

# **Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development**

# Monthly Environmental Audit Report No. 31 (Covering the Period from 1 May 2017 to 31 May 2017)

17 August 2017

**Revision 00** 

**Main Contractor** 



**Independent Checker** 





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#### **Executive Summary**

This monthly Environmental Audit Report is prepared for Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development (hereafter referred to as "the Project") for the Hong Kong Housing Authority (HA) of Hong Kong Special Administrative Region. The Project was awarded to Hsin Chong Construction Company Ltd. (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Independent Checker (IC) by the Contractor.

The Project is classified as a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). A Project Profile (Register No. PP-481/2013) was submitted for direct application of an Environmental Permit (EP) for the Project. The current EP (EP No: EP-452/2013) was issued on 6 June 2013. These documents are available through the EIA Ordinance Register. Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014.

This is the thirty-first monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 31 May 2017.

#### **Complaint Log**

There were no environmental complaints received during the reporting period.

#### **Notifications of Summons and Successful Prosecutions**

There were no notifications of summons or prosecutions received during this reporting period.

#### **Future Key Issues**

The future key issues include potential noise impact, air quality impact, water quality impact and waste management arising from the following construction activity to be undertaken in the upcoming month:

- Plant, mechanical, electrical and fire services testing and commissioning of the Temporary Sewage Pumping Station (TSTS); and
- · Greening works.



#### INTRODUCTION

#### 1.1 Basic Project Information

- 1.1.1 This monthly Environmental Audit Report is prepared for Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 (hereafter referred to as "the Project") for the Hong Kong Housing Authority (HA) of Hong Kong Special Administrative Region. The Project was awarded to Hsin Chong Construction Company Ltd. (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Independent Checker (IC) by the Contractor.
- 1.1.2 The Project is classified as a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). A Project Profile (Register No. PP-481/2013) was submitted for direct application of Environmental Permit (EP). The current EP (EP No: EP-452/2013) was issued on 6 June 2013. These documents are available through the EIA Ordinance Register. Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014. The works areas of the Project and the Contract are shown in **Appendix A**.
- 1.1.3 A Temporary Sewage Pumping Station (TSPS) was proposed as an ancillary facility to the proposed Tung Chung Area 56 Public Housing Development, to collect the sewage solely from the Tung Chung Area 56 Public Housing Development only and discharge it to the existing public sewer at Ying Hei Road.
- 1.1.4 The proposed TSPS is an un-manned facility and is not considered as a sensitive use susceptible to the influence of to external potential environmentally polluting uses.
- 1.1.5 According to the Planning Department's Tung Chung Town Centre Area Layout Plan No. L/I-TCTC/1E, a permanent sewage pumping station (SPS) will be provided in the Tung Chung Area 104 located to the northeast of the Tung Chung Area 56. Upon the intake of the population of Tung Chung Area 56 Public Housing Development, the TSPS is expected to provide a few years of service to the public housing development. Upon the commissioning of the permanent sewage pumping station in Tung Chung Area 104, sewage generated in Tung Chung Area 56 public housing development will be conveyed to SPS in Tung Chung Area 104 and the operation of the TSPS in Area 56 will be terminated. The infrastructure works including permanent foul water pipes and manhole to the permanent SPS in Tung Chung Area 104 is scheduled to be provided during the construction period of the Tung Chung Area 56 public housing development for ease of future transition operations. Thus, the TSPS in Area 56 is of temporary nature.
- 1.1.6 This is the thirty-first monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 31 May 2017.



#### 1.2 Project Organisation

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax	
Engineer or Engineer's Representative (Hong Kong Housing Authority)	Civil Engineer	Rachel Fung	2129 3709	2129 3095	
Contractor	Site Agent	Ivan Ho	9383 8280		
(Hsin Chong Construction Company Ltd.)	Environmental Manager	Siu Hon Wing	9139 5367	3480 1791	
	Environmental Supervisor	Ryan Wong	6198 0730		
Independent Checker (Atkins China Limited)	Independent Checker	Heidi Yeung	2972 1893	2890 6343	

#### 1.3 Construction Programme

- 1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.
- 1.3.2 Based on the weekly site inspections during the reporting month, the following were recorded:
  - The inlet chamber, wet well and screening facilities were installed within a reinforced concrete structure (EP Specific Condition 2.2);
  - The deodorizer with forced ventilation equipment was installed (EP Specific Condition 2.3);
  - Odour removal rate will be verified (EP Specific Condition 2.3);
  - The pump sets and the mechanically raked screens were provided within a reinforced concrete structure (EP Specific Condition 2.4);
  - Provision of a soundproof door and installation of acoustic louvers with silencers at all
    exits of the provided ventilation exhaust fans will be verified (EP Specific Condition 2.4);
  - A standby pump was provided (EP Specific Condition 2.5);
  - Power supply will be verified (EP Specific Condition 2.5);
  - A wet well will be verified (EP Specific Condition 2.5); and
  - Roof greening and vertical greening will be implemented in June 2017 (EP Specific Condition 2.6).

#### 1.4 Construction Works Undertaken During the Reporting Period

- 1.4.1 A summary of the construction activities undertaken during the reporting period is shown below:
  - Plant and mechanical & electrical installation and commissioning of the TSPS.



#### 2 ENVIRONMENTAL SITE AUDIT

#### 2.1 Site Inspection

- 2.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental protection and pollution control mitigation measures for the Project. During the reporting period, site inspections were carried out on 5, 10, 19 and 26 May 2017.
- 2.1.2 Any environmental issue raised during the site inspections and the follow up actions taken by the Contractor are described below.

Date of Inspection	Observation	Actions Taken by Contractor / Recommendation	Date of Observations Closed
5 May 2017	Nil.	Nil.	Not applicable.
10 May 2017	Nil.	Nil.	Not applicable.
19 May 2017	Nil.	Nil.	Not applicable.
26 May 2017	Nil.	Nil.	Not applicable.

2.1.3 No particular issues were identified during the regular environmental weekly site inspections conducted on 5, 10, 19 and 26 May 2017 during the reporting period. However, the Contractor has carried out mitigation measures recommended in the Project Profile and EP.

#### 2.2 Advice on the Solid and Liquid Waste Management Status

- 2.2.1 The Contractor registered as a chemical waste producer for the Project. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 2.2.2 The monthly summary of waste flow table is detailed in **Appendix D**.
- 2.2.3 The Contractor was reminded to store the chemical waste containers properly on site in accordance with the Code of Practise on the Packaging, Labelling and Storage of Chemical Wastes.

#### 2.3 Environmental Licenses and Permits

2.3.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix E**.

#### 2.4 Implementation Status of Environmental Mitigation Measures

2.4.1 The Contractor has carried out mitigation measures recommended in the Project Profile and EP.

#### 2.5 Summary of Complaints, Notification of Summons and Successful Prosecution

- 2.5.1 There were no complaints received during the reporting period.
- 2.5.2 No notification of summons and prosecution was received during the reporting period.
- 2.5.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix F**.



#### 3 FUTURE KEY ISSUES

- 3.1 Construction Programme for the Coming Months
  - 3.1.1 According to the Contractor, the major construction activity for June 2017 includes:
    - Plant, mechanical, electrical and fire services testing and commissioning of the TSPS;
       and
    - Greening works.
- 3.2 Environmental Site Inspection Schedule for the Coming Month
  - 3.2.1 The tentative schedule for weekly site inspections for the coming month is 2, 9, 15, 22 and 30 June 2017.





#### 4 CONCLUSION

#### 4.1 Conclusions

- 4.1.1 Site preparation works of the Project started on 14 November 2014 and the construction works of the Project commenced on 19 November 2014.
- 4.1.2 No particular issues were identified during the regular environmental weekly site inspections conducted on 5, 10, 19 and 26 May 2017 during the reporting period. However, the Contractor has carried out mitigation measures recommended in the Project Profile and EP.
- 4.1.3 There were no environmental complaints received during the reporting period.
- 4.1.4 No notification of summons and successful prosecution were received during the reporting period.

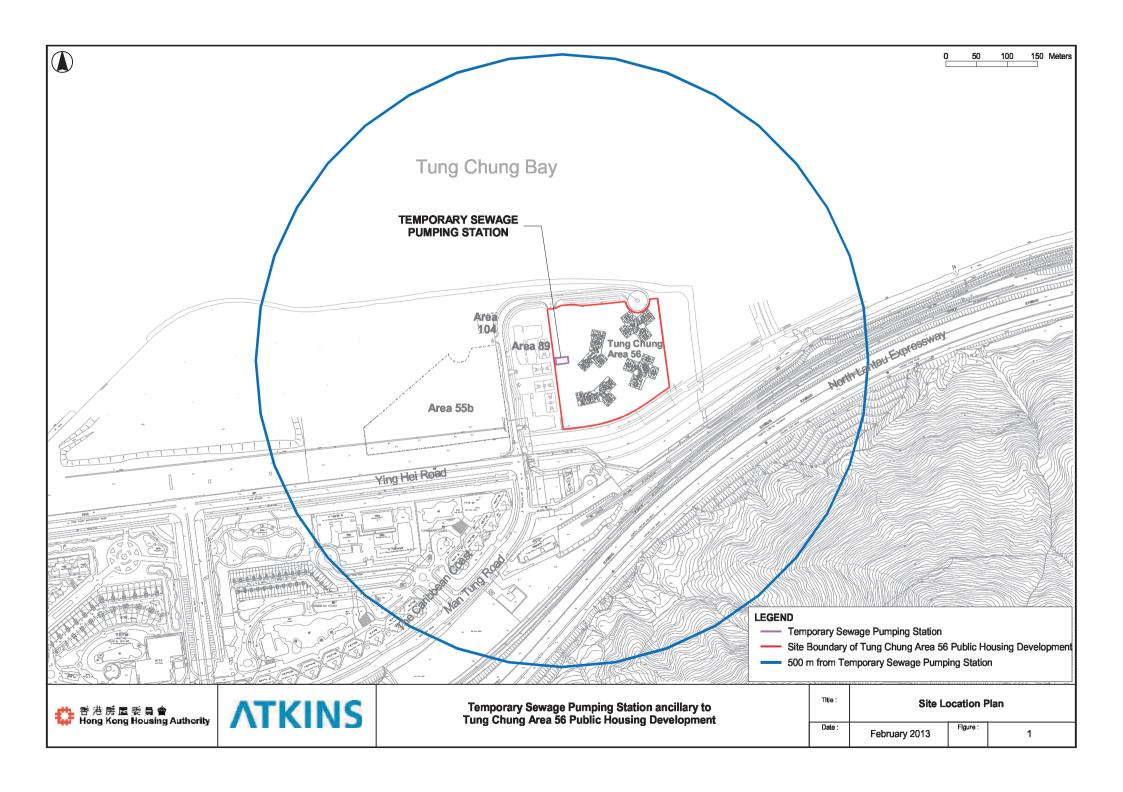




## **APPENDIX A**

Location of the Project and the Contract





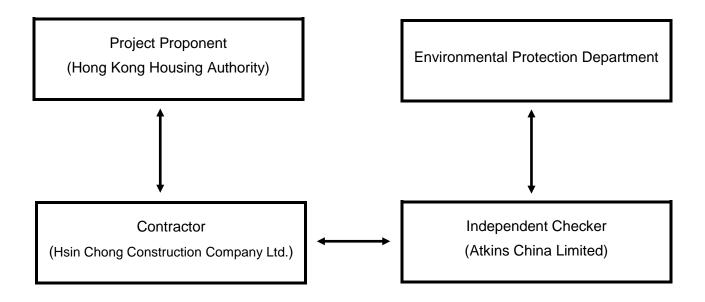


## **APPENDIX B**

Project Organization for Environmental Works



## Project Organization for Environmental Works





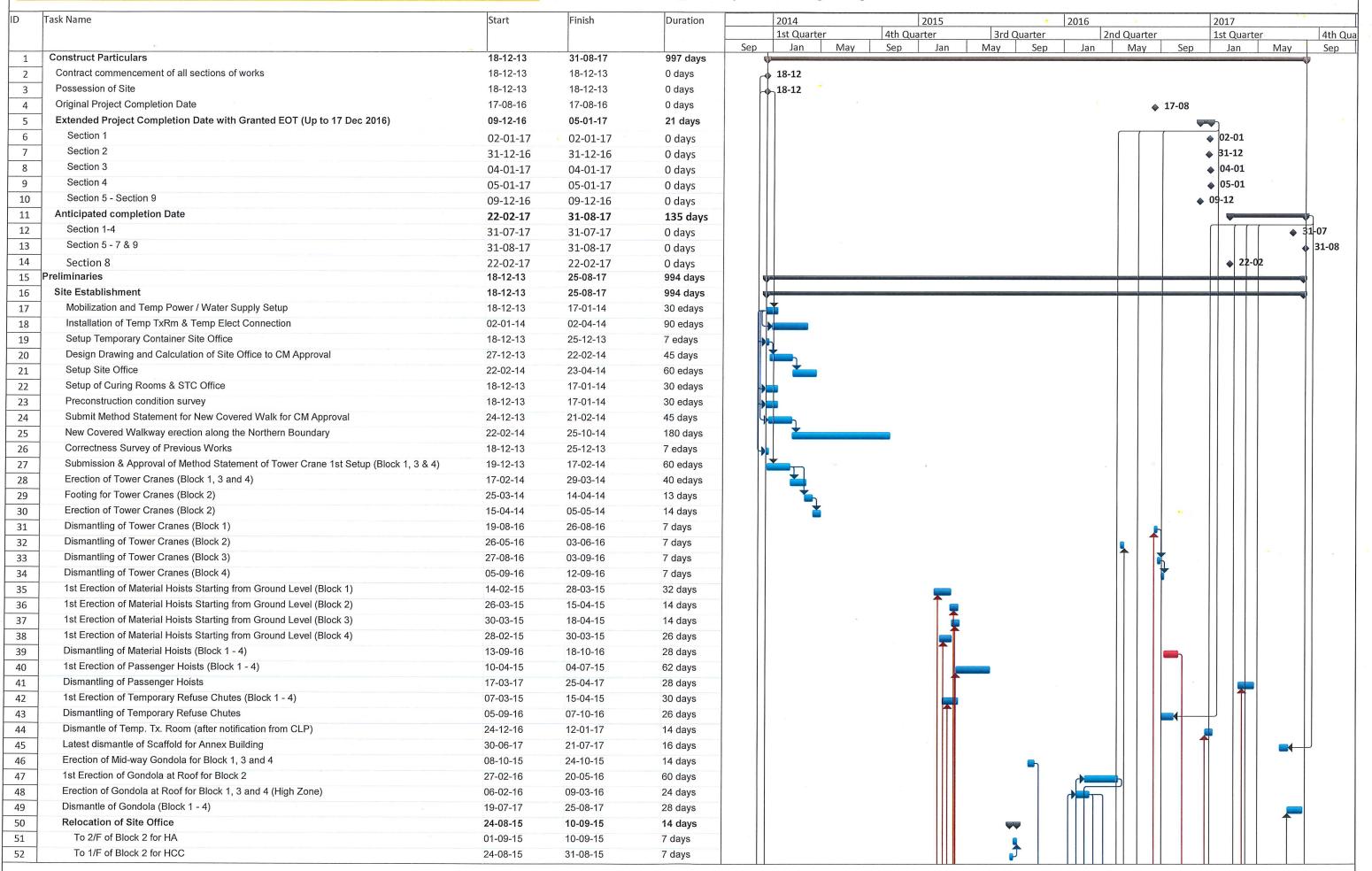
## APPENDIX C

Construction Programme



Rev.:16A Date:18 Jan 2017

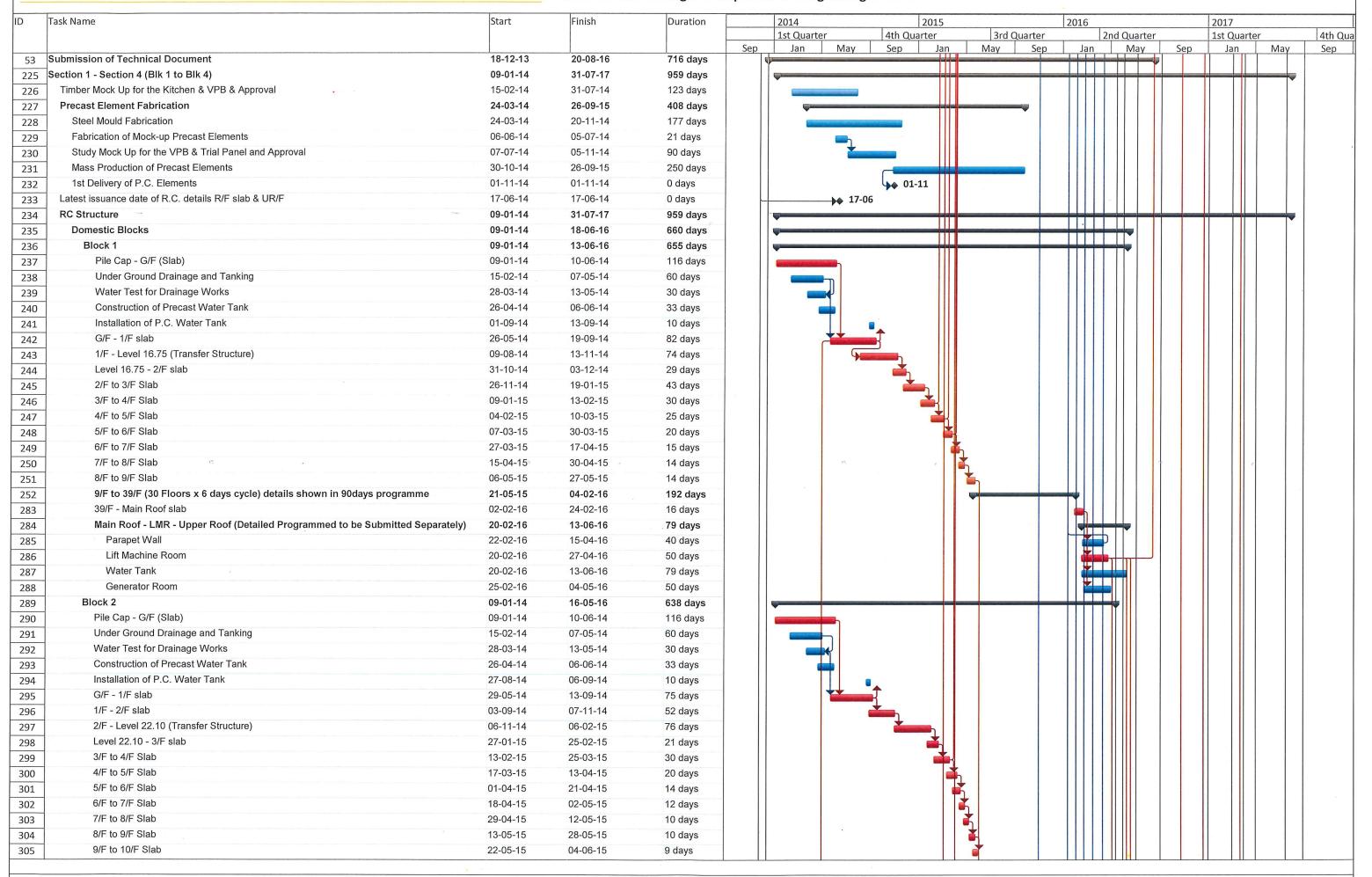
### Construction of Public Rental Housing Development at Tung Chung Area 56





Rev.:16A Date:18 Jan 2017

### Construction of Public Rental Housing Development at Tung Chung Area 56

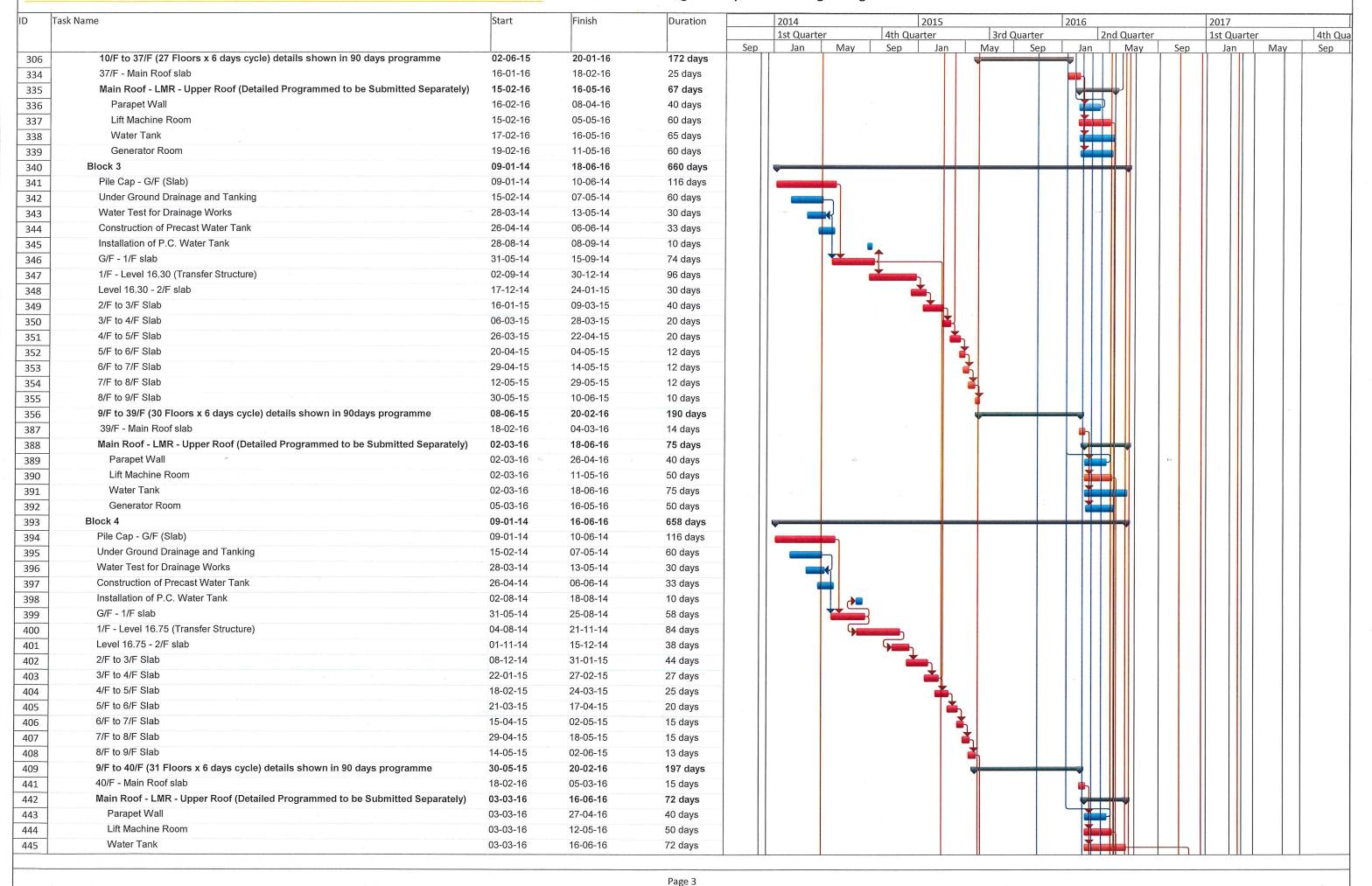


## **Master Programme**

for

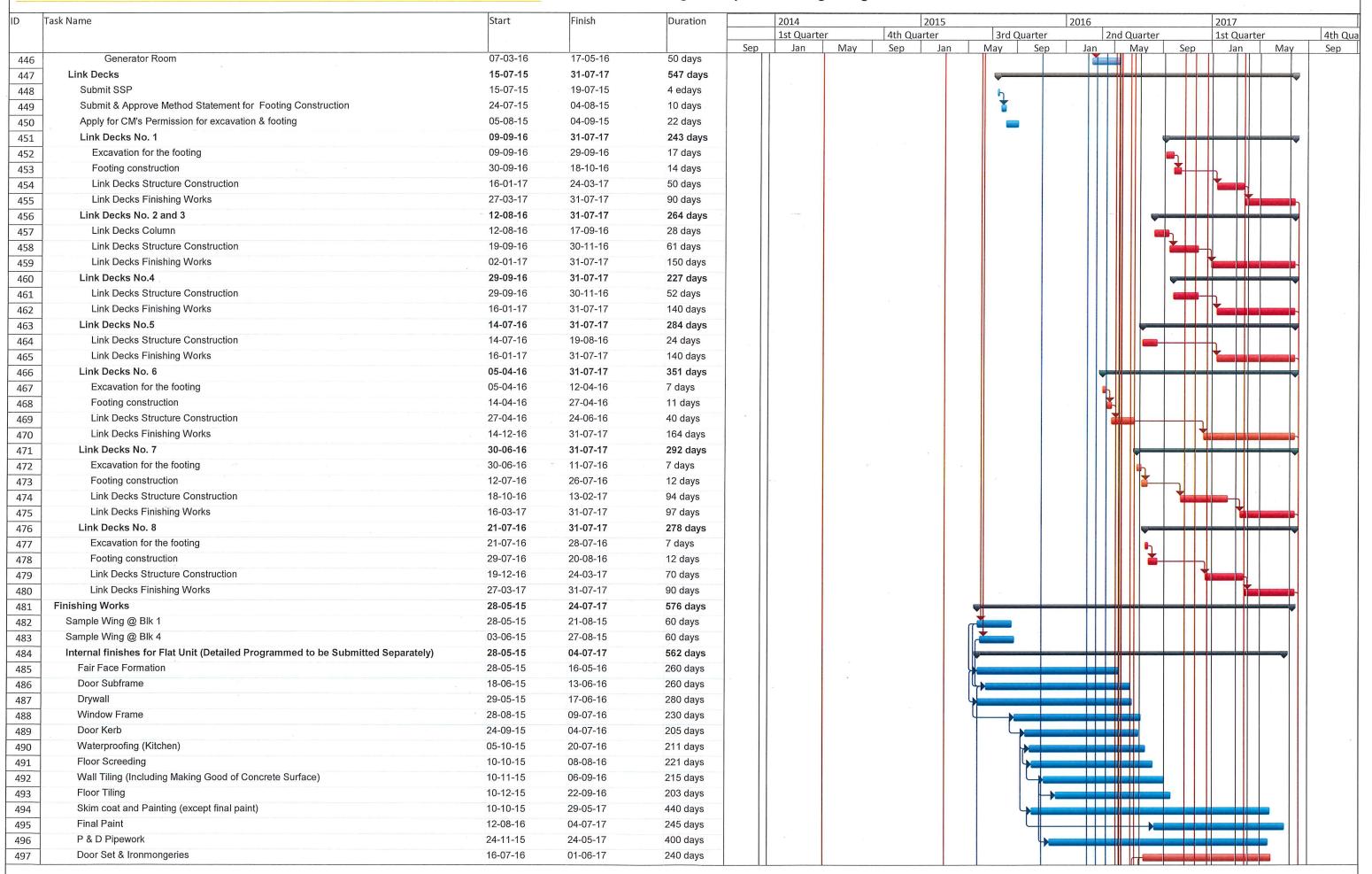
Rev.:16A Date:18 Jan 2017

### Construction of Public Rental Housing Development at Tung Chung Area 56



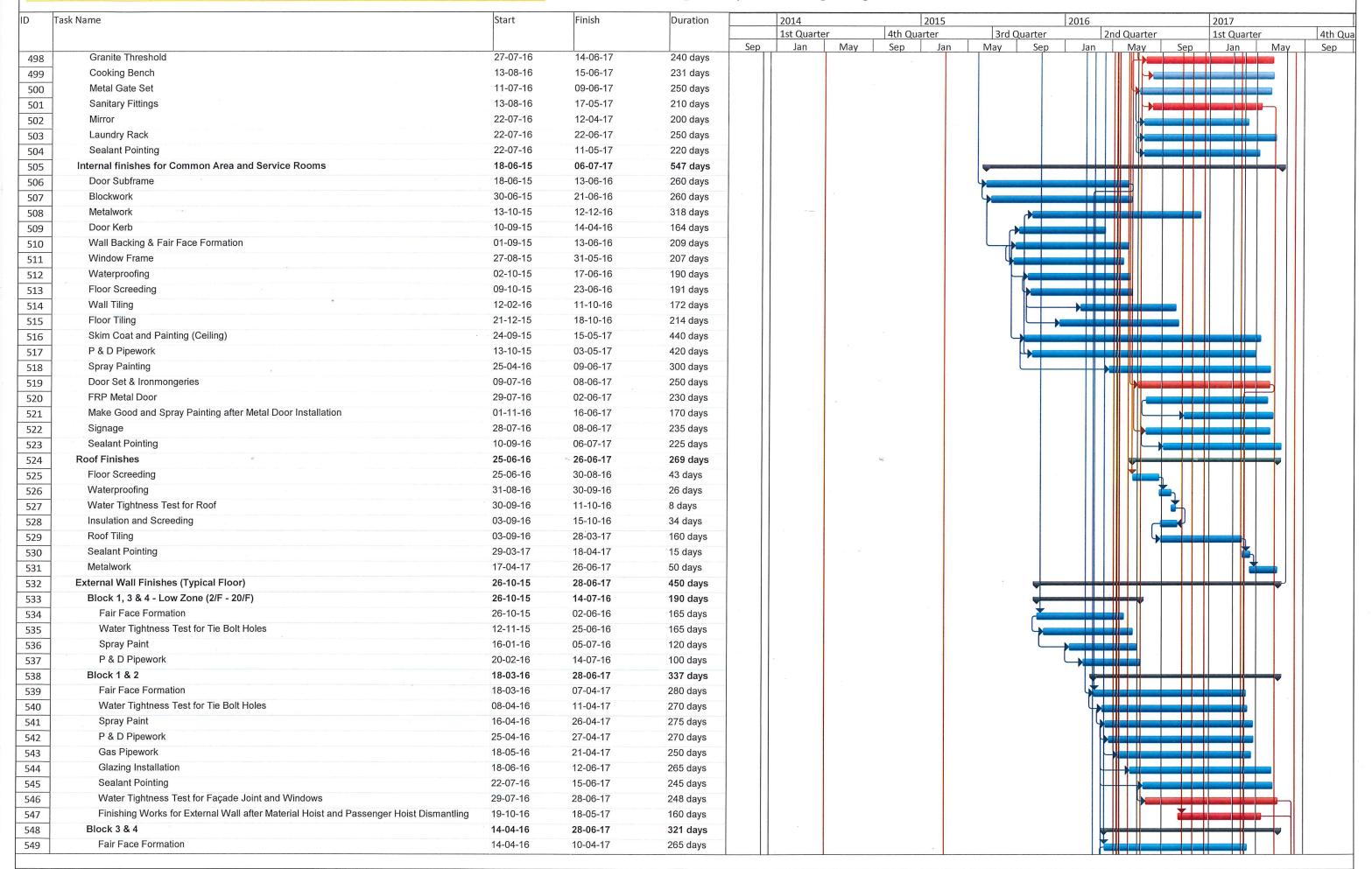
Rev.:16A Date:18 Jan 2017

### Construction of Public Rental Housing Development at Tung Chung Area 56



Construction of Public Rental Housing Development at Tung Chung Area 56

Rev.:16A Date:18 Jan 2017

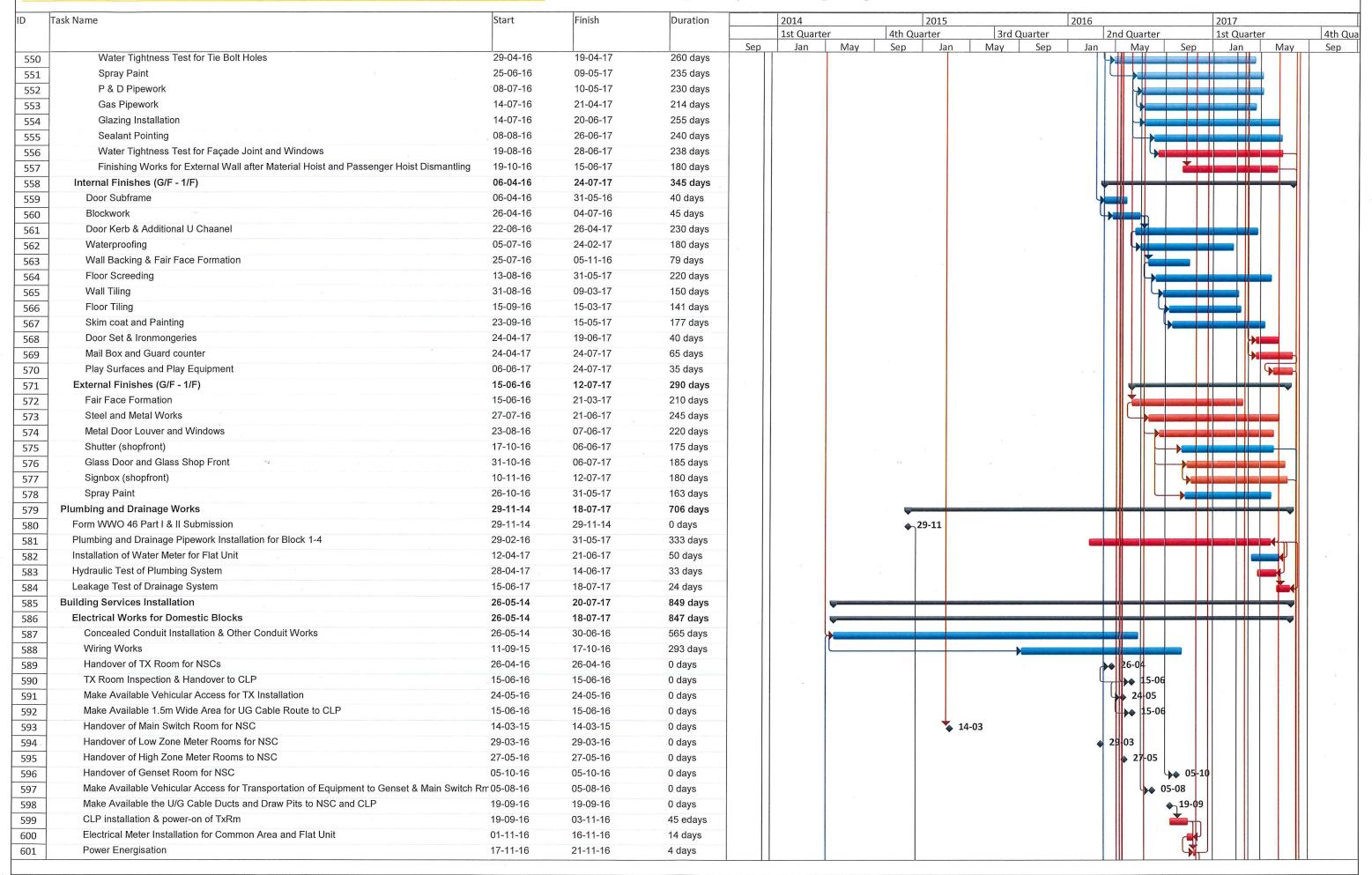


## Master Programme

for

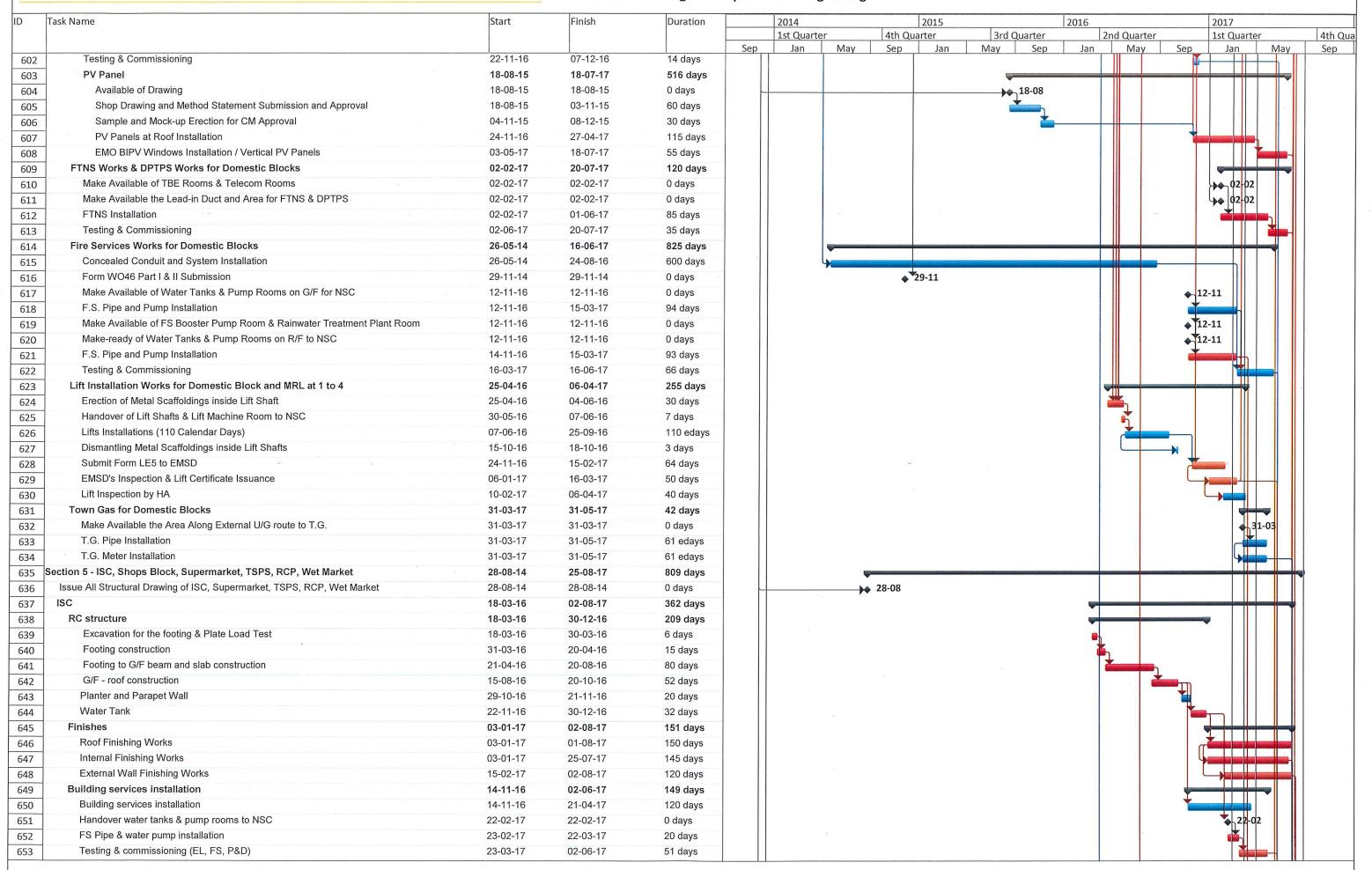
Construction of Public Rental Housing Development at Tung Chung Area 56

Rev.:16A Date:18 Jan 2017



Rev.:16A Date:18 Jan 2017

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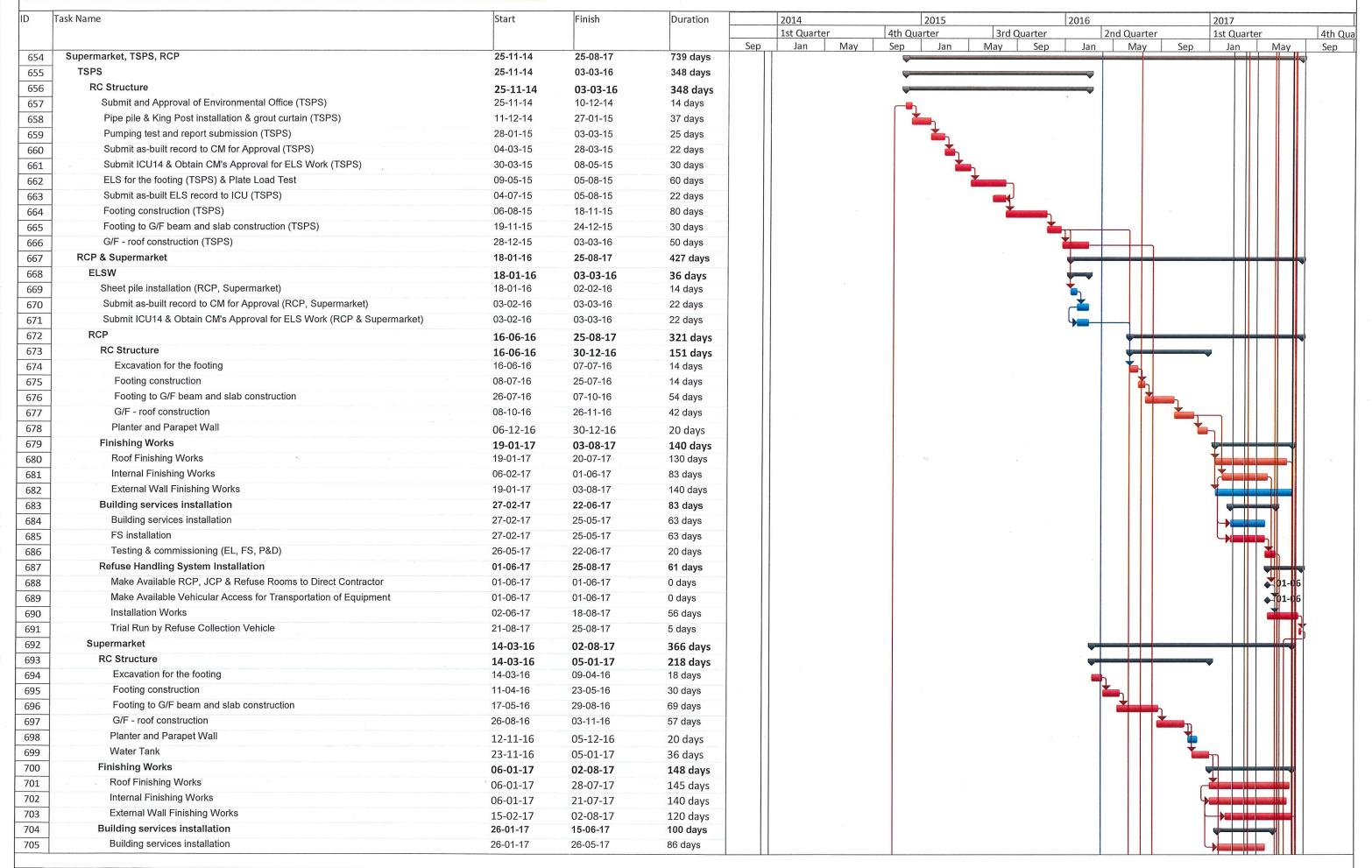


### **Master Programme**

for

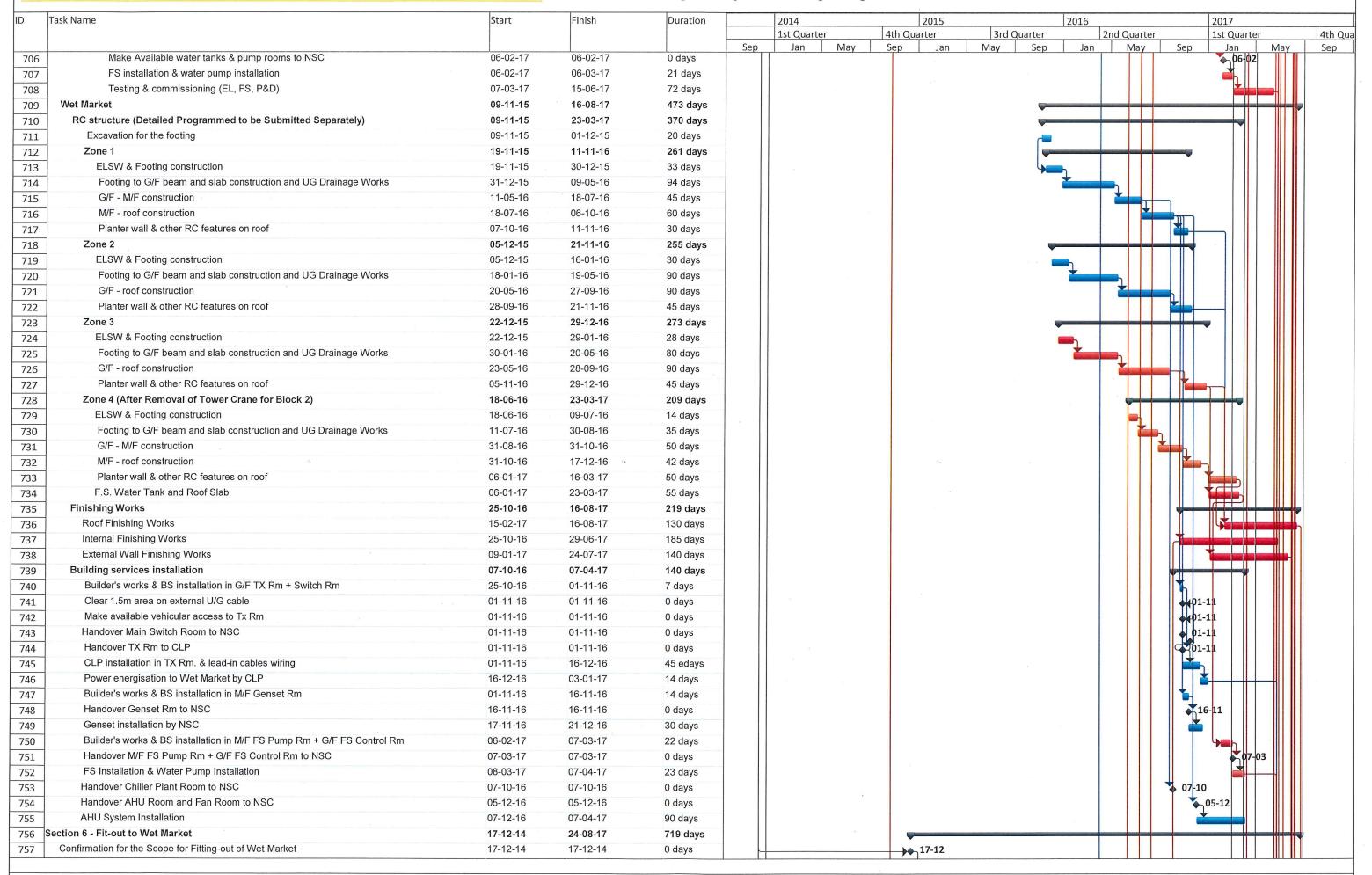
Construction of Public Rental Housing Development at Tung Chung Area 56

Rev.:16A Date:18 Jan 2017



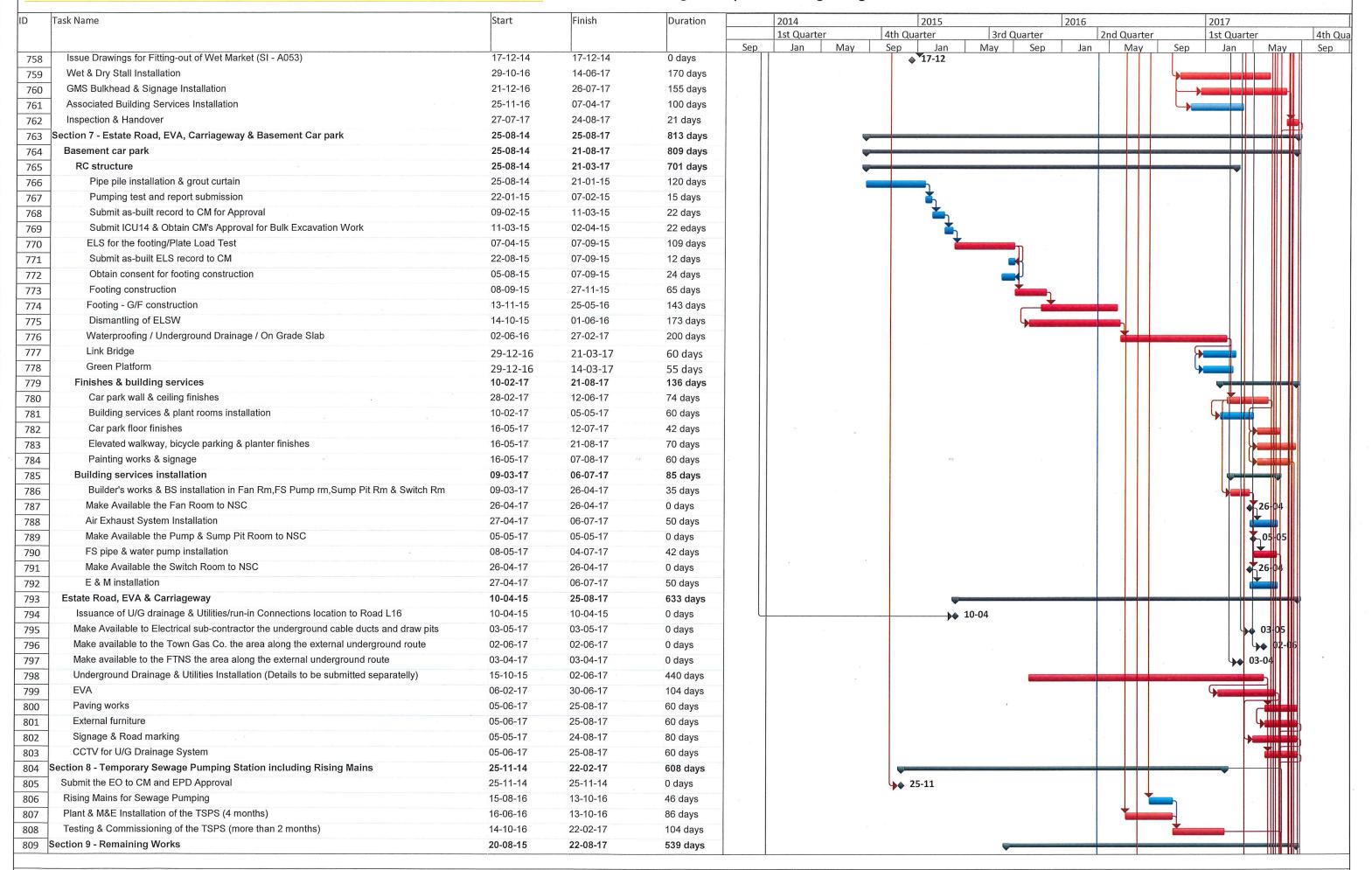
Rev.:16A Date:18 Jan 2017

### Construction of Public Rental Housing Development at Tung Chung Area 56



Rev.:16A Date:18 Jan 2017

### Construction of Public Rental Housing Development at Tung Chung Area 56

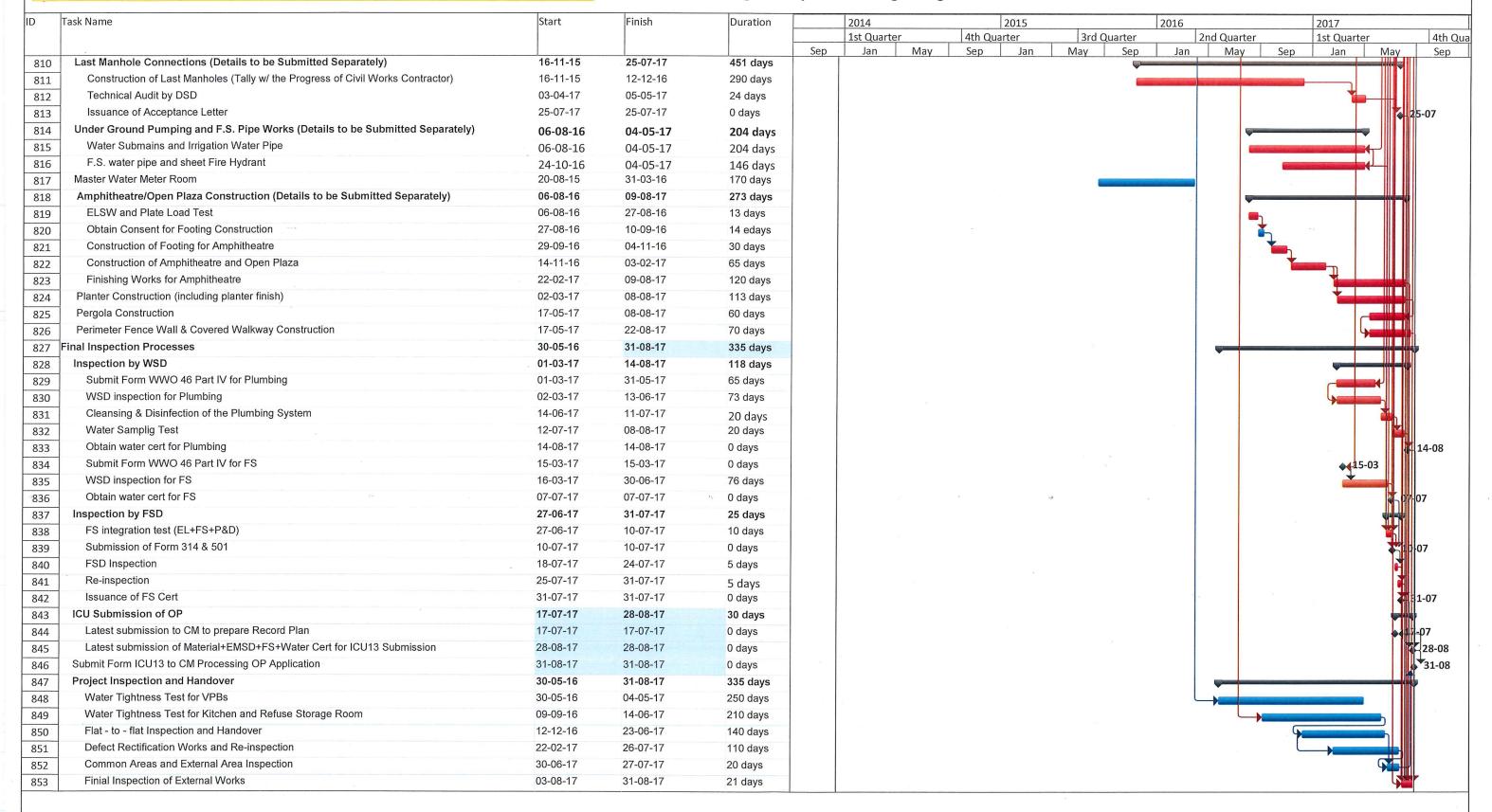


### Master Programme

for

Construction of Public Rental Housing Development at Tung Chung Area 56

Rev.:16A Date:18 Jan 2017





## **APPENDIX D**

Waste Flow Table



## Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development Waste Flow Table

	Estima	ated Annual Qua	ntities of Inert C&	D Materials (in '00	00 Kg)		Es	stimated Quantiti	es of C&D Waste	<del></del>	
Month	Total Quantity Generated	Suitable for Recycled Aggregates	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	Timber
	(a)	(b)	(c)	(d)	(e=a-b-c-d)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000litre)	(in '000 Kg)	(in '000 Kg)
"			<u> </u>			2014				<u>'</u>	
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.160	0.000
December	4.910	0.000	0.000	0.000	4.910	0.000	0.000	0.000	0.000	5.830	0.000
<u> </u>			<u> </u>			2015				<u> </u>	
January	5.970	0.000	0.000	0.000	5.970	0.000	0.000	0.000	0.000	2.880	0.000
February	4.540	0.000	0.000	0.000	4.540	0.000	0.000	0.000	0.000	2.450	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.480	0.000
April	1097.040	0.000	0.000	0.000	1097.040	0.000	0.000	0.000	0.000	1.930	0.000
May	467.250	0.000	0.000	0.000	467.250	0.000	0.000	0.000	0.000	6.520	0.000
June	1237.690	0.000	0.000	0.000	1237.690	0.000	0.000	0.000	0.000	9.720	0.000
July	61.480	0.000	0.000	0.000	61.480	0.000	0.000	0.000	0.000	8.680	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.210	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.170	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.180	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.940	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.380	0.000
			•			2016			<u> </u>		
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.820	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.230	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.640	0.000
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.100	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.830	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.310	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.820	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.690	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.880	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.720	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.580	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.020	0.000
						2017					
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.680	0.000
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.450	0.000
March	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.190	0.000
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.640	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.420	0.000
Grand Total	2878.880	0.000	0.000	0.000	2878.880	0.000	0.000	0.000	0.000	176.550	0.000

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



## **APPENDIX E**

**Environmental Licenses and Permits** 



### **Summary of Environmental Licences and Permits Application and Status**

#### **Environmental Permit (EP)**

EP No.	EP Holder	Date of EP Issued	Expiry Date	Area Coverage	Status
EP-452/2013	Hong Kong Housing	6 Jun 2013	N/A	TSPS Only	Active
	Authority				

### Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation

Notification Ref. No.	Area Coverage	Valid Since	Expiry Date
367052	Entire Site of the Contract	13 Nov 2013	N/A
	(include TSPS)		

#### **Billing Account for Disposal of Construction Works**

Billing Account No.	Area Coverage	Valid Since	Expiry Date
7018949	Entire Site of the Contract	16 Dec 2013	N/A
	(include TSPS)		

### **Chemical Waste Producer Registration**

Waste Producer No.	Area Coverage	Major Chemical Waste Type	Valid Since	Expiry Date
5213-950-H2913-43	Entire Site of the Contract	Spent lubricant, Spent Flammable	19 Nov 2014	N/A
	(include TSPS)	Liquid, Spent organic solvent,		
		contaminated rags		

### **Wastewater Discharge Licence**

Licence Number	Area Coverage	Valid Since	Expiry Date
WT00018218-2014	Entire Site of the Contract	30 Jan 2014	31 Jan 2019
	(include TSPS)		

### **Construction Noise Permit (CNP)**

CNP Number	Area Coverage	Valid Since	Expiry Date	Current Status
GW-RS1162-14	Entire Site of the Contract (include TSPS)	24 Oct 2014	23 Apr 2015	Expired
GW-RS0418-15	Entire Site of the Contract (include TSPS)	24 Apr 2015	23 Oct 2015	Expired
GW-RS1088-15	Entire Site of the Contract (include TSPS)	24 Oct 2015	23 Apr 2016	Expired
GW-RS1379-15	Entire Site of the Contract (include TSPS)	29 Dec 2015	28 Jun 2016	Expired
GW-RS0525-16	Entire Site of the Contract (include TSPS)	29 Jun 2016	28 Dec 2016	Expired, as replaced by GW-RS0796-16
GW-RS0796-16	Entire Site of the Contract (include TSPS)	29 Jul 2016	28 Jan 2017	Expired, as replaced by GW-RS0010-17
GW-RS0010-17	Entire Site of the Contract (include TSPS)	29 Jan 2017	28 Jun 2017	Active



## **APPENDIX F**

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions



# **Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions**

Reporting period	Complaints	Notifications of Summons	Successful Prosecutions
31 <sup>st</sup> Reporting Month (1 May 2017 – 31 May 2017)	0	0	0
Cumulative Statistics (19 Nov 2014 – 31 May 2017)	0	0	0