

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

**Monthly Environmental Audit Report No. 29  
(Covering the Period from 1 March 2017 to 31 March 2017)**

12 May 2017

Revision 00

Main Contractor



**HSIN新昌  
CHONG**

Independent Checker

**ATKINS**



Client: Hong Kong Housing Authority	Contract No. (if any):
Project Title: Temporary Sewage Pumping Station Ancillary to Tung Chung Area 56 Public Housing Development	Project No.: 5135697
Document No.: 5135697-OR029-00	Controlled Copy No.:
Document Title: Monthly Environmental Audit Report No. 29 (Covering the Period from 1 March 2017 to 31 March 2017)	
Covering Letter/Transmittal Ref. No.: 5135697/20.10/OC164/WW/HY	Date of Issue: 12 May 2017

#### Revision, Review and Approval Records

		/	/	/	/
		/	/	/	/
00	Monthly EA Report No. 29	 Heidi Yeung 12 May 2017	 Keith Chau 12 May 2017	 Wing Wong 12 May 2017	 Wing Wong 12 May 2017
Rev.	Description	Prepared by / date	Checked by / date	Reviewed by / date	Approved by / date

#### Distribution

Controlled Copy No.	Issued to
1 - 5	Environmental Protection Department
6	Hong Kong Housing Authority
7	Hsin Chong Construction Company Ltd.
8	Office Copy



## Contents

### Executive Summary

<b>1</b>	<b>INTRODUCTION</b> .....	<b>2</b>
1.1	Basic Project Information .....	2
1.2	Project Organisation.....	3
1.3	Construction Programme .....	3
1.4	Construction Works Undertaken During the Reporting Period .....	3
<b>2</b>	<b>ENVIRONMENTAL SITE AUDIT</b> .....	<b>4</b>
2.1	Site Inspection.....	4
2.2	Advice on the Solid and Liquid Waste Management Status.....	4
2.3	Environmental Licenses and Permits .....	4
2.4	Implementation Status of Environmental Mitigation Measures.....	4
2.5	Summary of Complaints, Notification of Summons and Successful Prosecution .....	5
<b>3</b>	<b>FUTURE KEY ISSUES</b> .....	<b>6</b>
3.1	Construction Programme for the Coming Months .....	6
3.2	Environmental Site Inspection Schedule for the Coming Month.....	6
<b>4</b>	<b>CONCLUSION</b> .....	<b>7</b>
4.1	Conclusions.....	7

### Appendices

Appendix A	Location of the Project and the Contract
Appendix B	Project Organization for Environmental Works
Appendix C	Construction Programme
Appendix D	Waste Flow Table
Appendix E	Environmental Licenses and Permits
Appendix F	Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions



## **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 twenty-ninth monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 31 March 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).





## 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 twenty-ninth monthly Environmental Audit Report for the Project which summarizes the audit findings during the reporting period from 1 to 31 March 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);
- 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 1, 7, 17, 23 and 29 March 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
23 February 2017	Waste was accumulated at the drainage channel on the rooftop of TSPS.	The accumulated waste was removed from the drainage channel on the rooftop of the Temporary Pumping Station.	7 March 2017
	Stagnant water was observed at the ditch near the front door of the TSPS.	The stagnant water was removed from the ditch near the front door of the Temporary Pumping Station.	1 March 2017
1 March 2017	Nil.	Nil.	Not applicable.
7 March 2017	Nil.	Nil.	Not applicable.
17 March 2017	Nil.	Nil.	Not applicable.
23 March 2017	Nil.	Nil.	Not applicable.
29 March 2017	Nil.	Nil.	Not applicable.

- 2.1.3 No particular issues were identified during the regular environmental weekly site inspections conducted on 1, 7, 17, 23 and 29 March 2017 during the reporting period. 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 April 2017 includes:

- Plant, mechanical, electrical and fire services 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 7, 14, 21 and 28 April 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 1, 7, 17, 23 and 29 March 2017 during the reporting period. 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**

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### 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



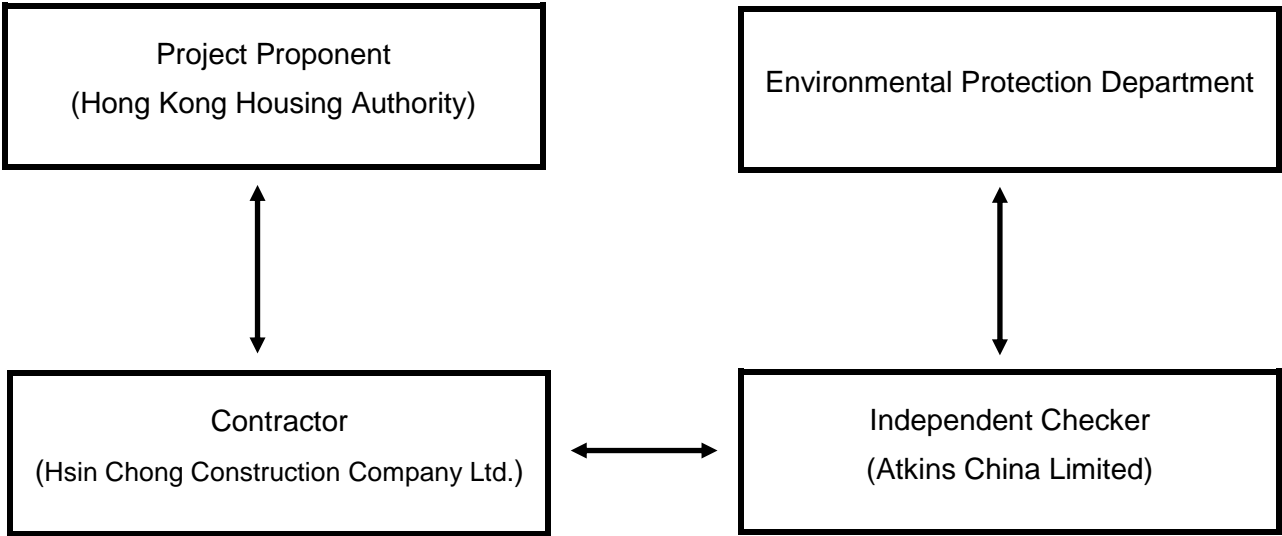


## **APPENDIX B**

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### Project Organization for Environmental Works

# Project Organization for Environmental Works





## **APPENDIX C**

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### 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	<b>Construct Particulars</b>	18-12-13	31-08-17	997 days																					
2	Contract commencement of all sections of works	18-12-13	18-12-13	0 days																					
3	Possession of Site	18-12-13	18-12-13	0 days																					
4	Original Project Completion Date	17-08-16	17-08-16	0 days																					
5	<b>Extended Project Completion Date with Granted EOT (Up to 17 Dec 2016)</b>	09-12-16	05-01-17	21 days																					
6	Section 1	02-01-17	02-01-17	0 days																					
7	Section 2	31-12-16	31-12-16	0 days																					
8	Section 3	04-01-17	04-01-17	0 days																					
9	Section 4	05-01-17	05-01-17	0 days																					
10	Section 5 - Section 9	09-12-16	09-12-16	0 days																					
11	<b>Anticipated completion Date</b>	22-02-17	31-08-17	135 days																					
12	Section 1-4	31-07-17	31-07-17	0 days																					
13	Section 5 - 7 & 9	31-08-17	31-08-17	0 days																					
14	Section 8	22-02-17	22-02-17	0 days																					
15	<b>Preliminaries</b>	18-12-13	25-08-17	994 days																					
16	<b>Site Establishment</b>	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 days																					
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 days																					
30	Erection of Tower Cranes (Block 2)	15-04-14	05-05-14	14 days																					
31	Dismantling of Tower Cranes (Block 1)	19-08-16	26-08-16	7 days																					
32	Dismantling of Tower Cranes (Block 2)	26-05-16	03-06-16	7 days																					
33	Dismantling of Tower Cranes (Block 3)	27-08-16	03-09-16	7 days																					
34	Dismantling of Tower Cranes (Block 4)	05-09-16	12-09-16	7 days																					
35	1st Erection of Material Hoists Starting from Ground Level (Block 1)	14-02-15	28-03-15	32 days																					
36	1st Erection of Material Hoists Starting from Ground Level (Block 2)	26-03-15	15-04-15	14 days																					
37	1st Erection of Material Hoists Starting from Ground Level (Block 3)	30-03-15	18-04-15	14 days																					
38	1st Erection of Material Hoists Starting from Ground Level (Block 4)	28-02-15	30-03-15	26 days																					
39	Dismantling of Material Hoists (Block 1 - 4)	13-09-16	18-10-16	28 days																					
40	1st Erection of Passenger Hoists (Block 1 - 4)	10-04-15	04-07-15	62 days																					
41	Dismantling of Passenger Hoists	17-03-17	25-04-17	28 days																					
42	1st Erection of Temporary Refuse Chutes (Block 1 - 4)	07-03-15	15-04-15	30 days																					
43	Dismantling of Temporary Refuse Chutes	05-09-16	07-10-16	26 days																					
44	Dismantle of Temp. Tx. Room (after notification from CLP)	24-12-16	12-01-17	14 days																					
45	Latest dismantle of Scaffold for Annex Building	30-06-17	21-07-17	16 days																					
46	Erection of Mid-way Gondola for Block 1, 3 and 4	08-10-15	24-10-15	14 days																					
47	1st Erection of Gondola at Roof for Block 2	27-02-16	20-05-16	60 days																					
48	Erection of Gondola at Roof for Block 1, 3 and 4 (High Zone)	06-02-16	09-03-16	24 days																					
49	Dismantle of Gondola (Block 1 - 4)	19-07-17	25-08-17	28 days																					
50	<b>Relocation of Site Office</b>	24-08-15	10-09-15	14 days																					
51	To 2/F of Block 2 for HA	01-09-15	10-09-15	7 days																					
52	To 1/F of Block 2 for HCC	24-08-15	31-08-15	7 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
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
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	<b>Internal Finishes (G/F - 1/F)</b>	<b>06-04-16</b>	<b>24-07-17</b>	<b>345 days</b>																
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	<b>External Finishes (G/F - 1/F)</b>	<b>15-06-16</b>	<b>12-07-17</b>	<b>290 days</b>																
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	<b>Plumbing and Drainage Works</b>	<b>29-11-14</b>	<b>18-07-17</b>	<b>706 days</b>																
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	<b>Building Services Installation</b>	<b>26-05-14</b>	<b>20-07-17</b>	<b>849 days</b>																
586	<b>Electrical Works for Domestic Blocks</b>	<b>26-05-14</b>	<b>18-07-17</b>	<b>847 days</b>																
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	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	<b>Section 7 - Estate Road, EVA, Carriageway &amp; Basement Car park</b>	<b>25-08-14</b>	<b>25-08-17</b>	<b>813 days</b>													
764	<b>Basement car park</b>	<b>25-08-14</b>	<b>21-08-17</b>	<b>809 days</b>													
765	<b>RC structure</b>	<b>25-08-14</b>	<b>21-03-17</b>	<b>701 days</b>													
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	<b>Finishes &amp; building services</b>	<b>10-02-17</b>	<b>21-08-17</b>	<b>136 days</b>													
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	<b>Building services installation</b>	<b>09-03-17</b>	<b>06-07-17</b>	<b>85 days</b>													
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	<b>Estate Road, EVA &amp; Carriageway</b>	<b>10-04-15</b>	<b>25-08-17</b>	<b>633 days</b>													
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	<b>Section 8 - Temporary Sewage Pumping Station including Rising Mains</b>	<b>25-11-14</b>	<b>22-02-17</b>	<b>608 days</b>													
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	<b>Section 9 - Remaining Works</b>	<b>20-08-15</b>	<b>22-08-17</b>	<b>539 days</b>													







## APPENDIX D

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### 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
<b>Grand Total</b>	<b>2878.880</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>2878.880</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>168.490</b>	<b>0.000</b>

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**

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### 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)**

<b>CNP Number</b>	<b>Area Coverage</b>	<b>Valid Since</b>	<b>Expiry Date</b>	<b>Current Status</b>
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**

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### 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
29 <sup>th</sup> Reporting Month (1 March 2017 – 31 March 2017)	0	0	0
Cumulative Statistics (19 Nov 2014 – 31 March 2017)	0	0	0