3	3MRP
	3MRP Rev B (2nd draft)			
	Main Works Contract for M+ Museum Project			

Jary			March 6		ri 7
14 21	28	06	13	20	27
s date M05 - SPS, Acce	ss date M05	SPS			
s date M06 - ICP, Acces					
s date M07 - ICP, Acces	1				
s date M22 - ICP/SPS,			SPS		
s date M32 - ICP & SPS	S. Access date	9 M32 - IC	P & SPS		
- Park Area West of Ne					
de road, (M72), M21-M	1+ north west	area with	n at-grade ro	ad M22-IC	P/SPS front
ao road, (iii 2), iii2 r ii			4a, M15, M16		
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urance, mobilisation, et					
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	I B2 - Comp	plete 35%	of Volume of	Bulk Excava	tion (42,000
etting up of Contractor					
e Construction / Setup	1000m2 / 100	nr person	Office with 2	Levels	
art to Occupy, Start to C	Occupy				
G/F					
Review & Approval					
BWD at LG/F					
Review & Approval					
at G/F					
CA Review & Approval					
/ CBWD at LG/F					
CA Review & Approval					
P/SPS					
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Revision			ecked	Appr	
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/IRP Rev B (2nd	Draft)	Den /		Leo Ha	rnett
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ctivity ID	Activity Name	Duration	Start	Finish	Quants	Production rates	December 3	January 4	February 5
3MPS.1040	Consultant/CA Review & Approval	47	05-Nov-15 A	03-Jan-16			29 06 13 20 :	27 03 10 17 24 Consultant/CA Review & Approval	31 07 14
3MPS.1040	Consultant/CA Review & Approval	53	26-Oct-15 A	31-Dec-15				Consultant/CA Review & Approval	
3MPS.1047	Method statement for B2 structure (M+ & DCS)	60	20-Oct-15 A	03-Jan-16				Method statement for B2 structure (M+ & DCS)	
3MPS.1048	Consultant/CA Review & Approval	11	03-Jan-16	17-Jan-16				Consultant/CA Review	
3MPS.1049	Method statement for B1 structure (M+ & DCS)	22	30-Dec-15	26-Jan-16				Method	d statement for B1 structure (M+
3MPS.1050	Consultant/CA Review & Approval	11	26-Jan-16	09-Feb-16					Consultant/CA
3MPS.1051	Falsework design for B1 structure (M+ & DCS)	31	30-Dec-15	06-Feb-16					Falsework design fo
3MPS.1052	Consultant/CA Review & Approval	11	06-Feb-16	20-Feb-16					
3MPS.1053	Method statement for setting up TC1 &TC3	45	15-Nov-15 A	09-Jan-16			-	Method statement for setting up TC1	
3MPS.1054 3MPS.1055	Consultant/CAReview & Approval Method statements for Mega Trusses (sequence, falsework etc)	31	09-Jan-16 30-Dec-15	23-Jan-16 06-Feb-16			_	Consultant	CA Review & Approval
3MPS.1055 3MPS.1056	Consultant/CA Review & Approval	7	06-Feb-16	14-Feb-16			_		Consu
3MPS.1058	Consultant/CA Review & Approval	43	10-Nov-15 A	03-Jan-16				Consultant/CA Review & Approval	
3MPS.1059	Back propping design for Cranage for Mega Trusses	31	30-Dec-15	06-Feb-16					Back propping desig
3MPS.1060	Consultant/CA Review & Approval	7	06-Feb-16	14-Feb-16			-		Consu
Facade Submis	sion and Approval	36	28-Nov-15 A	12-Jan-16					
3MPS.1062	Consultant/CAReview & Approval	33	29-Nov-15 A	08-Jan-16			1 1 1	Consultant/CA Review & Approval	
3MPS.1063	Facade Design proposal sketches for all areas of the facade system(s)	26	28-Nov-15 A	30-Dec-15			- 	Facade Design proposal sketches for all areas of the fa	
3MPS.1064	Consultant/CA Review & Approval	35	29-Nov-15 A	12-Jan-16				Consultant/CA Review & Approv	
3MPS.1066	Consultant/CA Review & Approval	35	29-Nov-15 A	11-Jan-16				Consultant/CA Review & Approva	
3MPS.1068	Consultant/CA Review & Approval	35	29-Nov-15 A	11-Jan-16 01-Jan-16			-	Consultant/CA Review & Approva	u
	aissions on Programme, Health and Safety, Security, Quality etc	48	02-Nov-15 A 02-Nov-15 A	01-Jan-16					
	Consultant/CA Review & Approval	48	02-Nov-15A	01-Jan-16				Consultant/CA Review & Approval	+
	vices and site facilities	101	02-Oct-15 A	05-Feb-16					
	hment & Temporary Facilities	101	02-Oct-15 A	05-Feb-16					
3MPS.1003	Hoarding Handover and Modification Works	30	30-Dec-15	05-Feb-16					Hoarding Handover an
3MPS.1004	WSD - Apply for temporary water supply (Bachy)	87	02-Oct-15 A	18-Jan-16			 		porary water supply (Bachy)
M+.20 Const	truction Works (Excavation & ELS)	87	11-Dec-15 A	01-Apr-16					
M+ AEL North	n - North of AEL	86	11-Dec-15 A	01-Apr-16					
Stage 1 - BD		74	11-Dec-15 A	15-Mar-16					
-	ormation (Area A)	12	14-Dec-15 A	31-Dec-15					
3MSS.1004	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GLC'-G'/2-7'		14-Dec-15 A	30-Dec-15		2 machines @ 700m3/day		Excavate +1.8mPD to _2.30mPD for B2 Slab Formation	
3MSS.1005 3MSS.1006	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL B -C/2-4') - Port Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C ⁺ F/2-4)		14-Dec-15 A 18-Dec-15 A	30-Dec-15 31-Dec-15		2 machines @ 700m3/day 2 machines @ 700m3/day	_	Excavate +1.8mPD to _2.30mPD for B2 battered slope	
3MSS.1000	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL I'-E'/6'-4) - Porti		21-Dec-15 A	31-Dec-15		2 machines @ 700m3/day		Excavate +1.8mPD to _2.30mPD for B2 battered slop	
	ap Construction (Area A)	39	16-Dec-15 A	03-Feb-16	occomo				
Portion A1i		6	30-Dec-15	06-Jan-16					
CPC40 (Type 0	07)	0	31-Dec-15	02-Jan-16					
3MSS.1032	concrete pouring - CPC 40 (07) - Portion A1i	0	31-Dec-15	02-Jan-16	24.5m3			concrete pouring - CPC 40 (07) - Portion A1i	
CPC41 (Type 0	07)	6	30-Dec-15	06-Jan-16					
	Concreting for Vertical blinding - Portion A1i	1	30-Dec-15	30-Dec-15				Concreting for Vertical blinding - Portion A1i	
	5 Strip formwork - Portion A1i	1	31-Dec-15	31-Dec-15				Strip formwork - Portion A1i	
3MSS.1013 3MSS.1013		1	02-Jan-16 04-Jan-16	02-Jan-16 04-Jan-16			_	Install waterproofing - Portion A1i Backfill - Portion A1i	
3MSS.1013		1	04-Jan-16	05-Jan-16	22.05T	5 men @ 0.9T/man/day	_	 Rebar Installation - CPC 41 (07) - Portion A 	A41
3MSS.1034		1	06-Jan-16	06-Jan-16	24.5m3	o mon e olo ninarrady	—	Concrete pouring - CPC 41 (07) - Portion	
Portion A1ii		23	16-Dec-15 A	15-Jan-16					
CPC42 (Type 0	07)	6	30-Dec-15	06-Jan-16					
3MSS.1015	i4 Concreting for Vertical blinding - Portion A1ii	1	30-Dec-15	30-Dec-15				Concreting for Vertical blinding - Portion A1ii	
3MSS.1015	5 Strip formwork - Portion A1ii	1	31-Dec-15	31-Dec-15			_	Strip formwork - Portion A1ii	
3MSS.1015	6 Install waterproofing - Portion A1ii	1	02-Jan-16	02-Jan-16				Install waterproofing - Portion A1ii	
3MSS.1015	i7 Backfill - Portion A1ii	1	04-Jan-16	04-Jan-16				Backfill - Portion A1ii	
3MSS.1022		1	05-Jan-16	05-Jan-16	22.05T	5 men @ 0.9T/man/day		Rebar Installation - CPC 42 (07) - Portion A	
3MSS.1036		1	06-Jan-16	06-Jan-16	24.5m3			concrete pouring - CPC 42 (07) - Portion	A1ii
CPC43 (Type 0		6	30-Dec-15	06-Jan-16					
	4 Concreting for Vertical blinding - Portion A1 ii	1	30-Dec-15	30-Dec-15 31-Dec-15			_	Concreting for Vertical blinding - Portion A1 ii	
3MSS.1014 3MSS.1014		1	31-Dec-15 02-Jan-16	02-Jan-16				Install waterproofing - Portion A1ii	1
3MSS.1014	· · ·	1	02-Jan-10 04-Jan-16	02-Jan-10 04-Jan-16			—	Backfill - Portion A1ii	
3MSS.1021		1	05-Jan-16	05-Jan-16	22.05T	5 men @ 0.9T/man/day	—	Rebar Installation - CPC 43 (07) - Portion A	Alii
3MSS.1035		1	06-Jan-16	06-Jan-16	24.5m3		-	Concrete pouring - CPC 43 (07) - Portion	
CPC44 (Type 0	07)	6	30-Dec-15	06-Jan-16					
	Concreting for Vertical blinding - Portion A1 ii	1	30-Dec-15	30-Dec-15				Concreting for Vertical blinding - Portion A1 ii	
3MSS.1012	25 Strip formwork - Portion A1ii	1	31-Dec-15	31-Dec-15				Strip formwork - Portion A1ii	
3MSS.1012		1	02-Jan-16	02-Jan-16				Install waterproofing - Portion A1ii	
3MSS.1012		1	04-Jan-16	04-Jan-16				Backfill - Portion A1ii	
3MSS.1019	Rebar Installation - CPC 44 (07) - Portion A1ii	1	05-Jan-16	05-Jan-16	22.05T	5 men @ 0.9T/man/day		Rebar Installation - CPC 44 (07) - Portion A	A/1 ii
For	recast Bar						Page 2 of 11		Date
Mile				0.14					02-Dec-15 3MRP
			IVI-	- 3 Mon	ths Roll	ing Programme			31-Dec-15 3MRP
				3MR	P Rev B	(2nd draft)			
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⊦ & DCS)					
A Review & Approval					
or B1 structure (M+ &	DCS)				
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s for Mega Trusses (s		Isework etc)			
sultant/CA Review &	Approval				
ign for Cranage for N	lega Trusse	S			
sultant/CA Review &	Approval				
and Modification Wor	ks				
A2					
n A3					
Povision		Char	kod	٨٣٣٠	
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P Rev B (2nd D	Draft)	Den / C	nris	Leo Ha	rnett

D /	Activity Name	Duration	Start	Finish	Quants	Production rates	DecemberJanuaryFebruaryMarch3456
3MSS 1033	concrete pouring - CPC 44 (07) - Portion A1ii	1	06-Jan-16	06-Jan-16	24.5m3		29 06 13 20 27 03 10 17 24 31 07 14 21 28 06 13 20 Concrete pouring - CPC 44 (07) - Portion A1ii
CPC42-2 (Type 03)		21	16-Dec-15 A	13-Jan-16	2 1.0110		
3MSS.1016 E	Excavation works for Pile - CPC 42-2 (03) - Portion A1ii	12	16-Dec-15 A	02-Jan-16	14.34m3	1 machine @ 190m3/day	Excavation works for Pile - CPC 42-2 (03) - Portion A1ii
3MSS.10161 E	Breakdown Pile(s) - Portion A1ii	1	02-Jan-16	04-Jan-16			Breakdown Pile(s) - Portion A1ii
	Horizontal Blinding layer - Portion A1ii	1	04-Jan-16	05-Jan-16			Horizontal Blinding layer - Portion A1ii
	Formwork for Vertical blinding - Portion A1i	1	05-Jan-16	06-Jan-16			Formwork for Vertical blinding - Portion A11
	Concreting for Vertical blinding - Portion A1 ii	1	06-Jan-16	07-Jan-16			Concreting for Vertical blinding - Portion A1 ii
	Strip formwork - Portion A1ii	1	07-Jan-16	08-Jan-16			Strip formwork - Portion A1ii
	Install waterproofing - Portion A1ii Backfill - Portion A1ii	1	08-Jan-16 09-Jan-16	09-Jan-16 11-Jan-16			Install waterproofing - Portion A1ii Backfill - Portion A1ii
	Rebar Installation - CPC 42-2 (03) - Portion A1ii	1	11-Jan-16	12-Jan-16	12.90T	5 men @ 0.9T/man/day	Backiii - Foliuli Alii Rebar Installation - CPC 42-2 (03) - Portion A1ii
	concrete pouring - CPC 42-2 (03) - Portion A1ii	1	12-Jan-16	13-Jan-16			□ concrete pouring - CPC 42-2 (03) - Portion A1ii
CPC49 (Type 02)		10	02-Jan-16	14-Jan-16			
	Excavation works for Pile - CPC 49 (02) - Portion A1ii	1	02-Jan-16	04-Jan-16	5.6m3	1 machine @ 190m3/day	Excavation works for Pile - CPC 49 (02) - Portion A1ii
3MSS.10391 E	Breakdown Pile(s) - Portion A1ii	1	04-Jan-16	05-Jan-16			Breakdown Pile(s) - Portion A1ii
3MSS.10392	Horizontal Blinding layer - Portion A1ii	1	05-Jan-16	06-Jan-16			Horizontal Blinding layer - Portion A1ii
3MSS.10393 F	Formwork for Vertical blinding - Portion A1i	1	06-Jan-16	07-Jan-16			Formwork for Vertical blinding - Portion A1i
3MSS.10394 0	Concreting for Vertical blinding - Portion A1 ii	1	07-Jan-16	08-Jan-16			Concreting for Vertical blinding - Portion A1 ii
3MSS.10395	Strip formwork - Portion A1ii	1	08-Jan-16	09-Jan-16			Strip formwork - Portion A1ii
3MSS.10396 I	Install waterproofing - Portion A1ii	1	09-Jan-16	11-Jan-16			Install waterproofing - Portion A1ii
	Backfill - Portion A1ii	1	11-Jan-16	12-Jan-16			Backfill - Portion A1ii
	Rebar Installation - CPC 49 (02) - Portion A1ii	1	12-Jan-16	13-Jan-16		5 men @ 0.9T/man/day	Rebar Installation - CPC 49 (02) - Portion A1ii
	Concrete Pouring - CPC 49 (02) - Portion A1ii	1	13-Jan-16	14-Jan-16	5.6m3		Concrete Pouring - CPC 49 (02) - Portion A1ii
CPC50 (Type 02)		10	04-Jan-16	15-Jan-16	5.6002	1 machine @ 1000/	Evolution works for Dire CDO 50 (00) Detring 44
	Excavation works for Pile - CPC 50 (02) - Portion A1ii Breakdown Pile(s) - Portion A1ii	1	04-Jan-16	05-Jan-16 06-Jan-16	5.6m3	1 machine @ 190m3/day	Excavation works for Pile - CPC 50 (02) - Portion A1ii Breakdown Pile(s) - Portion A1ii
	Breakdown Pile(s) - Portion A1 ii Horizontal Blinding layer - Portion A1 ii	1	05-Jan-16 06-Jan-16	06-Jan-16 07-Jan-16			 Breakdown Pile(s) - Portion A1ii Horizontal Blinding layer - Portion A1ii
	Formwork for Vertical blinding - Portion A1i	1	07-Jan-16	08-Jan-16			 Formwork for Vertical blinding - Portion A1i
	Concreting for Vertical blinding - Portion A1 ii	1	08-Jan-16	09-Jan-16			Concreting for Vertical blinding - Portign A1 ii
	Strip formwork - Portion A1ii	1	09-Jan-16	11-Jan-16			Strip formwork - Portion A1ii
	Install waterproofing - Portion A1ii	1	11-Jan-16	12-Jan-16			Install waterproofing - Portion A1i
	Backfill - Portion A1ii	1	12-Jan-16	13-Jan-16			🗖 Backfill - Portion A1ii
3MSS.1047 F	Rebar Installation - CPC 50 (02) - Portion A1ii	1	13-Jan-16	14-Jan-16	5.04T	5 men @ 0.9T/man/day	Rebar Installation - CPC 50 (02) - Portion A1ii
3MSS.1061 0	Concrete Pouring - CPC 50 (02) - Portion A1ii	1	14-Jan-16	15-Jan-16	5.6m3		Concrete Pouring - CPC 50 (02) - Portion A1ii
Portion A2		13	05-Jan-16	20-Jan-16			
PC05 (Type 03)		10	05-Jan-16	16-Jan-16			
3MSS.1041 E	Excavation works for Pile - PC 05 (03) - Portion A2	1	05-Jan-16	06-Jan-16	14.34m3	1 machine @ 190m3/day	Excavation works for Pile - PC 05 (03) - Portion A2
3MSS.10411 E	Breakdown Pile(s)- Portion A2	1	06-Jan-16	07-Jan-16			Breakdown Pile(s)- Portion A2
3MSS.10412 H	Horizontal Blinding layer - Portion A2	1	07-Jan-16	08-Jan-16			Horizontal Blinding layer - Portion A2
	Formwork for Vertical blinding - Portion A2	1	08-Jan-16	09-Jan-16			Formwork for Vertical blinding - Portion A2
	Concreting for Vertical blinding - Portion A2	1	09-Jan-16	11-Jan-16			Concreting for Vertical blinding - Portion A2
	Strip formwork - Portion A2	1	11-Jan-16	12-Jan-16			Strip formwork - Portion A2
	Install waterproofing - Portion A2	1	12-Jan-16	13-Jan-16			Install waterproofing - Portion A2
	Backfill - Portion A2	1	13-Jan-16	14-Jan-16	12.0T	5 man @ 0.0T/man/day	Backfill - Portion A2 Backfill - Boots (22) Baction A2
	Rebar Installation - PC 05 (03) - Portion A2 Concrete Pouring - PC 05 (03) - Portion A2	1	14-Jan-16 15-Jan-16	15-Jan-16 16-Jan-16	12.9T 14.34m3	5 men @ 0.9T/man/day	Concrete Pouring - PC 05 (03) - Portion A2 Concrete Pouring - PC 05 (03) - Portion A2
PC06 (Type 04)		10	06-Jan-16	18-Jan-16	14.341113		
	Excavation works for Pile - PC 06 (04) - Portion A2	10	06-Jan-16	07-Jan-16	15.68m3	1 machine @ 190m3/day	Excavation works for Pile - PC 06 (04) - Portion A2
	Breakdown Pile(s) - Portion A2	1	07-Jan-16	08-Jan-16	10.00110	T machine & roomorady	Breakdown Pile(s) - Portion A2
	Horizontal Blinding layer - Portion A2	1	08-Jan-16	09-Jan-16			Horizontal Blinding layer - Portion A2
	Formwork for Vertical blinding - Portion A2	1	09-Jan-16	11-Jan-16			Formwork for Vertical blinding - Portion A2
	Concreting for Vertical blinding - Portion A2	1	11-Jan-16	12-Jan-16			Concreting for Vertical blinding - Portion A2
	Strip formwork - Portion A2	1	12-Jan-16	13-Jan-16			Strip formwork - Portion A2
3MSS.10436	Install waterproofing - Portion A2	1	13-Jan-16	14-Jan-16			Install waterproofing - Portion A2
3MSS.10437 E	Backfill - Portion A2	1	14-Jan-16	15-Jan-16			Backfill - Portion A2
3MSS.1050 F	Rebar Installation - PC 06 (04) - Portion A2	1	15-Jan-16	16-Jan-16	14.11T	5 men @ 0.9T/man/day	Rebar Installation - PC 06 (04) - Portion A2
3MSS.1064 0	Concrete Pouring - PC 06 (04) - Portion A2	1	16-Jan-16	18-Jan-16	15.68m3		Concrete Pouring - PC 06 (04) - Portion A2
PC07 (Type 04)		10	07-Jan-16	19-Jan-16			
	Excavation works for Pile - PC 07 (04) - Portion A2	1	07-Jan-16	08-Jan-16	15.68m3	1 machine @ 190m3/day	Excavation works for Pile - PC 07 (04) - Portion A2
	Breakdown Pile(s) - Portion A2	1	08-Jan-16	09-Jan-16			Breakdown Pile(s) - Portion A2
	Horizontal Blinding layer - Portion A2	1	09-Jan-16	11-Jan-16			Horizontal Blinding layer - Portion A2
	Formwork for Vertical blinding - Portion A2	1	11-Jan-16	12-Jan-16			Formwork for Vertical blinding - Portion A2
	Concreting for Vertical blinding - Portion A2 Strip formwork - Portion A2	1	12-Jan-16	13-Jan-16			Concreting for Vertical blinding - Portion A2
	Strip formwork - Portion A2	1	13-Jan-16	14-Jan-16			Strip formwork - Portion A2 Install waterproofing - Portion A2
	Install waterproofing - Portion A2 Backfill - Portion A2	1	14-Jan-16 15-Jan-16	15-Jan-16 16-Jan-16			Install waterprooting - Portion A2 Backfill - Portion A2
	Rebar Installation - PC 07 (04) - Portion A2	1	15-Jan-16 16-Jan-16	16-Jan-16 18-Jan-16	14.11T	5 men @ 0.9T/man/day	Backrill - Portion A2
	100001 11010110101 - 1 0 07 (04) = FUILUITAZ	1	18-Jan-16	18-Jan-16 19-Jan-16		5 men ⊛ 0.31/mdl//udy	Concrete Pouring - PC 07 (04) - Portion A2
3MSS.1051 F	Concrete Pouring - PC 07 (04) - Portion A2	1	10-Jan* 10	13-Jall=10	10.00110		
3MSS.1051 F	Concrete Pouring - PC 07 (04) - Portion A2						Date Revision Checked Appro
3MSS.1051 F							
3MSS.1051 F 3MSS.1065 C	ast Bar			3 M	4ha D-"		Page 3 of 11 02-Dec-15 3MRP Rev B (1st Draft) Edgar / Chris Leo Har
3MSS.1051 F 3MSS.1065 (ast Bar		M+	· 3 Mon	ths Roll	ling Programme	02-Dec-15 3MRP Rev B (1st Draft) Edgar / Chris Leo Har 31-Dec-15 3MRP Rev B (2nd Draft) Den / Chris Leo Har
3MSS.1051 F 3MSS.1065 C	ast Bar		M+				02-Dec-15 3MRP Rev B (1st Draft) Edgar / Chris Leo Har
3MSS.1051 F 3MSS.1065 (ast Bar			3MR	P Rev B	ling Programme 3 (2nd draft) or M+ Museum P	02-Dec-15 3MRP Rev B (1st Draft) Edgar / Chris Leo Har 31-Dec-15 3MRP Rev B (2nd Draft) Den / Chris Leo Har

Activity ID	Activity Name	Duro	tion Start	Einich	Quanta	Broduction rates	December	January	February
	Activity Name	Dura	tion Start	Finish	Quants	Production rates	3	4	5
D000 (Turne 00)		40	00.1 40	00.1==.40			29 06 13 20	27 03 10 17 24	31 07 14
PC08 (Type 02)		10							
	Excavation works for Pile - PC 08 (02) - Portion A	1	08-Jan-16		5.6m3	1 machine @ 190m3/day		Excavation works for Pile - PC 08 (02	2); - Portion A2
3MSS.10421	Breakdown Pile(s) - Portion A2	1	09-Jan-16					Breakdown Pile(s) - Portion A2	
3MSS.10422	Horizontal Blinding layer - Portion A2	1	11-Jan-16	12-Jan-16				Horizontal Blinding layer - Portion	n A2
3MSS.10423	Formwork for Vertical blinding - Portion A2	1	12-Jan-16	13-Jan-16				Formwork for Vertical blinding	- Portion A2
3MSS.10424	Concreting for Vertical blinding - Portion A2	1	13-Jan-16	14-Jan-16				Concreting for Vertical blinding	ng - Portion A2
3MSS.10425	Strip formwork - Portion A2	1	14-Jan-16	15-Jan-16			-	Strip formwork - Portion A	2
	Install waterproofing - Portion A2	1	15-Jan-16					Install waterproofing - Pc	
							_	Backfill - Portion A2	
		1							
3MSS.1049	Rebar Installations - PC 08 (02) - Portion A2	1			5.04T	5 men @ 0.9T/man/day	_		- PC 08 (02) - Portion A2
3MSS.1063	Concrete Pouring - PC 08 (02) - Portion A2	1	19-Jan-16	20-Jan-16	5.6m3			Concrete Pouring	g PC 08 (02) - Portion A2
Portion A3		17	09-Jan-16	29-Jan-16					
PC18 (Type 01)		10	09-Jan-16	21-Jan-16					[
3MSS.1071	Excavation works for Pile - PC 18 (01) - Portion A	3 1	09-Jan-16	11-Jan-16	2m3	1 machine @ 190m3/day		Excavation works for Pile - PC 18	(01) - Portion A3
3MSS.10711	Breakdown Pile(s) - Portion A3	1	11-Jan-16	12-Jan-16			-	Breakdown Pile(s) - Portion A3	
	Horizontal Blinding layer - Portion A3	1					—	Horizontal Blinding layer - Por	1
	÷ ·						_		1
	Formwork for Vertical blinding - Portion A3	1						Formwork for Vertical blindin	
3MSS.10714	Concreting for Vertical blinding - Portion A3	1	14-Jan-16	15-Jan-16				Concreting for Vertical blin	ding - Portion A3
3MSS.10715	Strip formwork - Portion A3	1	15-Jan-16	16-Jan-16				Strip formwork - Portion	A3
3MSS.10716	Install waterproofing - Portion A3	1	16-Jan-16	18-Jan-16				Install waterproofing	- Portion A3
3MSS.10717	Backfill - Portion A3	1	18-Jan-16	19-Jan-16			-	Backfill - Portion A3	3
3MSS.1079	Rebar /Earthing Installation - PC 18 (01) - Portio	n A3 1	19-Jan-16	20-Jan-16	1.8T			Rebar /Farthing	Installation - PC 18 (01) - Portion A
	3 ()							· · · · · · · · · · · · · · · · · · ·	
3MSS.1094	Concrete Pouring - PC 18 (01) - Portion A3	1	20-Jan-16		2m3			Concreté Pourli	ing - PC 18 (01) - Portion A3
PC19 (Type 02)		10						_	
3MSS.1070	Excavation works for Pile - PC 19 (02) - Portion A	3 1	11-Jan-16	12-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile - PC 1	9 (02) - Portion A3
3MSS.10701	Breakdown Pile(s) - Portion A3	1	12-Jan-16	13-Jan-16				Breakdown Pile(s) - Portion A	3
3MSS.10702	Horizontal Blinding layer - Portion A3	1	13-Jan-16	14-Jan-16				Horizontal Blinding layer - Po	ortion A3
3MSS.10703	Formwork for Vertical blinding - Portion A3	1	14-Jan-16	15-Jan-16			1	Formwork for Vertical blind	ding - Portion A3
	Concreting for Vertical blinding - Portion A3	1	15-Jan-16	16-Jan-16				Concreting for Vertical bl	1
	Strip formwork - Portion A3		16-Jan-16				—	Strip formwork - Port	
		1							1
		1	18-Jan-16					Install waterproofin	1
3MSS.10707	Backfill - Portion A3	1	19-Jan-16	20-Jan-16				Backfill - Portion A	43
3MSS.1078	Rebar Installation - PC 19 (02) - Portion A3	1	20-Jan-16	21-Jan-16	5.04T			Rebar Installation	on - PC 19 (02) - Portion A3
3MSS.1093	Concrete Pouring - PC 19 (02) - Portion A3	1	21-Jan-16	22-Jan-16	5.6m3			Concrete Pou	uring - PC 19 (02) - Portion A3
PC20 (Type 07)		14	12-Jan-16	28-Jan-16					
3MSS.1069	Excavation works for Pile - PC 20 (07) - Portion A	3 1	12-Jan-16	13-Jan-16	25m3	1 machine @ 190m3/day		Excavation works for Pile - PC	20 (07) - Portion A3
3MSS.10691	Breakdown Pile(s) - Portion A3	1	13-Jan-16				-	Breakdown Pile(s) - Portion	
	Horizontal Blinding layer - Portion A3	1						Horizontal Blinding layer -	
3MSS.10693	Formwork for Vertical blinding - Portion A3	1	15-Jan-16	16-Jan-16				Formwork for Vertical blin	nding - Portion A3
3MSS.10694	Concreting for Vertical blinding - Portion A3	1	16-Jan-16	18-Jan-16				Concreting for Vertica	al blinding - Portion A3
3MSS.10695	Strip formwork - Portion A3	1	18-Jan-16	19-Jan-16				Strip formwork - Po	ortion A3
3MSS.10696	Install waterproofing - Portion A3	1	19-Jan-16	20-Jan-16				Install waterproof	ing - Portion A3
3MSS.10697	Backfill - Portion A3	1	20-Jan-16	21-Jan-16				Backfill - Portior	n Å3
3MSS.1077	Rebar Installation - PC 20 (07) - Portion A3	5			22.05T		-		at Installation - PC 20 (07) - Portion
							_		
3MSS.1092	Concrete Pouring - PC 20 (07) - Portion A3	1	27-Jan-16		25m3			L Co	oncrete Pouring - PC 20 (07) - Portic
PC21 (Type 02)		10	12-Jan-16	23-Jan-16					
3MSS.1067	Excavation works for Pile - PC 21 (02) - Portion A	A3 1	12-Jan-16	13-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile - PC	21 (02) - Portion A3
3MSS.10671	Breakdown Pile(s) - Portion A3	1	13-Jan-16	14-Jan-16				Breakdown Pile(s) - Portion	A3
3MSS.10672	Horizontal Blinding layer - Portion A3	1	14-Jan-16	15-Jan-16				Horizontal Blinding layer -	Portion A3
		1						Formwork for Vertical blin	1
3MSS.10674		1			_		-1	Concreting for Vertical	
							-1		
	•	1	18-Jan-16						
3MSS.10676	Install waterproofing - Portion A3	1	19-Jan-16	20-Jan-16				Install waterproof	ing - Portion A3
3MSS.10677	Backfill - Portion A3	1	20-Jan-16	21-Jan-16				Backfill - Portion	n A3
3MSS.1074	Rebar /Earthing Installation - PC 21 (02) - Portio	n A3 1	21-Jan-16	22-Jan-16	5.04T			🗖 Rebar /Earthi	ing Installation - PC 21 (02) - Portio
3MSS.1090	Concrete Pouring - PC 21 (02) - Portion A3	1	22-Jan-16	23-Jan-16	5.6m3			Concrete Po	ouring - PC 21 (02) - Portion A3
PC31 (Type 01)		9	13-Jan-16						
3MSS.1201	Excavation works for Pile - PC 31 (01) - Portion A				2m3	1 machine @ 190m3/day	•	Excavation works for Pile - P	20 31 (01) - Portion A2
					21110	i maciline 🤤 i 90m3/day	-[]		
3MSS.12011	Breakdown Pile(s) - Portion A3	1	14-Jan-16					Breakdown Pile(s) - Portio	1
3MSS.12012	Horizontal Blinding layer - Portion A3	1	15-Jan-16	16-Jan-16				Horizontal Blinding layer	- Portion A3
3MSS.12013	Formwork for Vertical blinding - Portion A3	1	16-Jan-16	18-Jan-16				Formwork for Vertica	I blinding - Portion A3
3MSS.12014	Concreting for Vertical blinding - Portion A3	1	18-Jan-16	19-Jan-16				Concreting for Vertil	tical blinding - Portion A3
3MSS.12015	Strip formwork - Portion A3	1	19-Jan-16	20-Jan-16			1	Strip formwork - F	Portion A3
3MSS.12016		1	20-Jan-16		_		-1	Install waterproc	1
							-[
3MSS.12017		1					_ -	Backfill - Portic	1
3MSS.1202	Rebar Installation - PC 31 (01) - Portion A3	1			1.8T	5 men @ 0.9T/man/day			Illation - PC 31 (01) - Portion A3
3MSS.1225	Concrete pouring - PC 31 (01) - Portion A3	1	23-Jan-16	23-Jan-16	2m3			Concrete po	ouring - PC 31 (01) - Portion A3
PC32 (Type 01)	·	9	14-Jan-16	25-Jan-16					
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Eorec	cast Bar						Page 4 of 11		Date
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	Activity Name	Duration	Start	Finish	Quants	Production rates	3	4	5
3MSS.1179	Excavation works for Pile - PC 32 (01) - Portion A3	1	14-Jan-16	15-Jan-16	2m3	1 machine @ 190m3/day	29 06 13 20 2	7 03 10 17 24 Excavation works for Pile -	31 07 PC 32 (01) - Portion A3
	Breakdown Pile(s) - Portion A3	1	15-Jan-16	16-Jan-16	21110	T maanine @ Toomoraay	—	Breakdown Pile(s) - Porti	1
	Horizontal Blinding layer - Portion A3	1	16-Jan-16	18-Jan-16			—	Horizontal Blinding lay	1
	Formwork for Vertical blinding - Portion A3	1	18-Jan-16	19-Jan-16			—	Formwork for Vertic	1
	Concreting for Vertical blinding - Portion A3	1	19-Jan-16	20-Jan-16					rtical blinding - Portion A3
	Strip formwork - Portion A3	1	20-Jan-16	21-Jan-16			—	Strip formwork -	1
	Install waterproofing - Portion A3	1	21-Jan-16	22-Jan-16			-	Install waterproduced	1
	Backfill - Portion A3	1	22-Jan-16	23-Jan-16			-	Backfill - Port	1
	Rebar Installation - PC 32 (01) - Portion A3	1	23-Jan-16	23-Jan-16	1.8T	5 men @ 0.9T/man/day	—		lation - PC 32 (01) - Portion
	Concrete pouring - PC 32 (01) - Portion A3	1	23-Jan-16	25-Jan-16	2m3	,			
PC33 (Type 02)		10	15-Jan-16	27-Jan-16					
	Excavation works for Pile - PC 33 (02) - Portion A3	1	15-Jan-16	16-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile	+ PC 33 (02) - Portion A3
	Breakdown Pile(s) - Portion A3	1	16-Jan-16	18-Jan-16			—	Breakdown Pile(s) - F	1
	Horizontal Blinding layer - Portion A3	1	18-Jan-16	19-Jan-16			—	Horizontal Blinding I	1
	Formwork for Vertical blinding - Portion A3	1	19-Jan-16	20-Jan-16					tical blinding - Portion A3
	Concreting for Vertical blinding - Portion A3	1	20-Jan-16	21-Jan-16			-		ertical blinding - Portion A3
	Strip formwork - Portion A3	1	21-Jan-16	22-Jan-16			-	Strip formwork	1
3MSS.10686	Install waterproofing - Portion A3	1	22-Jan-16	23-Jan-16			—		proofing - Portion A3
	Backfill - Portion A3	1	23-Jan-16	25-Jan-16			—	Backfill -	1
	Rebar Installation - PC 33 (02) - Portion A3	1	25-Jan-16	26-Jan-16	5.04T	5 men @ 0.9T/man/day			Installation - PC 33 (02) - P
	Concrete Pouring - PC 33 (02) - Portion A3	1	26-Jan-16	27-Jan-16	5.6m3	o mon o olo ninanday	-		rete Pouring - PC 33 (02) -
C44 (Type 02)		12	15-Jan-16	29-Jan-16	0.01110				(02)
	Excavation works for Pile - PC 44 (02) - Portion A3	1	15-Jan-16	16-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile	- PC 44 (02) - Portion A3
	Breakdown Pile(s) - Portion A3	1	16-Jan-16	18-Jan-16	5.0115	T machine @ 130m3/day	_	Breakdown Pile(s) - F	1
	Horizontal Blinding layer - Portion A3	1	18-Jan-16	19-Jan-16				Horizontal Blinding I	
	Formwork for Vertical blinding - Portion A3	1	19-Jan-16	20-Jan-16			_		tical blinding - Portion A3
	Concreting for Vertical blinding - Portion A3	1	20-Jan-16	20-Jan-16 21-Jan-16			_	1	ertical blinding - Portion A3
		· · ·					_		1
	Strip formwork - Portion A3	1	21-Jan-16	22-Jan-16			_	Strip formwork	1
	Install waterproofing - Portion A3	1	22-Jan-16	23-Jan-16				····	proofing - Portion A3
	Backfill - Portion A3	1	23-Jan-16	25-Jan-16	5.04T	E man @ 0.0T/man/day	_	Backfill -	
	Rebar Installation -PC 44 (02) - Portion A3	3	25-Jan-16	28-Jan-16	5.04T	5 men @ 0.9T/man/day	_		bar Installation -PC 44 (02) -
	Concrete pouring - PC 44 (02) - Portion A3	1	28-Jan-16	29-Jan-16	5.6m3		_	LC	oncrete pouring - PC 44 (02
	I,25,19,38,2,14) - Portion A	24	07-Jan-16	03-Feb-16					
/pe 25		4	07-Jan-16	11-Jan-16	5.0				
3MSS.1104	Excavation (Type 25) - GL 6'7'-D'E' - Portion A1i	1	07-Jan-16	07-Jan-16	5m3	1 machine @ 190m3/day	_	Excavation (Type 25) - GL 6'7'-D'E' - Por	1
3MSS.1105	Rebar Installation(Type 25) - GL 6'7'-D'E' - Portion A1i	1	08-Jan-16	08-Jan-16			_	Rebar Installation(Type 25) - GL 6'7'-D	1
	Formworks (Type 25) - GL 6'7'-D'E' - Portion A1i	1	09-Jan-16	09-Jan-16			_	Formworks (Type 25) - GL 6'7'-D'E' -	
	Concrete Pouring (Type 25) - GL 6'7'-D'E' - Portion A1i	1	11-Jan-16	11-Jan-16				Concrete Pouring (Type 25) - GL	.6'7'-D'E' - Portion A1i
pe 1		4	08-Jan-16	12-Jan-16					
	Excavation (Type 1) - GL 6'7'-D'E' - Portion A1i	1	08-Jan-16	08-Jan-16	5m3	1 machine @ 190m3/day	_	Excavation (Type 1) - GL 6'7'-D'E' - Po	1
3MSS.1101	Rebar Installation (Type 1) - GL 6'7'-D'E' - Portion A1i	1	09-Jan-16	09-Jan-16				Rebar Installation (Type 1) - GL 6'7'-I	1
	Formworks (Type 1) - GL 6'7'-D'E' - Portion A1i	1	11-Jan-16	11-Jan-16				Formworks (Type 1) - GL 6'7'-D'E	1
3MSS.1103	Concrete Pouring (Type 1) - GL 6'7'-D'E'- Portion A1i	1	12-Jan-16	12-Jan-16				Concrete Pouring (Type 1) - GL	_;6'7'-D'E'- Portion A1i
vpe 19		3	19-Jan-16	22-Jan-16					
3MSS.1108	Excavation (Type 19) - GL 7'-1/D-'E' - Portion A2	1	19-Jan-16	20-Jan-16	5m3	1 machine @ 190m3/day			19) - GL 7'-1/D-'E' - Portion
3MSS.1109	Rebar Installation (Type 19) - GL 7'-1/D-'E' - Portion A2	1	20-Jan-16	21-Jan-16					on (Type 19) - GL 7'-1/D-'E'
3MSS.1110	Formworks (Type 19) - GL 7'-1/D-'E' - Portion A2	1	21-Jan-16	22-Jan-16				Formworks (T	ype 19) - GL 7'-1/D-'E' - Poi
3MSS.1111	Concrete Pouring (Type 19) - GL 7'-1/D-'E' - Portion A2	0	22-Jan-16	22-Jan-16				I Concrete Pou	ring (Type 19) - GL 7'-1/D-'E
ype 38			20-Jan-16	23-Jan-16					
3MSS.1112	Excavation (Type 38) - GL 1/C-'D' - Portion A2	1	20-Jan-16	21-Jan-16	5m3	1 machine @ 190m3/day		Excavation (Typ	e 38) - GL 1/C-'D' - Portion
3MSS.1113	Rebar Installation (Type 38) - GL 1/C-'D' - Portion A2	1	21-Jan-16	22-Jan-16				Rebar Installa	tion (Type 38) - GL 1/C-'D' -
3MSS.1114	Formworks (Type 38) - GL 1/C-'D' - Portion A2	1	22-Jan-16	23-Jan-16				Formworks	(Type 38) - GL 1/C-'D' - Por
3MSS.1115	Concrete Pouring (Type 38) - GL 1/C-'D' - Portion A2	0	23-Jan-16	23-Jan-16				I Concrete Po	ouring (Type 38) - GL 1/C-'D
Гуре 2		4	28-Jan-16	02-Feb-16					
3MSS.1116	Excavation (Type 2) - GL 2/D-'E' - Portion A3	1	28-Jan-16	29-Jan-16	5m3	1 machine @ 190m3/day		🗖 E	xcavation (Type 2) - GL 2/D
3MSS.1117	Rebar Installation (Type 2) - GL 2/D-'E' - Portion A3	1	29-Jan-16	30-Jan-16			_		Rebar Installation (Type 2) -
3MSS.1118	Formworks (Type 2) - GL 2/D-'E' - Portion A3	1	30-Jan-16	01-Feb-16					Formworks (Type 2) - G
3MSS.1119	Concrete Pouring (Type 2) - GL 2/D-'E' - Portion A3	1	01-Feb-16	02-Feb-16					Concrete Pouring (Typ
Туре 14		4	29-Jan-16	03-Feb-16					
3MSS.1120	Excavation (Type 14) - GL 2-3/E'-F' - Portion A3	1	29-Jan-16	30-Jan-16	5m3	1 machine @ 190m3/day			Excavation (Type 14) - GL 2
3MSS.1121	Rebar Installation (Type 14) - GL 2-3/E'-F' - Portion A3	1	30-Jan-16	01-Feb-16			—		Rebar Installation (Type
3MSS.1122	Formworks (Type 14) - GL 2-3/E'-F' - Portion A3	1	01-Feb-16	02-Feb-16			—		Formworks (Type 14)
	Concrete Pouring (Type 14) - GL 2-3/E'-F' - Portion A3	1	02-Feb-16	03-Feb-16					Concrete Pouring (T
age 1 - Site Form		14	11-Dec-15 A	31-Dec-15					51
3MSS.1128	Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K -A/8-3)	13	11-Dec-15 A	30-Dec-15	2830m3	2 machines @ 700m3/day		Excavate +1.8mPD to -2.3mPD for B2 Slab Formation I	.¦ Lievel (GL K'-A'/8-3)
3MSS.1129	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B'/3-7')	12	14-Dec-15 A	31-Dec-15	1289m3	2 machines @ 700m3/day		Excavate +1.8mPD to -2.3mPD for B2 battered slope	1 C C C C C C C C C C C C C C C C C C C
MSS.1129	Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6)	12	16-Dec-15 A	31-Dec-15	5825m3	2 machines @ 700m3/day		Excavate +1.8mPD to -2.3mPD for B2 Slab Formation	1
ASS.1131	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4)	9	17-Dec-15 A	31-Dec-15	3037m3	2 machines @ 700m3/day		Excavate +1.8mPD to -2.3mPD for B2 battered slope	1 I I I I I I I I I I I I I I I I I I I
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Main Works Contract for M+ Museum Project

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D Activity Name	Duration	n Start	Finish	Quants	Production rates	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20
Stage 1 - Pile Cap Construction (Area B)	44	29-Dec-15 A	23-Feb-16			9 06 13 20 27 03 10 17 24 31 07 14 21 28 06 13 2	10
Portion B1	27	31-Dec-15	02-Feb-16				
PC72 (Type S1)	27	31-Dec-15	02-Feb-16				
3MSS.11332 Horizontal Blinding layer - Portion B1	1	31-Dec-15	02-Jan-16			Horizontal Blinding layer - Portion B1	
3MSS.11333 Formwork for Vertical blinding - Portion B1	1	02-Jan-16	04-Jan-16			Formwork for Vertical blinding - Portion B1	
3MSS.11334 Concreting for Vertical blinding - Portion B1	1	04-Jan-16	05-Jan-16			Concreting for Vertical blinding - Portion B1	
3MSS.11335 Strip formwork - Portion B1	1	05-Jan-16	06-Jan-16			Strip formwork - Portion B1	
3MSS.11336 Install waterproofing - Portion B1	1	06-Jan-16	07-Jan-16			Install waterproofing - Portion B1	
3MSS.11337 Backfill - Portion B1	1	07-Jan-16	08-Jan-16			Backfill - Portion B1	
3MSS.1138 Rebar Installation - PC 72 - 33% (s1) - Portion B1	20	08-Jan-16	01-Feb-16		10 men @ 0.9T/man/day	Rebar Installation - PC 72 - 33% (s1) - Portion B1	
3MSS.1148 concrete pouring - PC 72 - 33% (s1) - Portion B1	1	01-Feb-16	02-Feb-16	380m3		Concrete pouring - PC 72 - 33% (s1) - Portion B1	
Portion B2	21	29-Dec-15 A	22-Jan-16				
PC59 (Type 02)	13	29-Dec-15 A	13-Jan-16				
3MSS.1135 Excavation works for Pile - PC 59 (02) - Portion B2	4	29-Dec-15 A	02-Jan-16	5.6m3	1 machine @ 190m3/day	Excavation works for Pile - PC 59 (02) - Portion B2	
3MSS.11351 Breakdown Pile(s) - Portion B2	4	30-Dec-15 A	04-Jan-16			Breakdown Pile(s) - Portion B2	
3MSS.11352 Horizontal Blinding layer - Portion B2	1	04-Jan-16	05-Jan-16			Horizontal Blinding layer - Portion B2	
3MSS.11353 Formwork for Vertical blinding - Portion B2	1	05-Jan-16	06-Jan-16			Formwork for Vertical blinding - Portion B2	
3MSS.11354 Concreting for Vertical blinding - Portion B2	1	06-Jan-16	07-Jan-16			Concreting for Vertical blinding - Portion B2	
3MSS.11355 Strip formwork - Portion B2	1	07-Jan-16	08-Jan-16			Strip formwork - Portion B2	
3MSS.11356 Install waterproofing - Portion B2	1	08-Jan-16	09-Jan-16			Install waterproofing - Portion B2	
3MSS.11357 Backfill - Portion B2	1	09-Jan-16	11-Jan-16			Backfill - Portion B2	
3MSS.1140 Rebar /Earthing Installation -PC 59 (02) - Portion B2	1	11-Jan-16	12-Jan-16			Rebar / Earthing Installation - PC (59 (02) - Portion B2	
3MSS.1150 concrete pouring - PC 59 (02) - Portion B2	1	12-Jan-16	13-Jan-16	5.6M3		concrete pouring - PC 59 (02): - Portion B2	
PC60 (Type 02)	13	29-Dec-15 A	14-Jan-16	5.01.0	4 markin @ 400 511		
3MSS.1153 Excavation works for Pile - PC 60 (02) - Portion B2	5	29-Dec-15 A	04-Jan-16	5.6M3	1 machine @ 190m3/day	Excavation works for Pile - PC 60 (02) - Portion B2	
3MSS.11531 Breakdown Pile(s) - Portion B2	5	29-Dec-15 A	05-Jan-16			Breakdown Pile(s) - Portion B2	
3MSS.11532 Horizontal Blinding layer - Portion B2	1	05-Jan-16	06-Jan-16			Horizontal Blinding layer - Portion B2 Foreward for Vertical Minding - Desting P2	
3MSS.11533 Formwork for Vertical blinding - Portion B2	1	06-Jan-16	07-Jan-16			Formwork for Vertical blinding - Portion B2	
3MSS.11534 Concreting for Vertical blinding - Portion B2	1	07-Jan-16	08-Jan-16			Concreting for Vertical blinding - Portion B2	
3MSS.11535 Strip formwork - Portion B2	1	08-Jan-16	09-Jan-16			Strip formwork - Portion B2	
3MSS.11536 Install waterproofing - Portion B2	1	09-Jan-16	11-Jan-16			Install waterproofing - Portion B2	
3MSS.11537 Backfill - Portion B2	1	11-Jan-16	12-Jan-16	5.047	5 mm @ 0.0T/mm /dm	Backfill - Portion B2	
3MSS.1157 Rebar Installation - PC 60 (02) - Portion B2	1	12-Jan-16	13-Jan-16		5 men @ 0.9T/man/day	■ Rebar Installation - PC 60 (02) + Portion B2	
3MSS.1165 concrete pouring - PC 60 (02) - Portion B2	1	13-Jan-16	14-Jan-16	5.6m3		concrete pouring - PC 60 (02) - Portion B2	
PC61 (Type 02)	14	29-Dec-15 A	14-Jan-16	5.6m2	1 machina @ 100m2/day	Even where where the PC 64 (00) Parties P2	
3MSS.1170 Excavation works for Pile - PC 61 (02) - Portion B2	5	29-Dec-15 A	05-Jan-16	5.6m3	1 machine @ 190m3/day	Excavation works for Pile - PC 61 (02) - Portion B2	
3MSS.11701 Breakdown Pile(s) - Portion B2	1	05-Jan-16	06-Jan-16				
3MSS.11702 Horizontal Blinding layer - Portion B2	1	06-Jan-16	07-Jan-16			Horizontal Blinding layer - Portion B2	
3MSS.11703 Formwork for Vertical blinding - Portion B2	1	07-Jan-16	08-Jan-16			□ Formwork for Vertical blinding - Portion ₿2	
3MSS.11704 Concreting for Vertical blinding - Portion B2	1	08-Jan-16	09-Jan-16 11-Jan-16			Concreting for Vertical blinding - Portion B2	
3MSS.11705 Strip formwork - Portion B2	1	09-Jan-16 11-Jan-16				Strip formwork - Portion B2	
3MSS.11706 Install waterproofing - Portion B2	1		12-Jan-16			Install waterproofing - Portion B2: Backfill - Portion B2	
3MSS.11707 Backfill - Portion B2	1	12-Jan-16	13-Jan-16	5.04T	Eman @ 0.0T/man/day	Backnii - Portion B2 Rebar Installation - PC 61 (02) - Portion B2	
3MSS.1185 Rebar Installation - PC 61 (02) - Portion B2	1	13-Jan-16	13-Jan-16 14-Jan-16		5 men @ 0.9T/man/day		
3MSS.1215 Concrete pouring - PC 61 (02) - Portion B2	1	14-Jan-16		5.6m3		Concrete pouring - PC 61 (02) - Portion B2	
PC62 (Type 02) 3MSS.1169 Excavation works for Pile - PC 62 (02) - Portion B2	9	05-Jan-16 05-Jan-16	15-Jan-16 05-Jan-16	5.6m2	1 machine @ 190m3/day	Excavation works for Pile - PC 62 (02) - Portion B2	
	1			5.0115	T machine @ 190m3/day	Breakdown Pile(s) - Portion B2 Breakdown Pile(s) - Portion B2	
3MSS.11691 Breakdown Pile(s) - Portion B2 3MSS.11692 Horizontal Blinding layer - Portion B2	1	06-Jan-16	06-Jan-16				
3MSS.11692 Horizontal Blinding layer - Portion B2 3MSS.11693 Earmwork for Vertical blinding - Portion B2		07-Jan-16	07-Jan-16			Horizontal Blinding layer - Portion B2 Formwork for Vertical blinding - Portion B2	
3MSS.11693 Formwork for Vertical blinding - Portion B2 3MSS.11694 Concreting for Vertical blinding - Portion B2	1	08-Jan-16	08-Jan-16				
3MSS.11694 Concreting for Vertical blinding - Portion B2 3MSS.11695 Strip formwork - Portion B2	1	09-Jan-16 11-Jan-16	09-Jan-16 11-Jan-16			Concreting for Vertical blinding - Portion B2 Strip formwork - Portion B2	
3MSS.11695 Strip formwork - Portion B2 3MSS.11696 Install waterproofing - Portion B2	1	11-Jan-16 12-Jan-16	11-Jan-16 12-Jan-16			I Strip formwork - Portion B2 I Install waterproofing - Portion B2	
3MSS.11697 Backfill - Portion B2 3MSS.1184 Rebar Installation - PC 62 (02) - Portion B2	1	13-Jan-16 14-Jan-16	13-Jan-16 14-Jan-16	5 04T	5 men @ 0.9T/man/day	Backfill - Portion B2 Rebar Installation - PC 62 (02) - Portion B2	
3MSS.1184 Repar Installation - PC 62 (02) Portion B2 3MSS.1214 Concrete pouring - PC 62 (02) - Portion B2	1	14-Jan-16 14-Jan-16	14-Jan-16 15-Jan-16		5 men @ 0.91/mdf/day	Concrete pouring - PC 62 (02) - Portion B2	
	12	06-Jan-16	19-Jan-16	0.000			
PC50 (Type 02) 3MSS.1136 Excavation works for Pile - PC 50 (02) - Portion B2	3	06-Jan-16	08-Jan-16	5.6m3	1 machine @ 190m3/day	Excavation works for Pile - PC 50 (02) - Portion B2	
3MSS.1136 Excavation works for Pile - PC 50 (02) - Portion B2 3MSS.11361 Breakdown Pile(s) - Portion B2		09-Jan-16	08-Jan-16 09-Jan-16	0.0110	1 machine @ 130(113/02)	Breakdown Pile(s) - Portion B2	
3MSS.11361 Breakdown Pile(s) - Portion B2 3MSS.11362 Horizontal Blinding layer - Portion B2	1	09-Jan-16 11-Jan-16	09-Jan-16 11-Jan-16			Breakdown Pile(s) - Portion B2 I Horizontal Blinding layer - Portion B2	
3MSS.11362 Formwork for Vertical blinding - Portion B2	1	12-Jan-16	12-Jan-16			Fornwork for Vertical blinding - Portion B2	
3MSS.11363 Formwork for Vertical blinding - Portion B2 3MSS.11364 Concreting for Vertical blinding - Portion B2	1	12-Jan-16 13-Jan-16	12-Jan-16 13-Jan-16			Concreting for Vertical blinding - Portion B2 Concreting for Vertical blinding; - Portion B2	
3MSS.11364 Concreting for vertical bilinging - Portion B2 3MSS.11365 Strip formwork - Portion B2	1	13-Jan-16 14-Jan-16	13-Jan-16 14-Jan-16			Strip formwork - Portion B2	
3MSS.11365 Strip formwork - Portion B2 3MSS.11366 Install waterproofing - Portion B2		14-Jan-16 15-Jan-16				Install waterproofing - Portion B2	
	1		15-Jan-16				
3MSS.11367 Backfill - Portion B2	1	16-Jan-16	16-Jan-16	5.04T		Backfill - Portion B2 Report / Farthing Installation PC 50 (02) - Partice P2	
3MSS.1141 Rebar /Earthing Installation - PC 50 (02) - Portion B2	1	18-Jan-16	18-Jan-16			Rebar /Earthing Installation - PC 50 (02) - Portion B2	
3MSS.1151 concrete pouring - PC 50 (02) - Portion B2	1	19-Jan-16	19-Jan-16	SMI0.C		Concrete pouring - PC 50 (02) - Portion B2	
PC51 (Type 02)	10	09-Jan-16	20-Jan-16				
Forecast Bar						Date Revision Checked	Appro
		_					o Harr
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					(2nd draft) or M+ Museum P		

ity ID	Activity Name	Duration	Start	Finish	Quants	Production rates	December	January	February
							3 29 06 13 20 27	4 7 03 10 17 24	5 31 07 14
3MSS.1155	Excavation works for Pile - PC 51 (02) - Portion B2	1	09-Jan-16	09-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile - PC 51 (02	2) - Portion B2
3MSS.11551	Breakdown Pile(s) - Portion B2	1	09-Jan-16	11-Jan-16				Breakdown Pile(s) - Portion B2	
3MSS.11552	Horizontal Blinding layer - Portion B2	1	11-Jan-16	12-Jan-16				Horizontal Blinding layer - Portion	ກຸ່ B2
	Formwork for Vertical blinding - Portion B2	1	12-Jan-16	13-Jan-16				Formwork for Vertical blinding	+ Portion B2
	Concreting for Vertical blinding - Portion B2	1	13-Jan-16	14-Jan-16				Concreting for Vertical blinding	
3MSS.11555		1	14-Jan-16	15-Jan-16				Strip formwork - Portion B	
3MSS.11556	Install waterproofing - Portion B2	1	15-Jan-16	16-Jan-16				Install waterproofing - Po	rtion B2
3MSS.11557	Backfill - Portion B2	1	16-Jan-16	18-Jan-16				Backfill - Portion B2	
3MSS.1159	Rebar Installation - PC 51 (02) - Portion B2	1	18-Jan-16	19-Jan-16	5.04T	5 men @ 0.9T/man/day	_		PC 51 (02) - Portion B2
3MSS.1167	concrete pouring - PC 51 (02) - Portion B2	1	19-Jan-16	20-Jan-16	5.6m3			concrete pouring	- PC 51 (02) - Portion B2
PC52 (Type 02)		9	09-Jan-16	21-Jan-16					
3MSS.1172	Excavation works for Pile - PC 52 (02) - Portion B2	1	09-Jan-16	11-Jan-16	5.6m3	1 machine @ 190m3/day	_	Excavation works for Pile - PC 52	
3MSS.11721	Breakdown Pile(s) - Portion B2	1	11-Jan-16	12-Jan-16				Breakdown Pile(s) - Portion B2	
	Horizontal Blinding layer - Portion B2	1	12-Jan-16	13-Jan-16			_	Horizontal Blinding layer - Port	
	Formwork for Vertical blinding - Portion B2	1	13-Jan-16	14-Jan-16			_	Formwork for Vertical blindin	1
	Concreting for Vertical blinding - Portion B2	1	14-Jan-16	15-Jan-16			_	Concreting for Vertical blind	
	Strip formwork - Portion B2	1	15-Jan-16	16-Jan-16			_	Strip formwork - Portion	
	Install waterproofing - Portion B2	1	16-Jan-16	18-Jan-16				Install waterproofing	
	Backfill - Portion B2	1	18-Jan-16	19-Jan-16			_	Backfill - Portion B2	
3MSS.1187	Rebar Installation - PC 52 (02) - Portion B2	1	19-Jan-16	20-Jan-16	5.04T	5 men @ 0.9T/man/day	_	1	+ PC 52 (02) - Portion B2
3MSS.1217	Concrete pouring - PC 52 (02) - Portion B2	1	20-Jan-16	21-Jan-16	5.6m3			Concrete pourin	ng - PC 52 (02) - Portion B2
PC53 (Type 02)		9	11-Jan-16	21-Jan-16					
3MSS.1171	Excavation works for Pile - PC 53 (02) - Portion B2	1	11-Jan-16	12-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile - PC 5	
	Breakdown Pile(s) - Portion B2	1	12-Jan-16	13-Jan-16			_	Breakdown Pile(s) - Portion B2	1
	Horizontal Blinding layer - Portion B2	1	13-Jan-16	14-Jan-16	_			Horizontal Blinding layer - Po	1
	Formwork for Vertical blinding - Portion B2	1	14-Jan-16	15-Jan-16				Formwork for Vertical blind	-
3MSS.11714	Concreting for Vertical blinding - Portion B2	1	15-Jan-16	16-Jan-16				Concreting for Vertical bli	1
	Strip formwork - Portion B2	1	16-Jan-16	18-Jan-16					
	Install waterproofing - Portion B2	1	18-Jan-16	19-Jan-16				Install waterproofing	-
	Backfill - Portion B2	1	19-Jan-16	20-Jan-16			_	Backfill - Portion E	
3MSS.1186	Rebar Installation - PC 53 (02) - Portion B2	1	20-Jan-16	21-Jan-16	5.04T	5 men @ 0.9T/man/day			on - PC 53 (02) - Portion B2
3MSS.1216	Concrete pouring - PC 53 (02) - Portion B2	1	21-Jan-16	21-Jan-16	5.6m3			Concrete pourir	ng - PC 53 (02) - Portion B2
PC54 (Type 02)		9	12-Jan-16	22-Jan-16					
3MSS.1173	Excavation works for Pile - PC 54 (02) - Portion B2	1	12-Jan-16	13-Jan-16	5.6m3	1 machine @ 190m3/day	_	Excavation works for Pile - PC	1
3MSS.11731	Breakdown Pile(s) - Portion B2	1	13-Jan-16	14-Jan-16				Breakdown Pile(s) - Portion	
	Horizontal Blinding layer - Portion B2	1	14-Jan-16	15-Jan-16				Horizontal Blinding layer - I	1
	Formwork for Vertical blinding - Portion B2	1	15-Jan-16	16-Jan-16				Formwork for Vertical blir	
	Concreting for Vertical blinding - Portion B2	1	16-Jan-16	18-Jan-16				Concreting for Vertica	
	Strip formwork - Portion B2	1	18-Jan-16	19-Jan-16				Strip formwork - Po	
3MSS.11736		1	19-Jan-16	20-Jan-16				Install waterproofi	1 ⁷
3MSS.11737	Backfill - Portion B2	1	20-Jan-16	21-Jan-16				Backfill - Portion	
3MSS.1188	Rebar Installation -PC 54 (02) - Portion B2	1	21-Jan-16	21-Jan-16	5.04T	5 men @ 0.9T/man/day		C Rebar Installation	on -PC 54 (02) - Portion B2
3MSS.1218	Concrete pouring - PC 54 (02) - Portion B2	1	22-Jan-16	22-Jan-16	5.6m3			Concrete pou	Iring - PC 54 (02) - Portion B2
Portion B3		33	12-Jan-16	23-Feb-16					
PC39 (Type 02)		12	12-Jan-16	26-Jan-16					
3MSS.1134	Excavation works for Pile - PC 39 (02) - Portion B3	3	12-Jan-16	15-Jan-16	5.6m3	1 machine @ 190m3/day	_	Excavation works for Pile -	
3MSS.11341	Breakdown Pile(s) - Portion B3	1	15-Jan-16	16-Jan-16			_	Breakdown Pile(s) - Port	1
	Horizontal Blinding layer - Portion B3	1	16-Jan-16	18-Jan-16				Horizontal Blinding la	
	Formwork for Vertical blinding - Portion B3	1	18-Jan-16	19-Jan-16				1	cal blinding - Portion B3
3MSS.11344	Concreting for Vertical blinding - Portion B3	1	19-Jan-16	20-Jan-16			_	e e e e e e e e e e e e e e e e e e e	ertical blinding - Portion B3
3MSS.11345	•	1	20-Jan-16	21-Jan-16			_	Strip formwork -	
3MSS.11346		1	21-Jan-16	22-Jan-16					roofing - Portion B3
3MSS.11347	Backfill - Portion B3	1	22-Jan-16	23-Jan-16				Backfill - Por	rtion B3 Earthing Installation - PC 39 (02)
3MSS.1139	Rebar /Earthing Installation - PC 39 (02) - Portion B3	1	23-Jan-16	25-Jan-16	5.04T		_∥		
3MSS.1149	concrete pouring - PC 39 (02) - Portion B3	1	25-Jan-16	26-Jan-16	5.6m3				ete pouring - PC 39 (02) - Portic
PC40 (Type 07)		16	12-Jan-16	29-Jan-16					
3MSS.1154	Excavation works for Pile - PC 40 (07) - Portion B3	2	12-Jan-16	13-Jan-16	24.5m3	1 machine @ 190m3/day		Excavation works for Pile - PC	1 · · · · · · · · · · · · · · · · · · ·
3MSS.11541	Breakdown Pile(s) - Portion B3	1	14-Jan-16	14-Jan-16				Breakdown Pile(s) - Portion	
	Horizontal Blinding layer - Portion B3	1	15-Jan-16	15-Jan-16				I Horizontal Blinding layer -	Portion B3
3MSS.11543	<u> </u>	1	16-Jan-16	16-Jan-16				Formwork for Vertical bli	-
3MSS.11544	Concreting for Vertical blinding - Portion B3	1	18-Jan-16	18-Jan-16				Concreting for Vertic	
3MSS.11545	Strip formwork - Portion B3	1	19-Jan-16	19-Jan-16				Strip formwork - Po	ortion B3
3MSS.11546	Install waterproofing - Portion B3	1	20-Jan-16	20-Jan-16				Install waterproof	ing - Portion B3
3MSS.11547	Backfill - Portion B3	1	21-Jan-16	21-Jan-16				Backfill - Portior	1B3
3MSS.1158	Rebar Installation - PC 40 (07) - Portion B3	6	22-Jan-16	28-Jan-16	22.05T	5 men @ 0.9T/man/day		Re	bar Installation - PC 40 (07) - F
3MSS.1166	concrete pouring - PC 40 (07) - Portion B3	1	29-Jan-16	29-Jan-16	24.5m3			D c	concrete pouring - PC 40 (07) - I
PC41 (Type 02)		14	12-Jan-16	28-Jan-16					
3MSS.1174	Excavation works for Pile - PC 41 (02) - Portion B3	3	12-Jan-16	15-Jan-16	5.6m3	1 machine @ 190m3/day		Excavation works for Pile -	PC 41 (02) - Portion B3
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Activity Name	Duration	Start	Finish Quants	Production rates	December	January	February	March	
					29 06 13 20 .	27 03 10 17 24		28 06 13	20 27
3MSS.11741 Breakdown Pile(s) - Portion B3	1	15-Jan-16 16-Jan-16	16-Jan-16 18-Jan-16		_	Breakdown Pile(s) - Portion Horizontal Blinding lay			
3MSS.11742 Horizontal Blinding layer - Portion B3 3MSS.11743 Formwork for Vertical blinding - Portion B3	1	18-Jan-16	19-Jan-16		-	Formwork for Vertica			
3MSS.11744 Concreting for Vertical blinding - Portion B3	1	19-Jan-16	20-Jan-16		-		ical blinding - Portion B3		
3MSS.11745 Strip formwork - Portion B3	1	20-Jan-16	21-Jan-16			Strip formwork -			
3MSS.11746 Install waterproofing - Portion B3	1	21-Jan-16	22-Jan-16			Install waterpro	ofing - Portion B3		
3MSS.11747 Backfill - Portion B3	1	22-Jan-16	23-Jan-16			Backfill - Port			
3MSS.1189 Rebar Installation - PC 41 (02) - Portion B3	3	23-Jan-16	27-Jan-16 5.04T	5 men @ 0.9T/man/day	_		Installation - PC 41 (02) - Portion B3		
3MSS.1219 Concrete pouring - PC 41 (02) - Portion B3	1	27-Jan-16	28-Jan-16 5.6m3			Con	crete pouring - PC 41 (02) - Portion B3		
PC42 (Type 07) 3MSS.1175 Excavation works for Pile - PC 42 (07) - Portion B3	16 3	15-Jan-16 15-Jan-16	03-Feb-16 19-Jan-16 24.5m3	1 machine @ 190m3/day		Excavation works for	Pile - PC 42 (07) - Portion B3		
3MSS.11751 Breakdown Pile(s) - Portion B3	1	19-Jan-16	20-Jan-16	T machine & roomorady	-	Breakdown Pile(s)			
3MSS.11752 Horizontal Blinding layer - Portion B3	1	20-Jan-16	21-Jan-16			Horizontal Blindir			
3MSS.11753 Formwork for Vertical blinding - Portion B3	1	21-Jan-16	22-Jan-16		-	Formwork for Y	/ertical blinding - Portion B3		
3MSS.11754 Concreting for Vertical blinding - Portion B3	1	22-Jan-16	23-Jan-16			Concreting fo	r Vertical blinding - Portion B3		
3MSS.11755 Strip formwork - Portion B3	1	23-Jan-16	25-Jan-16				work - Portion B3		
3MSS.11756 Install waterproofing - Portion B3	1	25-Jan-16	26-Jan-16		_		aterproofing - Portion B3		
3MSS.11757 Backfill - Portion B3	1	26-Jan-16	27-Jan-16	E man @ 0.0T/man/day	_		I - Portion B3		
3MSS.1190 Rebar Installation - PC 42 (07) - Portion B3 3MSS.1220 Concrete pouring - PC 42 (07) - Portion B3	5	27-Jan-16 02-Feb-16	02-Feb-16 22.05T 03-Feb-16 25m3	5 men @ 0.9T/man/day	_		 Rebar Installation - PC 42 (07) - Portion B3 Concrete pouring - PC 42 (07) - Portion B3 		
PC43 (Type 02)	14	15-Jan-16	01-Feb-16						
3MSS.1177 Excavation works for Pile - PC 43 (02) - Portion B3	3	15-Jan-16	19-Jan-16 5.6m3	1 machine @ 190m3/day		Excavation works for	Pile - PC 43 (02) - Portion B3		
3MSS.11771 Breakdown Pile(s) - Portion B3	1	19-Jan-16	20-Jan-16			Breakdown Pile(s)			
3MSS.11772 Horizontal Blinding layer - Portion B3	1	20-Jan-16	21-Jan-16			Horizontal Blindir	g layer - Portion B3		
3MSS.11773 Formwork for Vertical blinding - Portion B3	1	21-Jan-16	22-Jan-16				/ertical blinding - Portion B3		
3MSS.11774 Concreting for Vertical blinding - Portion B3	1	22-Jan-16	23-Jan-16			-	r Vertical blinding - Portion B3		
3MSS.11775 Strip formwork - Portion B3	1	23-Jan-16	25-Jan-16				work - Portion B3		
3MSS.11776 Install waterproofing - Portion B3	1	25-Jan-16	26-Jan-16		_		aterproofing - Portion B3		
3MSS.11777 Backfill - Portion B3 3MSS.1192 Rebar Installation - PC 43 (02) - Portion B3	1	26-Jan-16 27-Jan-16	27-Jan-16 30-Jan-16 5.04T	5 men @ 0.9T/man/day	_		I - Portion B3 Rebar Installation - PC 43 (02) - Portion B3		
3MSS.1222 Concrete pouring - PC 43 (02) - Portion B3	1	30-Jan-16	01-Feb-16 5.6m3	5 men @ 0.517man/day			Concrete pouring - PC 43 (02) - Portion B3		
PC30 (Type S5)	30	15-Jan-16	23-Feb-16						
3MSS.1178 Excavation works for Pile - PC 30 (S5) - Portion B3	3	15-Jan-16	19-Jan-16 142m3	1 machine @ 190m3/day		Excavation works for	Pile - PC 30 (S5) - Portion B3		
3MSS.11781 Breakdown Pile(s) - Portion B3	1	19-Jan-16	20-Jan-16		-	Breakdown Pile(s)	- Portion B3		
3MSS.11782 Horizontal Blinding layer - Portion B3	1	20-Jan-16	21-Jan-16			Horizontal Blindir	g layer - Portion B3	, , ,	
3MSS.11783 Formwork for Vertical blinding - Portion B3	1	21-Jan-16	22-Jan-16				/ertical blinding - Portion B3		
3MSS.11784 Concreting for Vertical blinding - Portion B3	1	22-Jan-16	23-Jan-16		_	, i i i i i i i i i i i i i i i i i i i	r Vertical blinding - Portion B3		
3MSS.11785 Strip formwork - Portion B3	1	23-Jan-16 25-Jan-16	25-Jan-16		_		work - Portion B3 aterproofing - Portion B3		
3MSS.11786 Install waterproofing - Portion B3 3MSS.11787 Backfill - Portion B3	1	25-Jan-16 26-Jan-16	26-Jan-16 27-Jan-16		-		I - Portion B3		
3MSS.1193 Rebar /Earthing Installation - PC 30 (S5) - Portion B3	18	27-Jan-16	20-Feb-16 128.55T					ng Installation - PC 30 (S5) - Po	rtion B3
3MSS.1223 Concrete pouring - PC 30 (S5) - Portion B3	2	20-Feb-16	23-Feb-16 142m3					e pouring - PC 30 (S5) - Portion	
PC15 (Type 01)	9	19-Jan-16	29-Jan-16						
3MSS.1182 Excavation works for Pile - PC 15 (01) - Portion B3	1	19-Jan-16	20-Jan-16 2m3	1 machine @ 190m3/day		Excavation works f	or Pile - PC 15 (01) - Portion B3		
3MSS.11821 Breakdown Pile(s) - Portion B3	1	20-Jan-16	21-Jan-16			Breakdown Pile(, 		
3MSS.11822 Horizontal Blinding layer - Portion B3	1	21-Jan-16	22-Jan-16		_		ling layer - Portion B3		
3MSS.11823 Formwork for Vertical blinding - Portion B3	1	22-Jan-16	23-Jan-16		_		· Vertical blinding - Portion B3 g for Vertical blinding - Portion B3		
3MSS.11824 Concreting for Vertical blinding - Portion B3 3MSS.11825 Strip formwork - Portion B3	1	23-Jan-16 25-Jan-16	25-Jan-16 26-Jan-16		-		mwork - Portion B3		
3MSS.11826 Install waterproofing - Portion B3	1	26-Jan-16	27-Jan-16		-		waterproofing - Portion B3		
3MSS.11827 Backfill - Portion B3	1	27-Jan-16	28-Jan-16				fill - Portion B3		
3MSS.1197 Rebar Installation - PC 15 (01) - Portion B3	1	28-Jan-16	28-Jan-16 1.8T	5 men @ 0.9T/man/day			ar Installation - PC 15 (01) - Portion B3		
3MSS.1227 Concrete pouring - PC 15 (01) - Portion B3	1	29-Jan-16	29-Jan-16 2m3			0 C	oncrete pouring - PC 15 (01) - Portion B3		
РС16 (Туре 06)	9	20-Jan-16	30-Jan-16						
3MSS.1181 Excavation works for Pile - PC 16 (01) - Portion B3	1	20-Jan-16	20-Jan-16 2m3	1 machine @ 190m3/day			ior Pile - PC 16 (01) - Portion B3		
3MSS.11811 Breakdown Pile(s) - Portion B3	1	21-Jan-16	21-Jan-16		_	Breakdown Pile(
3MSS.11812 Horizontal Blinding layer - Portion B3	1	22-Jan-16	22-Jan-16		-		ding layer - Portion B3 r Vertical blinding - Portion B3		
3MSS.11813 Formwork for Vertical blinding - Portion B3 3MSS.11814 Concreting for Vertical blinding - Portion B3	1	23-Jan-16 25-Jan-16	23-Jan-16 25-Jan-16				r Vertical blinding - Portion B3 g for Vertical blinding - Portion B3		
3MSS.11815 Strip formwork - Portion B3	1	25-Jan-16	26-Jan-16		1		rmwork - Portion B3		
3MSS.11816 Install waterproofing - Portion B3	1	27-Jan-16	27-Jan-16		†:		waterproofing - Portion B3		
3MSS.11817 Backfill - Portion B3	1	28-Jan-16	28-Jan-16				kfill - Portion B3		
3MSS.1196 Rebar /Earthing Installation - PC 16 (01) - Portion B3	1	29-Jan-16	29-Jan-16 1.8T			I R	ebar /Earthing Installation - PC 16 (01) - Portion B	3	
3MSS.1226 Concrete pouring - PC 16 (01) - Portion B3	1	29-Jan-16	30-Jan-16 2m3				Concrete pouring - PC 16 (01) - Portion B3		
PC17 (Type 01)	10	21-Jan-16	01-Feb-16						
3MSS.1072 Excavation works for Pile - PC 17 (01) - Portion B3 3MSS.10721 Breakdown Pile(s) - Portion B3	1	21-Jan-16	21-Jan-16 2m3	1 machine @ 190m3/day		 Excavation work Breakdown Pil 	s for Pile - PC 17 (01) - Portion B3		
3MSS.10721 Breakdown Pile(s) - Portion B3 3MSS.10722 Horizontal Blinding layer - Portion B3	1	22-Jan-16 23-Jan-16	22-Jan-16 23-Jan-16		-		e(s) - Portion B3 nding layer - Portion B3		
	•	20 0011 10	20 001110		:				
Forecast Bar					Page 8 of 11		Date Revision	Checked	Approved
♦ ♦ Milestone		M	- 3 Monthe Rolli	ing Programme	J		02-Dec-15 3MRP Rev B (1st E	, ,	
		1417					31-Dec-15 3MRP Rev B (2nd	Draft) Den / Chris	Leo Harnett
			3MRP Rev B	(2nd draft)					
	Ν	Main Wo	orks Contract fo	r M+ Museum P	roject				
					• ·				
	Ν	Main Wo	orks Contract fo	r M+ Museum P	roject				_

Activity ID	Activity Name		Duration	Start	Finish	Quants	Production rates	December 3	January 4	F	ebruary 5	Mar 6	ch r
3MSS 10723	Formwork for Vertical blinding - Portion B3		1	25-Jan-16	25-Jan-16			29 06 13 20 27	03 10 17 24	31 07 k for Vertical blinding -		28 06 13	20 27
	Concreting for Vertical blinding - Portion B3		1	26-Jan-16	26-Jan-16			-		ting for Vertical blinding			
	Strip formwork - Portion B3		1	27-Jan-16	27-Jan-16					formwork - Portion B3			
3MSS.10726	Install waterproofing - Portion B3		1	28-Jan-16	28-Jan-16				0 Inst	all waterproofing - Port	ion B3		
			1	29-Jan-16	29-Jan-16					ackfill - Portion B3			
	Rebar Installation - PC 17 (01) - Portion B3		1	30-Jan-16	30-Jan-16		-do-			Rebar Installation - PC	. ,		
	Concrete Pouring - PC 17 (01) - Portion B3		1	01-Feb-16	01-Feb-16 03-Feb-16	2m3	-do-			Concrete Pouring -	PC 17 (01) - Portion B3		
Type 8	12,8,40,1,11) - Portion B		12 4	20-Jan-16 21-Jan-16	25-Jan-16								
	Excavation (Type 8) - GL 6-7/B-C - Portion B1		1	21-Jan-16	20 dan 10 21-Jan-16	5m3	1 machine @ 190m3/day		Excavation (Type	¦ ∉ 8) - GL 6-7/B-C - Por	tion B1		
	Rebar Installation (Type 8) - GL 6-7/B-C - Portion	n B1	1	22-Jan-16	22-Jan-16				Rebar Installat	tion (Type 8) - GL 6-7/E	3-C - Portion B1		
3MSS.1306	Formworks (Type 8) - GL 6-7/B-C - Portion B1		1	23-Jan-16	23-Jan-16				I Formworks (Type 8) - GL 6-7/B-C -	Portion B1		
3MSS.1307	Concrete Pouring (Type 8) - GL 6-7/B-C - Portion	n B1	1	25-Jan-16	25-Jan-16				Concrete	Pouring (Type 8) - GL	. 6-7/B-C - Portion B1	r	
Type 40			3	22-Jan-16	26-Jan-16								
	Excavation (Type 40) - GL 6-7/C-D - Portion B1	D	1	22-Jan-16	22-Jan-16	5m3	1 machine @ 190m3/day			pe 40) - GL 6-7/C-D -			
	Rebar Installation (Type 40) - GL 6-7/C-D - Portion Formworks (Type 40) - GL 6-7/C-D - Portion B1	on B1	1	23-Jan-16 25-Jan-16	23-Jan-16 25-Jan-16					ation (Type 40) - GL 6- ks (Type 40) - GL 6-7/			
	Concrete Pouring (Type 40) - GL 6-7/C-D - Portio	on B1	0	26-Jan-16	26-Jan-16			<u> </u>			GL 6-7/C-D - Portion B1	· 	
Type 12			4	20-Jan-16	23-Jan-16								
	Excavation (Type 12) - GL 5/A-B - Portion B2		1	20-Jan-16	20-Jan-16	5m3	1 machine @ 190m3/day		Excavation (Type	12) - GL 5/A-B - Portic	on B2		
3MSS.1301	Rebar Installation (Type 12) - GL 5/A-B - Portion	B2	1	21-Jan-16	21-Jan-16			1	I Rebar Installatio	n (Type 12) - GL 5/A-E	- Portion B2		
	Formworks (Type 12) - GL 5/A-B - Portion B2		1	22-Jan-16	22-Jan-16				Formworks (T)	ype 12) - GL 5/A-B - P	ortion B2		
	Concrete Pouring (Type 12) - GL 5/A-B - Portion	B2	1	23-Jan-16	23-Jan-16				Concrete Po	uring (Type 12) - GL 5	/A-B - Portion B2		
Type 1			3	28-Jan-16	01-Feb-16				_				
	Excavation (Type 1) - GL 4-5/C-D - Portion B2	Do.	1	28-Jan-16	29-Jan-16	5m3	1 machine @ 190m3/day			cavation (Type 1) - GL			
	Rebar Installation (Type 1) - GL 4-5/C-D - Portion Formworks (Type 1) - GL 4-5/C-D - Portion B2	I DZ	1	29-Jan-16 30-Jan-16	30-Jan-16 01-Feb-16					1	e 1) - GL 4-5/C-D - Portion B) - GL 4-5/C-D - Portion B2	/ 	
	Concrete Pouring (Type 1) - GL 4-5/C-D - Portion B2	n B2	0	01-Feb-16	01-Feb-16						Type 1) - GL 4-5/C-D - Portion B2	in B2	
Type 11			4	29-Jan-16	03-Feb-16					(,,,	=	
	Excavation (Type 11) - GL 5-6/D - Portion B2		1	29-Jan-16	30-Jan-16	5m3	1 machine @ 190m3/day			Excavation (Type 11) -	GL 5-6/D - Portion B2	, , , ,	
3MSS.1317	Rebar Installation (Type 11) - GL 5-6/D - Portion	B2	1	30-Jan-16	01-Feb-16					Rebar Installation (1	Type 11) - GL 5-6/D - Portion	B2	
3MSS.1318	Formworks (Type 11) - GL 5-6/D - Portion B2		1	01-Feb-16	02-Feb-16					Formworks (Type	11) - GL5-6/D - Portion B2		
3MSS.1319	Concrete Pouring (Type 11) - GL 5-6/D - Portion	B2	1	02-Feb-16	03-Feb-16					Concrete Pourir	ig (Type 11) - GL 5-6/D - Por	tion B2	
Lift / Escalator Pit			12	13-Jan-16	27-Jan-16								
Escalator Pit (G	·		7	13-Jan-16	21-Jan-16	50	1						
	Excavation - Portion B2 Rebar Installation - Portion B2		2	13-Jan-16 15-Jan-16	15-Jan-16 18-Jan-16	5m3	1 machine @ 190m3/day		Excavation - Portion B2 Rebar Installation - Po	rtion B2			
	Formworks - Portion B2		2	18-Jan-16	20-Jan-16					<u>.</u>			
	Concrete Pouring - Portion B2		1	20-Jan-16	21-Jan-16				Concrete Pourin				
Lift Pit (GL 3-4/	-		7	19-Jan-16	27-Jan-16								
3MSS.1320	Excavation- Portion B3		2	19-Jan-16	21-Jan-16	5m3	1 machine @ 190m3/day		Excavation- Port	ion B3			
3MSS.1321	Rebar Installation - Portion B3		2	21-Jan-16	23-Jan-16				🔲 Rebar Instalk	ation - Portion B3			
3MSS.1322	Formworks - Portion B3		2	23-Jan-16	26-Jan-16					orks - Portion B3			
3MSS.1323	Concrete Pouring - Portion B3		1	26-Jan-16	27-Jan-16				Concr	tete Pouring - Portion E	33	, , , ,	
Stage 1 - Undergro 3MSS.1328	ound Drainage Installation of Underground Drainage below B2 S	lab Portion A1i & A1ii (2 Nr. of	37	09-Jan-16 09-Jan-16	25-Feb-16 15-Jan-16	2 Nr			Installation of Underground	Drainago bolow P2 Sk	Portion A1i & A1ii (2 Nr. o	FN4/LIN	
3MSS.1328	Preparation of Formworks & Cast underground p		5 2	15-Jan-16	18-Jan-16	2 111			Preparation of Formw	e e	`	1 WI/FI)	
3MSS.1330	Installation of Underground Drainage below B2 Si		5	14-Jan-16	20-Jan-16	1 Nr		<u> </u>		,	ow B2 Slab - Portion A2 (2 Nr	of M/H)	
3MSS.1331	Preparation of Formworks & Cast underground p		2	20-Jan-16	22-Jan-16						derground pipes - Portion A2		
3MSS.1332	Installation of Underground Drainage below B2 S	lab - Portion A3 (2 Nr of M/H)	5	23-Jan-16	29-Jan-16	1 Nr			lns	stallation of Undergrour	nd Drainage below B2 Slab -	Portion A3 (2 Nr of M/H)	
3MSS.1333	Preparation of Formworks & Cast underground p	ipes - Portion A3	2	29-Jan-16	01-Feb-16					Preparation of Forn	nworks & Cast underground p	pipes - Portion A3	
3MSS.1334	Installation of Underground Drainage below B2 S		5	27-Jan-16	02-Feb-16	1 Nr		Į		h	erground Drainage below B2		/H)
3MSS.1335	Preparation of Formworks & Cast underground p		2	02-Feb-16	04-Feb-16					1	Formworks & Cast undergro		
3MSS.1336	Installation of Underground Drainage below B2 Si Proparation of Formworks & Cast underground p		5	26-Jan-16	01-Feb-16	1 Nr				1	ground Drainage below B2 S	1	1)
3MSS.1337 3MSS.1338	Preparation of Formworks & Cast underground p Installation of Underground Drainage below B2 S		2 5	01-Feb-16 17-Feb-16	03-Feb-16 23-Feb-16	3 Nr		1		reparation of F	ormworks & Cast undergrou	nd pipes - Portion B2 n of Underground Drainage I	pelow B2 Slah - Portion B2
3MSS.1338 3MSS.1339	Preparation of Formworks & Cast underground p		5 2	17-Feb-16 23-Feb-16	23-Feb-16 25-Feb-16	3 111						n of Underground Drainage i	
Tower Crane No 1			62	30-Dec-15	15-Mar-16			li			i iepa		
3MSS.1341	Design submission and approval		21	30-Dec-15	23-Jan-16				Design subm	ission and approval			
3MSS.1342	Mobilization & procurement		30	25-Jan-16	02-Mar-16			1				Mobilization & procurem	nent
3MSS.1343	Blinding and Waterproofing		2	03-Mar-16	05-Mar-16]				Blinding and Wate	rp ro of ing
3MSS.1344	Rebar Installation - Tower Cranes no 1 Base Cas	-	5	05-Mar-16	11-Mar-16			<u> </u>					nstallation - Tower Cranes
3MSS.1345	Formworks Installation - Tower Cranes no 1 Base	e Casting	2	11-Mar-16	14-Mar-16								rmworks Installation - Tow
3MSS.1346	Concrete Casting		1	14-Mar-16	15-Mar-16								Concrete Casting
Stage 2 - BD	Construction		58	18-Jan-16	01-Apr-16								
Stage 2 - B2F Slab 3MSS.13461	Backfill and Roll - Portion A1i		36 1	18-Jan-16 18-Jan-16	03-Mar-16 19-Jan-16	113m3	@ 40m3/day per gang		Backfill and Roll - Pc	artion A1i			
3MSS.13462	Waterproofing works - Portion A1i		1	19-Jan-16	20-Jan-16		@300m2/day per gang	<u> </u>	Waterproofing wor	<u>.</u>			
											D		1 A
Forec	cast Bar							Page 9 of 11		Date	Revision	Checked	
♦ ♦ Milest	tone			Мч	3 Mon	ths Rol	ling Programme	5			3MRP Rev B (1st D	, v	
				1417			• •			31-Dec-15	3MRP Rev B (2nd D	Draft) Den / Chris	Leo Harnett
					3MR	P Rev E	3 (2nd draft)						
			Ν	<i>l</i> lain Wo	rks Cor	ntract fo	or M+ Museum P	roject					
								•					

3MSS.13464 F 3MSS.13465 C 3MSS.13465 B 3MSS.1347 B 3MSS.1348 W 3MSS.1349 La	Lay Rebar for B2 Slab - Portion A1i Formworks for B2 Slab - Portion A1i Concrete Pouring - Portion A1i Backfill and Roll - Portion A1i	9 1 1	20-Jan-16 30-Jan-16	30-Jan-16 01-Feb-16	610T 85m2	30men @ 0.9ton/m/day			ay Rebar for B2 Slab - Po	ortion A1i	20 06 13	20 2
3MSS.13465 C 3MSS.1347 B 3MSS.1348 W 3MSS.1349 La	Concrete Pouring - Portion A1i			01-Feb-16	85m2				Eormworks for P2 Slob	Desting A4		
3MSS.1347 B 3MSS.1348 W 3MSS.1349 La	-	1							FOITIWOIKS IOI BZ SIAD	- Portion A11		
3MSS.1348 W 3MSS.1349 La	Backfill and Roll - Portion A1ii		01-Feb-16	02-Feb-16	488m3				Concrete Pouring - Po	ortion A1i)))	
3MSS.1349 La		2	19-Jan-16	21-Jan-16	113m3	@ 40m3/day per gang		Backfill and Roll	<u>.</u>		 	
	Waterproofing works - Portion A1ii	2	21-Jan-16	23-Jan-16	750m2	@300m2/day per gang		Waterproofin	g works - Portion A1ii			
3MSS.1350 F	Lay Rebar for B2 Slab - Portion A1ii	14	23-Jan-16	12-Feb-16	610T	30men @ 0.9ton/m/day				Rebar for B2 Slab - Port		
	Formworks for B2 Slab - Portion A1ii	2	12-Feb-16	15-Feb-16						Formworks for B2 Slab		
	Concrete Pouring - Portion A1ii	1	15-Feb-16	15-Feb-16	488m3					Concrete Pouring - Por	tion A1ii	
	Backfill and Roll - Portion A2	2	02-Feb-16	04-Feb-16	84m3	@ 40m3/day per gang			Backfill and Roll - I			
	Waterproofing works - Portion A2	2	04-Feb-16	06-Feb-16		@300m2/day per gang			Waterproofing	works - Portion A2		40
	Lay Rebar for B2 Slab - Portion A2	17	06-Feb-16	01-Mar-16	454T	30men @ 0.9ton/m/day					Lay Rebar for B2 Slab - Portic	
	Formworks for B2 Slab - Portion A2	1	01-Mar-16	02-Mar-16	64m2						Formworks for B2 Slab - Por	
	Concrete Pouring - Portion A2 Backfill and Roll - Portion A3	1	02-Mar-16 06-Feb-16	03-Mar-16 11-Feb-16	363m3 28m3	@ 40m2/dou par gong			- Baak	ill and Roll - Portion A3	Concrete Pouring - Portion	AZ
	Waterproofing works - Portion A3	1	11-Feb-16	12-Feb-16	20113 750m2	@ 40m3/day per gang @300m2/day per gang				terproofing works - Portio	m Λ 2	
	Lay Rebar for B2 Slab - Portion A3	6	12-Feb-16	12-1 eb-10 19-Feb-16	152T	30men @ 0.9ton/m/day			1	Lay Rebar for B		
	Formworks for B2 Slab - Portion A3	1	19-Feb-16	20-Feb-16	36m2	oomen e o.oommaay				-	B2 Slab - Portion A3	
	Concrete Pouring - Portion A3	1	20-Feb-16	22-Feb-16	122m3						puring - Portion A3	
	Backfill and Roll - Portion B1	2	26-Jan-16	27-Jan-16	95m3	@ 40m3/day per gang		Backfi	III and Roll - Portion B1			
	Waterproofing works - Portion B1	2	28-Jan-16	29-Jan-16	750m2	@300m2/day per gang			aterproofing works - Portic	on B1		
	Lay Rebar for B2 Slab - Portion B1	19	30-Jan-16	24-Feb-16	512T	30men @ 0.9ton/m/day					bar for B2 Slab - Portion B1	
	Formworks for B2 Slab - Portion B1	2	25-Feb-16	26-Feb-16	95m2						mworks for B2 Slab - Portion B1	
	Concrete Pouring - Portion B1	1	26-Feb-16	27-Feb-16	410m3						oncrete Pouring - Portion B1	
	Backfill and Roll - Portion B2	2	03-Feb-16	05-Feb-16	77m3	@ 40m3/day per gang			Backfill and Roll			
	Waterproofing works - Portion B2	2	05-Feb-16	11-Feb-16	750m2	@300m2/day per gang			·····		B2	
	Lay Rebar for B2 Slab - Portion B2	15	11-Feb-16	29-Feb-16	414T	30men @ 0.9ton/m/day					Lay Rebar for B2 Slab - Portion	B2
	Formworks for B2 Slab - Portion B2	2	29-Feb-16	01-Mar-16	79m2					Ċ	Formworks for B2 Slab - Porti	ion B2
	Concrete Pouring - PortionB2	1	02-Mar-16	02-Mar-16	332m3						Concrete Pouring - PortionB	32
3MSS.1372 B	Backfill and Roll - Portion B3	4	18-Feb-16	23-Feb-16	158m3	@ 40m3/day per gang				Backfill ar	d Roll - Portion B3	
3MSS.1373 W	Waterproofing works - Portion B3	4	23-Feb-16	27-Feb-16	750m2	@300m2/day per gang					aterproofing works - Portion B3	
Stage 2 - Lateral Supp	pport	31	22-Feb-16	01-Apr-16								
Walling Beam - Po	Port ion A5	19	22-Feb-16	15-Mar-16								
3MSS.1377 E	Excavate up for 1st level of Walling beam	6	22-Feb-16	29-Feb-16	1226m3	1 machines @ 350m3/day					Excavate up for 1st level of Walli	ing beam
3MSS.1445 W	Walling Beam Installation for lateral Support (Nr 18 to 21)	4	29-Feb-16	04-Mar-16					1		Walling Beam Installation	for lateral Support
3MSS.14552 W	Waling Beam Installation for lateral Support (Nr 18 to 21 2nd layer)	4	10-Mar-16	15-Mar-16							Wallir	ng Beam Installation
Within Portion A4/	4/A5	21	04-Mar-16	01-Apr-16					1			
Strut # 18		15	04-Mar-16	22-Mar-16					1			
3MSS.1446 La	Lateral Support Installation Support 1 #18 - Portion A4/A5	5	04-Mar-16	10-Mar-16					:		Lateral Suppo	rt Installation Suppo
3MSS.14491 E	Excavation under Support 1 #18 - Portion A4/A5	1	10-Mar-16	11-Mar-16	80m3	1 machine @ 190m3/day						nder Support 1 #18
3MSS.1450 La	Lateral Support Installation Support 2 #18 - Portion A4/A5	5	15-Mar-16	21-Mar-16					:			Lateral Support
3MSS.14531 E	Excavation under Support 2 #18 - Portion A4/A5	1	21-Mar-16	22-Mar-16	120m3	1 machine @ 190m3/day						Excavation
Strut # 19		16	04-Mar-16	23-Mar-16								
	Lateral Support Installation Support 1 #19 - Portion A4/A5	5	04-Mar-16	10-Mar-16							Lateral Suppo	
	Excavation under Support 1 #19 - Portion A4/A5	1	11-Mar-16	12-Mar-16	80m3	1 machine @ 190m3/day						under Support 1
	Lateral Support Installation Support 2 #19 - Portion A4/A5	5	15-Mar-16	21-Mar-16								Lateral Supp
	Excavation under Support 2 #19 - Portion A4/A5	1	22-Mar-16	23-Mar-16	120m3	1 machine @ 190m3/day						Excavation
Strut # 20		15	07-Mar-16	24-Mar-16					1			
	Lateral Support Installation Support 1 #20 - Portion A4/A5	5	07-Mar-16	12-Mar-16					1		Lateral Su	
	Excavation under Suppor 1 #20 - Portion A4/A5	1	12-Mar-16	14-Mar-16	80m3	1 machine @ 190m3/day			۶		<u> </u>	tion under Suppor
	Lateral Support Installation Support 2 #20 - Portion A4/A5	5	17-Mar-16	23-Mar-16	400.5	4 11 0 11 11						Lateral S
	Excavation under Support 2 #20 - Portion A4/A5	1	23-Mar-16	24-Mar-16	120m3	1 machine @ 190m3/day						Excava
Strut # 21		19	07-Mar-16	01-Apr-16								
	Lateral Support Installation Support 1 #21 - Portion A4/A5	5	07-Mar-16	12-Mar-16	00.5	4 11 0 11 11					1	pport Installation S
	Excavation under Suppor 1 #21 - Portion A4/A5	1	14-Mar-16	15-Mar-16	80m3	1 machine @ 190m3/day					Excav	ation under Supp
	Lateral Support Installation Support 2 #21 - Portion A4/A5	5	23-Mar-16	01-Apr-16								
B1/F Group 1		8	19-Mar-16	01-Apr-16					1			
Portion A2		8	19-Mar-16	01-Apr-16					1			
B1/F Beam & SLA		8	19-Mar-16	01-Apr-16					1			
	B1/F Slab - Rebar Installation	8	19-Mar-16	01-Apr-16					ļ			
1+ AEL South		76	22-Dec-15 A	30-Mar-16					1			
East Pile Cap (Cor		76	22-Dec-15 A	30-Mar-16					l			
	Breakout Existing Concrete & I-beam		22-Dec-15 A	14-Jan-16				Breakout Existing Concrete &				
	Remove brickwork	14	15-Jan-16	30-Jan-16					Remove brickwork	0 1		
	Survey & Inspection	0	04 E 1 12	30-Jan-16				•	Survey & Inspection, Surve			
	Allowances for making good on defects	7	01-Feb-16	11-Feb-16						ances for making good or		
	Excavation To Formation Lvl +2.45mPD	2	12-Feb-16	13-Feb-16					E E	xcavation To Formation L	1	
	Pile Trimming	10	13-Feb-16	25-Feb-16						Pile T	-	
3MSS.S0026 B	Blinding layer and 400mm thickness	1	25-Feb-16	26-Feb-16					1	🔲 Blin	ding layer and 400mm thickness	
Forecas	et Bar								Date	Revision	Checked	Approve
							Page 10 of 11			MRP Rev B (1st D		Leo Harne
	ne		M+	3 Mon	ths Roll	ing Programme				MRP Rev B (2nd D		Leo Harnet
Milestor	I											Leonamel
Milestor				21/10		(and draft)			· · ·			
Milestor						6 (2nd draft) or M+ Museum P			l			

tivity ID	Activity Name	Duration	Start	Finish	Quants	Production rates			Dec	cember					Jar	nuary					February
							29	06		3	20	2		03	10	4	7	24	31	07	5
3MSS.S0027	Temporary Support (Shear Plate)	3	26-Feb-16	01-Mar-16									1								
3MSS.S0028	Bottom Rebar	15	01-Mar-16	18-Mar-16																	
3MSS.S0029	Install 3 Nr Shear Plates	7	18-Mar-16	30-Mar-16																	
DCS Structure		55	31-Dec-15	09-Mar-16																	
3MSS.D001	Excavate from +5.50mPD (Existing Level) to +4.85mPD	4	31-Dec-15	06-Jan-16	427m3	1 machine @ 190m3/day							Ļ	Excav	ate from	+5.50mF	PD (Exist	ing Level)	to +4.85mF	PD	
3MSS.D002	Excavate from +4.85mPD to +3.70mPD	4	06-Jan-16	11-Jan-16	756m3	1 machine @ 190m3/day												PD to +3.7			
3MSS.D003	Install 1st Layer Struts at +4.2mPD	13	11-Jan-16	26-Jan-16														Install	1st Layer S	Struts at +4.	.2mPD
3MSS.D004	Excavate from +3.5 to -0.50mPD	15	25-Jan-16	15-Feb-16	2764m3	1 machine @ 190m3/day															Exca
3MSS.D005	Install 2nd Layer Struts at 0.0mPD (w/ preloading)	13	15-Feb-16	01-Mar-16																	
3MSS.D006	Excavate to -0.5mPD to -2.5mPD	7	01-Mar-16	09-Mar-16	1316m3	1 machine @ 190m3/day															
Tower Crane No	o 3	47	30-Dec-15	26-Feb-16																	
3MSS.T002	Position Sign-off for T C3	1	30-Dec-15	30-Dec-15			1						Position	Sign-off fo	r TC3						
3MSS.T003	Design submission and approval of TC base	10	05-Jan-16	15-Jan-16												Design	submiss	ion and a	pproval of T	C base	
3MSS.T004	Mobilization & procurement	15	16-Jan-16	02-Feb-16															Mob	ilization & p	procurement
3MSS.T006	Excavate ro reduce level +2.45mPD	2	16-Jan-16	18-Jan-16	464m3	350m3/day										E:	xcavate	ro reduce	level +2.45	mPD	
3MSS.T007	Excavate battered slope	3	19-Jan-16	21-Jan-16	510m3	350m3/day													red slope		
3MSS.T008	Excavation for TC3 Base	3	22-Jan-16	25-Jan-16	6m3	1 machine @ 190m3/day	1											Excava	tion for TC	3 Base	
3MSS.T009	Rebar Installation for TC3 Base	3	26-Jan-16	28-Jan-16														🔲 R	ebar Install	ation for TC	C3 Base
3MSS.T010	Formworks Installation for TC3 Base	1	29-Jan-16	29-Jan-16														0	Formworks	Installation	for TC3 Bas
3MSS.T011	Concrete Pouring & Curing for TC3 Base	7	30-Jan-16	06-Feb-16																Concret	te Pouring &
3MSS.T012	Erection of Tower Crane No 3	14	11-Feb-16	26-Feb-16																	
AEL & ECM		25	11-Jan-16	12-Feb-16			1														
3MSS.AEL0010	HCC issue Method Statements for Protection of AEL & ECM	0	11-Jan-16											•	HCC i	ssue Met	thod Sta	tements fo	or Protection	n of AEL & I	ECM, HCC is
3MSS.AEL0012	Approval & Consents For Method Statements	20	11-Jan-16	03-Feb-16															Ap	oroval & Co	onsents For M
3MSS.AEL020	Protection of AEL & ECM	5	03-Feb-16	12-Feb-16																	Protection
M+.30 ICP		51	18-Jan-16	19-Mar-16																	
Excavation Wor	rks	51	18-Jan-16	19-Mar-16																	
3MICP.1000	Apply for Approval and consents for Excavation (Stage 2A Excavation)	28	18-Jan-16	22-Feb-16																	
3MICP.1001	Obtain MJV/RSS Pump test Results (Bachy)	0		25-Jan-16													•	Obtain I	WV/RSS P	ump test R	esults (Bach
3MICP.1002	Submit Dewatering Proposal	15	25-Jan-16	15-Feb-16															i		Subn
3MICP.1010	Site Possession	0	11-Feb-16*																	٠	Site Possess
3MICP.1012	Obtain Consents for Excavation to Commence	0	22-Feb-16				1														
3MICP.1020	Survey Existing Sheet Pile	5	11-Feb-16	16-Feb-16			1														Su
3MICP.1030	Install 6Nr Pump Wells / Monitoring points 12Nr	6	15-Feb-16	20-Feb-16	6nr Pumps / 12r		1														
3MICP.1040	Excavate Central portion Max 30 deg open cut +3.6mPD to -1.65mPD (5.275m)	24	22-Feb-16	19-Mar-16	16,877m3	2nr excavators @700m3/d	1												1		

Forecast Bar	Page 11 of 1		Date	
 ♦ ♦ Milestone 	с. С)2-Dec-15	3MRP
	M+ 3 Months Rolling Programme	3	31-Dec-15	3MRP
	3MRP Rev B (2nd draft)			
	Main Works Contract for M+ Museum Project			

			March			ri
21	28	06	6 13	20	27	7
	Temporary					
				Bottom Re	bar	
						ins
						ŀ
cavate from +3.5 to -).50mPD					
	Install 2nd	Layer S	truts at 0.0	0mPD (w/ pre	eloading)	
		Exca	avate to -0	.5mPD to -2.	5mPD	
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ase & Curing for TC3 Ba	950					
Ere	tion of Tower	Crane	No 3			
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c issue Method Stater	nents for Prot	ection o	AEL & E	CM		ĺ
r Method Statements						
on of AEL & ECM						
						<u>.</u>
Apply for Ap	nroval and co	nsents f	or Excava	ation (Stage 2		lior
chy), Obtain MJV/RS				allon (olage z		
bmit Dewatering Prop			,,			
ession, Site Possessio	n					
Obtain Con		vation t	Comme	nce, Obtain C	Consents fo	FE
Survey Existing Sheet	Pile					
Install 6Nr Pun		nitoring			Central po	Srti
		nitoring		Ir Excavate	Central po	rti
Install 6Nr Pun		hitoring			Central po	orti
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Revision	Checked	Approved
RP Rev B (1st Draft)	Edgar / Chris	Leo Harnett
RP Rev B (2nd Draft)	Den / Chris	Leo Harnett

3MRP Three Month Mar 2016)	hs Rolling Programme Update (31	(3MRP)	3-M	onths F	Rolling	Prograr	nme St	atus	s at 3	31 N	larch 2	2016	
Activity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	March		April 2016
	ihan Mantha Dal						Actual 1 Inish	Compi.	Valiance	Tioat	28 06 13	3 20 2	7 03 10 17 24
_ JNIRP I	nree Months Rol	lling Programme l	Jpda	ate (31 N	lar 2016)							
Contrac	ct Key Dates & Mi	lestones											
Contract	t Dates												
CP02	Contract Period (1218 day	s)	1218	26-Sep-15	25-Jan-19	26-Sep-15 A	25-Jan-19	0%	0	0			
Schedul	e of Milesones									1			
Cost Ce	entre A - Preliminaries	and General Require	nent	S									
MSA.03	· · · · · · · · · · · · · · · · · · ·	CA's satisfaction on Project Time	0		31-Dec-15		31-Mar-16	0%	-3	3			Compliance Review
MSA.04	Complete CA/Authority Off	fice ready for occupation (t=M5)	0		29-Feb-16		31-Mar-16	0%	0	35	•		Complete CA/Auth
Cost Ce	entre C - Public Works	s and Tunnel Protectio	n Wo	rks									
MSC.01	Obtain Notice of No Object	ion from Contract Administrator	0		29-Feb-16		31-Mar-16	0%	-1	35	•		Obtain Notice of N
	e Dates												
Access	Date												
AD1040	M05 - SPS Frontage At-gra	ade Road (11Feb16)	0	11-Feb-16		31-Mar-16		0%	-49	-47			M05 - SPS Frontag
AD1050	M06 - ICP External Entran	ce Portal beside At-garde Road (0	11-Feb-16		31-Mar-16		0%	-39	-39			M06 - ICP Externa
AD1060	M07 - ICP Frontage beside	At-grade Road (on Completion (0	11-Feb-16		31-Mar-16		0%	-39	-39			M07 - ICP Frontag
AD1160	M15 - M+ / Lyric Staircase	e (2nd access) (30Jun16)	0	17-May-16		23-May-16		0%	-6	642			
AD1180	M16 - Lyric Interface Sout	h (2nd access) (30Jun16)	0	17-May-16		23-May-16		0%	-6	642			
AD1240		ithin At-grade Road (Completion	0	11-Feb-16		31-Mar-16		0%	-39	82		•	M22 - ICP/SPS Fro
AD1320		Existing Temporary Access Road	0	11-Feb-16		31-Mar-16		0%	-39	-37			M32 - ICP & SPS,
AD1590		Vest of MTR Workshop (on STT 8	0	31-Mar-16		31-Mar-16		0%	0	1031			L25 - MTR Area to
AD1600		West of MTR Workshop (on STT {	0	31-Mar-16		31-Mar-16		0%	0	1031			L26 - MTR Area to
Vacation				1		ń			1				
VD1230		Area within At-grade Road (H/O t	0		27-Nov-15		31-Mar-16	0%	-124	167			M21 - M+ North E
VD1240 VD1630		ithin At-grade Road (H/O to PIW e Road by PIW, beside M+ Entra	0		30-Nov-15 30-Nov-15		31-Mar-16 31-Mar-16	0% 0%	-121	1031 1031			M22 - ICP/SPS Fro M72 - Area within
		· ·		andix D4			51-Mai-10	0 70	-121	1031			M72 - Area within
	•	o Interface Schedule -			20-NOV-20	J15)							
		Extended Basement (L	yric)										
	terface South of AEL												
IF1030	sement Area	nd M16 after pipe piles and grout	0	17-May-16		23-May-16		0%	-6	642			
Grid 6 &	-		0	17-May-10		25-May-10		0 70	-0	042		~	
IF1032		96, 100, 103, 105, 109 & 116	0		17-Feb-16		31-Mar-16	0%	-42	1031			Complete Pile Cap
PIW Pha		, , , ,											
													to
 Baseline Primary I 		West Kow	loon Cu	ultural Distric	t Authority					H	SIN新昌	Dat 02-Dec	
 Milestone 	e (3	MRP) 3-Mont	ths	Rolli	ng Pro	ogran	nme				HONG	31-Dec	
Non-Criti	tical	•					-					15-Mai 31-Mai	
Critical B		Status a	ιιJ	i war	UN 20	σι							
Summary	ry Bar												

Page 1 of 10

	Мау	/ 2016	ò			Ju	ine 20	016		July	2016	
01	08	15	22	29	9	05	12	19	26	03	10	7
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w to the CA's satisfaction on Project Time & Constru hority Office ready for occupation (t=M5), Complete

No Objection from Contract Administrator for all Trus

age At-grade Road (11Feb16), M05 - SPS Frontage A nal Entrance Portal beside At-garde Road (refer M61 f nge beside At-grade Road (on Completion of ICP / SPS M15 - M+ / Lyric Staircase (2nd ac

M16 - Lyric Interface South (2nd a contage within At-grade Road (Completion of ICP / SI West of Existing Temporary Access Road (11Feb20)
 North-West of MTR Workshop (on STT & H/O from o South-West of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT & H/O from the store of MTR Workshop (on STT

Eastern Area within At-grade Road (H/O to PIW) (30 ontage within At-grade Road (H/O to PIW) (30Nov2 At-Grade Road by PIW, beside M+ Entrance Portal

♦ Take possession of M15 and M16 a

s PC 95, 96, 100, 103, 105, 109 & 116, Complete

evision	Checked	Approved
Nov 2015 - Rev	Chris / Edgar	Leo Harnett
Dec 2015 - Rev	Denmark / C	Leo Harnett
Feb 2016 - Rev	Jojo Alcazaren	Desmond Sze
Var 2016 - Rev 0	Jojo Alcazaren	Chris Chau

3MRP Three Months Rolling Programme Update (31 Mar 2016)

(3MRP) 3-Months Rolling Programme Status at 31 March 2016

Civil & Structual Interface with PWA-Crade R cod Interface Car Park Utilities Works 17210 Remove housing within P400, M05, M06 & M07 0 11-Feb-16 16-Feb-16 31-Mar-16 0-Agr-16 0% 449 126 172105 Remove housing within P400, M05, M06 & M07 5 11-Feb-16 16-Feb-16 31-Mar-16 0-Agr-16 0% 449 126 172105 Second Design RD 20 Approval 30 11-Feb-16 14-Feb-16 31-Mar-16 0%-Agr-16 0% 49 126 172105 Construct U/G utiles connections from footwary to (D/S) 70 24 Mar-16 05 Jul 16 19 Mar-16 0% 49 47 12200 Take possession of MS, MK, MZ, M26 and M22 0 11 Feb-16 23 Mar-16 0% 49 47 12200 Take possession of MS, MK, MZ, M26 and M22 0 11 Feb-16 23 Mar-16 0% 49 957 Pric Take possession of MS, MK, MZ, M26 and M32 0 11 Feb-16 31 Mar-16 0% 49 957 JF3000 C	·		·				·	·	·	<u> </u>	-								
Civil & Structural Interface are Park Utilities Works Interface Car Park Utilities Works 172101 Take procession of NS, Mo, MO & MO 7 0 11-Feb-16 15-Feb-16 31-Mar-16 0-Apr-16 0% 449 126 172100 Take procession of NS, Mo, MO & MO 7 0 11-Feb-16 15-Feb-16 31-Mar-16 00-Apr-16 0% 449 126 172103 Submit Reaming besing for BD Aproval 0 11-Feb-16 15-Feb-16 31-Mar-16 0% 449 126 172103 Install Harding on road-de edge of foctway (500m classical) 10 12-Feb-16 31-Mar-16 0% 49 47 172280 Construct U/G utilities connections from footway to EC/YSI 70 21 Mar-16 23-Mar-16 0% 49 47 172290 Construct U/G utilities connections of MS, MO, MY, 26A M122 0 11 Feb-16 23 Mar-16 0% 6 36 1F2010 Take possession of MS, MO, MY, 26A and M32 0 11 Feb-16 31 Mar-16 0% 49 957 1F3010 Take possession of MS, MO, MY,	ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish										27		April 20	016 17 24	-
Interface Car Park Utilities Works Interface Car Park Utilities Works P2010 Take possession of MS, MO, M7 0 0 11-Pab-16 23 Han-16 0 % 49 126 P2105 Summ Change with Patton MS5, M05 & M07 5 11-Pab-16 11-Pab-16 13-Han-16 0 % 49 126 P2105 Summ Change with Patton MS5, M05 & M07 30 11-Pab-16 13-Han-16 30-Apr-16 0% 49 126 P2105 Summ Change with Patton MS5, M05 & M07 20 11-Pab-16 13-Han-16 30-Apr-16 0% 49 47 P12200 Construct U/G utilities connections from focuvary to LCP/SF 70 24-Man-16 31-Man-16 0% 49 47 P12200 Construction of P5 McL B.S. Structure, TAC 361 11-Pab-16 31-Man-16 0% 47 49 30 77 P2100 Commence constantion with MD MP Apk contractor 0 15-ban-16 31-Man-16 0% 47 957 P3100 Commen	Civil & Struc	tual Interface with PIW At-Grade Road										100		20				11 24	
IF2160 Remove hoarding within Potion M05, M06 & M07 5 11.Feb-16 16 Feb-16 31.Mar-16 0% 39 100 IF2165 Sulmint Haarding Design for 8D Approval 30 11.Feb-16 11.Mar-16 31.Mar-16 29.Apr-16 0% 49 125 IF2160 Construct UG utilizes connections from footway to ICV/SF 70 24.Har-16 35.Mar-16 0.Sul-16 0% 49 47 IF2280 Construct WG utilizes connections from footway to ICV/SF 70 24.Har-16 0.Sul-16 19.Mar-16 0% 49 47 IF2280 Take possession of MS, MG, MY, M2S, M31 and M32 0 11.Feb-16 31.Mar-16 0% 49 47 IF2800 Commerce coordination with the Park contractor 0 15-Jan-16 31.Mar-16 0% 49 457 IF3010 Take possession of MS, M6, M7, M26 and M32 0 1.Feb-16 31.Mar-16 0% 6 36 Design & Procurements Stemarci Caling properiodin 60 15-Jan-16 31.Mar-16 1.Mar-16 0 50 30.Apr-16 80% 6 36 Design	Interface Ca	r Park Utilities Works												-					
IT2.165 Submit Hoarding Design for BD Approval 30 11-Feb-16 11-Mar-16 23-Mar-16 30-Apr-16 17-Mar-16 0% 49 124 IF2.100 Construct US (20 tillies connections from foctway to IC/V/SF 70 24-Mar-16 30-Apr-16 17-Mar-16 0% 48 80 IF2.100 Construct US (20 tillies connections from foctway to IC/V/SF 70 24-Mar-16 30-Apr-16 0% 49 47 IF2.20 Take possession of Interfacing Car Park site on completion 0 11-Feb-16 31-Mar-16 0% 49 47 IF2.200 Construct US ADS, MS, MS, MS, MS, MS, MI and MS2 0 11-Feb-16 31-Mar-16 0% 49 47 IF2.200 Construct US ADS, MS, MS, MS, MS, MS, MI and MS2 0 11-Feb-16 31-Mar-16 0% 49 957 Park Forcintaries Session of MS, MS, MS, MS, MS, MS, MS 0 11-Feb-16 31-Mar-16 0% 6 36 DS.2002 Schements Session of MS, MS, MS, MS, MS, MS 144 15-Dec-15 0 0 15-Sac 16 30-Apr-16 0 45 96 36	IF2010	Take possession of M5, M6, M7	0	11-Feb-16		31-Mar-16		0%	-49	126					•	Take	posse	ession o	of
IP3170 Install Hoarding on road-side edge of factway (500mm cla 10 12.4Mar-16 23.Mar-16 17.May-16 0.% -38 80 IP2180 Construct U/U utilities connections from footway to IC/YS 70 24.Mar-16 05.Jul-16 17.May-16 0.% -38 80 IP2280 Take possession of Interfacing Car Park site on completion 0 11.Feb-16 31.Har-16 0% 49 47 IP2290 Construction of SPS ind, ELS, Structure, T&C 301 11.Feb-16 23.Har-16 0% 49 47 IP3010 Commence coordination with the Park contractor 0 15.3an-16 31.Har-16 0% 49 457 Park Take possession of MS, MG, M7, M26 and M32 0 11.Feb-16 31.Har-16 0% 49 457 Park Take possession of MS, MG, M7, M26 and M32 0 11.Feb-16 31.Har-16 0% 49 457 Park Storogic design park storogic and M32 0 11.Feb-16 31.Har-16 0% 49 457 Park Storogic design park storogic and M32 0 0 11.Feb-16 15.Har-16	IF2160	Remove hoarding within Potion M05, M06 & M07	5	11-Feb-16	16-Feb-16	31-Mar-16	06-Apr-16	0%	-39	100	-				•	i 📫	F216	0, Rem	10
IF2180 Construct U/G utilities connections from footway to ICP/SF 70 24-Mar-16 05-Jul-16 19-May-16 02-Sep-16 0% -49 -47 IF2200 Take possession of Interfacing Car Park site on complettion 0 11-Feb-16 31-Mar-16 0% -49 -47 IF2200 Construction of SPS incl. ELS, Structure, T&C 361 11-Feb-16 31-Mar-16 0% -49 -47 IF2200 Construction of SPS incl. ELS, Structure, T&C 361 11-Feb-16 31-Mar-16 0% -49 -47 IF300 Commence coordination with the Park contractor 0 15-Jan-16 31-Mar-16 0% -49 957 IF301 Take possession of NS, MG, M7, R26 and M32 0 11-Feb-16 31-Mar-16 0% -6 56 Design & Procurements External Facade Proc Construction 15-Jan-16 55-Jan-16 15-Jan-16 16 -41 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	IF2165	Submit Hoarding Design for BD Approval	30	11-Feb-16	11-Mar-16	31-Mar-16	29-Apr-16	0%	-49	126					i 🗖	<u> </u>	<u> </u>	<u> </u>)
Sewage Pump Station II-Feb-16 JI-Mar-16 OPS 49 47 IF2270 Take possession of MS, M6, N7, M26, M31 and M32 0 11-Feb-16 31-Mar-16 0% -09 47 IF2200 Construction of SPS ind, ELS, Structure, TRC 361 11-Feb-16 21-Mar-16 21-Aug-17 0% -33 -37 Park Figure Status 0 15-Jan-16 31-Mar-16 0% -76 957 IF3000 Commence coordination with the Park contractor 0 15-Jan-16 31-Mar-16 0% -60 957 Preliminaries Design & Procurements Streamatic design preparation & submission 144 15-Dec-15 06-May-16 15-Aug-16 80% 6 36 Ds.2005 Schematic design preparation & submission 144 15-Dec-15 06-May-16 15-Aug-16 13-Aug-16 10% 9 36 Ds.2005 Embed DD Submission, consent & appin for M+ Podium 460 17-Feb-16 14-Aug-16 25-Apr-16 14-Aug-16 15-Aug-16 13-Aug-16	IF2170	Install Hoarding on road-side edge of footway (500mm cle	10	12-Mar-16	23-Mar-16	30-Apr-16	17-May-16	0%	-38	80	-								C
IF2270 Take passession of Interfacing Car Park site on completion 0 11 Feb-16 31 Mar-16 0% -49 47 IF2280 Take passession of MS, NG, MY, M26, N31 and M22 0 11 Feb-16 31 Mar-16 0% -49 47 IF2200 Construction of SPS ind, ELS, Structure, T&C 361 11 Feb-16 22-Jun-17 31 Mar-16 0% -49 47 IF3000 Commence coordination with the Park contractor 0 15-Jan-16 31 Mar-16 0% -69 57 IF3010 Take passession of MS, NG, M7, M26 and M32 0 11 Feb-16 31 Mar-16 0% -69 57 IF3010 Take passession of MS, NG, M7, M26 and M32 0 11 Feb-16 31 Mar-16 0% -6 35 IF3010 Take passession of MS, NG, M7, M26 and M32 0 11 Feb-16 31 Mar-16 0% -6 36 Design & Procurements External Facade Pare feasion of MS, NG, M7, M26 and M32 0 11 Feb-16 05-Mar-16 15-Dec-15 A 30-Apr-16 80% 6 36 DS.2002 Schematic design preparation & submission 144 15-Dec-15 A	IF2180	Construct U/G utilities connections from footway to ICP/SF	70	24-Mar-16	05-Jul-16	19-May-16	02-Sep-16	0%	-38	80	-			_					
IF2280 Take possession of M5, M6, M7, M26, M31 and M32 0 11-Feb-16 23 - Mar-16 0 0, H -49 -47 IF2290 Construction of SPS incl. ELS, Structure, T&C 361 11-Feb-16 23 - Jun-17 31-Mar-16 1-Jung-17 0, M -39 -37 Park	Sewage Pu	mp Station			1	1		<u> </u>]									
IF2290 Construction of SPS ind. ELS, Structure, T&C 361 11-Feb-16 22-Jun-17 31-Mar-16 21-Mag-17 0% -39 -37 Park U Structure, T&C 0 15-Jan-16 31-Mar-16 0% -76 957 IF3000 Take possession of MS, MG, M7, M26 and M32 0 11-Feb-16 31-Mar-16 0% 49 957 IF3010 Take possession of MS, MG, M7, M26 and M32 0 11-Feb-16 31-Mar-16 0% 49 957 Procentional Structure, MA, MA, M26 and M32 0 11-Feb-16 31-Mar-16 0% 49 957 Procentional Structure, MA, MA, M26 and M32 0 11-Feb-16 31-Mar-16 0% 49 957 Procentional Structure, MA, MA, MA, MA, MA, MA, MA, MA, MA, MA	IF2270	Take possession of Interfacing Car Park site on completion	0	11-Feb-16		31-Mar-16		0%	-49	-47					•	Take	posse	ession o	of
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DS.7010 Landscaping - Shop Drawings, Materials & Method Statem 4 90 18-Apr-16 16-Jul-16 18-Apr-16 16-Jul-16 0% 0 33 Design Detailing / Buildability Co-ordination																			· · · · · · · · · · · · · · · · · · ·	
Design Detailing / Buildability Co-ordination		Landscaping - Award Specialist Subcontractor	0	18-Apr-16		18-Apr-16			0						💲 Lan	dscaping - A	ward Spec	alist Subo	ontractor	r, Landsca
	DS.7010	Landscaping - Shop Drawings, Materials & Method Stateme	90	18-Apr-16	16-Jul-16	18-Apr-16	16-Jul-16	0%	0	33										
Spatial Coordination for BIM / CSD / CBWD	Design D	Detailing / Buildability Co-ordination																		

(3MRP Three Months Rolling Programme Update (31 Mar 2016) (3MRP) 3-Months Rolling Programme Status at 31 March 2016

Act	tivity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	μ		h 2016	07	<u> </u>	oril 2016	
	M+ Podium										28	06 1	13 20	27	03 1	10 17 2	24 01
	B00.0040	Preparation and submission for BIM / CSD / CBWD at G/F (60	30-Nov-15	28-Jan-16	30-Nov-15 A	30-Apr-16	50%	-93	26	 			i i	<u></u>	·	в
	B00.0050	Preparation and submission for BIM / CSD / CBWD at 1/F (60	30-Nov-15	28-Jan-16	30-Nov-15 A	•	50%	-93	118				in the second se			в
	B00.0060	Review, resubmission and approval for BIM / CSD / CBWD	30	29-Jan-16	27-Feb-16	01-May-16	30-May-16	0%	-93	115							
	B00.0070	Review, resubmission and approval for BIM / CSD / CBWD	30	29-Jan-16	27-Feb-16	01-May-16	30-May-16	0%	-93	162							
	B00.0080	Preparation and submission for BIM / CSD / CBWD at 1M/F	60	29-Jan-16	28-Mar-16	01-May-16	29-Jun-16	0%	-93	26							
	B00.0090	Preparation and submission for BIM / CSD / CBWD at 2/F (60	29-Jan-16	28-Mar-16	01-May-16	29-Jun-16	0%	-93	118						·	
	M+ Tower																
	B6B.0000	Preparation and submission for BIM / CSD / CBWD at 4/F (45	29-Mar-16	12-May-16	01-May-16	14-Jun-16	0%	-33	118				🔟			
	CSF Block				-												
	B20.0280	Preparation and submission for BIM / CSD / CBWD at G/F (45	13-Feb-16	28-Mar-16	15-May-16	28-Jun-16	0%	-92	28							
	Interfacing	Car Park and Sewage Pumping Station (SPS)															
	D01.0000	Preparation and submission for BIM / CSD / CBWD at SPS	45	30-Dec-15	12-Feb-16	15-May-16	28-Jun-16	0%	-137	28							
	D02.0000	Preparation and submission for BIM / CSD / CBWD at ICP E	45	01-Oct-15	14-Nov-15	31-Mar-16	14-May-16	0%	-182	-1							
	D02.0010	Review, resubmission and approval for BIM / CSD / CBWD	15	15-Nov-15	29-Nov-15	15-May-16	29-May-16	0%	-182	59							
	D02.0020	Preparation and submission for BIM / CSD / CBWD at ICP (45	15-Nov-15	29-Dec-15	15-May-16	28-Jun-16	0%	-182	-1							
	4D Time M	lanagement (1st Draft)															
	B00.0160	Facade works	75	14-Jan-16	28-Mar-16	01-Feb-16 A	05-Apr-16	0%	-8	1025					во	0.0160, F	Facade
	B00.0170	M+ Podium	75	14-Jan-16	28-Mar-16	01-Feb-16 A	•	90%	-8	250					<u>. </u>	0.0170, M	
	B20.0400	M+ Tower	75	29-Mar-16	11-Jun-16	06-Apr-16	19-Jun-16	0%	-8	250				Ī			
	B20.0410	CSF CDS/CBWD	75	29-Mar-16	11-Jun-16	06-Apr-16	19-Jun-16	0%	-8	256				ΙI			
	B20.0420	ICP and SPS	75	14-Jan-16	28-Mar-16	31-Mar-16	13-Jun-16	0%	-77	956							
		ck-Up (VMU)															
	VMU Preli							0.01	100								
	A00.3610	VMU Works Period (Contract requirement of 200 calendar	206	01-Oct-15	17-Apr-16	01-Dec-15 A	02-Sep-16	0%	-138	15		=		T		-	
		ument / Drawing Submission					,								<u></u>		
	A00.3020	Submit & Approve of Shop Drawing for Cast-in Items	45	01-Oct-15	14-Nov-15	10-Oct-15 A	•	90%	-142	62						0.3020, Si	ubmit
	A00.3050	Submit & Approve of CSD/CBWD	46	05-Oct-15	19-Nov-15	25-Nov-15 A	•	90%	-141	53					A	400.3050,	, Subn
	A00.3060	Submit & Approve of Facade Shop Drawings & Samples	105	01-Oct-15	13-Jan-16	26-Nov-15 A	19-Apr-16	90%	-97	53						AOC	0.3060
	VMU Proc	urements / Materials Delivery to Site															
	A00.3620	Facade - Ordering & Production for Concrete Shell Mock-Up	84	24-Nov-15	15-Feb-16	02-Jan-16 A	05-May-16	80%	-80	73				-			
	A00.3625	Facade - Ordering & Production for Hybrid Mock-Up	114	25-Oct-15	15-Feb-16	02-Mar-16 A	25-May-16	30%	-100	53							
	A00.3630	Building Services Works - Materials Ordering / Fabrication /	90	27-Oct-15	24-Jan-16	25-Dec-15 A	15-May-16	60%	-112	62				-			-
	A00.3640	ABWF Works - Materials Ordering / Fabrication / Delivery	60	23-Nov-15	21-Jan-16	18-Jan-16 A	15-May-16	70%	-115	96				-			
	VMU Cons	struction		,	,	,	,										
	Step 2.0 - E	xisting Concrete Shell															
		ing Service Works															
	A00.3206	Building Services (FS) - (1st & 2nd Fix) Main & Secondary	12	04-Dec-15	17-Dec-15	21-Mar-16 A	15-Apr-16	50%	-92	43						A 00.3	3206, 1
	A00.3208	Building Services (FS) - Install Cable Containment / Wiring	6	15-Jan-16	21-Jan-16	16-Apr-16	22-Apr-16	0%	-72	58						— A	00.32
	A00.3210	Building Services (MVAC) - Final Fix) Ceiling dumper, Air G	4	19-Feb-16	23-Feb-16	18-May-16	21-May-16	0%	-70	52							
	A00.3220	Building Services (Elect & ELV) - (Final Fix) CCTV Camera,	6	24-Feb-16	01-Mar-16	23-May-16	28-May-16	0%	-70	52	ļ						
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)	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float		April 2016	May 2016	June 2016 J
A00.3230	Building Services (FS) - (Final Fix) Fire Alarm, PA Speaker,	6	29-Feb-16	05-Mar-16	27-May-16		0%	-70	52	28 06 13 20 27	03 10 17 24	01 08 15 22	29 05 12 19 26 A00 3230, Building
	F & Finishes	0	2510510		27 1147 10	02 Juli 10	0 /0	, 0	32				A00.3230, Danding
	ery & B1 Plaza Space												
VMU Celli	· ·												
	Install Ceiling grid / Gypsum board	8	18-Dec-15	30-Dec-15	16-Apr-16	25-Apr-16	0%	-92	52		, in the second se		iling grid / Gypsum boa
	Ceiling Painting	4	31-Dec-15	05-Jan-16	·	29-Apr-16		-92	52			A00.3110, Ceiling	
VMU Wall			51 Dec 15	00 5411 10	20,101,10	2570110	0 /0	52	52			A00.5110, Cening	
	Install Glass / Metal Ballustrade	13	22-Jan-16	05-Feb-16	30-Apr-16	17-May-16	0%	-78	52			A00 31	45, Install Glass / Met
	Wall Painting	6	12-Feb-16	18-Feb-16	•			-70	52				150, Wall Painting
VMU Lobb				10 1 00 10	10		0.10					/////	
VMU Wall													
	Install Ceramic Cladding & Rain Screen	7	28-Jan-16	04-Feb-16	25-May-16	01-lun-16	0%	-92	43				A00.3190, Install C
VMU Floo				0.10010	10 110/ 10	01 Juli 10	570	52					
A00.3660		6	18-Dec-15	28-Dec-15	16-Apr-16	22-Apr-16	0%	-92	43			0.3660, Polished Co	ncrete Flooring Treatm
A00.3670	-	12	29-Dec-15	12-Jan-16		07-May-16		-92	43				ecast Concrete Paver I
		13	13-Jan-16	27-Jan-16	09-May-16			-92	43				00.3680, Install Metal N
VMU Facad			10 54.1 10	27 5011 20	op	21110/20	0.10					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
A00.3685	Access date for Concrete Shell Mock-Up	0	16-Feb-16		26-May-16		0%	-80	42			♦ ۵	ccess date for Concrete
A00.3690	Erection of Scaffolds for Shell Mock-Up	4	16-Feb-16	19-Feb-16	26-May-16	30-Mav-16		-80	42				A00.3690, Erection c
	2.1 - Hybrid Shell Mock-Up												
	tural Works												
A00.3275	Hybrid Mock Up - Curing, Dismantle Scaffolds and Cleaning	21	08-Dec-15	05-Jan-16	24-Mar-16 A	09-Apr-16	50%	-75	44		A00.3275	Hybrid Mock Up - Cu	ring, Dismantle Scaffol
	F & Finishes					· ·						,	<i>"</i>
A00.3280	Hybrid Mock Up - Install PC Paver at External Floor	12	19-Dec-15	06-Jan-16	09-Apr-16	22-Apr-16	0%	-85	44		A0	0.3280, Hybrid Mock	(Up - Install PC Paver a
A00.3290	Hybrid Mock Up - Internal Wall Plasters and Wet Trades	6	06-Jan-16	12-Jan-16	22-Apr-16	28-Apr-16	0%	-85	44				Mock Up - Internal Wall
A00.3300	Hybrid Mock Up - Door Frame Installation	3	09-Jan-16	12-Jan-16	26-Apr-16	28-Apr-16	0%	-85	44				Mock Up - Door Frame I
A00.3310	Hybrid Mock Up - Floor Screeding & Cure	4	13-Jan-16	16-Jan-16	29-Apr-16	04-May-16		-85	44				rid Mock Up - Floor Scr
A00.3320	Hybrid Mock Up - Install wooden slat & tower open mesh c	6	29-Jan-16	04-Feb-16	· ·	, 24-May-16		-85	44				0.3320, Hybrid Mock L
A00.3330	Hybrid Mock Up - Install MML Inclines Concrete Ceiling for	3	02-Feb-16	04-Feb-16	· · · · · · · · · · · · · · · · · · ·			-85	44				0.3330, Hybrid Mock U
	Building Service Works		<u> </u>		,	,							
A00.3360	Hybrid Mock Up - Building Services (Elect) - (1st & 2nd Fix	10	18-Jan-16	28-Jan-16	05-May-16	17-May-16	0%	-85	64			A00.33	360, Hybrid Mock Up - E
A00.3370	Hybrid Mock Up - Building Services (FS) - (1st & 2nd Fix) №		18-Jan-16	28-Jan-16	05-May-16			-85	64				370, Hybrid Mock Up - E
A00.3380	Hybrid Mock Up - Building Services (Elect) - (Final Fix) Sma		05-Feb-16	15-Feb-16	25-May-16	,		-85	64				A00.3380, Hybrid M
A00.3390	Hybrid Mock Up - Building Services (FS) - Hose Reel Panel 1	6	05-Feb-16	15-Feb-16		31-May-16		-85	64				A00.3390, Hybrid M
A00.3400	Hybrid Mock Up - Building Services (FS) - (Final Fix) Sprink	6	05-Feb-16	15-Feb-16	25-May-16			-85	64				A00.3400, Hybrid M
	nal Facade				, -	, -							
A00.3765	Hybrid Mock Up - Access Date for Hybrid Mock-Up	0	20-Jan-16		07-May-16		0%	-85	51			Hybrid Mock I	Jp - Access Date for Hy
A00.3775	Hybrid Mock Up - Erection for Scaffolds	3	20-Jan-16	22-Jan-16	07-May-16	10-May-16		-85	51				Hybrid Mock Up - Erect
A00.3785	Hybrid Mock Up - Install External Facade for Hybrid Mock-L	14	23-Jan-16	11-Feb-16				-85	51				A00.3785, Hybrid Mock
A00.3795	Hybrid Mock Up - Install Glazing & Sealant Application	2	12-Feb-16	13-Feb-16	28-May-16			-85	51				A00.3795, Hybrid Mc
VMU Exter					- , - 3	- / = 0							

MRP Three Months Rolli /ar 2016)	ing Programme Update (31	(3MRP)	3-M	onths F	lolling	Prograi	nme St	atus	s at 3	31 M	arch	2010	6					Page 6 of 1
vity ID Ac	ctivity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast /	Forcast /	%	Finish	Current		rch 2016		April 20			May 2016 June 2016	July 201
					05.0.44	Actual Start	Actual Finish	Compl.	Variance		28 06	13 20	27 03	10	17 24	+ +	08 15 22 29 05 12 1	
	· ·	on Works From Existing Dog Hou	3	22-Jan-16	25-Jan-16	27-Apr-16	29-Apr-16		-75	53							.3835, Hybrid Mock Up - Exca	
	· · ·	Water Pipeworks & PVC ducts	6	25-Jan-16	30-Jan-16	29-Apr-16	06-May-16		-75	53							A00.3845, Hybrid Mock Up -	
		ng / Wiring and Termination	4	01-Feb-16	04-Feb-16	07-May-16	11-May-16	0%	-75	53							A00.3855, Hybrid Mock U	p - Lay Cablin
	Electrical Works			1	1	1	_											
	· · · · ·	be ducts From Hybrid Mock-Up t	6	06-Jan-16	12-Jan-16	11-Apr-16	16-Apr-16	0%	-75	80					A00.38	65, H	lybrid Mock Up - Install Pipe d	ucts From Hy
A00.3875 H	lybrid Mock Up - Lay Cabli	ng & Termination From Hybrid M	10	13-Jan-16	23-Jan-16	18-Apr-16	28-Apr-16	0%	-75	80				L		A00	3875, Hybrid Mock Up - Lay (Cabling & Terr
VMU Step 2.2	- Concrete Stair																	
VMU ABWF &	& Finishes																	
A00.3430 C	Concrete Stair - Timber Tre	ad & Risers Installation	10	02-Dec-15	12-Dec-15	12-May-16	24-May-16	0%	-127	13							A00.3430, Concr	ete Stair - Tir
A00.3440 C	Concrete Stair - Exposed C	oncrete Treament	13	23-Oct-15	06-Nov-15	31-Mar-16	15-Apr-16	0%	-127	13				· · ·	400.34	40, C	oncrete Stair - Exposed Concr	ete Treament
A00.3450 C	Concrete Stair - Precast Co	ncrete Plank & Treads Installati	7	10-Nov-15	17-Nov-15	19-Apr-16	26-Apr-16	0%	-127	13						00.3	450, Concrete Stair - Precast	Concrete Plai
A00.3460 C	Concrete Stair - Metal Balu	strade w/ Railing Installation	12	18-Nov-15	01-Dec-15	27-Apr-16	11-May-16	0%	-127	13							🗖 A00.3460, Concrete Stair	- Metal Balus
A00.3470 C	Concrete Stair - Painting W	orks for Metal Balustrade	4	14-Dec-15	17-Dec-15	25-May-16	28-May-16	0%	-127	13							🗖 A00.3470, Cor	ncrete Stair -
VMU MEP Bu	uilding Service Works	5		,	1					1								
		Vorks for LED Lighting on Hand	8	18-Dec-15	30-Dec-15	30-May-16	07-Jun-16	0%	-127	13							A00.348	30, Concrete
VMU Statuto	ory Submission 8	Inspection																
VMU WSD (FS																		
` `	• •	6 (Part 1 & 2) to WSD (Subject	90	04-Nov-15	01-Feb-16	12-lan-16 A	12-Apr-16	90%	-71	82					188F 0		J - Submit Form WW046 (Par	+ 1 & 2) to W
		6 (Part 3) to WSD (by MJV)	12	02-Feb-16	13-Feb-16	13-Apr-16	· ·		-71	82					<u></u>	;	90, VMU - Submit Form WW	
	MU - Submit Form WW04		12	14-Feb-16	25-Feb-16	12-May-16	· ·		-88	65					A	0.50	- UMV - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300	
	MU - Inspection and Appr	· · ·	1	03-Mar-16	03-Mar-16		30-May-16		-88	65							A00.3900, VM0 -	
		-	-			-					1						A00.3910, V	
		visional Sum & Optic			ter Annex	B to Pre	eamble) (revis	sea								
Other Provis	sional Sums / Op	tions for M+ Main Wor	ks Co	ntract														
PP2.2 Ir	nterface car park - ELS, A	rchitectural and BS works	0		28-Jan-16		31-Mar-16	0%	-62	876			Int	erface c	ar park	- ELS	5, Architectural and BS works	, Interface cai
PP3.2 Se	ewage pumping station (SPS) - ELS, foundation, signage,	0		28-Jan-16		31-Mar-16	0%	-62	1031			Sev	vage pu	mping	statio	n (SPS) - EL\$, foundation, sig	nage, builder
PP5 B'	WIC / basic Building Servi	ces provisions for CLP transform	0		26-Sep-15		31-Mar-16	0%	-187	1031			♦вw	IC / bas	sic Build	ling S	ervices provisions for CLP trai	nsformer room
PP6 C	A/RSS M+PSO - Complete	e office accommodation and sup	0		26-Sep-15		31-Mar-16	0%	-187	1031			♦ CA/	RSS M-	PSO -	Comp	lete office accommodation an	d supporting
Preliminari	es / Construct	ion																
Site Accomo	odation & Facilit	les																
Site Office S	Set Up																	
A00.2060 M	166 - Period of Occupying	Temporary Container Offices	197	17-Nov-15	31-May-16	17-Nov-15 A	31-May-16	70%	0	969	-			1 I	1	· ·	A00.2060, N	166 - Period o
A00.2070 L2	22 & L23 - Office Constru	ction / Setup	108	15-Dec-15	31-Mar-16	02-Jan-16 A	30-Apr-16	70%	-30	1000	-			1 I 1 I		AO	0.2070, L22 & L23 - Office Co	nstruction / S
Plant & Equi	ipment																	
	rection of Tower Crane No	ر ۲	21	23-May-16	23-Jun-16	23-May-16	23-Jun-16	0%	0	3								A00.2000,
	rection of Tower Crane No		21	02-Mar-16	29-Mar-16		23-Jun-16		-62	63								A00.2000,
			~ 1	02 Hal-10	23 1101-10	27 May-10	23 Jun-10	0 /0	02	05								Λυψ.2100,
Excavation	A ELS																	
BD Mileston	es & BD Stages	LoE																
Portion M01																		
		r Area A1,A2,A3 & B1, B2,B3 &	85	02-Nov-15	16-Feb-16	02-Nov-15 A	21-Anr-16	0%	-52	45	 		<u> </u>			Stage	1 - Excavation for Area A1,A	2 4 3 8 B1 B2
		$\cdots \cdots $	55	02 100 10	10,0010	JE 107		5.0	52	1.5			11.1	1.1.1	100	Yuye	AIGUALIA	
	D Stage 2 - Construct P2	slab for A1,A2,A3 & B1, B2,B3	69	17-Nov-15	30_{-} Apr 16	12-Nov-15 A	30-Apr 16	0%	0	1	-			<u> </u>			Stage 2 - Construct B2 slab f	A1 42 42 0

ctivity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish		Forcast /	%	Finish	Current	March 20	16	April 2	016	May 2016	Jun
						Actual Start	Actual Finish	Compl.	Variance		28 06 13	20 27	03 10	17 24 01		
	-	ab for A4, B4 & PC construction	15	03-May-16	26-May-16	03-May-16	26-May-16		0	2					BD :	
	5	ab for A5, B5 & Site formatior	0	23-Apr-16	23-Apr-16	16-Apr-16	16-Apr-16	0%	6	726				BD Sta	age 4 + Construct B	2 slab
		ab for A6, A7, A8, B6 & Site f	103	25-Apr-16	08-Oct-16	18-Apr-16	20-Sep-16		11	35				·		
	BD Stage 6 - Construct PC fo	rA9, A10, A11, A12, B7, B8, I	61	24-May-16	10-Sep-16	24-May-16	25-Aug-16	0%	11	63						·····
AEL North																
Portion A5,								,								
B10.3440	AEL North - ELS Stage 1 Wai	iling Installation +4.0mPD (Pc	10	07-Mar-16	17-Mar-16	07-Mar-16 A	02-Apr-16	0%	-11	9			B10.344	10, AEL Nor	th - ELS Stage 1 W	ailing 1
Portion A6,	A7, A10, A11															
B10.2078	Review and approval by BD fo	or Combined ELS / Exc for A2,	28			11-Mar-16 A	11-Apr-16	70%		13			Re	view and ar	pproval by BD for Co	ombine
B10.2080	AEL North - ELS Stage 4 Site	e Formation (Portion A6, A7),	26	19-Mar-16	22-Apr-16	30-Mar-16 A	30-Apr-16	0%	-7	13	¢			В	310.2080, AEL North	h - ELS
Portion B8	& A9, B9															
B10.2100	AEL North - ELS Stage 5 Site	e Formation (B8 & A9, B9)	16	16-May-16	07-Jun-16	16-May-16	07-Jun-16	0%	0	24						📕 В1
Portion A8,	B6, A12, B7															
B10.3570	AEL North - ELS Stage 4 Site	e Formation (Portion A8, B6)	26	19-Mar-16	22-Apr-16	31-Mar-16	30-Apr-16	0%	-7	84			·l	B	310.3570, AEL Nortl	h - ELS
AEL South						1		1								
DCS																
	DCS - Excavation & Lateral S	Support	30	19-Dec-15	27-Jan-16	19-Dec-15 A	05-Apr-16	95%	-52	45			B10.1	160, DCS -	Excavation & Later	ral Sup
B10.1210	DCS - Excavation for Pile Cap	0 & Sump Pit	14	28-Jan-16	16-Feb-16	06-Apr-16	21-Apr-16	0%	-52	45				:	210, DCS - Excavatio	1 1
B10.1240	DCS - Complete Excavation for	or Advanced Access of M14a,	0		16-Feb-16		21-Apr-16	0%	-52	45				• DCS - (Complete Excavation	n for A
AEL South	except DCS]								
		cavate to +2.45mPD for Plan	16	20-Apr-16	12-May-16	21-May-16	14-Jun-16	0%	-21	218						
ICP					1			1								
	ICP - Dewatering Commence	· · · · · · · · · · · · · · · · · · ·	0	22-Feb-16		14-Apr-16		0%	-41	-39			۲	[CP - Dewat	ering Commence, I	(CP - D)
		n from +3.625mPD to -1.65(30	22-Feb-16	30-Mar-16	14-Apr-16	24-May-16		-41	-39					<u></u>	.3190,
B10.3200	ICP - Excavate Area A to -1.6	50mPD	30	31-Mar-16	09-May-16	26-May-16		0%	-40	-39						
Structures	•				,			<u></u>		<u></u>						
	Structures / Sub-St	tructure														
Pilecaps																
AEL North																
	ecap (A1,A2,A3,B1,B2,E	•												_		
		ncrete Base for Tower Crane I	12	03-May-16	21-May-16	03-May-16	21-May-16	0%	0	3					B10.30)27, AE
	- Pilecap (A4,A5,B4,B5)															
Pilecap (A4	•															
	AEL North - ELS Stage 2 - Is		12	22-Mar-16	08-Apr-16	31-Mar-16 A	· ·	5%	-3	2					EL North - ELS Stag	-
	AEL North - ELS Stage 2 - 2r		2	09-Apr-16	11-Apr-16	13-Apr-16	14-Apr-16	0%	-3	2					, AEL North - ELS S	
	AEL North - ELS Stage 2 - 2r		9	12-Apr-16	25-Apr-16	15-Apr-16	25-Apr-16	0%	0	2				:	2060b, AEL North -	1 1
		cavate Pilecap Formation (A4)	5	26-Apr-16	30-Apr-16	26-Apr-16	30-Apr-16	0%	0	2				B	310.2060c, AEL Nor	1
		onstruct Pilecap & B2 Slab (A4	10	03-May-16	13-May-16	03-May-16			0	2					B10.2060d,	- 4
B10.2060e	AEL North - ELS Stage 3 - 3r	d Trimming (A5)	2	16-May-16	17-May-16	16-May-16	17-May-16	0%	0	2					В10.2060	Je, AEL

5														Pag	e 7 o	of 10
	-	April 2	2016			Ma	y 2016	6			Ju	ine 20	016		July	2016
27	03	10	17	24	01 V	08	15	22	2 B		05	12	19 Con	26	03	10 ⁷ slab f
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5		R	eviev	i and	l app	rova	l by	BD fo	þr	Co	nbir	ied E	LS /	Exc	for A	2, A3
	! 	!			B1	0.20	80,7	¦ Ael i	No	rth	- E	_S S	¦ tage	4 Si	te Fo	rmati
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	!				B1	0.35	70,/	AEL I	No	rth	- EL	S S	tage	4 Si	te Fo	rmati
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		:		B10	121	0, D	CS -	Exca	va	tio	n foi	Pile	Сар	& s	ump	Pit
			٠	DCS	- Co	mple	te E	xcav	ati	on	for	Adva	ince	d Acc	ess o	of M14
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		٠	ICP -	Dev	vater	ing (Comi	neno	e,	IĊ	P - [Dewa	terii	ng C	omm	ence,
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3MRP Three Months Rolling Programme Update	(31
Mar 2016)	

(3MRP) 3-Months Rolling Programme Status at 31 March 2016

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Activity I	D	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	March 20 28 06 13	016 20 27	· · · ·	pril 2016 10 17 24
	B10.2060f	AEL North - ELS Stage 3 -	3rd Lateral Support (A5)	5	17-May-16	21-May-16	17-May-16	21-May-16	0%	0	2	20 00 13	20 21		10 17 24
	B10.2060g	AEL North - ELS Stage 3 -	Deep Excavation for Pilecap (A5	5	21-May-16	26-May-16	21-May-16	26-May-16	0%	0	2				
	B10.2060h	AEL North - ELS Stage 3 -	Construct Pilecap & B2 Slab (A5	4	26-May-16	30-May-16	26-May-16	30-May-16	0%	0	2				
	Pilecap (B4	4 & B5)													
	B10.2070	AEL North - ELS Stage 2 -	· 1st Trimming (B4 / B5)	2	19-Mar-16	21-Mar-16	24-Mar-16 A	01-Apr-16	95%	-7	2			В10.2	2070, AEL No
	B10.2070b	AEL North - ELS Stage 2 -	Ist Lateral Support (B4 / B5)	8	22-Mar-16	08-Apr-16	02-Apr-16	12-Apr-16	0%	-3	2				B10.2070b
	B10.2070c	AEL North - ELS Stage 2 -	2nd trimming (B4 / B5)	2	09-Apr-16	11-Apr-16	13-Apr-16	14-Apr-16	0%	-3	2				B10.2070
	B10.2070d	AEL North - ELS Stage 2 -	2nd Lateral Support (B4 / B5)	9	12-Apr-16	25-Apr-16	15-Apr-16	25-Apr-16	0%	0	2				в1
	B10.2070e	AEL North - ELS Stage 2 -	Excavate Pilecap Formation (B4)	5	26-Apr-16	30-Apr-16	26-Apr-16	30-Apr-16	0%	0	2				
	B10.2070f	AEL North - ELS Stage 3 -	Construct Pilecap & B2 Slab (B4	10	03-May-16	13-May-16	03-May-16	13-May-16	0%	0	2				
	B10.2070g	AEL North - ELS Stage 3 -	3rd Trimming (B5)	2	16-May-16	17-May-16	16-May-16	17-May-16	0%	0	2				
	B10.2070h	AEL North - ELS Stage 3 -	3rd Lateral Support (B5)	5	17-May-16	21-May-16	17-May-16	21-May-16	0%	0	2				
	B10.2070i	AEL North - ELS Stage 3 -	Deep Excavation for Pilecap (B5	5	21-May-16	26-May-16	21-May-16	26-May-16	0%	0	2				
	B10.2070j	AEL North - ELS Stage 3 -	Construct Pilecap & B2 Slab (B5	4	26-May-16	30-May-16	26-May-16	30-May-16	0%	0	2				
	B10.2070k	AEL North - Complete Pile	cap & B2 Slab (A5 & B5)	0		30-May-16		30-May-16	0%	0	2				
	Stage 4. 5. 6	6 & 7 (A6. A7. A8. A9. A	10, A11, A12 & B6, B7, B8,	B9)										N	
	B10.3101	•••••	Pile Cap Construction (Portion A	43	23-Apr-16	27-Jun-16	16-Apr-16	18-Jun-16	0%	6	13				
	B10.3102	AEL North - BD Stage 5 -	Underground Drainage (Portion /	19	25-Apr-16	23-May-16	18-Apr-16	13-May-16	0%	6	13				
	B10.3103	AEL North - BD Stage 6 -	Pile Cap Construction (Portion B	30	24-May-16	09-Jul-16	24-May-16	09-Jul-16	0%	0	24				
	B10.3104	AEL North - BD Stage 6 -	Underground Drainage (Portion	12	24-May-16	11-Jun-16	24-May-16	11-Jun-16	0%	0	24				
	AEL South														
		ast Pilecap & DCS													
	B10.1030	AEL South - East Pile Cap	PC 95, 96 Construction	114	09-Nov-15	31-Mar-16	04-Jan-16 A	14-Apr-16	50%	-11	1				B10.1030
	B10.1225	AEL South - Excavation &	Concrete Base Construction for	28	12-Jan-16	16-Feb-16	31-Mar-16	05-May-16	0%	-62	63				
	B10.1230	AEL South - DCS - Pile Ca	os & Sump Pits Construction	31	17-Feb-16	23-Mar-16	22-Apr-16	07-Jun-16	0%	-52	45				
	RC Structu	res for Trusses]											
	C10.0090		nel Zone - East Pile Caps Core Wa	37	31-Mar-16	21-May-16	15-Apr-16	07-Jun-16	0%	-11	1				
	RC Structu	re for Water Tank			ļ								(
	B10.3340		Excavation for Water Tank Part :	20	11-Mar-16	07-Apr-16	29-Mar-16 A	23-Apr-16	0%	-14	6				в10
	B10.3350		Construct Water Tank Part 1 (W	36	08-Apr-16	27-May-16	25-Apr-16	18-Jun-16	0%	-14	6				
	32/F Slabs		, , , , , , , , , , , , , , , , , , ,		·	,									
	Portion A6, A														
	B10.3480	AEL North - B2 Slab - Stag	2e 5 (Portion A6 A7)	29	31-May-16	15-Jul-16	16-May-16	27-Jun-16	0%	11	13				
	AEL South	ALL NORTH DZ SIGD Stag		25	SI May 10	15 501 10	10 May 10	27 Juli 10	0 /0		15				
	B10.2180	AEL South (DCS) - Constri	uct Basement B2 Slab at -2.15m	27	24-Mar-16	28-Apr-16	22-Apr-16	31-May-16	0%	-21	45				
				27	21110110	20 / (p) 10	2270110	51 Hay 10	0 /0	21	13				
		- Walls, Columns &													
		B1/F Slab other than		0	10 Mar 16	21 Mar 16	15 Mar 16 A	12 Apr 16	E0%		145				
_	B10.3050	AEL North - Wall, Column		8	19-Mar-16	31-Mar-16	15-Mar-16 A			-9	145				B10.3050,
_	B10.3055	AEL North - Wall, Column		15	19-Mar-16	09-Apr-16	31-Mar-16	18-Apr-16	0%	-7	84	r			B10.30
	B10.3060	AEL North - Wall, Column	A DI SIAU (PORION BIC)	34	01-Apr-16	17-May-16	13-Apr-16	30-May-16	0%	-9	695				
	B10.3065	AEL North - Wall, Column	9 D1 Clab (Doution D1D)	19	11-Apr-16	03-May-16	19-Apr-16	16-May-16	0%	-7	84	1 1	a 🚺 a 🛛 a	t i i	

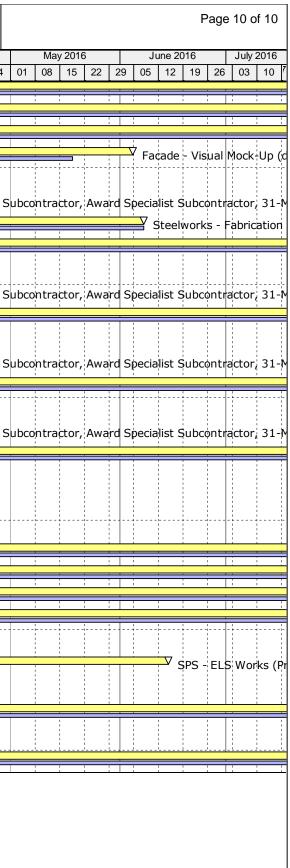
May 2016 June 2016 July 2016 01 08 15 22 29 05 12 19 26 03 10 B10.2060f, AEL North - ELS Stage B10.2060g, AEL North - ELS Stage B10.2060h, AEL North - ELS Stage orth - ELS Stage 2 - 1st Trimming (B4 / B5), AEL North - ELS Stage 2 - Ist Lateral Support (B b, AEL North - ELS Stage 2 - 1st Lateral Support (B DC, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070f, AEL North - ELS Stage 3 - CC B10.2070f, AEL North - ELS Stage 3 - CC B10.2070f, AEL North - ELS Stage 3 - CC B10.2070g, AEL North - ELS Stage 3 B10.3101, B10.3102, AEL North - BD Stage 3 B10.3104, AEL North - B10.3104, AEL North - ENC Stage 3 - Excavation & Concret B10.3205, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - Wall, B10.33065, AEL North - Wall, Column	01 08 15 22 29 05 12 19 26 03 10 B10.2060f, AEL North - ELS Stag B10.2060g, AEL North - ELS Stag B10.2060h, AEL North - ELS Stag B10.2060h, AEL North - ELS Stage 2 - 1st Trimming (B4 / B5), AE B10.2060h, AEL North - ELS Stage 2 - Ist Lateral Support 0c, AEL North - ELS Stage 2 - 1st Lateral Support Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Lateral B10.2070e, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - 2nd Latera B10.2070f, AEL North - ELS Stage 3 - B10.2070f, AEL North - ELS Stage 2 - Excavat B10.2070f, AEL North - ELS Stage 3 - B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070f, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3102, AEL North - ELS Stage B10.3102, AEL North - Complete Pileca B10.3102, AEL North - BD Stag
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 BL0:2060g, AEL North - ELS Stage BL0:2060h, AEL North - ELS Stage orth - ELS Stage 2 - 1st Trimming (B4 / B5), AEL b, AEL North - ELS Stage 2 - 1st Lateral Support (P 0c, AEL North - ELS Stage 2 - 2nd trimming (B4 / 10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S BL0.2070e, AEL North - ELS Stage 2 - 2nd Lateral S BL0.2070e, AEL North - ELS Stage 2 - 2nd Lateral S BL0.2070e, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - C BL0.2070f, AEL North - ELS Stage 3 - ELS Stage 3 - C BL0.3102, AEL North - BD Stage 3 - Excavation for V BL0.3340, AEL North - BD Stage 3 - Excavation for V BL0.3340, AEL North - BD Stage 3 - Excavation for V BL0.3350, AEL North - BD Stage 3 - Excavation for V BL0.3350, AEL North - BD Stage 3 - Excavation for V BL0.3350, AEL North - BL Stage 3 - Excavation for V BL0.3350, AEL North - BL Stage 3 - Excavation for V BL0.3350, AEL North - BL Stage 3 - Excavation for V BL0.3350, AEL North - BL Stage 3 - Excavation for V BL0.3350, AEL North - BL Stage 3 - Excavation for V BL0.3350, AEL North - Wall, Column & BL Stab (Portion BLA) BL0.3106, AEL North - Wall, Column & BL Stab (Portion BLA) 	B10.2060g, AEL North - ELS S B10.2060h, AEL North - EL B10.2060h, AEL North - EL orth - ELS Stage 2 - 1st Trimming (B4 / B5), AE o, AEL North - ELS Stage 2 - 1st Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage AL North - ELS Stage AL Nort
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orth - ELS Stage 2 - 1st Trimming (B4 / B5), AEL b, AEL North - ELS Stage 2 - 1st Lateral Support (P Oc, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 3 - C B10.2070g, AEL North - ELS Stage 3 - C B10.2070g, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage B10.2070h, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North B10.3350, AEL North - B10.3350, AEL North B10.3350, AEL North - B10.3350, AEL North B10.3350, AEL North - B10.3350, AEL North B10.3360, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall, Column & B1 Slab (Portion B1A)	orth - ELS Stage 2 - 1st Trimming (B4 / B5), AE b, AEL North - ELS Stage 2 - 1st Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
orth - ELS Stage 2 - 1st Trimming (B4 / B5), AEL b, AEL North - ELS Stage 2 - 1st Lateral Support (P Oc, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 3 - C B10.2070g, AEL North - ELS Stage 3 - C B10.2070g, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage B10.2070h, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North B10.3350, AEL North - B10.3350, AEL North B10.3350, AEL North - B10.3350, AEL North B10.3350, AEL North - B10.3350, AEL North B10.3360, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall, Column & B1 Slab (Portion B1A)	orth - ELS Stage 2 - 1st Trimming (B4 / B5), AE b, AEL North - ELS Stage 2 - 1st Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
b, AEL North - ELS Stage 2 - Ist Lateral Support (P Oc, AEL North - ELS Stage 2 - 2nd trimming (B4 / 10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - C B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage B10.2070f, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	b, AEL North - ELS Stage 2 - Ist Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Lateral B10.2070e, AEL North - ELS Stage 2 - Excavat B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
b, AEL North - ELS Stage 2 - Ist Lateral Support (P Oc, AEL North - ELS Stage 2 - 2nd trimming (B4 / 10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - C B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage B10.2070f, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	b, AEL North - ELS Stage 2 - Ist Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Lateral B10.2070e, AEL North - ELS Stage 2 - Excavat B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
b, AEL North - ELS Stage 2 - Ist Lateral Support (P Oc, AEL North - ELS Stage 2 - 2nd trimming (B4 / 10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - C B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage B10.2070f, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	b, AEL North - ELS Stage 2 - Ist Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Lateral B10.2070e, AEL North - ELS Stage 2 - Excavat B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
b, AEL North - ELS Stage 2 - Ist Lateral Support (P Oc, AEL North - ELS Stage 2 - 2nd trimming (B4 / 10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - C B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage 3 B10.2070f, AEL North - ELS Stage B10.2070f, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	b, AEL North - ELS Stage 2 - Ist Lateral Support Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Lateral B10.2070e, AEL North - ELS Stage 2 - Excavat B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
0c, AEL North - ELS Stage 2 - 2nd trimming (B4 / 10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - G B10.2070g, AEL North - ELS Stage 3 B10.2070g, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - EXCAVATION C10.0090, AEL North ak 0.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	Dc, AEL North - ELS Stage 2 - 2nd trimming (B4 0.2070d, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - Excavat B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage
10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - CA B10.2070g, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage B10.2070j, AEL North - BD Stage B10.3101, B10.3102, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1230, AEL North - B10.1230, AEL South - B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5	0.2070d, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS B10.2070j, AEL North - ELS B10.3102, AEL North - BD Stag B10.3102, AEL North - BD Stag
10.2070d, AEL North - ELS Stage 2 - 2nd Lateral S B10.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - CA B10.2070g, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage B10.2070j, AEL North - BD Stage B10.3101, B10.3102, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1230, AEL North - B10.1230, AEL South - B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3340, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - BD Stage 3 - Excavation for V B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5	0.2070d, AEL North - ELS Stage 2 - 2nd Latera B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS B10.2070j, AEL North - ELS B10.3102, AEL North - BD Stag B10.3102, AEL North - BD Stag
B1D.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - G B10.2070g, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3101, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - ES Stage B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL N	B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS B10.2070j, AEL North - ELS B10.2070j, AEL North - ELS B10.3102, AEL North - BD Stag
B1D.2070e, AEL North - ELS Stage 2 - Excavate B10.2070f, AEL North - ELS Stage 3 - G B10.2070g, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3101, AEL North - ELS Stage B10.3102, AEL North - BD Stage B10.3102, AEL North - BD Stage B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - ES Stage B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL North - Wall, Column & B1 Slab (Portion B1A, DS5, AEL N	B10.2070e, AEL North - ELS Stage 2 - Excaval B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS B10.2070j, AEL North - ELS B10.2070j, AEL North - ELS B10.3102, AEL North - BD Stag
BI0.2070f, AEL North - ELS Stage 3 - Ca BI0.2070g, AEL North - ELS Stage 3 BI0.2070h, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.3101, BI0.3102, AEL North - BD Stage BI0.3104, AEL North BI0.1225, AEL South - Excavation & Concret BI0.1230, AEL South - ES Stage BI0.1230, AEL North ak C10.0090, AEL North ak C10.3340, AEL North - BD Stage 3 - Excavation for W BI0.3350, AEL North ak BI0.3350, AEL North ak C10.3350, AEL North ak BI0.3350, AEL North ak BI0.3360, AEL North ak BI0.3060, AEL North ak	B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
BI0.2070f, AEL North - ELS Stage 3 - Ca BI0.2070g, AEL North - ELS Stage 3 BI0.2070h, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.3101, BI0.3102, AEL North - BD Stage BI0.3104, AEL North BI0.1225, AEL South - Excavation & Concret BI0.1230, AEL South - ES Stage BI0.1230, AEL North ak C10.0090, AEL North ak C10.3340, AEL North - BD Stage 3 - Excavation for W BI0.3350, AEL North ak BI0.3350, AEL North ak C10.3350, AEL North ak BI0.3350, AEL North ak BI0.3360, AEL North ak BI0.3060, AEL North ak	B10.2070f, AEL North - ELS Stage 3 - B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Stage B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
 B10.2070g, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3101, B10.3102, AEL North - BD Stage B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North at B10.3350, AEL North at B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, 055, 055, 055, 055, 055, 055, 05	B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Star B10.2070i, AEL North - ELS S B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
 B10.2070g, AEL North - ELS Stage 3 B10.2070h, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.2070j, AEL North - ELS Stage B10.3101, B10.3102, AEL North - BD Stage B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North at B10.3350, AEL North at B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, 055, 055, 055, 055, 055, 055, 05	B10.2070g, AEL North - ELS Stage B10.2070h, AEL North - ELS Star B10.2070i, AEL North - ELS S B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
BI0.2070h, AEL North - ELS Stage BI0.2070i, AEL North - ELS Stage BI0.2070j, AEL North - ELS Sta BI0.2070j, AEL North - ELS Stage BI0.2070j, AEL North - ELS Stage BI0.3101, BI0.3102, AEL North - BD Stage BI0.3104, AEL North BI0.1225, AEL South - Excavation & Concret BI0.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak BI0.3340, AEL North - BD Stage 3 - Excavation for W BI0.3350, AEL N BI0.3350, AEL N BI0.3360, AEL North - Wall,	B10.2070h, AEL North - ELS Star B10.2070i, AEL North - ELS S B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
 B10.2070h, AEL North - ELS Stage B10.2070i, AEL North - ELS Sta B10.2070j, AEL North - ELS Sta B10.2070j, AEL North - ELS Sta B10.3101, B10.3102, AEL North - BD Stage B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - B10.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - B10.3350, AEL North - B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, AEL North - Wall, Column & B1 Slab (Portion B1A, 055, 055, 055, 055, 055, 055, 055, 05	B10.2070h, AEL North - ELS Star B10.2070i, AEL North - ELS S B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
B10.2070i, AEL North - ELS Sta B10.2070j, AEL North - ELS AEL North - Complete Pilecap B10.3101, B10.3102, AEL North - BD Stage B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North and C10.0090, AEL North and B10.3350, AEL North and B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	B10.2070i, AEL North - ELS S B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
B10.2070j, AEL North - ELS S AEL North - Complete Pilecap B10.3101, B10.3102, AEL North - BD Stage B10.3104, AEL North B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North add C10.0090, AEL North add B10.3350, AEL North add B10.3060, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
B10.2070j, AEL North - ELS S AEL North - Complete Pilecap B10.3101, B10.3102, AEL North - BD Stage B10.3104, AEL North B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North add C10.0090, AEL North add B10.3350, AEL North add B10.3060, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A)	B10.2070j, AEL North - ELS AEL North - Complete Pileca B10.3102, AEL North - BD Stag
AEL North - Complete Pilecap B10.3101, B10.3102, AEL North - BD Stage B10 B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ad C10.0090, AEL North ad B10.3350, AEL North ad B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	AEL North - Complete Pileca B10.3102, AEL North - BD Stag
AEL North - Complete Pilecap B10.3101, B10.3102, AEL North - BD Stage B10 B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ad C10.0090, AEL North ad B10.3350, AEL North ad B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	AEL North - Complete Pileca B10.3102, AEL North - BD Stag
B10.3101, B10.3102, AEL North - BD Stage B10 B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North ak B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North - B10.3060, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10.3102, AEL North - BD Stag
B10.3101, B10.3102, AEL North - BD Stage B10 B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North ak B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North - B10.3350, AEL North - B10.3060, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10.3102, AEL North - BD Stag
BI0.3102, AEL North - BD Stage B10 B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North ak B10.3350, AEL N B10.3350, AEL N B10.3060, AEL N B10.30	B10.3102, AEL North - BD Stag
BI0.3102, AEL North - BD Stage B10 B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North ak B10.3350, AEL N B10.3350, AEL N B10.3060, AEL N B10.30	B10.3102, AEL North - BD Stag
BI0.3102, AEL North - BD Stage B10 B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North ak B10.3350, AEL N B10.3350, AEL N B10.3060, AEL N B10.30	B10.3102, AEL North - BD Stag
BI0.3102, AEL North - BD Stage B10 B10.3104, AEL North B10.1225, AEL South - Excavation & Concret B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North ak B10.3350, AEL N B10.3350, AEL N B10.3060, AEL N B10.30	B10.3102, AEL North - BD Stag
0, AEL South - East Pile Cap PC 95, 96 Constructio B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North and C10.0090, AEL North and B10.3350, AEL North and B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	В
0, AEL South - East Pile Cap PC 95, 96 Constructio B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and C10.0090, AEL North and B10.3350, AEL North and B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3360, AEL North - Wall, D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	<u> </u>
0, AEL South - East Pile Cap PC 95, 96 Constructio B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and C10.0090, AEL North and B10.3350, AEL North and B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3350, AEL N B10.3360, AEL North - Wall, D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	<u> </u>
0, AEL South - East Pile Cap PC 95, 96 Constructio B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	B10.3104, AEL Nor
0, AEL South - East Pile Cap PC 95, 96 Constructio B10.1225, AEL South - Excavation & Concret B10.1230, AEL South - C10.0090, AEL North ak C10.0090, AEL North ak B10.3350, AEL North BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.3350, AEL North - Wall, Column & B1 Slab (Portion B1A) D55, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	
B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and O.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	
B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and O.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	
B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and O.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	
B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and O.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	
B10.1225, AEL South - Excavation & Concrete B10.1230, AEL South - C10.0090, AEL North and O.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	
B10.1230, AEL South - C10.0090, AEL North and 0.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	, AEL South - East Plie Cap PC 95, 96 Construct
B10.1230, AEL South - C10.0090, AEL North and 0.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10 1225 AEL South - Excavation & Concr
C10.0090, AEL North and 0.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
C10.0090, AEL North and 0.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10.1230, AEL South
0.3340, AEL North - BD Stage 3 - Excavation for W B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
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B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
B10.3350, AEL N B10.2180, AEL South (DCS) AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,).3340, AEL North - BD Stage 3 - Excavation for
AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	<u></u>
AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B1A) B10.3060, AEL North - Wall,	B10.3350, AEL
, AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
, AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
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, AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
, AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
, AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
, AEL North - Wall, Column & B1 slab (Portion B1A) 055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	
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055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10.2180, AEL South (DC
055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10.2180, AEL South (DC
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055, AEL North - Wall, Column & B1 Slab (Portion B10.3060, AEL North - Wall,	B10.2180; AEL South (DC
B10.3060, AEL North - Wall,	
B10.3060, AEL North - Wall,	
	AEL North - Wall, Column & B1 slab (Portion B1
	AEL North - Wall, Column & B1 slab (Portion B1
BIO 3045 AFL North - Wall Column &	AEL North - Wall, Column & B1 slab (Portion B1)55, AEL North - Wall, Column & B1 Slab (Portio
	AEL North - Wall, Column & B1 slab (Portion B1)55, AEL North - Wall, Column & B1 Slab (Portio B10.3060, AEL North - Wal

3MRP Three Months Rolling Programme Update (31 Mar 2016) (3MRP) 3-Months Rolling Programme Status at 31 March 2016

Activity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float		April 2016 27 03 10 17 24
AEL North	- B1/F Slab for Truss T1, T2 & T5 Erection									28 06 13 20 2	27 03 10 17 24
B10.3090	AEL North - Wall, Column & B1 Slab (Portion A4 & A5)	18	03-Mar-16	23-Mar-16	31-Mar-16	21-Apr-16	0%	-21	229		B10
AEL South	- RC Structures Prior to Area M14 H/O										
B10.1040	AEL South - Construct Core Wall on PC96 from B1F to 1M,	35	01-Apr-16	20-May-16	16-Apr-16	06-Jun-16	0%	-11	2		
B10.1050	AEL South - Construct B1 Slab for Basement Road Wall	15	01-Apr-16	20-Apr-16	16-Apr-16	06-May-16	0%	-11	13		
B10.3290	AEL South - Construct Basement Road Wall between PC 9	35	21-Apr-16	14-Jun-16	09-May-16	30-Jun-16	0%	-11	5		
B10.3300	AEL South - Construct External Wall between PC 96 & PC1	25	21-Apr-16	28-May-16	09-May-16	16-Jun-16	0%	-11	5		
B10.3310	AEL South - Construct Basement Road Wall between PC 1	16	29-Apr-16	24-May-16	19-May-16	11-Jun-16	0%	-11	13		
B10.3315	AEL South - Construct Walls, Column & Staircases to G/F I	27	29-Apr-16	13-Jun-16	20-May-16	28-Jun-16	0%	-11	5		
SPS Strue	ctures (include Excavation)										
D01.3000	SPS - ELS Works (Provisional)	61	11-Feb-16	26-Apr-16	31-Mar-16	14-Jun-16	0%	-39	-37		
ICP Struc	tures (include Excavation)		· · · · · · · · · · · · · · · · · · ·	,		,					
A3980	ICP - ELS works (Provisional)	110	22-Feb-16	26-Jul-16	14-Apr-16	23-Sep-16	0%	-39	-39		
External	Works										
	nal Works										
Utitlities											
Drainage											
EW1010	Construct the DN375 and DN600 strom drains within the	75	10-Dec-15	14-Mar-16	12-Apr-16	01-Aug-16	0%	-95	111		
EW1045	Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)	91	10-Dec-15	09-Mar-16	12-Apr-16	11-Jul-16	0%	-124	851		
Sewage											
EW1000	Construct the DN375 sewer drain within Austin Road Wes	50	29-Dec-15	29-Feb-16	03-May-16	21-Jul-16	0%	-99	663		
Test & Co	ommissioning, Statutory Inspectio	ons &	OP	1		1					
M+	3 , 1		-								
WSD (FS	Pipeworks)										
SH4200	FS - Submit Form WW046 (Part 1 & 2) to WSD (Subject to	90	02-Feb-16	01-May-16	13-Apr-16	11-Jul-16	0%	-71	384		
WSD (Plu	mbing)										
SH4260	Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Su	90	02-Feb-16	01-May-16	13-Apr-16	11-Jul-16	0%	-71	384		
Summary	y Programme										
-	ry / Pre-Construction										
BIM / CSE	· · · · · · · · · · · · · · · · · · ·										
SM0040	M+ Podium - Prepare & Submit BIM / CBWD / CBWD	171	30-Nov-15	25-Jun-16	30-Nov-15 A	27-Sep-16	0%	-77	88		
SM0060	M+ Tower - Prepare & Submit BIM / CBWD / CBWD	330	29-Mar-16	27-Apr-17	03-May-16	13-Jun-17	0%	-38	22		
SM0080	CSF Block - Prepare & Submit BIM / CBWD / CBWD	249	13-Feb-16	13-Dec-16	16-May-16	15-Mar-17	0%	-73	82		
SM0100	RDE Bldg - Prepare & Submit BIM / CBWD / CBWD	249	13-Feb-16	13-Dec-16	16-May-16	15-Mar-17	0%	-73	82		
SM0120	ICP - Prepare & Submit BIM / CBWD / CBWD	11	02-Oct-15	20-Feb-16	31-Mar-16	13-Apr-16	0%	-41	-39		ICP - Prep
SM0140	SPS - Prepare & Submit BIM / CBWD / CBWD	0	02-Oct-15	06-Feb-16	31-Mar-16	31-Mar-16	0%	-39	835		SPS - Prepare & Su
	Design / Procurement / Delivery						ļ		J		
SM0150	Award Specialist Subcontractor	0	22-Oct-15		31-Mar-16		0%	-128	835	4	Award Specialist Su
SM0150	Facade - Schematic Design	118	15-Dec-15	06-May-16		24-Mav-16		-14	10		
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51	are a ubmi	& Su t BIN	bmit 1 / C	BWD Awa	/ rd	CB Sp	WD becia	list S	ubc			SH
51	are a ubmi	& Su t BIN	bmit 1 / C	BWD Awa	/ rd	CB Sp	WD becia	list S	ubc			SH

/ ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	March 2016 28 06 13 20	April 2016
SM0180	Facade - Shop Drawings	128	05-Mar-16	06-Aug-16	05-Mar-16 A	06-Aug-16	0%	0	30		
SM0200	Facade - BD Embed Submission, consent & appvl for M+ P_{I}	422	17-Feb-16	06-Feb-17	22-Mar-16 A	06-Feb-17	0%	0	24		
SM0240	Facade - Materials Submission	216	22-Oct-15	24-Dec-16	31-Mar-16	17-Dec-16	0%	5	32		
SM0260	Facade - Visual Mock-Up (dwgs, ordering, sample, Insptn 8	168	27-Oct-15	18-May-16	18-Jan-16 A	04-Jun-16	0%	-15	9		
Structura	I Steel - Design / Procurement / Delivery										
SM0320	Award Specialist Subcontractor	0	02-Oct-15		31-Mar-16		0%	-144	74		Award Specialist St
SM0380	Steelworks - Fabrication & Delivery of Composite Column t	158	02-Mar-16	07-Jun-16	17-Feb-16 A	07-Jun-16	0%	0	2		
SM0400	Steelworks - Fabrication & Delivery of Steel Trusses to Site	238	02-Mar-16	29-Sep-16	17-Feb-16 A	06-Oct-16	0%	-5	63		
Building	Services - Design / Procurement / Delive	ry									
SM0410	Award Specialist Subcontractor	0	01-Dec-15		31-Mar-16		0%	-94	36		Award Specialist S
SM0420	Building Services - Shop Drawings & Materials Submission	231	01-Dec-15	07-Sep-16	01-Dec-15 A	24-Sep-16	0%	-14	77		
Lift and E	scalator - Design / Procurement / Delive	ry									
SM0450	Award Specialist Subcontractor	0	01-Dec-15		31-Mar-16		0%	-94	63		Award Specialist Su
SM0460	Lifts & Escalators - Shop Drawings & Materials Submission	207	01-Dec-15	10-Aug-16	01-Dec-15 A	07-Dec-16	0%	-99	101		
ABWF - I	Design / Procurement / Delivery										
SM0490	Award Specialist Subcontractor	0	30-Nov-15		31-Mar-16		0%	-95	626		Award Specialist Su
SM0500	ABWF Works - Shop Drawings & Materials Submission	237	30-Nov-15	13-Sep-16	30-Nov-15 A	01-Nov-16	0%	-39	627		
onstruc	tion										
M+ Podiu	Im & Tower										
	ation & Basement										
SM1010	Excavation & ELS Works	428	02-Nov-15	07-Mar-17	02-Nov-15 A	07-Mar-17	0%	0	6		
SM1020	Pilecaps & U/G Drainage Construction	124	09-Nov-15	30-Aug-16	04-Jan-16 A	15-Aug-16	0%	13	88		
SM1030	B2 Slab & RC Structure to B1/F	477	17-Dec-15	24-Jun-17	25-Jan-16 A	24-Jun-17	0%	0	15		
SM1040	B1 Slab & RC Structure to LG/F	202	19-Mar-16	18-Feb-17	15-Mar-16 A	03-Feb-17	0%	13	18		
SPS											
SM1465	SPS - ELS Works (Provisional)	61	11-Feb-16	26-Apr-16	31-Mar-16	14-Jun-16	0%	-39	-37		
СР											
SM1415	ICP - ELS Works	134	22-Feb-16	26-Jul-16	14-Apr-16	23-Sep-16	0%	-50	-50		✓
External					•	·	ļ				
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Lyric Theatre Complex

	NO: CC/2015/3A/014			SUN	MARY P	ROG	RAM	ME	PROG	RESS AS	OF 29-	-APR-2	2016						Pag	e 1 of 1					
		Durn. (Days)	Baseline Start	Baseline Finish	Start Date	End Date	Physical % Complete	Finish Variance	Float (Days) Jan 1	Feb Mar 2 3	Apr M 4	May Jun 5 6	2016 Jul 7	Aug Sep 8 9	Oct 10	Nov Dec 11 12	Jan 13		Mar 15	Apr M: 16 1	2017 y Jun 18	Jul 19	Aug Sep 20 21	Oct 22	No 2
	ation Works for Lyric Theatre Complex (5WRP)																								
	or Major Works																								
Pre-bored H	-Pile 1-Pile Construction																								
	Frie Construction	18	22-Feb-16	12-Mar-16	08-Mar-16 A 09	9-Mar-16 A	100%	4		· · · · · · · · · · · · · · · · · · ·															
	Predrilling; 57 nos.	71	20-Feb-16	20-May-16	01-Mar-16 A 0	3-Jun-16	80%	-12	58																
	Pre-bored H-Pile Construction; Rig 1, 131 nos	243	21-Mar-16	14-Jan-17	17-Mar-16 A 0		7.6%		-11																
	Pre-bored H-Pile Construction; Rig 2, 134 nos ng Works in Area 3 - Pre-bored H-Pile	255	23-Mar-16	03-Feb-17	30-Mar-16 A 11	1-Feb-17	8.4%	-7	-5																
	Dption Area 3 Prebored H-Pile Predrilling; 1 no.	5	19-Apr-16	25-Apr-16	25-Jul-16 2	29-Jul-16	0%	-78	12																
LT.0092	Option Area 3 Pre-bored H-Pile Construction; Rig 1, 3 nos.	14	17-Jan-17	06-Feb-17	04-Feb-17 2	1-Feb-17	0%	-13	-13		<u> </u>														
BA14 and T																									
	Submission of BA14 CA's Selection of Proof Drilling Locations	6 14	06-Mar-17 06-Feb-17	12-Mar-17 20-Feb-17	21-Mar-17 2 21-Feb-17 0	7-Mar-17	0%		-15																
	Proof Drilling	14	20-Feb-17	06-Mar-17	07-Mar-17 2	1-Mar-17	0%		-15																
LT.0097 E	3D's Selection of Test Piles	28	12-Mar-17	09-Apr-17	27-Mar-17 2	24-Apr-17	0%	-15	23																
	Load Testing and Submit Reports	42	09-Apr-17	21-May-17		5-Jun-17	0%		24												••••				
LT.0099 E	3D's Acknowledgement	45	21-May-17	05-Jul-17	05-Jun-17 2	20-Jul-17	0%	-15	23																
	Construction																								
	Predrilling; 147 nos.	125	20-Feb-16	25-Jul-16	02-Mar-16 A 24	4-Jun-16	71%	25	63			<u>}</u>													
	Bored Pile Construction; RCD Rig 1, 24 nos.	244	23-Mar-16	18-Jan-17		0-Dec-16	15%		39		/														
	Bored Pile Construction; RCD Rig 2, 27 nos. Bored Pile Construction; RCD Rig 3, 25 nos.	268 243	23-Mar-16	18-Feb-17 19-Jan-17	17-Mar-16 A 1	4-Feb-17 9-Jan-17	11% 10%	· ·	4		/														
	Bored Pile Construction; RCD Rig 3, 25 nos. Bored Pile Construction; RCD Rig 4, 26 nos.	243	30-Mar-16 30-Mar-16	23-Jan-17	24-Mar-16 A 1	8-Jan-17	10%		24																
LT.1925 E	Bored Pile Construction; RCD Rig 5, 16 nos.	200	11-Apr-16	08-Dec-16	26-Apr-16 A 24	4-Dec-16	2%	-14	42					· · · · · · · · · · · · · · · · · · ·			<u> </u>								
	Bored Pile Construction; RCD Rig 6, 14 nos.	142	02-Jul-16	17-Dec-16		7-Dec-16	0%	-	48									<u></u>)							
	Sored Pile Construction; RCD Rig 7, 15 nos. Sonic Logging and Interface Coring Test	178	15-Jul-16	18-Feb-17 04-Mar-17	14-Jul-16 10 05-Sep-16 02	6-Feb-17 2-Mar-17	0%	1	2																
	ng Works in Area 3 - Bored Pile	145	00-060-10	04-10121-17	05-566-10	2-11101-17	078	2	-										••••••						
	Dption Area 3 Bored Pile Predrilling; 1 nos.	4	25-Jul-16	29-Jul-16	25-Jul-16 2	29-Jul-16	0%	0	38										••••••						
	Option Area 3 Bored Pile Construction; RCD Rig 3, 1 no.	17	20-Jan-17	11-Feb-17	20-Jan-17 1	1-Feb-17	0%	0	6																
BA14 and T	esting Submission of BA14	0	04 Mar 47	44 May 47	00 Mar 47 0	0 May 47	00/	0																	
	3D's Selection of Test Piles	6 28	04-Mar-17 11-Mar-17	11-Mar-17 08-Apr-17	03-Mar-17 09 10-Mar-17 0	9-Mar-17)7-Apr-17	0% 0%	2	2										-	_					
	Concrete Coring Test and Submit Reports	24	08-Apr-17	12-May-17	07-Apr-17 11	1-May-17	0%	1	2																
	3D's Acknowledgement	45	12-May-17	26-Jun-17	11-May-17 2	5-Jun-17	0%	2	49																
	Submission of BA14	0	40 E-h 47	44 5-6 47	06-Feb-17 0	0 5-6 47	00/	0																	
	3D's Selection of Test Piles				10-Feb-17 0			4																	
	Concrete Coring Test and Submit Reports				23-Feb-17 1																				
	and Lateral Support																								
Pipe Pile							10001																		
	Pre-grouting Works at SeawallArea; Portion L01, M15, M16 and M39 Pre-grouting Works at Portion M14 & L05 (105nos), L07 (47nos) & L03 (17nos)	40	05-Mar-16 30-Jun-16	26-Apr-16 31-Oct-16	05-Mar-16 A 08 18-Apr-16 A 2	3-Apr-16 A 28-Jul-16		16 78	117																
	Pipe Pile Construction and Grout Curtain; 641 nos.				13-Mar-16 A 08	8-Dec-16									······································	i									
Sheet Piles	· · · · · · · · · · · · · · · · · · ·		,		, ,																		1 		
	Sheet Piles Installation in Area 6; 3,112m2	67	20-May-16	26-Sep-16	09-Jul-16 2	6-Sep-16	0%	-1	0																
BA14	Submission of BA14 for Stage 1 ELS Sheet Piling Works at Area 6	0	07 Cap 16	00 Con 10	07 Sep 16 0	R Cap 16	09/	0																	
	3D's Acknowledgement	14	27-Sep-16 28-Sep-16	12-Oct-16		8-Sep-16 2-Oct-16	0% 0%	0							-										
	Submission of BA14 for Stage 1 ELS Sheet Piling Works at Area 1 to 5	2	10-Dec-16	12-Dec-16				1							- <u>-</u>	•			••••••						
	3D's Acknowledgement	14	12-Dec-16	26-Dec-16	10-Dec-16 24	4-Dec-16	0%	2	48																
Pumping Te	est nstall Area 1 to Area 5 Pumping Test Instrumentation & Wells (14 PW + 28 OW) and Submission of Initial Readir	00	Of New 16	15-Dec-16	11-Nov-16 06	6-Dec-16	0%	0	E1		\ .														
	Carry Out Pumping Test in Area 1 to Area 5 and Submission to BD		21-Nov-16 26-Dec-16			9-Jan-17	0%	8			·····/						· 📥 · · · · ·								
LT.0133 0	Dbtain BD's Acknowledgement of Area 1 to 5 Pumping Test Results	14	11-Jan-17	25-Jan-17	09-Jan-17 2	3-Jan-17	0%	2	48	1													+		
	nstall Area 6 Pumping Test Instrumentation & Wells (3 PW + 6 OW) and Submission of Initial Readings	21	02-Nov-16	26-Nov-16		6-Nov-16	0%		60																
	Carry Out Pumping Test in Area 6 and submission to BD Dbtain BD's Acknowledgement of Area 6 Pumping Test Results	16		08-Feb-17 22-Feb-17	18-Jan-17 03 03-Feb-17 1			5 5]														·
	ge 2 ELS and Excavation Works at Area 6	14	00100-17	22100-17			576	5																	
	Bulk Excavation and Installation of Struts	101	26-Apr-17	26-Aug-17	22-Apr-17 2	3-Aug-17	0%	2	3																
	Frim Pile Head and Clearance	28	26-Aug-17	27-Sep-17	23-Aug-17 2	5-Sep-17	0%	2	14															•	
	ption Stage 2 ELS and Excavation Works at Area 6	0	26 4 17	20 4 47	05 Aug 17	6 Aura 17	00/	4																	
	Submission of BA14 for Stage 2 ELS and Excavation Works at Area 6 3D's Acknowledgement		-	-	25-Aug-17 20 27-Aug-17 10					-+	<mark> </mark>														
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Critic	cal Remaining Work				RAMME BA						100		[i	an	nn	nr	٦M								
▼ ivines	CONS	STRU	ICTION	WORKS	PROGRA	ммЕ -	REV.	0						-											

Project Baseline Bar	WEST KOWLOON CULTURAL DISTRICT AUTHORITY	
Actual Work	FOUNDATION WORKS FOR LYRIC THEATRE COMPLEX	
Remaining Work	AND THE EXTENDED BASEMENT IN ZONE 3B	
Critical Remaining Work	SUMAMRY PROGRAMME BASED ON	Gamman
♦ ♦ Milestone	CONSTRUCTION WORKS PROGRAMME - REV. "0"	Gammo

Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (February 2016- April 2016)



Appendix C. Environmental Mitigation Measures – Implementation Status

363512/ENP/ENL/05/03/1 May 2016

Table C-1:	Environmental M	<i>Aitigation Measures</i>	Implementation Status

		Implementation Stage									
EM&A Ref.	Recommendation Measures		M+ Museur	n	Lyric	Theatre Co	mplex				
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016				
Air Qualit	y Impact (Construction)										
2.1 &	General Dust Control Measures										
10.3.1	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)	✓	Rem	~	N/A	✓	~				
2.1 &	Best Practice For Dust Control										
10.3.1	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:										
	Good Site Management										
	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.	Obs/ Rem	v	Obs	N/A	Obs	V				
	Disturbed Parts of the Roads										
	 Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 	\checkmark	\checkmark	✓	N/A	✓	\checkmark				
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓	1								
	Exposed Earth	÷	V	✓	N/A	Rem	v				
	 Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating 										

	Implementation St									
EM&A Ref.	Recommendation Measures		M+ Museum			Theatre Co	omplex			
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016			
	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.	N/A	N/A	N/A	N/A	N/A	N/A			
	Loading, Unloading or Transfer of Dusty Materials									
	 All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓	✓	~	N/A	✓	\checkmark			
	Debris Handling									
	 Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	√	✓	~	N/A	✓	\checkmark			
	 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 									
	Transport of Dusty Materials	\checkmark	\checkmark	\checkmark	N/A	\checkmark	\checkmark			
	 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. 	√	✓	~	N/A	✓	\checkmark			
	Wheel washing									
	 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. 	\checkmark	~	√	N/A	~	~			
	Use of vehicles									
	 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. 	\checkmark	✓	~	N/A	✓	\checkmark			
	 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	\checkmark	✓	\checkmark	N/A	✓	\checkmark			
	 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. 	✓	\checkmark	\checkmark	N/A	\checkmark	\checkmark			
	Site hoarding									
	 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 	\checkmark	\checkmark	~	N/A	\checkmark	\checkmark			

		Implementation Stage									
EM&A Ref.	Recommendation Measures		M+ Museu	m	Lyric	Theatre Co	mplex				
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016				
	the site boundary except for a site entrance or exit.										
2.1 &	Best Practicable Means for Cement Works (Concrete Batching Plant)										
10.3.1	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:										
	Exhaust from Dust Arrestment Plant										
	 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 	~	✓	\checkmark	N/A	~	\checkmark				
	Emission Limits										
	 All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	~	\checkmark	\checkmark	N/A	~	~				
	Engineering Design/Technical Requirements										
	 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 	~	\checkmark	\checkmark	N/A	~	~				
-	Non-Road Mobile Machinery (NRMM):										
	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.	\checkmark	✓	√	N/A	Rem	√				
Noise Im	pact (Construction)										
3.1 & 10.4.1	Good Site Practice 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:										
	 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	\checkmark	\checkmark	\checkmark	N/A	\checkmark	Rem				
	 machines and plant that may be in intermittent use to be shut down between work periods or should be 	✓	✓	✓	N/A	✓	✓				

		Implementation Stage								
EM&A Ref.	Recommendation Measures		M+ Museur	n	Lyric	Theatre Co	mplex			
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016			
	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; 	~	\checkmark	~	N/A	~	\checkmark			
	 mobile plant should be sited as far away from NSRs as possible; and 	✓	✓	✓	N/A	✓	✓			
	 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓	v	N/A	~	√			
3.1 &	Adoption of Quieter PME									
10.4.1	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.	N/A	N/A	N/A	N/A	N/A	N/A			
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.	~	✓	~	N/A	~	✓			
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	N/A	N/A	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.	~	~	~	N/A	~	✓			
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	N/A	N/A	N/A	N/A			
Water Qu	ality Impact (Construction)									
4.1 &	Construction site runoff and drainage									

		Implementation Stage									
EM&A Ref.	Recommendation Measures		M+ Museum			Theatre Co	mplex				
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016				
10.5.1	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:										
	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;	Obs/ Rem	Obs	~	N/A	~	✓				
	 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. 	✓	~	~	N/A	1	Rem				
	 All drainage facilities and erosion and sediment control structures should be regularly inspected and 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. 	✓	✓	Rem	N/A	~	Rem				
	 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. 	✓	~	~	N/A	✓	\checkmark				
	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.	✓	Obs	~	N/A	Rem	✓				
	 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 	Obs/ Rem	\checkmark	~	N/A	Obs	\checkmark				

		Implementation Stage									
EM&A Ref.	Recommendation Measures		M+ Museum			Theatre Co	mplex				
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016				
	materials, soil, silt or debris into any drainage system.										
	 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. 	,	,	,	N/A	,	/				
	 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. 	Ŷ	×	×		v	Ý				
	 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	✓ N/A	N/A N/A	✓ N/A	V/A				
	Barging facilities and activities	19/73	19/73	19/73		11/73	19/73				
	Recommendations for good site practices during operation of the proposed barging point include:										
	 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	N/A	N/A	N/A	N/A				
	 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 materials or polluted water during loading or transportation; 	N/A	N/A	N/A	N/A	N/A	N/A				
	 All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 	N/A	N/A	N/A	N/A	N/A	N/A				
	 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	N/A	N/A				
4.1 &	Sewage effluent from construction workforce										
10.5.1	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.	✓	✓	✓	N/A	✓	✓				

				Implement	ation Stage	•	
10.5.1	Recommendation Measures		M+ Museur	n	Lyric	Theatre Co	omplex
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016
4.1 &	General construction activities						
10.5.1	 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. 	Obs/ Rem	√	√	N/A	Obs	~
	 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	Obs	Obs	N/A	Obs	Obs/ Rem
Waste Ma	anagement Implications (Construction)						
6.1 &	Good Site Practices						
10.7.1	Recommendations for good site practices during the construction activities include:						
	 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	√	✓	✓	N/A	√	~
	 Training of site personnel in proper waste management and chemical handling procedures 				N/A		
	 Provision of sufficient waste disposal points and regular collection of waste 	•	• •	·	N/A	• •	· ·
	 Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	√	\checkmark	\checkmark	N/A	√	\checkmark
	 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads 	\checkmark	\checkmark	\checkmark	N/A	\checkmark	\checkmark
	 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 	~	\checkmark	\checkmark	N/A	\checkmark	~
	Waste Reduction Measures						
10.7.1	Recommendations to achieve waste reduction include:						
	 Sort inert C&D material to recover any recyclable portions such as metals 	\checkmark	\checkmark	\checkmark	N/A	\checkmark	\checkmark
	 Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	~	\checkmark	\checkmark	N/A	\checkmark	~

		Implementation Stage									
EM&A Ref.	Recommendation Measures		M+ Museur	n	Lyric	Theatre Co	mplex				
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016				
	 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 	√	√	√	N/A	√	√				
	 Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	1	1	✓	N/A	1	1				
	 Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste 	√ √	√	√	N/A N/A	√ √	√ √				
6.1 &	Inert and Non-inert C&D Materials										
10.7.1	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.	~	✓	✓	N/A	~	~				
	 The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. 	\checkmark	\checkmark	\checkmark	N/A	\checkmark	~				
	 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. 	✓	~	~	N/A	~	~				
	 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. 	~	✓	✓	N/A	~	~				
	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.	✓	*	*	N/A	V	¥				
6.1 &	Chemical Waste										
10.7.1	If chemical wastes are produced at the construction site, the Contractor will be required to register with the										

		Implementation Stage					
EM&A Ref.	Recommendation Measures	M+ Museum			Lyric Theatre Complex		
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016
	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 waste at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Obs	V	Obs	N/A	*	Obs
	 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	√	N/A	Obs	\checkmark
6.1 &	General Refuse						
10.7.1	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.	~	~	~	N/A	~	✓
Land C	Contamination (Construction)						
7.1 & 10.8.1	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.						
	The following measures are proposed for excavation and transportation of contaminated material:						
	 To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 	N/A	N/A	N/A	N/A	N/A	N/A
	 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; 	N/A	N/A	N/A	N/A	N/A	N/A

	Recommendation Measures	Implementation Stage						
EM&A Ref.		M+ Museum			Lyric Theatre Complex			
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016	
	 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	
	 The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 	N/A	N/A	N/A	N/A	N/A	N/A	
	 Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 	N/A	N/A	N/A	N/A	N/A	N/A	
	 Truck bodies and tailgates should be sealed to stop any discharge; 	N/A	N/A	N/A	N/A	N/A	N/A	
	 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; 	N/A	N/A	N/A	N/A	N/A	N/A	
	 Speed control for trucks carrying contaminated materials should be exercised; 	N/A	N/A	N/A	N/A	N/A	N/A	
	 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 	N/A	N/A	N/A	N/A	N/A	N/A	
	 Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A	N/A	N/A	N/A	
Ecological	I Impact (Construction)							
	No mitigation measure is required.							
Landscape	e 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	N/A	N/A	N/A	N/A	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	N/A	N/A	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	N/A	N/A	N/A	N/A	

	Recommendation Measures	Implementation Stage							
EM&A Ref.		M+ Museum			Lyric Theatre Complex				
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016		
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	N/A	N/A	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	N/A	N/A	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	N/A	N/A	N/A	N/A		
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A	N/A	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	N/A	N/A	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	N/A	N/A	N/A	N/A		
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	√	~	~	N/A	~	\checkmark		
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A		
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	✓	✓	~	N/A	✓	✓		

EM&A Ref.	Recommendation Measures	Implementation Stage						
		M+ Museum			Lyric Theatre Complex			
		Feb 2016	Mar 2016	Apr 2016	Feb 2016	Mar 2016	Apr 2016	
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	N/A	N/A	N/A	

N/A - Not Applicable

- ✓ Implemented
- Obs Observed
- Rem Reminder

Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (February 2016- April 2016)



Appendix D. Meteorological Data Extracted from Hong Kong Observatory

14 363512/ENP/ENL/05/03/1 May 2016

\\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\03 Quarterly EM&A Summary Report\(2) Quarterly EM&A Report (Feb 16- Apr 16)\Rev.1\Quarterly EM&A Report (Feb16-Apr16)_v1.docx

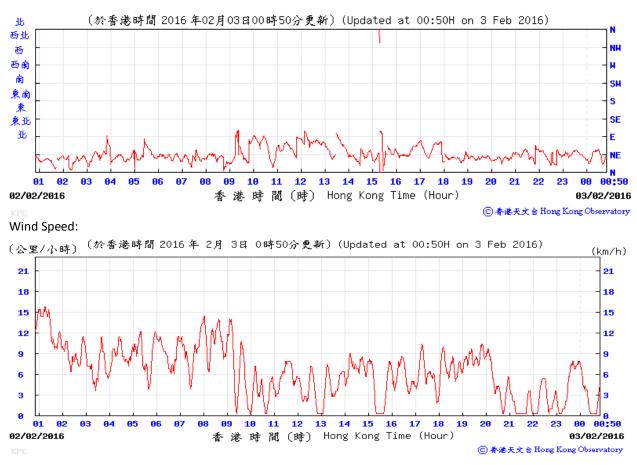
Table D-1: Extract of Meteorological Observations for King's Park Automatic Weather Station in the reporting quarter

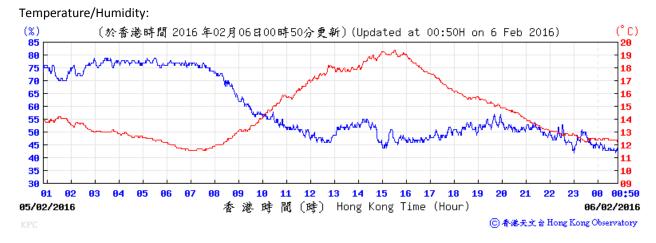


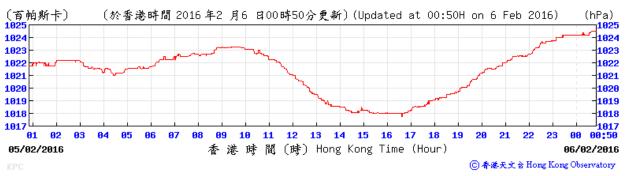
Temperature/Humidity:

Pressure:

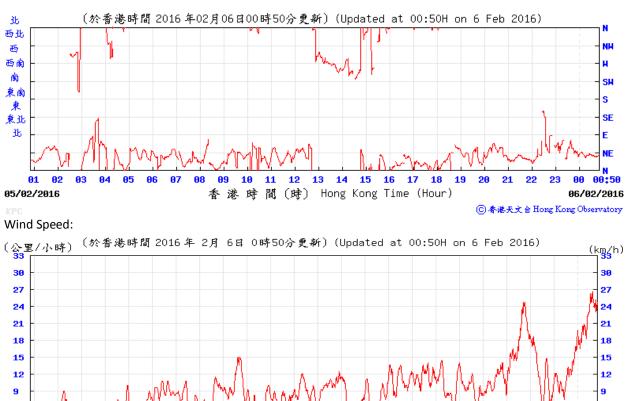




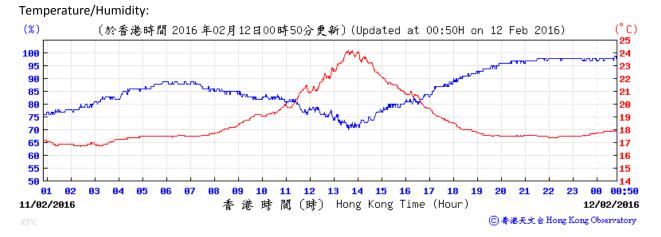




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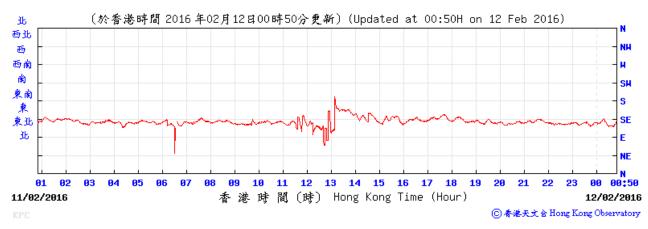


з з Ø 12 13 16 17 00 00:50 05/02/2016 香港時間(時) Hong Kong Time (Hour) 06/02/2016 © 春港天文 含 Hong Kong Observatory

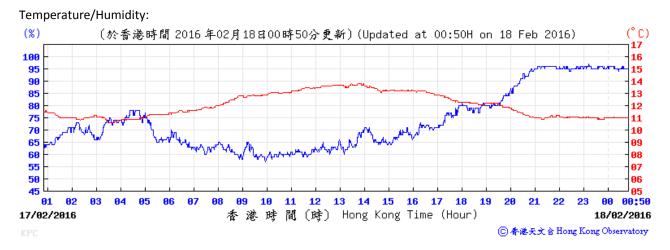




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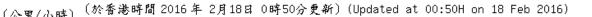


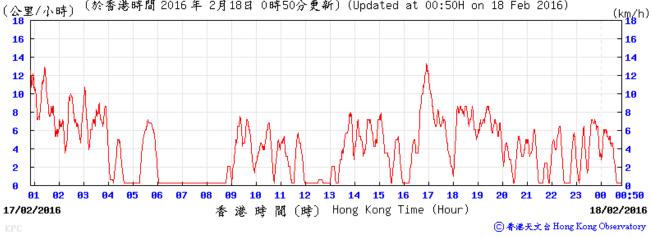




Wind Direction:

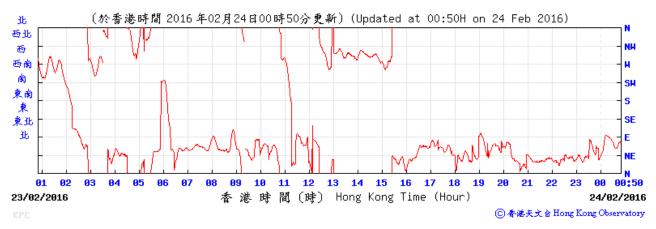








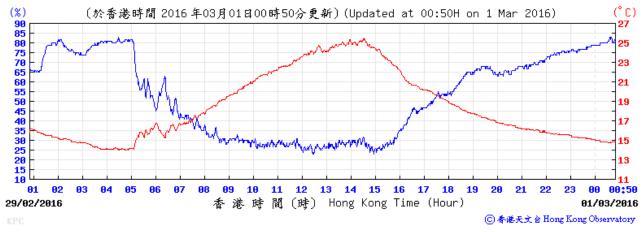






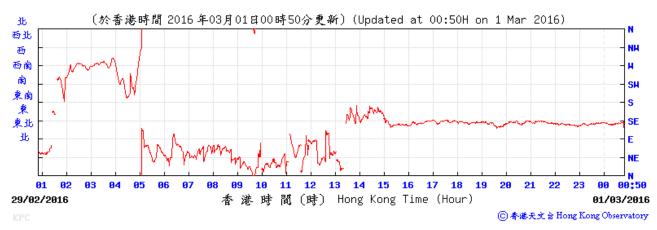






Pressure: (百帕斯卡) 1827 (於香港時間 2016 年3 月1 日00時50分更新)(Updated at 00:50H on 1 Mar 2016) (hPa) 10 11 12 13 14 15 16 17 18 00:50 香 港 時 閬 (時) Hong Kong Time (Hour) 01/03/2016 29/02/2016 ⓒ 香港天文 含 Hong Kong Observatory

Wind Direction:



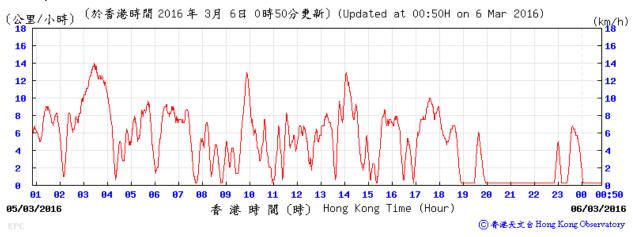


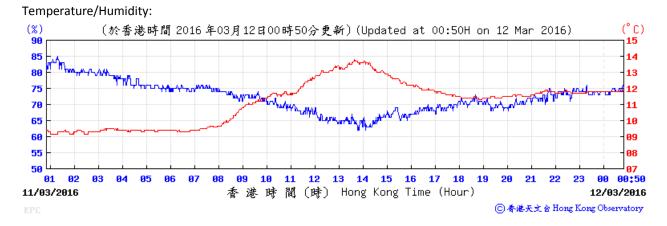






Wind Speed:



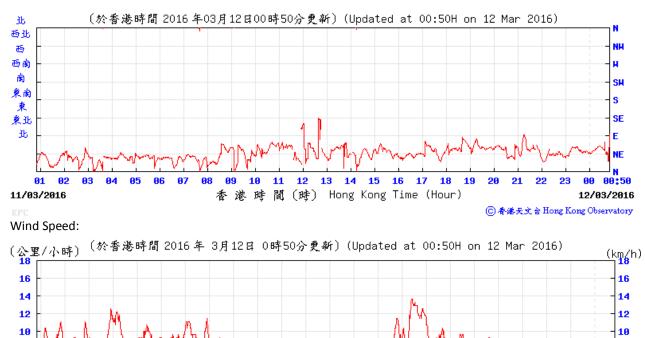




Wind Direction:

11/03/2016

AA



香港時間(時) Hong Kong Time (Hour)

00:50

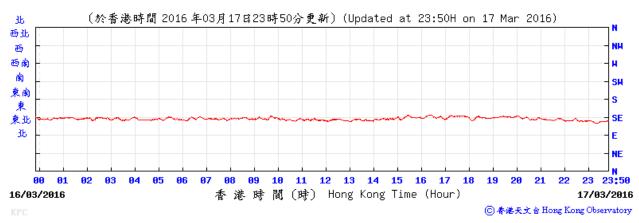
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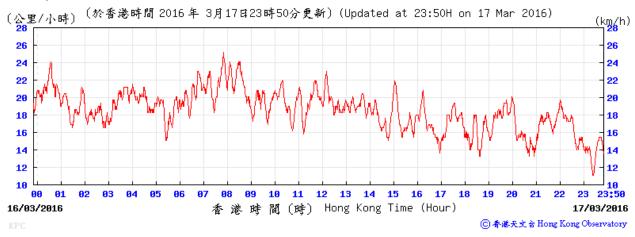
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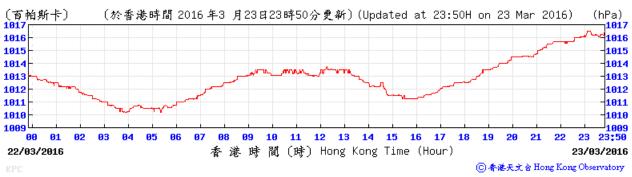


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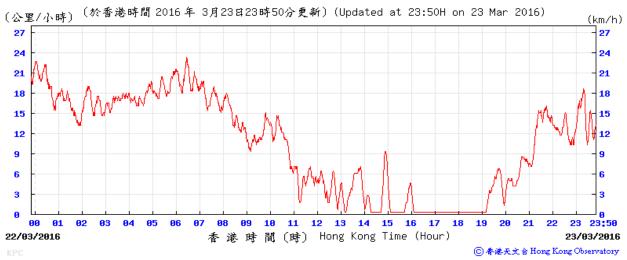






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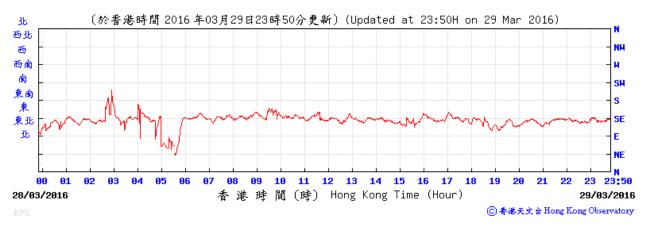


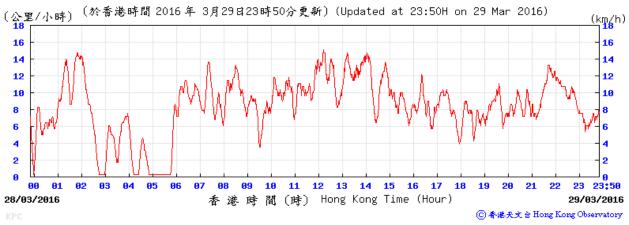




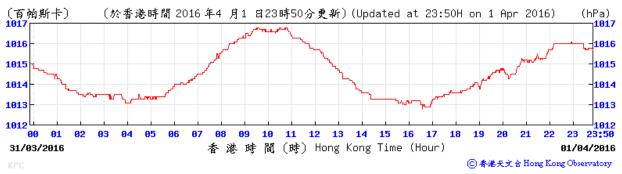


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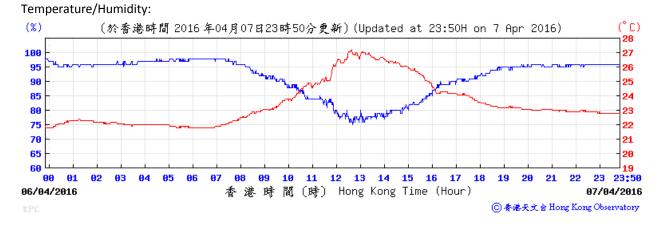






Wind Speed:

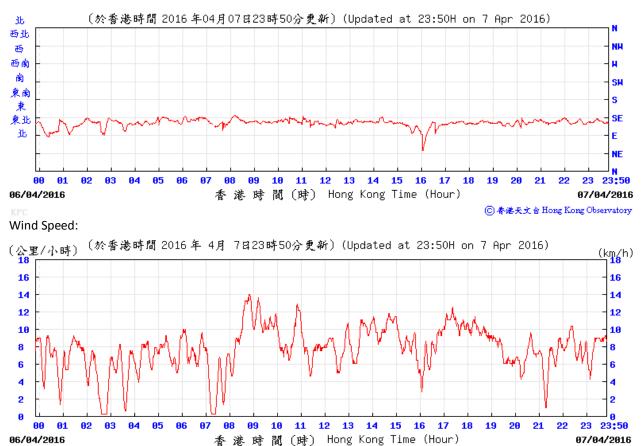




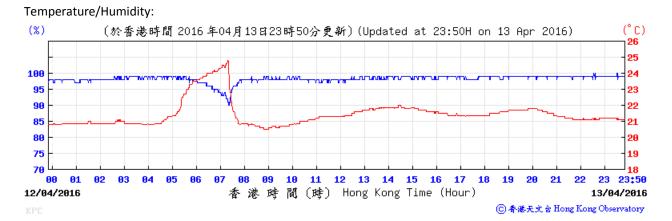
Pressure:







ⓒ 香港天文 含 Hong Kong Observatory



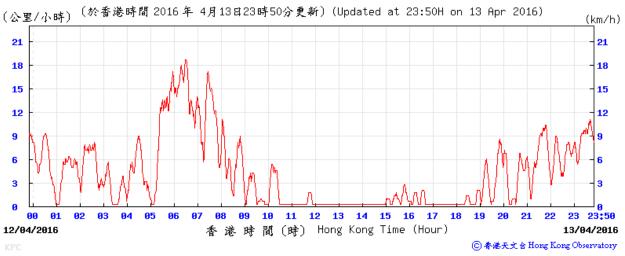
Pressure:



Wind Direction:









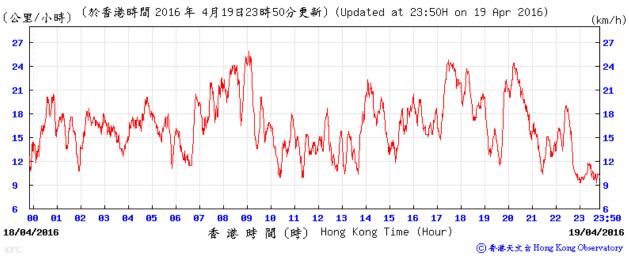
Pressure:



Wind Direction:



Wind Speed:

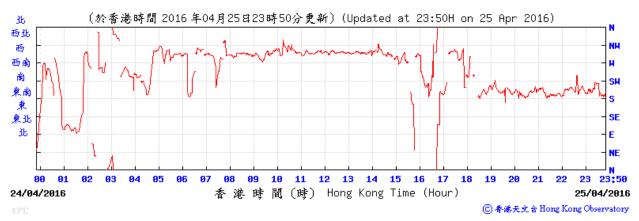




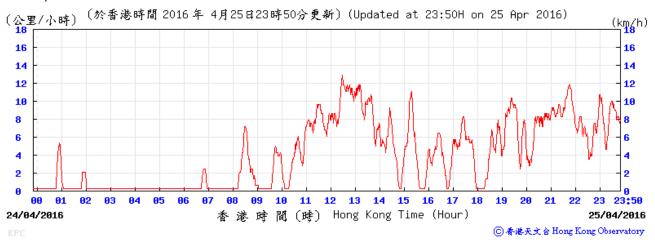
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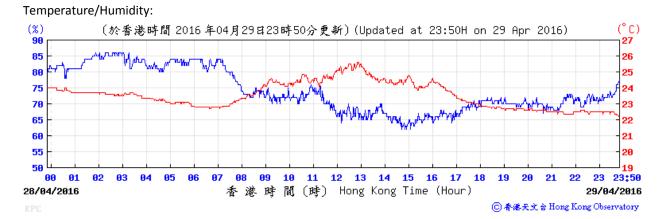


Wind Direction:



Wind Speed:

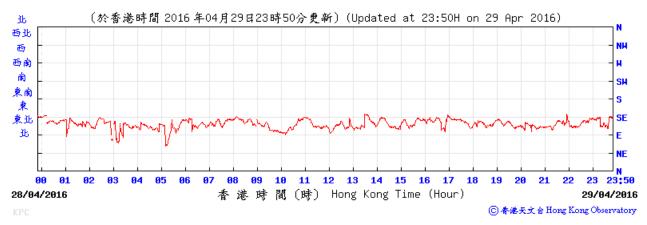




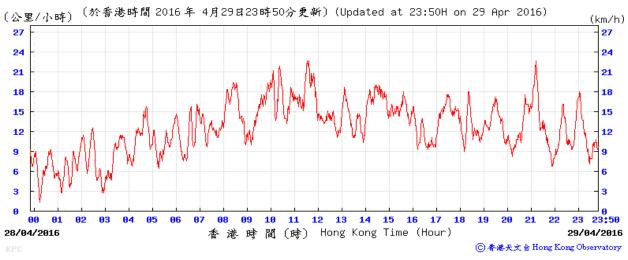
Pressure:



Wind Direction:



Wind Speed:



Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (February 2016- April 2016)



Appendix E. Graphical Plots of the Monitoring Results

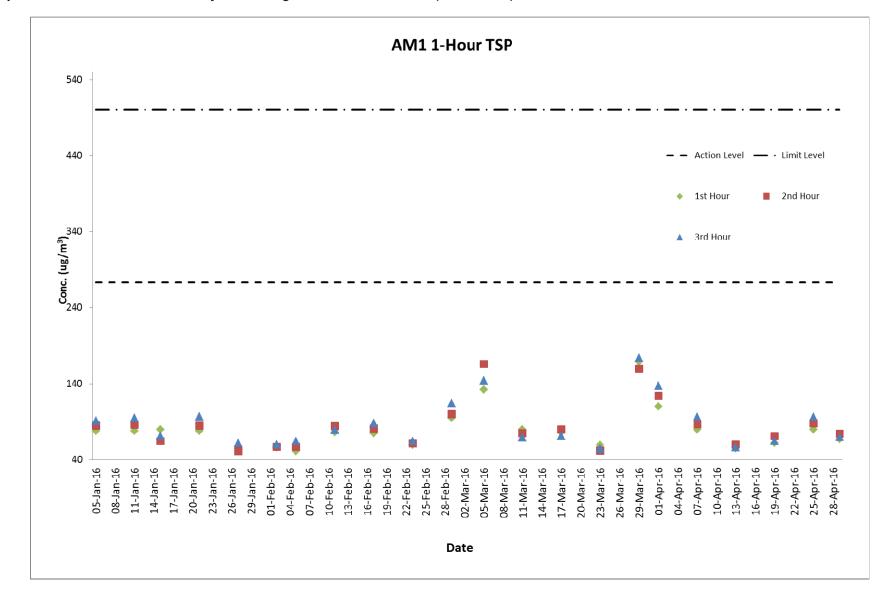
363512/ENP/ENL/05/03/1 May 2016 \mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\03 Quarterly EM&A

Summary Report/(2) Quarterly EM&A Report (Feb 16- Apr 16)/Rev.1/Quarterly EM&A Report (Feb16-Apr16)_v1.docx

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	Weather		C	onc. (µg/m	Action Level	Limit Level	
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(µg/m³)
05-Jan-16	Cloudy	10:30 - 15:00	78	85	91	273.7	500
11-Jan-16	Fine	10:20 - 15:00	78	86	95	273.7	500
15-Jan-16	Rainy	8:00 - 12:00	80	64	71	273.7	500
21-Jan-16	Rainy	10:30 - 16:00	78	85	97	273.7	500
27-Jan-16	Rainy	10:43 - 16:00	55	51	62	273.7	500
02-Feb-16	Cloudy	10:50 - 16:00	56	57	60	273.7	500
05-Feb-16	Sunny	8:00 - 11:00	51	57	64	273.7	500
11-Feb-16	Fine	10:40 - 16:00	76	84	79	273.7	500
17-Feb-16	Cloudy	10:52 - 16:00	75	81	88	273.7	500
23-Feb-16	Cloudy	10:52 - 16:00	59	61	64	273.7	500
29-Feb-16	Sunny	10:36 - 16:00	95	100	114	273.7	500
05-Mar-16	Cloudy	8:00 - 11:00	132	166	144	273.7	500
11-Mar-16	Cloudy	10:50 - 15:00	80	75	69	273.7	500
17-Mar-16	Cloudy	10:45 - 16:00	76	80	71	273.7	500
23-Mar-16	Cloudy	10:48 - 15:00	59	52	54	273.7	500
29-Mar-16	Fine	10:40 - 15:00	169	160	174	273.7	500
01-Apr-16	Cloudy	8:02 - 11:02	110	124	137	273.7	500
07-Apr-16	Cloudy	10:50 - 16:00	80	87	96	273.7	500
13-Apr-16	Cloudy	14:00 - 17:00	55	60	56	273.7	500
19-Apr-16	Cloudy	10:50 - 16:00	62	71	64	273.7	500
25-Apr-16	Fine	10:42 - 16:00	80	88	96	273.7	500
29-Apr-16	Cloudy	8:02 - 11:02	67	74	70	273.7	500

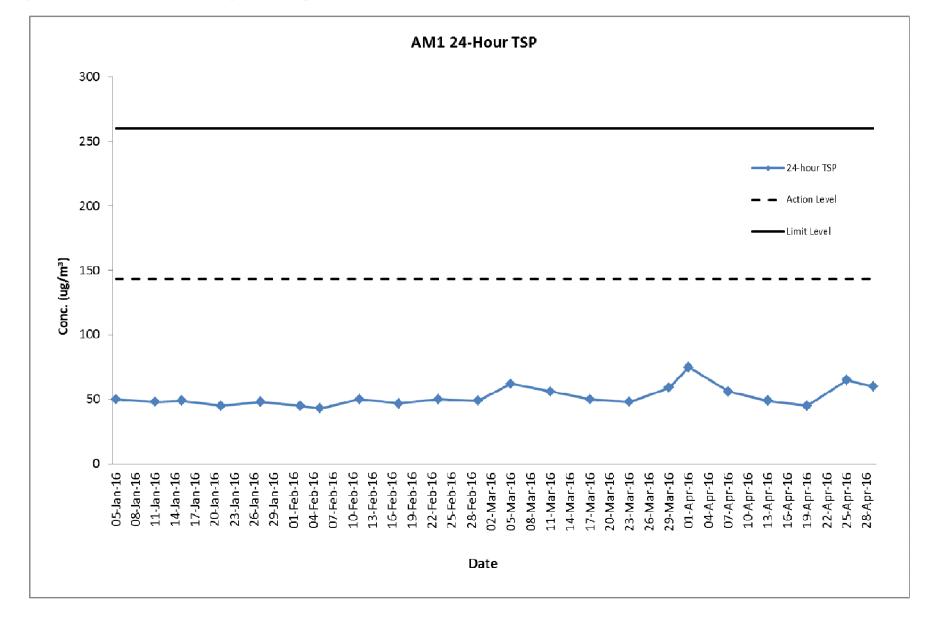
Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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

Sta	rt	Finis	sh	Filter W	eight (g)	Rea	ding	Sampling	How Rate (m ³ /min)		min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
05-Jan-16	10:33	06-Jan-16	10:33	2.8086	2.8966	18912.38	18936.38	24	1.23	1.23	1.23	50	Cloudy	143.6	260
11-Jan-16	10:22	12-Jan-16	10:22	2.8055	2.89	18936.38	18960.38	24	1.23	1.23	1.23	48	Fine	143.6	260
15-Jan-16	08:02	16-Jan-16	08:02	2.8145	2.9007	18960.38	18984.38	24	1.23	1.23	1.23	49	Rainy	143.6	260
21-Jan-16	10:28	22-Jan-16	10:28	2.7819	2.861	18984.38	19008.38	24	1.23	1.23	1.23	45	Cloudy	143.6	260
27-Jan-16	10:45	28-Jan-16	10:45	2.7785	2.864	19008.38	19032.38	24	1.23	1.23	1.23	48	Rainy	143.6	260
02-Feb-16	10:48	03-Feb-16	10:48	2.7543	2.8337	19032.38	19056.38	24	1.23	1.23	1.23	45	Cloudy	143.6	260
05-Feb-16	08:02	06-Feb-16	08:02	2.7683	2.844	19056.38	19080.38	24	1.23	1.23	1.23	43	Sunny	143.6	260
11-Feb-16	10:42	12-Feb-16	10:42	2.7511	2.8399	19080.38	19104.38	24	1.23	1.23	1.23	50	Fine	143.6	260
17-Feb-16	10:50	18-Feb-16	10:50	2.8561	2.9401	19104.38	19128.38	24	1.25	1.25	1.25	47	Cloudy	143.6	260
23-Feb-16	10:50	24-Feb-16	10:50	2.8215	2.9119	19128.38	19152.38	24	1.25	1.25	1.25	50	Cloudy	143.6	260
29-Feb-16	10:38	01-Mar-16	10:38	2.789	2.877	19152.38	19176.38	24	1.25	1.25	1.25	49	Sunny	143.6	260
05-Mar-16	08:02	06-Mar-16	08:02	2.7767	2.888	19176.38	19200.38	24	1.25	1.25	1.25	62	Cloudy	143.6	260
11-Mar-16	10:48	12-Mar-16	10:48	2.7895	2.8911	19200.38	19224.38	24	1.25	1.25	1.25	56	Cloudy	143.6	260
17-Mar-16	10:43	18-Mar-16	10:43	2.8007	2.8911	19224.38	19248.38	24	1.25	1.25	1.25	50	Cloudy	143.6	260
23-Mar-16	10:50	24-Mar-16	10:50	2.7907	2.8779	19248.38	19272.38	24	1.25	1.25	1.25	48	Cloudy	143.6	260
29-Mar-16	10:42	30-Mar-16	10:42	2.7842	2.8911	19272.38	19296.38	24	1.25	1.25	1.25	59	Fine	143.6	260
01-Apr-16	08:00	02-Apr-16	08:00	2.7801	2.9142	19296.38	19320.38	24	1.25	1.25	1.25	75	Cloudy	143.6	260
07-Apr-16	10:48	08-Apr-16	10:48	2.7732	2.8738	19320.38	19344.38	24	1.25	1.25	1.25	56	Cloudy	143.6	260
13-Apr-16	14:02	14-Apr-16	14:02	2.812	2.9009	19344.38	19368.38	24	1.25	1.25	1.25	49	Rainy	143.6	260
19-Apr-16	10:47	20-Apr-16	10:47	2.8023	2.88	19368.38	19392.38	24	1.2	1.2	1.2	45	Cloudy	143.6	260
25-Apr-16	10:40	26-Apr-16	10:40	2.7879	2.9	19392.38	19416.38	24	1.2	1.2	1.2	65	Fine	143.6	260
29-Apr-16	08:00	30-Apr-16	08:00	2.8072	2.911	19416.38	19440.38	24	1.2	1.2	1.2	60	Cloudy	143.6	260

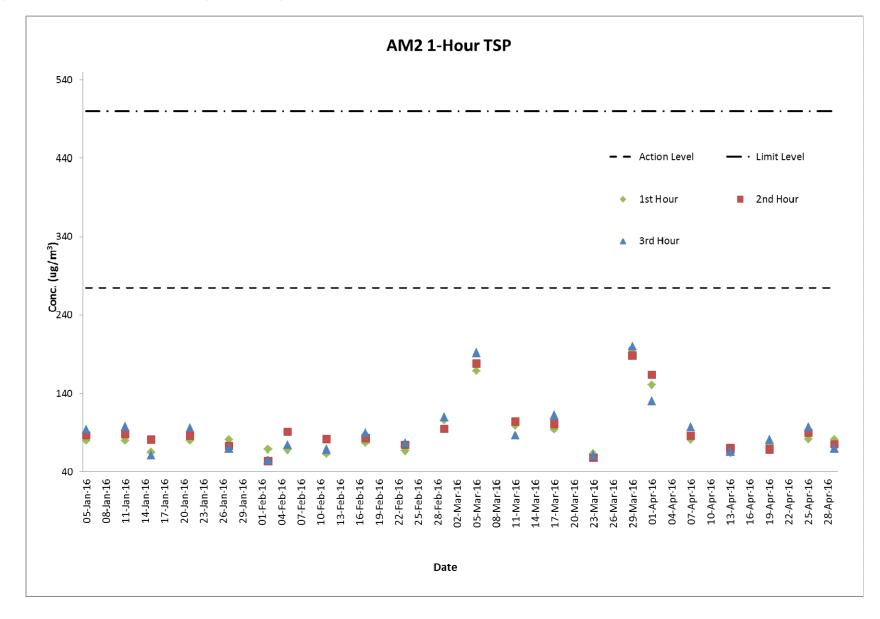
Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

	Weather		Conc. (μg/m³)			Action Level	Limit Level
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(µg/m³)
05-Jan-16	Cloudy	10:45 - 15:10	80	87	94	274.2	500
11-Jan-16	Fine	10:32 - 15:10	80	88	98	274.2	500
15-Jan-16	Rainy	8:12 - 15:10	65	81	61	274.2	500
21-Jan-16	Cloudy	10:40 - 16:10	80	86	96	274.2	500
27-Jan-16	Rainy	10:55 - 16:10	81	73	70	274.2	500
02-Feb-16	Cloudy	10:58 - 16:10	69	54	55	274.2	500
05-Feb-16	Sunny	8:10 - 11:10	68	91	74	274.2	500
11-Feb-16	Fine	10:47 - 16:10	63	82	69	274.2	500
17-Feb-16	Cloudy	11:02 - 16:10	77	83	90	274.2	500
23-Feb-16	Cloudy	11:00 - 16:10	67	74	77	274.2	500
29-Feb-16	Sunny	10:46 - 16:10	106	95	110	274.2	500
05-Mar-16	Cloudy	8:10 - 11:10	169	178	192	274.2	500
11-Mar-16	Cloudy	11:00 - 15:10	99	104	87	274.2	500
17-Mar-16	Cloudy	10:53 - 16:10	94	101	112	274.2	500
23-Mar-16	Cloudy	11:00 - 15:10	63	58	61	274.2	500
29-Mar-16	Fine	10:52 - 16:10	192	188	200	274.2	500
01-Apr-16	Cloudy	8:15 - 11:15	151	164	130	274.2	500
07-Apr-16	Cloudy	11:00 - 16:10	81	86	97	274.2	500
13-Apr-16	Cloudy	14:10 - 17:10	64	70	66	274.2	500
19-Apr-16	Cloudy	11:00 - 16:10	74	69	81	274.2	500
25-Apr-16	Fine	10:52 - 16:10	82	90	97	274.2	500
29-Apr-16	Cloudy	8:10 - 11:10	81	75	70	274.2	500

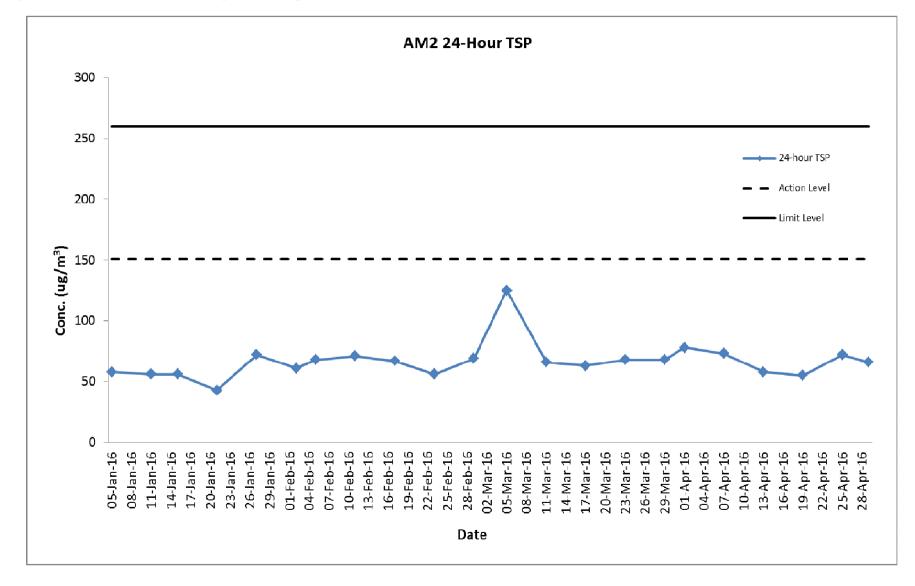
Air Quality Monitoring Result at Station AM2 (1-hour TSP)



Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)

Sta	rt	Finis	sh	Filter W	eight (g)	Rea	ding	Sampling	Flov	w Rate (m ³ /	min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
05-Jan-16	10:43	06-Jan-16	10:43	2.8033	2.906	14615.59	14639.59	24	1.24	1.24	1.24	58	Cloudy	151.1	260
11-Jan-16	10:36	12-Jan-16	10:36	2.7999	2.9001	14639.59	14663.59	24	1.24	1.24	1.24	56	Fine	151.1	260
15-Jan-16	08:15	16-Jan-16	08:15	2.8097	2.91	14663.59	14687.59	24	1.24	1.24	1.24	56	Rainy	151.1	260
21-Jan-16	10:38	22-Jan-16	10:38	2.7888	2.8664	14687.59	14711.59	24	1.24	1.24	1.24	43	Cloudy	151.1	260
27-Jan-16	10:58	28-Jan-16	10:58	2.7599	2.8893	14711.59	14735.59	24	1.24	1.24	1.24	72	Rainy	151.1	260
02-Feb-16	11:00	03-Feb-16	11:00	2.7676	2.8771	14735.59	14759.59	24	1.24	1.24	1.24	61	Cloudy	151.1	260
05-Feb-16	08:14	06-Feb-16	08:14	2.757	2.8779	14759.59	14783.59	24	1.24	1.24	1.24	68	Sunny	151.1	260
11-Feb-16	10:50	12-Feb-16	10:50	2.7554	2.8827	14783.59	14807.59	24	1.24	1.24	1.24	71	Fine	151.1	260
17-Feb-16	11:05	18-Feb-16	11:05	2.8375	2.9532	14807.59	14831.59	24	1.2	1.2	1.2	67	Cloudy	151.1	260
23-Feb-16	11:03	24-Feb-16	11:03	2.8233	2.92	14831.59	14855.59	24	1.2	1.2	1.2	56	Cloudy	151.1	260
29-Feb-16	10:50	01-Mar-16	10:50	2.7852	2.9038	14855.59	14879.59	24	1.2	1.2	1.2	69	Sunny	151.1	260
05-Mar-16	08:13	06-Mar-16	08:13	2.789	3.0048	14879.59	14903.59	24	1.2	1.2	1.2	125	Cloudy	151.1	260
11-Mar-16	11:03	12-Mar-16	11:03	2.7865	2.9009	14903.59	14927.59	24	1.2	1.2	1.2	66	Cloudy	151.1	260
17-Mar-16	10:56	18-Mar-16	10:56	2.822	2.93	14927.59	14951.59	24	1.2	1.2	1.2	63	Cloudy	151.1	260
23-Mar-16	11:05	24-Mar-16	11:05	2.7742	2.8911	14951.59	14975.59	24	1.2	1.2	1.2	68	Cloudy	151.1	260
29-Mar-16	10:55	30-Mar-16	10:55	2.7829	2.9009	14975.59	14999.59	24	1.2	1.2	1.2	68	Fine	151.1	260
01-Apr-16	08:12	02-Apr-16	08:12	2.7811	2.9159	14999.59	15023.59	24	1.2	1.2	1.2	78	Cloudy	151.1	260
07-Apr-16	11:02	08-Apr-16	11:02	2.8063	2.9329	15023.59	15047.59	24	1.2	1.2	1.2	73	Cloudy	151.1	260
13-Apr-16	14:12	14-Apr-16	14:12	2.7986	2.8991	15047.59	15071.59	24	1.2	1.2	1.2	58	Rainy	151.1	260
19-Apr-16	11:05	20-Apr-16	11:05	2.8127	2.911	15071.59	15095.59	24	1.25	1.25	1.25	55	Cloudy	151.1	260
25-Apr-16	10:54	26-Apr-16	10:54	2.7999	2.9287	15095.59	15119.59	24	1.25	1.25	1.25	72	Fine	151.1	260
29-Apr-16	08:07	30-Apr-16	08:07	2.8101	2.9292	15119.59	15143.59	24	1.25	1.25	1.25	66	Cloudy	151.1	260

Air Quality Monitoring Result at Station AM2 (24-hour TSP)



Graphical Presentation of Air Quality Monitoring Result at Station AM2 (24-hour TSP)

Noise Monitoring Result at Station NM1A

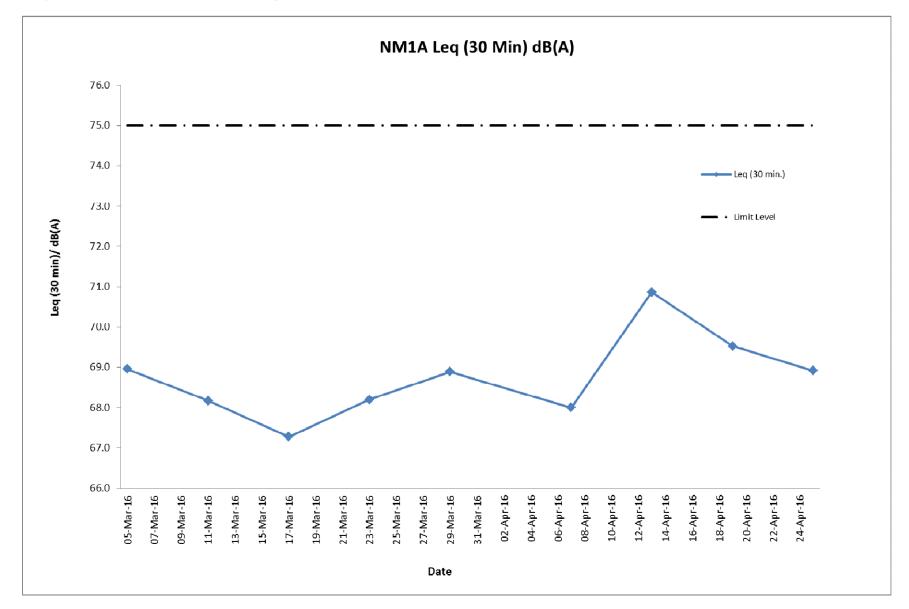
Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
05-Mar-16	09:17	68.2	62.3	
05-Mar-16	09:22	68.5	62.3	
05-Mar-16	09:27	67.6	62.2	CO O
05-Mar-16	09:32	68.6	63.6	69.0
05-Mar-16	09:37	68.8	62.7	
05-Mar-16	09:42	68.7	63.5	
11-Mar-16	15:50	68	63.4	
11-Mar-16	15:55	67.9	62.4	
11-Mar-16	16:00	67.5	62	
11-Mar-16	16:05	67.9	62.7	68.2
11-Mar-16	16:10	67.7	63.5	
11-Mar-16	16:15	67.4	62.9	
17-Mar-16	13:00	64.9	60.9	
17-Mar-16	13:05	66.2	61.1	
17-Mar-16	13:10	66.8	62.4	
17-Mar-16	13:15	66.7	61.9	67.3
17-Mar-16	13:20	66.9	62.4	
17-Mar-16	13:25	67.2	63.9	
23-Mar-16	15:50	66.9	62.5	
23-Mar-16	15:55	67.7	63.3	
23-Mar-16	16:00	65.8	61.9	
23-Mar-16	16:05	66.9	62.9	68.2
23-Mar-16	16:10	67.9	63.4	
23-Mar-16	16:15	67.9	63.8	
29-Mar-16	14:45	66	62.7	
29-Mar-16	14:50	67.9	63.4	
29-Mar-16	14:55	67.9	63.4	
29-Mar-16	15:00	68	63.9	68.9
29-Mar-16	15:00	69.2	64	
29-Mar-16	15:10	68	63.8	
07-Apr-16	14:00	66	62.1	
07-Apr-16	14:05	67	63	
07-Apr-16	14:10	66.2	61.9	
07-Apr-16	14:15	66.5	62.7	68.0
07-Apr-16	14:20	67.8	63.1	
07-Apr-16	14:25	67.5	63.3	
13-Apr-16	14:45	69.8	65.8	
13-Apr-16	14:50	71.7	66	
13-Apr-16	14:55	69.1	65.5	
13-Apr-16	15:00	69.6	65.6	70.9
13-Apr-16	15:05	68.8	65.8	
13-Apr-16	15:10	68.7	65.8	
19-Apr-16	14:00	66.9	62.7	
19-Apr-16	14:05	68	64.1	
19-Apr-16	14:10	67.7	63.7	
19-Apr-16	14:15	69	65	69.5
19-Apr-16	14:20	68.8	64.2	
19-Apr-16	14:25	69.7	65.7	
25-Apr-16	14:00	68.9	64.7	
25-Apr-16	14:05	67.7	63.4	
25-Apr-16	14:10	66.4	62.8	
25-Apr-16	14:15	68	64.1	68.9
	14:10	67.9	63.4	
25-Apr-16				

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

Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (February 2016- April 2016)



Appendix F. Waste Flow table

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M+ Museum

Table F-1: Waste Flow Table for M+ Museum

		Actual Quanti	ities of Inert	C&D Mater	rials Generat	ed Monthly		Act	ual Quantities	of C&D W	astes Gene	erated Month	nly
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	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													
Jun													
Jul													
Aug													
Sep													
Oct													
Nov													
Dec													
Sub-total (2016)	69559.3	0.0	17728.0	49920.0	1911.3	0.0	0.0	134.1	0.1	0.0	27.8	0.0	124.5
Total	145819.6	0.0	17728.0	87781.4	40310.2	0.0	0.0	236.6	0.1	0.0	27.8	1.0	258.1

Note:

-432.4 ton, 1,312.6 ton and 16.9 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38, Tseung Kwan O Area 137 and Chai Wan Public Fill Barging Point respectively in the reporting quarter.

-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.

Lyric Theatre Complex

		Actual Quant	ities of Inert	C&D Mater	ials Generat	ed Monthly		Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	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	0.0												
Jun	0.0												
Jul	0.0												
Aug	0.0												
Sep	0.0												
Oct	0.0												
Nov	0.0												
Dec	0.0												
Sub-total (2016)	11333.6	0.0	0.0	0.0	11333.6	0.0	0.0	20.4	0.1	0.0	0.0	0.0	49.8
2017													
Jan	0.0												
Feb	0.0												
Mar	0.0												
Apr	0.0												
May	0.0												
Jun	0.0												
Sub-total (2017)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	11333.6	0.0	0.0	0.0	11333.6	0.0	0.0	20.4	0.1	0.0	0.0	0.0	49.8

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

Note:

-1,100.61 ton and 10,233 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 quarter.

Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (February 2016- April 2016)



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

363512/ENP/ENL/05/03/1 May 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\03 Quarterly EM&A Summary Report\(2) Quarterly EM&A Report (Feb 16- Apr 16)\Rev.1\Quarterly EM&A Report (Feb16-Apr16)_v1.docx

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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 quarter and are summarized in the in the **Table G-1** and **Table G-2** below respectively.

Table G-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 quarter	0	0	0					
From 31 October 2015 to end of the reporting quarter	1	0	0					

Table G-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 quarter	0	0	0						
From 1 March 2016 to end of the reporting month	0	0	0						