

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

**Monthly Environmental Audit Report No. 23  
(Covering the Period from 1 September 2016 to 30 September 2016)**

21 October 2016

Revision 00

Main Contractor



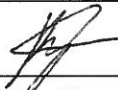



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## **Executive Summary**

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 twenty-third monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 to 30 September 2016.

## **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 and Mechanical & Electrical Installation of the TSPS.



## 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-third monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 to 30 September 2016.



## 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	Ryan Wong	6198 0730	
	Environmental Supervisor	Yolanda Gao	5399 3509	
Independent Checker (Atkins China Limited)	Independent Checker	Ray Chow (Out of duty started from 24 September 2016)	2972 1305	2890 6343
		Ray Cheng (Report duty since 26 September 2016)	2972 1614	

## 1.3 Construction Programme

1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.

## 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 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 6, 13, 20 and 30 September 2016.
- 2.1.2 Observations 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
25 August 2016	Stagnant water was observed at the roof of TSPS.	The stagnant water was removed.	06 September 2016
6 September 2016	No observation was made during this inspection.	Nil	Nil
13 September 2016	No observation was made during this inspection.	Nil	Nil
20 September 2016	No observation was made during this inspection.	Nil	Nil
30 September 2016	No observation was made during this inspection.	Nil	Nil

- 2.1.3 The Contractor has rectified all observation as identified during environmental site inspections during the reporting month. 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 September 2016 includes:

- Plant and Mechanical & Electrical Installation of the TSPS; and
- Waterproofing

#### 3.2 Environmental Site Inspection Schedule for the Coming Month

3.2.1 The tentative schedule for weekly site inspections for October 2016 is 4, 11, 18 and 25 October 2016.



## 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 The weekly site inspections were carried out on 6, 13, 20 and 30 September 2016. The Contractor has rectified all observation as identified during environmental site inspections during the reporting month.
- 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



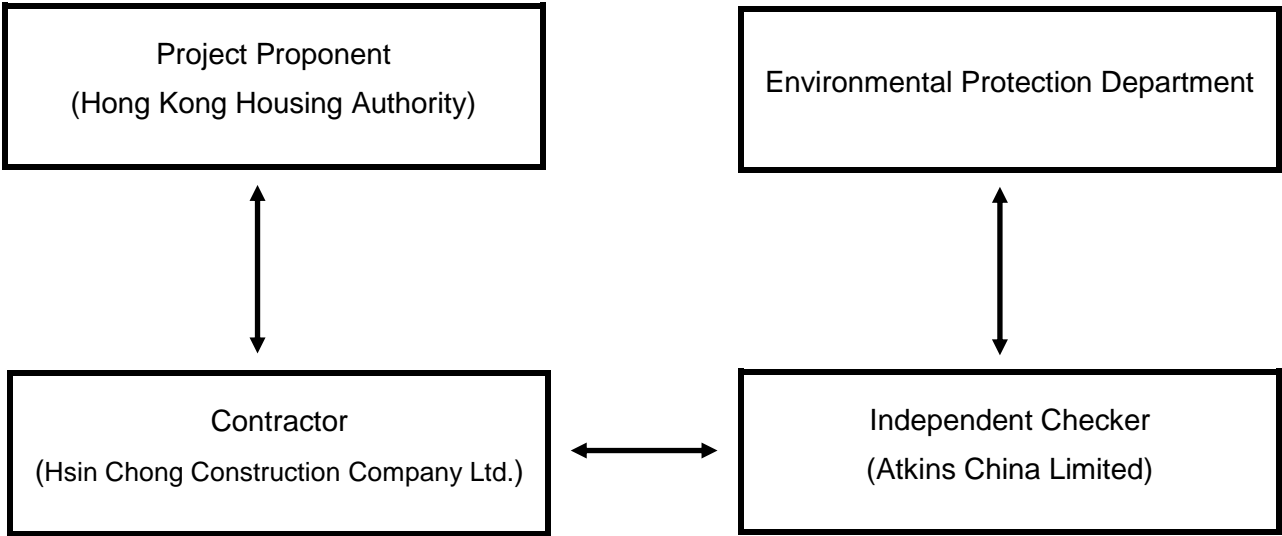
## **APPENDIX B**

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### Project Organization for Environmental Works

# Project Organization for Environmental Works





## **APPENDIX C**

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### Construction Programme











## **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											
<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>139.850</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	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
23rd Reporting Month (1 Sep 2016 – 30 Sep 2016)	0	0	0
Cumulative Statistics (19 Nov 2014 – 30 Sep 2016)	0	0	0