

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

**Monthly Environmental Audit Report No. 33
(Covering the Period from 1 July 2017 to 31 July 2017)**

16 August 2017

Revision 00

Main Contractor



**HSIN新昌
CHONG**

Independent Checker

ATKINS



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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-third monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 31 July 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 and electrical testing and commissioning of the Temporary Sewage Pumping Station (TSTS).



1 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-third monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 31 July 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 (Hsin Chong Construction Company Ltd.)	Site Agent	Ivan Ho	9383 8280	3480 1791
	Environmental Manager	Siu Hon Wing	9139 5367	
	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);
 - Silencers with louvers were installed at all exits of the provided ventilation exhaust fans (EP Specific Condition 2.4);
 - Provision of a soundproof door and installation of acoustic louvers 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 was provided by CLP (EP Specific Condition 2.5);
 - A wet well was provided (EP Specific Condition 2.5);
 - Roof greening will be implemented into two parts (i.e. green roof tray system and soft landscape). The green roof tray system and soft landscape will be implemented tentatively at the end of October 2017 and quarter 1 of 2018 by Development & construction Division of Housing Department, respectively. (EP Specific Condition 2.6); and
 - Colour scheme of the exterior of the building will be created to blend the TSPS into surroundings in September 2017. (Project Profile (Register No. PP-481/2013)).

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, 13, 19 and 28 July 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 July 2017	Nil.	Nil.	Not applicable.
13 July 2017	Nil.	Nil.	Not applicable.
19 July 2017	Nil.	Nil.	Not applicable.
28 July 2017	Nil.	Nil.	Not applicable.

- 2.1.3 No particular issues were identified during the regular environmental weekly site inspections conducted on 5, 13, 19 and 28 July 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 August 2017 includes:

- Plant, mechanical and electrical testing and commissioning of the TSPS.

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, 16, 23 and 30 August 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, 13, 19 and 28 July 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



0 50 100 150 Meters

Tung Chung Bay

TEMPORARY SEWAGE PUMPING STATION

Area 104

Area 89

Tung Chung Area 56




Area 55b

Ying Hei Road

North Lantau Expressway

Man Tung Road

LEGEND

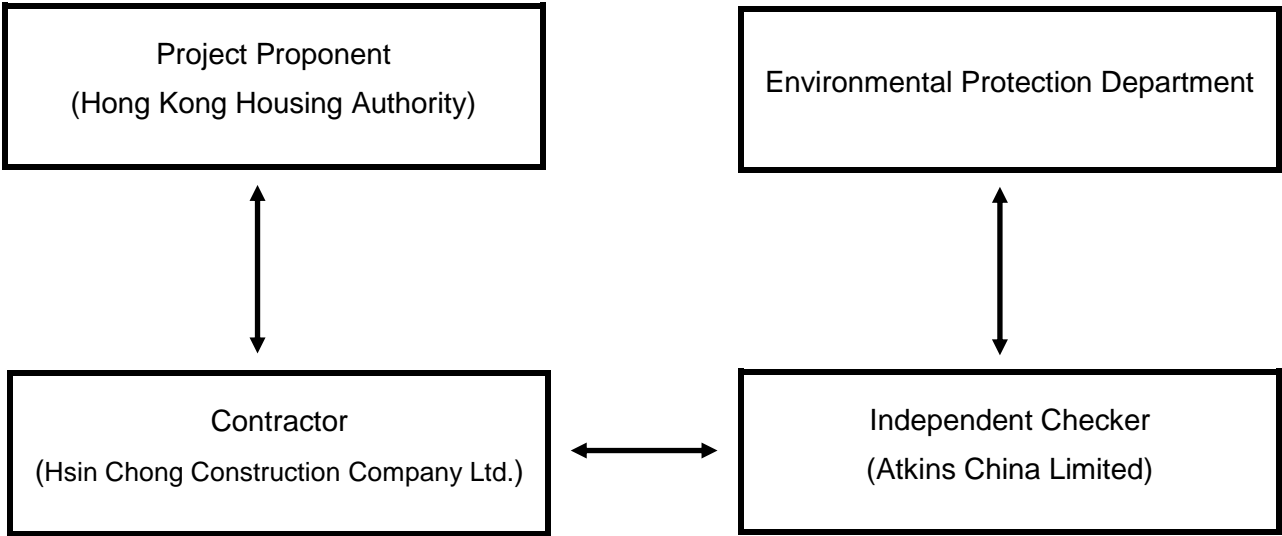
-  Temporary Sewage Pumping Station
-  Site Boundary of Tung Chung Area 56 Public Housing Development
-  500 m from Temporary Sewage Pumping Station



APPENDIX B

Project Organization for Environmental Works

Project Organization for Environmental Works





APPENDIX C

Construction Programme

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014												2015			2016			2017		
					1st Quarter			4th Quarter			3rd Quarter			2nd Quarter			1st Quarter			4th Qua					
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Jan	May	Sep	Jan	May	Sep						
1	Construct Particulars	18-12-13	31-08-17	997 days																					
2	Contract commencement of all sections of works	18-12-13	18-12-13	0 days	18-12																				
3	Possession of Site	18-12-13	18-12-13	0 days	18-12																				
4	Original Project Completion Date	17-08-16	17-08-16	0 days																					
5	Extended Project Completion Date with Granted EOT (Up to 17 Dec 2016)	09-12-16	05-01-17	21 days	17-08																				
6	Section 1	02-01-17	02-01-17	0 days	02-01																				
7	Section 2	31-12-16	31-12-16	0 days	31-12																				
8	Section 3	04-01-17	04-01-17	0 days	04-01																				
9	Section 4	05-01-17	05-01-17	0 days	05-01																				
10	Section 5 - Section 9	09-12-16	09-12-16	0 days	09-12																				
11	Anticipated completion Date	22-02-17	31-08-17	135 days	22-02																				
12	Section 1-4	31-07-17	31-07-17	0 days	31-07																				
13	Section 5 - 7 & 9	31-08-17	31-08-17	0 days	31-08																				
14	Section 8	22-02-17	22-02-17	0 days	22-02																				
15	Preliminaries	18-12-13	25-08-17	994 days																					
16	Site Establishment	18-12-13	25-08-17	994 days																					
17	Mobilization and Temp Power / Water Supply Setup	18-12-13	17-01-14	30 edays																					
18	Installation of Temp TxRm & Temp Elect Connection	02-01-14	02-04-14	90 edays																					
19	Setup Temporary Container Site Office	18-12-13	25-12-13	7 edays																					
20	Design Drawing and Calculation of Site Office to CM Approval	27-12-13	22-02-14	45 edays																					
21	Setup Site Office	22-02-14	23-04-14	60 edays																					
22	Setup of Curing Rooms & STC Office	18-12-13	17-01-14	30 edays																					
23	Preconstruction condition survey	18-12-13	17-01-14	30 edays																					
24	Submit Method Statement for New Covered Walk for CM Approval	24-12-13	21-02-14	45 edays																					
25	New Covered Walkway erection along the Northern Boundary	22-02-14	25-10-14	180 edays																					
26	Correctness Survey of Previous Works	18-12-13	25-12-13	7 edays																					
27	Submission & Approval of Method Statement of Tower Crane 1st Setup (Block 1, 3 & 4)	19-12-13	17-02-14	60 edays																					
28	Erection of Tower Cranes (Block 1, 3 and 4)	17-02-14	29-03-14	40 edays																					
29	Footing for Tower Cranes (Block 2)	25-03-14	14-04-14	13 edays																					
30	Erection of Tower Cranes (Block 2)	15-04-14	05-05-14	14 edays																					
31	Dismantling of Tower Cranes (Block 1)	19-08-16	26-08-16	7 edays																					
32	Dismantling of Tower Cranes (Block 2)	26-05-16	03-06-16	7 edays																					
33	Dismantling of Tower Cranes (Block 3)	27-08-16	03-09-16	7 edays																					
34	Dismantling of Tower Cranes (Block 4)	05-09-16	12-09-16	7 edays																					
35	1st Erection of Material Hoists Starting from Ground Level (Block 1)	14-02-15	28-03-15	32 edays																					
36	1st Erection of Material Hoists Starting from Ground Level (Block 2)	26-03-15	15-04-15	14 edays																					
37	1st Erection of Material Hoists Starting from Ground Level (Block 3)	30-03-15	18-04-15	14 edays																					
38	1st Erection of Material Hoists Starting from Ground Level (Block 4)	28-02-15	30-03-15	26 edays																					
39	Dismantling of Material Hoists (Block 1 - 4)	13-09-16	18-10-16	28 edays																					
40	1st Erection of Passenger Hoists (Block 1 - 4)	10-04-15	04-07-15	62 edays																					
41	Dismantling of Passenger Hoists	17-03-17	25-04-17	28 edays																					
42	1st Erection of Temporary Refuse Chutes (Block 1 - 4)	07-03-15	15-04-15	30 edays																					
43	Dismantling of Temporary Refuse Chutes	05-09-16	07-10-16	26 edays																					
44	Dismantle of Temp. Tx. Room (after notification from CLP)	24-12-16	12-01-17	14 edays																					
45	Latest dismantle of Scaffold for Annex Building	30-06-17	21-07-17	16 edays																					
46	Erection of Mid-way Gondola for Block 1, 3 and 4	08-10-15	24-10-15	14 edays																					
47	1st Erection of Gondola at Roof for Block 2	27-02-16	20-05-16	60 edays																					
48	Erection of Gondola at Roof for Block 1, 3 and 4 (High Zone)	06-02-16	09-03-16	24 edays																					
49	Dismantle of Gondola (Block 1 - 4)	19-07-17	25-08-17	28 edays																					
50	Relocation of Site Office	24-08-15	10-09-15	14 edays																					
51	To 2/F of Block 2 for HA	01-09-15	10-09-15	7 edays																					
52	To 1/F of Block 2 for HCC	24-08-15	31-08-15	7 edays																					

Construction of Public Rental Housing Development at Tung Chung Area 56

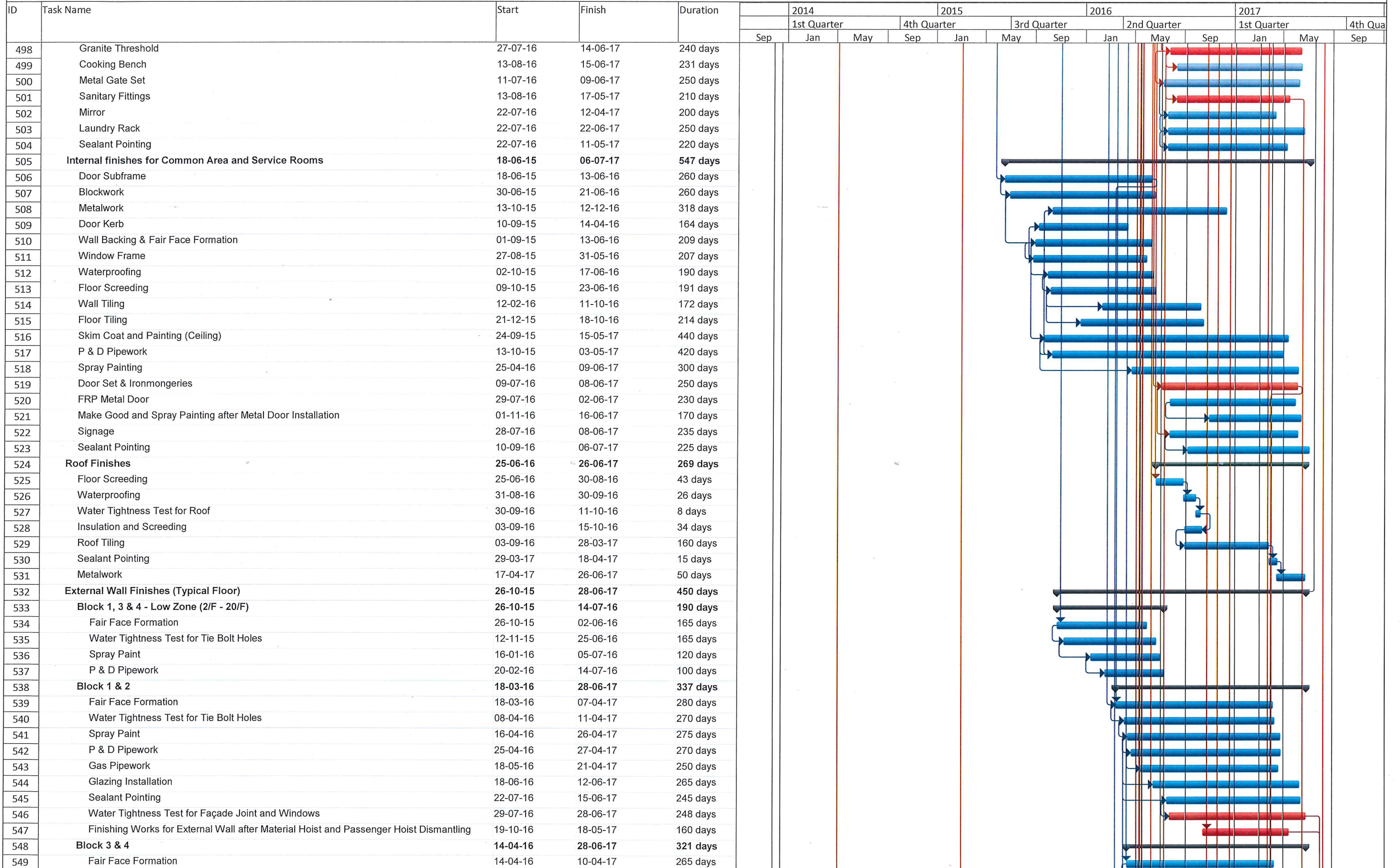
ID	Task Name	Start	Finish	Duration	2014		2015			2016			2017				
					1st Quarter		4th Quarter		3rd Quarter			2nd Quarter			1st Quarter		4th Qua
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep
53	Submission of Technical Document	18-12-13	20-08-16	716 days													
225	Section 1 - Section 4 (Blk 1 to Blk 4)	09-01-14	31-07-17	959 days													
226	Timber Mock Up for the Kitchen & VPB & Approval	15-02-14	31-07-14	123 days													
227	Precast Element Fabrication	24-03-14	26-09-15	408 days													
228	Steel Mould Fabrication	24-03-14	20-11-14	177 days													
229	Fabrication of Mock-up Precast Elements	06-06-14	05-07-14	21 days													
230	Study Mock Up for the VPB & Trial Panel and Approval	07-07-14	05-11-14	90 days													
231	Mass Production of Precast Elements	30-10-14	26-09-15	250 days													
232	1st Delivery of P.C. Elements	01-11-14	01-11-14	0 days													
233	Latest issuance date of R.C. details R/F slab & UR/F	17-06-14	17-06-14	0 days													
234	RC Structure	09-01-14	31-07-17	959 days													
235	Domestic Blocks	09-01-14	18-06-16	660 days													
236	Block 1	09-01-14	13-06-16	655 days													
237	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days													
238	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days													
239	Water Test for Drainage Works	28-03-14	13-05-14	30 days													
240	Construction of Precast Water Tank	26-04-14	06-06-14	33 days													
241	Installation of P.C. Water Tank	01-09-14	13-09-14	10 days													
242	G/F - 1/F slab	26-05-14	19-09-14	82 days													
243	1/F - Level 16.75 (Transfer Structure)	09-08-14	13-11-14	74 days													
244	Level 16.75 - 2/F slab	31-10-14	03-12-14	29 days													
245	2/F to 3/F Slab	26-11-14	19-01-15	43 days													
246	3/F to 4/F Slab	09-01-15	13-02-15	30 days													
247	4/F to 5/F Slab	04-02-15	10-03-15	25 days													
248	5/F to 6/F Slab	07-03-15	30-03-15	20 days													
249	6/F to 7/F Slab	27-03-15	17-04-15	15 days													
250	7/F to 8/F Slab	15-04-15	30-04-15	14 days													
251	8/F to 9/F Slab	06-05-15	27-05-15	14 days													
252	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	21-05-15	04-02-16	192 days													
283	39/F - Main Roof slab	02-02-16	24-02-16	16 days													
284	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	20-02-16	13-06-16	79 days													
285	Parapet Wall	22-02-16	15-04-16	40 days													
286	Lift Machine Room	20-02-16	27-04-16	50 days													
287	Water Tank	20-02-16	13-06-16	79 days													
288	Generator Room	25-02-16	04-05-16	50 days													
289	Block 2	09-01-14	16-05-16	638 days													
290	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days													
291	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days													
292	Water Test for Drainage Works	28-03-14	13-05-14	30 days													
293	Construction of Precast Water Tank	26-04-14	06-06-14	33 days													
294	Installation of P.C. Water Tank	27-08-14	06-09-14	10 days													
295	G/F - 1/F slab	29-05-14	13-09-14	75 days													
296	1/F - 2/F slab	03-09-14	07-11-14	52 days													
297	2/F - Level 22.10 (Transfer Structure)	06-11-14	06-02-15	76 days													
298	Level 22.10 - 3/F slab	27-01-15	25-02-15	21 days													
299	3/F to 4/F Slab	13-02-15	25-03-15	30 days													
300	4/F to 5/F Slab	17-03-15	13-04-15	20 days													
301	5/F to 6/F Slab	01-04-15	21-04-15	14 days													
302	6/F to 7/F Slab	18-04-15	02-05-15	12 days													
303	7/F to 8/F Slab	29-04-15	12-05-15	10 days													
304	8/F to 9/F Slab	13-05-15	28-05-15	10 days													
305	9/F to 10/F Slab	22-05-15	04-06-15	9 days													

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014	2015	2016	2017														
					1st Quarter			4th Quarter			3rd Quarter			2nd Quarter			1st Quarter			4th Qua		
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep		
306	10/F to 37/F (27 Floors x 6 days cycle) details shown in 90 days programme	02-06-15	20-01-16	172 days																		
334	37/F - Main Roof slab	16-01-16	18-02-16	25 days																		
335	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	15-02-16	16-05-16	67 days																		
336	Parapet Wall	16-02-16	08-04-16	40 days																		
337	Lift Machine Room	15-02-16	05-05-16	60 days																		
338	Water Tank	17-02-16	16-05-16	65 days																		
339	Generator Room	19-02-16	11-05-16	60 days																		
340	Block 3	09-01-14	18-06-16	660 days																		
341	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days																		
342	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days																		
343	Water Test for Drainage Works	28-03-14	13-05-14	30 days																		
344	Construction of Precast Water Tank	26-04-14	06-06-14	33 days																		
345	Installation of P.C. Water Tank	28-08-14	08-09-14	10 days																		
346	G/F - 1/F slab	31-05-14	15-09-14	74 days																		
347	1/F - Level 16.30 (Transfer Structure)	02-09-14	30-12-14	96 days																		
348	Level 16.30 - 2/F slab	17-12-14	24-01-15	30 days																		
349	2/F to 3/F Slab	16-01-15	09-03-15	40 days																		
350	3/F to 4/F Slab	06-03-15	28-03-15	20 days																		
351	4/F to 5/F Slab	26-03-15	22-04-15	20 days																		
352	5/F to 6/F Slab	20-04-15	04-05-15	12 days																		
353	6/F to 7/F Slab	29-04-15	14-05-15	12 days																		
354	7/F to 8/F Slab	12-05-15	29-05-15	12 days																		
355	8/F to 9/F Slab	30-05-15	10-06-15	10 days																		
356	9/F to 39/F (30 Floors x 6 days cycle) details shown in 90days programme	08-06-15	20-02-16	190 days																		
387	39/F - Main Roof slab	18-02-16	04-03-16	14 days																		
388	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	02-03-16	18-06-16	75 days																		
389	Parapet Wall	02-03-16	26-04-16	40 days																		
390	Lift Machine Room	02-03-16	11-05-16	50 days																		
391	Water Tank	02-03-16	18-06-16	75 days																		
392	Generator Room	05-03-16	16-05-16	50 days																		
393	Block 4	09-01-14	16-06-16	658 days																		
394	Pile Cap - G/F (Slab)	09-01-14	10-06-14	116 days																		
395	Under Ground Drainage and Tanking	15-02-14	07-05-14	60 days																		
396	Water Test for Drainage Works	28-03-14	13-05-14	30 days																		
397	Construction of Precast Water Tank	26-04-14	06-06-14	33 days																		
398	Installation of P.C. Water Tank	02-08-14	18-08-14	10 days																		
399	G/F - 1/F slab	31-05-14	25-08-14	58 days																		
400	1/F - Level 16.75 (Transfer Structure)	04-08-14	21-11-14	84 days																		
401	Level 16.75 - 2/F slab	01-11-14	15-12-14	38 days																		
402	2/F to 3/F Slab	08-12-14	31-01-15	44 days																		
403	3/F to 4/F Slab	22-01-15	27-02-15	27 days																		
404	4/F to 5/F Slab	18-02-15	24-03-15	25 days																		
405	5/F to 6/F Slab	21-03-15	17-04-15	20 days																		
406	6/F to 7/F Slab	15-04-15	02-05-15	15 days																		
407	7/F to 8/F Slab	29-04-15	18-05-15	15 days																		
408	8/F to 9/F Slab	14-05-15	02-06-15	13 days																		
409	9/F to 40/F (31 Floors x 6 days cycle) details shown in 90 days programme	30-05-15	20-02-16	197 days																		
441	40/F - Main Roof slab	18-02-16	05-03-16	15 days																		
442	Main Roof - LMR - Upper Roof (Detailed Programmed to be Submitted Separately)	03-03-16	16-06-16	72 days																		
443	Parapet Wall	03-03-16	27-04-16	40 days																		
444	Lift Machine Room	03-03-16	12-05-16	50 days																		
445	Water Tank	03-03-16	16-06-16	72 days																		

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014				2015			2016			2017		
					1st Quarter			4th Quarter	3rd Quarter		2nd Quarter	1st Quarter		4th Qua			
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep			
446	Generator Room	07-03-16	17-05-16	50 days													
447	Link Decks	15-07-15	31-07-17	547 days													
448	Submit SSP	15-07-15	19-07-15	4 edays													
449	Submit & Approve Method Statement for Footing Construction	24-07-15	04-08-15	10 days													
450	Apply for CM's Permission for excavation & footing	05-08-15	04-09-15	22 days													
451	Link Decks No. 1	09-09-16	31-07-17	243 days													
452	Excavation for the footing	09-09-16	29-09-16	17 days													
453	Footing construction	30-09-16	18-10-16	14 days													
454	Link Decks Structure Construction	16-01-17	24-03-17	50 days													
455	Link Decks Finishing Works	27-03-17	31-07-17	90 days													
456	Link Decks No. 2 and 3	12-08-16	31-07-17	264 days													
457	Link Decks Column	12-08-16	17-09-16	28 days													
458	Link Decks Structure Construction	19-09-16	30-11-16	61 days													
459	Link Decks Finishing Works	02-01-17	31-07-17	150 days													
460	Link Decks No.4	29-09-16	31-07-17	227 days													
461	Link Decks Structure Construction	29-09-16	30-11-16	52 days													
462	Link Decks Finishing Works	16-01-17	31-07-17	140 days													
463	Link Decks No.5	14-07-16	31-07-17	284 days													
464	Link Decks Structure Construction	14-07-16	19-08-16	24 days													
465	Link Decks Finishing Works	16-01-17	31-07-17	140 days													
466	Link Decks No. 6	05-04-16	31-07-17	351 days													
467	Excavation for the footing	05-04-16	12-04-16	7 days													
468	Footing construction	14-04-16	27-04-16	11 days													
469	Link Decks Structure Construction	27-04-16	24-06-16	40 days													
470	Link Decks Finishing Works	14-12-16	31-07-17	164 days													
471	Link Decks No. 7	30-06-16	31-07-17	292 days													
472	Excavation for the footing	30-06-16	11-07-16	7 days													
473	Footing construction	12-07-16	26-07-16	12 days													
474	Link Decks Structure Construction	18-10-16	13-02-17	94 days													
475	Link Decks Finishing Works	16-03-17	31-07-17	97 days													
476	Link Decks No. 8	21-07-16	31-07-17	278 days													
477	Excavation for the footing	21-07-16	28-07-16	7 days													
478	Footing construction	29-07-16	20-08-16	12 days													
479	Link Decks Structure Construction	19-12-16	24-03-17	70 days													
480	Link Decks Finishing Works	27-03-17	31-07-17	90 days													
481	Finishing Works	28-05-15	24-07-17	576 days													
482	Sample Wing @ Blk 1	28-05-15	21-08-15	60 days													
483	Sample Wing @ Blk 4	03-06-15	27-08-15	60 days													
484	Internal finishes for Flat Unit (Detailed Programmed to be Submitted Separately)	28-05-15	04-07-17	562 days													
485	Fair Face Formation	28-05-15	16-05-16	260 days													
486	Door Subframe	18-06-15	13-06-16	260 days													
487	Drywall	29-05-15	17-06-16	280 days													
488	Window Frame	28-08-15	09-07-16	230 days													
489	Door Kerb	24-09-15	04-07-16	205 days													
490	Waterproofing (Kitchen)	05-10-15	20-07-16	211 days													
491	Floor Screeding	10-10-15	08-08-16	221 days													
492	Wall Tiling (Including Making Good of Concrete Surface)	10-11-15	06-09-16	215 days													
493	Floor Tiling	10-12-15	22-09-16	203 days													
494	Skim coat and Painting (except final paint)	10-10-15	29-05-17	440 days													
495	Final Paint	12-08-16	04-07-17	245 days													
496	P & D Pipework	24-11-15	24-05-17	400 days													
497	Door Set & Ironmongeries	16-07-16	01-06-17	240 days													

Construction of Public Rental Housing Development at Tung Chung Area 56


Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014			2015			2016			2017						
					1st Quarter			4th Quarter			3rd Quarter			2nd Quarter			1st Quarter			4th Qua
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep
550	Water Tightness Test for Tie Bolt Holes	29-04-16	19-04-17	260 days																
551	Spray Paint	25-06-16	09-05-17	235 days																
552	P & D Pipework	08-07-16	10-05-17	230 days																
553	Gas Pipework	14-07-16	21-04-17	214 days																
554	Glazing Installation	14-07-16	20-06-17	255 days																
555	Sealant Pointing	08-08-16	26-06-17	240 days																
556	Water Tightness Test for Façade Joint and Windows	19-08-16	28-06-17	238 days																
557	Finishing Works for External Wall after Material Hoist and Passenger Hoist Dismantling	19-10-16	15-06-17	180 days																
558	Internal Finishes (G/F - 1/F)	06-04-16	24-07-17	345 days																
559	Door Subframe	06-04-16	31-05-16	40 days																
560	Blockwork	26-04-16	04-07-16	45 days																
561	Door Kerb & Additional U Chaneel	22-06-16	26-04-17	230 days																
562	Waterproofing	05-07-16	24-02-17	180 days																
563	Wall Backing & Fair Face Formation	25-07-16	05-11-16	79 days																
564	Floor Screeding	13-08-16	31-05-17	220 days																
565	Wall Tiling	31-08-16	09-03-17	150 days																
566	Floor Tiling	15-09-16	15-03-17	141 days																
567	Skim coat and Painting	23-09-16	15-05-17	177 days																
568	Door Set & Ironmongeries	24-04-17	19-06-17	40 days																
569	Mail Box and Guard counter	24-04-17	24-07-17	65 days																
570	Play Surfaces and Play Equipment	06-06-17	24-07-17	35 days																
571	External Finishes (G/F - 1/F)	15-06-16	12-07-17	290 days																
572	Fair Face Formation	15-06-16	21-03-17	210 days																
573	Steel and Metal Works	27-07-16	21-06-17	245 days																
574	Metal Door Louver and Windows	23-08-16	07-06-17	220 days																
575	Shutter (shopfront)	17-10-16	06-06-17	175 days																
576	Glass Door and Glass Shop Front	31-10-16	06-07-17	185 days																
577	Signbox (shopfront)	10-11-16	12-07-17	180 days																
578	Spray Paint	26-10-16	31-05-17	163 days																
579	Plumbing and Drainage Works	29-11-14	18-07-17	706 days																
580	Form WWO 46 Part I & II Submission	29-11-14	29-11-14	0 days																
581	Plumbing and Drainage Pipework Installation for Block 1-4	29-02-16	31-05-17	333 days																
582	Installation of Water Meter for Flat Unit	12-04-17	21-06-17	50 days																
583	Hydraulic Test of Plumbing System	28-04-17	14-06-17	33 days																
584	Leakage Test of Drainage System	15-06-17	18-07-17	24 days																
585	Building Services Installation	26-05-14	20-07-17	849 days																
586	Electrical Works for Domestic Blocks	26-05-14	18-07-17	847 days																
587	Concealed Conduit Installation & Other Conduit Works	26-05-14	30-06-16	565 days																
588	Wiring Works	11-09-15	17-10-16	293 days																
589	Handover of TX Room for NSCs	26-04-16	26-04-16	0 days																
590	TX Room Inspection & Handover to CLP	15-06-16	15-06-16	0 days																
591	Make Available Vehicular Access for TX Installation	24-05-16	24-05-16	0 days																
592	Make Available 1.5m Wide Area for UG Cable Route to CLP	15-06-16	15-06-16	0 days																
593	Handover of Main Switch Room for NSC	14-03-15	14-03-15	0 days																
594	Handover of Low Zone Meter Rooms for NSC	29-03-16	29-03-16	0 days																
595	Handover of High Zone Meter Rooms to NSC	27-05-16	27-05-16	0 days																
596	Handover of Genset Room for NSC	05-10-16	05-10-16	0 days																
597	Make Available Vehicular Access for Transportation of Equipment to Genset & Main Switch Rm	05-08-16	05-08-16	0 days																
598	Make Available the U/G Cable Ducts and Draw Pits to NSC and CLP	19-09-16	19-09-16	0 days																
599	CLP installation & power-on of TxRm	19-09-16	03-11-16	45 edays																
600	Electrical Meter Installation for Common Area and Flat Unit	01-11-16	16-11-16	14 days																
601	Power Energisation	17-11-16	21-11-16	4 days																

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014		2015			2016			2017			
					1st Quarter		4th Quarter		3rd Quarter		2nd Quarter		1st Quarter		4th Qua	
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May
602	Testing & Commissioning	22-11-16	07-12-16	14 days												
603	PV Panel	18-08-15	18-07-17	516 days												
604	Available of Drawing	18-08-15	18-08-15	0 days												
605	Shop Drawing and Method Statement Submission and Approval	18-08-15	03-11-15	60 days												
606	Sample and Mock-up Erection for CM Approval	04-11-15	08-12-15	30 days												
607	PV Panels at Roof Installation	24-11-16	27-04-17	115 days												
608	EMO BIPV Windows Installation / Vertical PV Panels	03-05-17	18-07-17	55 days												
609	FTNS Works & DPTPS Works for Domestic Blocks	02-02-17	20-07-17	120 days												
610	Make Available of TBE Rooms & Telecom Rooms	02-02-17	02-02-17	0 days												
611	Make Available the Lead-in Duct and Area for FTNS & DPTPS	02-02-17	02-02-17	0 days												
612	FTNS Installation	02-02-17	01-06-17	85 days												
613	Testing & Commissioning	02-06-17	20-07-17	35 days												
614	Fire Services Works for Domestic Blocks	26-05-14	16-06-17	825 days												
615	Concealed Conduit and System Installation	26-05-14	24-08-16	600 days												
616	Form WO46 Part I & II Submission	29-11-14	29-11-14	0 days												
617	Make Available of Water Tanks & Pump Rooms on G/F for NSC	12-11-16	12-11-16	0 days												
618	F.S. Pipe and Pump Installation	12-11-16	15-03-17	94 days												
619	Make Available of FS Booster Pump Room & Rainwater Treatment Plant Room	12-11-16	12-11-16	0 days												
620	Make-ready of Water Tanks & Pump Rooms on R/F to NSC	12-11-16	12-11-16	0 days												
621	F.S. Pipe and Pump Installation	14-11-16	15-03-17	93 days												
622	Testing & Commissioning	16-03-17	16-06-17	66 days												
623	Lift Installation Works for Domestic Block and MRL at 1 to 4	25-04-16	06-04-17	255 days												
624	Erection of Metal Scaffoldings inside Lift Shaft	25-04-16	04-06-16	30 days												
625	Handover of Lift Shafts & Lift Machine Room to NSC	30-05-16	07-06-16	7 days												
626	Lifts Installations (110 Calendar Days)	07-06-16	25-09-16	110 edays												
627	Dismantling Metal Scaffoldings inside Lift Shafts	15-10-16	18-10-16	3 days												
628	Submit Form LE5 to EMSD	24-11-16	15-02-17	64 days												
629	EMSD's Inspection & Lift Certificate Issuance	06-01-17	16-03-17	50 days												
630	Lift Inspection by HA	10-02-17	06-04-17	40 days												
631	Town Gas for Domestic Blocks	31-03-17	31-05-17	42 days												
632	Make Available the Area Along External U/G route to T.G.	31-03-17	31-03-17	0 days												
633	T.G. Pipe Installation	31-03-17	31-05-17	61 edays												
634	T.G. Meter Installation	31-03-17	31-05-17	61 edays												
635	Section 5 - ISC, Shops Block, Supermarket, TSPS, RCP, Wet Market	28-08-14	25-08-17	809 days												
636	Issue All Structural Drawing of ISC, Supermarket, TSPS, RCP, Wet Market	28-08-14	28-08-14	0 days												
637	ISC	18-03-16	02-08-17	362 days												
638	RC structure	18-03-16	30-12-16	209 days												
639	Excavation for the footing & Plate Load Test	18-03-16	30-03-16	6 days												
640	Footing construction	31-03-16	20-04-16	15 days												
641	Footing to G/F beam and slab construction	21-04-16	20-08-16	80 days												
642	G/F - roof construction	15-08-16	20-10-16	52 days												
643	Planter and Parapet Wall	29-10-16	21-11-16	20 days												
644	Water Tank	22-11-16	30-12-16	32 days												
645	Finishes	03-01-17	02-08-17	151 days												
646	Roof Finishing Works	03-01-17	01-08-17	150 days												
647	Internal Finishing Works	03-01-17	25-07-17	145 days												
648	External Wall Finishing Works	15-02-17	02-08-17	120 days												
649	Building services installation	14-11-16	02-06-17	149 days												
650	Building services installation	14-11-16	21-04-17	120 days												
651	Handover water tanks & pump rooms to NSC	22-02-17	22-02-17	0 days												
652	FS Pipe & water pump installation	23-02-17	22-03-17	20 days												
653	Testing & commissioning (EL, FS, P&D)	23-03-17	02-06-17	51 days												

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014				2015			2016			2017			
					1st Quarter			4th Quarter	3rd Quarter		2nd Quarter		1st Quarter		4th Qu			
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	
654	Supermarket, TSPS, RCP	25-11-14	25-08-17	739 days														
655	TSPS	25-11-14	03-03-16	348 days														
656	RC Structure	25-11-14	03-03-16	348 days														
657	Submit and Approval of Environmental Office (TSPS)	25-11-14	10-12-14	14 days														
658	Pipe pile & King Post installation & grout curtain (TSPS)	11-12-14	27-01-15	37 days														
659	Pumping test and report submission (TSPS)	28-01-15	03-03-15	25 days														
660	Submit as-built record to CM for Approval (TSPS)	04-03-15	28-03-15	22 days														
661	Submit ICU14 & Obtain CM's Approval for ELS Work (TSPS)	30-03-15	08-05-15	30 days														
662	ELS for the footing (TSPS) & Plate Load Test	09-05-15	05-08-15	60 days														
663	Submit as-built ELS record to ICU (TSPS)	04-07-15	05-08-15	22 days														
664	Footing construction (TSPS)	06-08-15	18-11-15	80 days														
665	Footing to G/F beam and slab construction (TSPS)	19-11-15	24-12-15	30 days														
666	G/F - roof construction (TSPS)	28-12-15	03-03-16	50 days														
667	RCP & Supermarket	18-01-16	25-08-17	427 days														
668	ELSW	18-01-16	03-03-16	36 days														
669	Sheet pile installation (RCP, Supermarket)	18-01-16	02-02-16	14 days														
670	Submit as-built record to CM for Approval (RCP, Supermarket)	03-02-16	03-03-16	22 days														
671	Submit ICU14 & Obtain CM's Approval for ELS Work (RCP & Supermarket)	03-02-16	03-03-16	22 days														
672	RCP	16-06-16	25-08-17	321 days														
673	RC Structure	16-06-16	30-12-16	151 days														
674	Excavation for the footing	16-06-16	07-07-16	14 days														
675	Footing construction	08-07-16	25-07-16	14 days														
676	Footing to G/F beam and slab construction	26-07-16	07-10-16	54 days														
677	G/F - roof construction	08-10-16	26-11-16	42 days														
678	Planter and Parapet Wall	06-12-16	30-12-16	20 days														
679	Finishing Works	19-01-17	03-08-17	140 days														
680	Roof Finishing Works	19-01-17	20-07-17	130 days														
681	Internal Finishing Works	06-02-17	01-06-17	83 days														
682	External Wall Finishing Works	19-01-17	03-08-17	140 days														
683	Building services installation	27-02-17	22-06-17	83 days														
684	Building services installation	27-02-17	25-05-17	63 days														
685	FS installation	27-02-17	25-05-17	63 days														
686	Testing & commissioning (EL, FS, P&D)	26-05-17	22-06-17	20 days														
687	Refuse Handling System Installation	01-06-17	25-08-17	61 days														
688	Make Available RCP, JCP & Refuse Rooms to Direct Contractor	01-06-17	01-06-17	0 days														
689	Make Available Vehicular Access for Transportation of Equipment	01-06-17	01-06-17	0 days														
690	Installation Works	02-06-17	18-08-17	56 days														
691	Trial Run by Refuse Collection Vehicle	21-08-17	25-08-17	5 days														
692	Supermarket	14-03-16	02-08-17	366 days														
693	RC Structure	14-03-16	05-01-17	218 days														
694	Excavation for the footing	14-03-16	09-04-16	18 days														
695	Footing construction	11-04-16	23-05-16	30 days														
696	Footing to G/F beam and slab construction	17-05-16	29-08-16	69 days														
697	G/F - roof construction	26-08-16	03-11-16	57 days														
698	Planter and Parapet Wall	12-11-16	05-12-16	20 days														
699	Water Tank	23-11-16	05-01-17	36 days														
700	Finishing Works	06-01-17	02-08-17	148 days														
701	Roof Finishing Works	06-01-17	28-07-17	145 days														
702	Internal Finishing Works	06-01-17	21-07-17	140 days														
703	External Wall Finishing Works	15-02-17	02-08-17	120 days														
704	Building services installation	26-01-17	15-06-17	100 days														
705	Building services installation	26-01-17	26-05-17	86 days														

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014												2015			2016			2017		
					1st Quarter			4th Quarter			3rd Quarter			2nd Quarter			1st Quarter			4th Qua					
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep					
706	Make Available water tanks & pump rooms to NSC	06-02-17	06-02-17	0 days																					
707	FS installation & water pump installation	06-02-17	06-03-17	21 days																					
708	Testing & commissioning (EL, FS, P&D)	07-03-17	15-06-17	72 days																					
709	Wet Market	09-11-15	16-08-17	473 days																					
710	RC structure (Detailed Programmed to be Submitted Separately)	09-11-15	23-03-17	370 days																					
711	Excavation for the footing	09-11-15	01-12-15	20 days																					
712	Zone 1	19-11-15	11-11-16	261 days																					
713	ELSW & Footing construction	19-11-15	30-12-15	33 days																					
714	Footing to G/F beam and slab construction and UG Drainage Works	31-12-15	09-05-16	94 days																					
715	G/F - M/F construction	11-05-16	18-07-16	45 days																					
716	M/F - roof construction	18-07-16	06-10-16	60 days																					
717	Planter wall & other RC features on roof	07-10-16	11-11-16	30 days																					
718	Zone 2	05-12-15	21-11-16	255 days																					
719	ELSW & Footing construction	05-12-15	16-01-16	30 days																					
720	Footing to G/F beam and slab construction and UG Drainage Works	18-01-16	19-05-16	90 days																					
721	G/F - roof construction	20-05-16	27-09-16	90 days																					
722	Planter wall & other RC features on roof	28-09-16	21-11-16	45 days																					
723	Zone 3	22-12-15	29-12-16	273 days																					
724	ELSW & Footing construction	22-12-15	29-01-16	28 days																					
725	Footing to G/F beam and slab construction and UG Drainage Works	30-01-16	20-05-16	80 days																					
726	G/F - roof construction	23-05-16	28-09-16	90 days																					
727	Planter wall & other RC features on roof	05-11-16	29-12-16	45 days																					
728	Zone 4 (After Removal of Tower Crane for Block 2)	18-06-16	23-03-17	209 days																					
729	ELSW & Footing construction	18-06-16	09-07-16	14 days																					
730	Footing to G/F beam and slab construction and UG Drainage Works	11-07-16	30-08-16	35 days																					
731	G/F - M/F construction	31-08-16	31-10-16	50 days																					
732	M/F - roof construction	31-10-16	17-12-16	42 days																					
733	Planter wall & other RC features on roof	06-01-17	16-03-17	50 days																					
734	F.S. Water Tank and Roof Slab	06-01-17	23-03-17	55 days																					
735	Finishing Works	25-10-16	16-08-17	219 days																					
736	Roof Finishing Works	15-02-17	16-08-17	130 days																					
737	Internal Finishing Works	25-10-16	29-06-17	185 days																					
738	External Wall Finishing Works	09-01-17	24-07-17	140 days																					
739	Building services installation	07-10-16	07-04-17	140 days																					
740	Builder's works & BS installation in G/F TX Rm + Switch Rm	25-10-16	01-11-16	7 days																					
741	Clear 1.5m area on external U/G cable	01-11-16	01-11-16	0 days																					
742	Make available vehicular access to Tx Rm	01-11-16	01-11-16	0 days																					
743	Handover Main Switch Room to NSC	01-11-16	01-11-16	0 days																					
744	Handover TX Rm to CLP	01-11-16	01-11-16	0 days																					
745	CLP installation in TX Rm. & lead-in cables wiring	01-11-16	16-12-16	45 edays																					
746	Power energisation to Wet Market by CLP	16-12-16	03-01-17	14 days																					
747	Builder's works & BS installation in M/F Genset Rm	01-11-16	16-11-16	14 days																					
748	Handover Genset Rm to NSC	16-11-16	16-11-16	0 days																					
749	Genset installation by NSC	17-11-16	21-12-16	30 days																					
750	Builder's works & BS installation in M/F FS Pump Rm + G/F FS Control Rm	06-02-17	07-03-17	22 days																					
751	Handover M/F FS Pump Rm + G/F FS Control Rm to NSC	07-03-17	07-03-17	0 days																					
752	FS Installation & Water Pump Installation	08-03-17	07-04-17	23 days																					
753	Handover Chiller Plant Room to NSC	07-10-16	07-10-16	0 days																					
754	Handover AHU Room and Fan Room to NSC	05-12-16	05-12-16	0 days																					
755	AHU System Installation	07-12-16	07-04-17	90 days																					
756	Section 6 - Fit-out to Wet Market	17-12-14	24-08-17	719 days																					
757	Confirmation for the Scope for Fitting-out of Wet Market	17-12-14	17-12-14	0 days																					

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Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014		2015			2016			2017					
					1st Quarter		4th Quarter		3rd Quarter		2nd Quarter		1st Quarter		4th Qua			
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	
758	Issue Drawings for Fitting-out of Wet Market (SI - A053)	17-12-14	17-12-14	0 days														
759	Wet & Dry Stall Installation	29-10-16	14-06-17	170 days														
760	GMS Bulkhead & Signage Installation	21-12-16	26-07-17	155 days														
761	Associated Building Services Installation	25-11-16	07-04-17	100 days														
762	Inspection & Handover	27-07-17	24-08-17	21 days														
763	Section 7 - Estate Road, EVA, Carriageway & Basement Car park	25-08-14	25-08-17	813 days														
764	Basement car park	25-08-14	21-08-17	809 days														
765	RC structure	25-08-14	21-03-17	701 days														
766	Pipe pile installation & grout curtain	25-08-14	21-01-15	120 days														
767	Pumping test and report submission	22-01-15	07-02-15	15 days														
768	Submit as-built record to CM for Approval	09-02-15	11-03-15	22 days														
769	Submit ICU14 & Obtain CM's Approval for Bulk Excavation Work	11-03-15	02-04-15	22 edays														
770	ELS for the footing/Plate Load Test	07-04-15	07-09-15	109 days														
771	Submit as-built ELS record to CM	22-08-15	07-09-15	12 days														
772	Obtain consent for footing construction	05-08-15	07-09-15	24 days														
773	Footing construction	08-09-15	27-11-15	65 days														
774	Footing - G/F construction	13-11-15	25-05-16	143 days														
775	Dismantling of ELSW	14-10-15	01-06-16	173 days														
776	Waterproofing / Underground Drainage / On Grade Slab	02-06-16	27-02-17	200 days														
777	Link Bridge	29-12-16	21-03-17	60 days														
778	Green Platform	29-12-16	14-03-17	55 days														
779	Finishes & building services	10-02-17	21-08-17	136 days														
780	Car park wall & ceiling finishes	28-02-17	12-06-17	74 days														
781	Building services & plant rooms installation	10-02-17	05-05-17	60 days														
782	Car park floor finishes	16-05-17	12-07-17	42 days														
783	Elevated walkway, bicycle parking & planter finishes	16-05-17	21-08-17	70 days														
784	Painting works & signage	16-05-17	07-08-17	60 days														
785	Building services installation	09-03-17	06-07-17	85 days														
786	Builder's works & BS installation in Fan Rm,FS Pump rm,Sump Pit Rm & Switch Rm	09-03-17	26-04-17	35 days														
787	Make Available the Fan Room to NSC	26-04-17	26-04-17	0 days														
788	Air Exhaust System Installation	27-04-17	06-07-17	50 days														
789	Make Available the Pump & Sump Pit Room to NSC	05-05-17	05-05-17	0 days														
790	FS pipe & water pump installation	08-05-17	04-07-17	42 days														
791	Make Available the Switch Room to NSC	26-04-17	26-04-17	0 days														
792	E & M installation	27-04-17	06-07-17	50 days														
793	Estate Road, EVA & Carriageway	10-04-15	25-08-17	633 days														
794	Issuance of U/G drainage & Utilities/run-in Connections location to Road L16	10-04-15	10-04-15	0 days														
795	Make Available to Electrical sub-contractor the underground cable ducts and draw pits	03-05-17	03-05-17	0 days														
796	Make available to the Town Gas Co. the area along the external underground route	02-06-17	02-06-17	0 days														
797	Make available to the FTNS the area along the external underground route	03-04-17	03-04-17	0 days														
798	Underground Drainage & Utilities Installation (Details to be submitted separately)	15-10-15	02-06-17	440 days														
799	EVA	06-02-17	30-06-17	104 days														
800	Paving works	05-06-17	25-08-17	60 days														
801	External furniture	05-06-17	25-08-17	60 days														
802	Signage & Road marking	05-05-17	24-08-17	80 days														
803	CCTV for U/G Drainage System	05-06-17	25-08-17	60 days														
804	Section 8 - Temporary Sewage Pumping Station including Rising Mains	25-11-14	22-02-17	608 days														
805	Submit the EO to CM and EPD Approval	25-11-14	25-11-14	0 days														
806	Rising Mains for Sewage Pumping	15-08-16	13-10-16	46 days														
807	Plant & M&E Installation of the TSPS (4 months)	16-06-16	13-10-16	86 days														
808	Testing & Commissioning of the TSPS (more than 2 months)	14-10-16	22-02-17	104 days														
809	Section 9 - Remaining Works	20-08-15	22-08-17	539 days														

Construction of Public Rental Housing Development at Tung Chung Area 56

ID	Task Name	Start	Finish	Duration	2014				2015				2016				2017			
					1st Quarter			4th Quarter	3rd Quarter			2nd Quarter	1st Quarter			4th Qua				
					Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep			
810	Last Manhole Connections (Details to be Submitted Separately)	16-11-15	25-07-17	451 days																
811	Construction of Last Manholes (Tally w/ the Progress of Civil Works Contractor)	16-11-15	12-12-16	290 days																
812	Technical Audit by DSD	03-04-17	05-05-17	24 days																
813	Issuance of Acceptance Letter	25-07-17	25-07-17	0 days																
814	Under Ground Pumping and F.S. Pipe Works (Details to be Submitted Separately)	06-08-16	04-05-17	204 days																
815	Water Submains and Irrigation Water Pipe	06-08-16	04-05-17	204 days																
816	F.S. water pipe and sheet Fire Hydrant	24-10-16	04-05-17	146 days																
817	Master Water Meter Room	20-08-15	31-03-16	170 days																
818	Amphitheatre/Open Plaza Construction (Details to be Submitted Separately)	06-08-16	09-08-17	273 days																
819	ELSW and Plate Load Test	06-08-16	27-08-16	13 days																
820	Obtain Consent for Footing Construction	27-08-16	10-09-16	14 edays																
821	Construction of Footing for Amphitheatre	29-09-16	04-11-16	30 days																
822	Construction of Amphitheatre and Open Plaza	14-11-16	03-02-17	65 days																
823	Finishing Works for Amphitheatre	22-02-17	09-08-17	120 days																
824	Planter Construction (including planter finish)	02-03-17	08-08-17	113 days																
825	Pergola Construction	17-05-17	08-08-17	60 days																
826	Perimeter Fence Wall & Covered Walkway Construction	17-05-17	22-08-17	70 days																
827	Final Inspection Processes	30-05-16	31-08-17	335 days																
828	Inspection by WSD	01-03-17	14-08-17	118 days																
829	Submit Form WWO 46 Part IV for Plumbing	01-03-17	31-05-17	65 days																
830	WSD inspection for Plumbing	02-03-17	13-06-17	73 days																
831	Cleansing & Disinfection of the Plumbing System	14-06-17	11-07-17	20 days																
832	Water Samplig Test	12-07-17	08-08-17	20 days																
833	Obtain water cert for Plumbing	14-08-17	14-08-17	0 days																
834	Submit Form WWO 46 Part IV for FS	15-03-17	15-03-17	0 days																
835	WSD inspection for FS	16-03-17	30-06-17	76 days																
836	Obtain water cert for FS	07-07-17	07-07-17	0 days																
837	Inspection by FSD	27-06-17	31-07-17	25 days																
838	FS integration test (EL+FS+P&D)	27-06-17	10-07-17	10 days																
839	Submission of Form 314 & 501	10-07-17	10-07-17	0 days																
840	FSD Inspection	18-07-17	24-07-17	5 days																
841	Re-inspection	25-07-17	31-07-17	5 days																
842	Issuance of FS Cert	31-07-17	31-07-17	0 days																
843	ICU Submission of OP	17-07-17	28-08-17	30 days																
844	Latest submission to CM to prepare Record Plan	17-07-17	17-07-17	0 days																
845	Latest submission of Material+EMSD+FS+Water Cert for ICU13 Submission	28-08-17	28-08-17	0 days																
846	Submit Form ICU13 to CM Processing OP Application	31-08-17	31-08-17	0 days																
847	Project Inspection and Handover	30-05-16	31-08-17	335 days																
848	Water Tightness Test for VPBs	30-05-16	04-05-17	250 days																
849	Water Tightness Test for Kitchen and Refuse Storage Room	09-09-16	14-06-17	210 days																
850	Flat - to - flat Inspection and Handover	12-12-16	23-06-17	140 days																
851	Defect Rectification Works and Re-inspection	22-02-17	26-07-17	110 days																
852	Common Areas and External Area Inspection	30-06-17	27-07-17	20 days																
853	Finial Inspection of External Works	03-08-17	31-08-17	21 days																



APPENDIX D

Waste Flow Table

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

Month	Estimated Annual Quantities of Inert C&D Materials (in '000 Kg)					Estimated Quantities of C&D Waste					
	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)
2014											
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
2015											
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											
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
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.600	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.180	0.000
Grand Total	287888%	0%	0%	0%	287888%	0%	0%	0%	0%	18633%	0%

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 Authority	6 Jun 2013	N/A	TSPS Only	Active

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 (include TSPS)	13 Nov 2013	N/A

Billing Account for Disposal of Construction Works

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

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 (include TSPS)	Spent lubricant, Spent Flammable Liquid, Spent organic solvent, contaminated rags	19 Nov 2014	N/A

Wastewater Discharge Licence

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

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	Expired, as replaced by GW-RS0489-17
GWORS0489-17	Entire Site of the Contract (include TSPS)	29 Jun 2017	28 December 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
33 rd Reporting Month (1 July 2017 – 31 July 2017)	0	0	0
Cumulative Statistics (19 Nov 2014 – 31 July 2017)	0	0	0