

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

# Monthly Environmental Audit Report No. 2 (Covering the Period from 1 December 2014 to 31 December 2014)

5 January 2015

**Revision 00** 

**Main Contractor** 



**Independent Checker** 





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## **Executive Summary**

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

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

This is the second Monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 December 2014 to 31 December 2014.

#### **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 activities to be undertaken in the upcoming month:

- · Grouting works at TSPS; and
- Installation of water extraction wells.



#### 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 second Monthly Environmental Audit Report for the Project which summaries the audit findings during the reporting period from 1 December 2014 to 31 December 2014.



# 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	Project Manager	Anson Tsui	9226 5161	
(Hsin Chong Construction Company Ltd.)	Environmental Manager	Billy Ha	6590 5606	3480 1791
	Environmental Supervisor	Calvin Lam	9124 0571	
Independent Checker (Atkins China Limited)	Independent Checker	Ray Chow	2972 1305	2890 6343

# 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:
  - Piling works at TSPS;
  - Installation of grouting curtain pipe at TSPS; and
  - Grouting works at 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 2, 10, 18, 23 and 31 December 2014.
- 2.1.2 For the observation issued on 25 November 2014 regarding the broken water pump and accumulated wastewater, the Contractor repaired the water pump and no wastewater was accumulated during the site inspection undertaken on 2 December 2014. The observation was closed on 2 December 2013..
- 2.1.3 Particular observations during the site inspections and the follow up actions taken by the Contractor are described below.

#### 2 December 2014

(a) Oil was observed near a water pump. This observation was closed on 10 December 2014 as the oil near the water pump had been removed during inspection.

#### 10 December 2014

(a) No observation was made during this inspection.

#### 18 December 2014

(a) Oil stain was observed near a drilling machine. This observation was closed on 23 December 2014 as the contaminated soil had been removed.

#### 23 December 2014

(a) No observation was made during this inspection.

#### **31 December 2014**

(a) Piles of more than 20 bags of cement were not covered entirely by impervious sheeting. The contractor was reminded that any stock of more than 20 bags of cement or dry pulverized fuel ash should be covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides

The Contractor has rectified all observations as identified during environmental site inspections during the reporting month. Follow-up actions for the observations issued for the last inspection of the reporting month will be inspected during the next site inspection.

## 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 that chemical waste containers should be properly treated and stored temporarily in a designated chemical waste storage area 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 In response to the site audit findings, the Contractors carried out corrective actions.
- 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 activities for January 2015 include:
    - · Grouting works at TSPS; and
    - Installation of water extraction wells.
- 3.2 Environmental Site Inspection Schedule for the Coming Month
  - 3.2.1 The tentative schedule for weekly site inspections for January 2015 will be every Tuesday (i.e. 6<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup> and 27<sup>th</sup> of January 2015).





#### 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 site inspections were carried out on 2, 10, 18, 23 and 31 December 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 4.1.3 There were no environmental complaints received during the reporting period.
- 4.1.4 No notification of summons and successful prosecution was received during the reporting period.

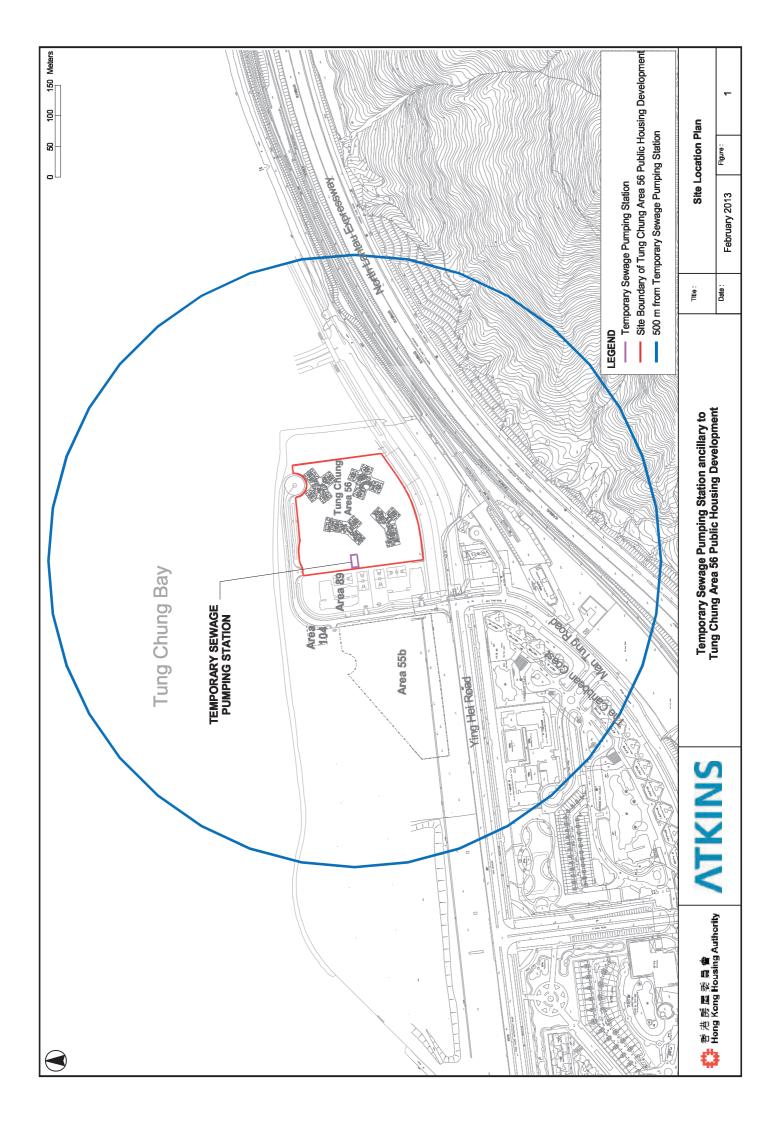




# **APPENDIX A**

Location of the Project and the Contract





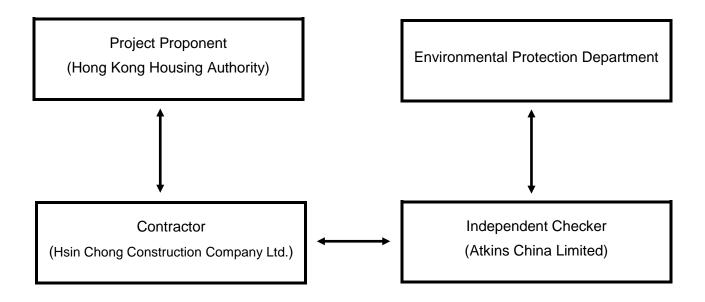


# **APPENDIX B**

Project Organization for Environmental Works



# Project Organization for Environmental Works





# APPENDIX C

Construction Programme



# Master Programme

Construction of Public Rental Housing Development at Tung Chung Area 56

Rev.:4 Date: 11 Nov. 2014

D	Task Name	Start	Finish	Duration	1st Quarter		3rd Quarter	N 15	st Quarter J M		rd Quarter	N	1st Quarter J M	3rd Qua
		6/16/16	7/15/16	25 days	N J N	1 M	1 1 2	IN	3   141	1 141				
619	CPA Fixing	7/5/16	8/30/16	49 days			-							
620	Furniture, fittings, shelving & racks	3/1/16	6/30/16	97 days									₹	
621	Building services installation	3/1/16	6/30/16	97 days										
622	Building services installation	4/8/16	4/8/16	0 days										4/8
623	Handover water tanks & pump rooms to NSC	4/9/16	6/7/16	49 days			į.							
624	FS Pipe & water pump installation	6/8/16	6/25/16	14 days										
625	Testing & commissioning (EL, FS, P&D)	10/21/14	9/6/16	558 days										
626	Supermarket, TSPS, RCP	10/21/14	12/4/15	336 days										
627	RC structure	11/6/14	12/4/14	25 days	f ages (14 s Acans									
628	Excavation to 4.50mpD	10/21/14	10/5/15	285 days								7		
629	TSPS	10/21/14	11/5/14	14 days				turi, orași						
630	Submit and Approval of Environmental Office (TSPS)		1/20/15	37 days	Account of the second		/-		h					
631	Pipe pile & King Post installation & grout curtain (TSPS)	12/5/14 1/21/15	2/18/15	25 days				Proposition of the second of t						
632	Pumping test and report submission (TSPS)		3/19/15	22 days										
533	Submit as-built record to CM for Approval (TSPS)	2/23/15 3/20/15	4/27/15	30 days					<b>*</b>					
534	Submit ICU14 & Obtain CM's Approval for ELS Work (TSPS)	4/28/15	5/28/15	25 days				PARAGODIANA PARAGO						0
35	ELS for the footing (TSPS) & Plate Load Test	5/29/15	6/24/15	22 days							The same of the sa			
536	Submit as-built ELS record to ICU (TSPS)	6/25/15	7/24/15	25 days							-			
37	Footing construction (TSPS)	7/25/15	9/5/15	37 days										
38	Footing to G/F beam and slab construction (TSPS)	9/7/15	10/5/15	23 days								-		
39	G/F - roof construction (TSPS)	1/21/15	12/4/15	260 days				1						
40	RCP & Supermarket	1/21/15	4/22/15	73 days				Page part and page	*					
41	Pipe pile installation (RCP, Supermarket)	4/23/15	5/19/15	22 days	STREET, STREET			Telephone of the control of the cont						
42	Submit as-built record to CM for Approval (RCP, Supermarket)	5/20/15	6/25/15	30 days				The second secon						
43	Submit ICU14 & Obtain CM's Approval for ELS Work (RCP & Supermarket)	6/26/15	8/8/15	37 days										
14	Excavation for the footing (RCP/Supermarket) & Plate Load Test	8/10/15	9/7/15	25 days										
15	Footing construction (RCP/Supermarket)	9/8/15	10/23/15	37 days	and the state of t									
46	Footing to G/F beam and slab construction (RCP/Supermarket)	10/24/15	11/21/15	25 days	The state of the s									
47	G/F - roof construction (RCP/Supermarket)	11/14/15	12/4/15	18 days	William Article Action			Transition of the second				1		
48	Dismantling of ELSW	11/23/15	9/6/16	233 days	The state of the s									
49	Finishes	12/5/15	3/5/16	73 days	ALAMAN ALAMAN							1		
50	Internal Finishes - RCP	12/5/15	2/3/16	49 days										
51	Roof screeding & waterproofing - RCP	2/4/16	3/7/16	25 days	Emphision of the Control of the Cont								Conference of the Conference o	
52	Green roof/sitting bench - RCP	12/5/15	2/3/16	49 days	Difference Action									
53	Internal Finishes - TSPS	12/5/15	2/3/16	49 days	SCORP BOOK							-	Desired P	
54	Roof screeding & waterproofing - TSPS	2/4/16	3/7/16	25 days	PERSONAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSO									
55	Roofing & railing - TSPS	11/23/15	2/22/16	73 days										
56	Internal Finishes - Supermarket	11/23/15	1/21/16	49 days								4		
57	Roof Basket Ball Court Finishes & Roof Finishes - Supermarket	1/5/16	4/6/16	73 days	PARAMETER AND									
58	External wall plastering	3/10/16	5/11/16	49 days	100								9	
59	External wall textured spray painting	5/12/16	6/13/16	25 days										
50	Shop front & window glazing, glass doors	6/14/16	6/21/16	7 days	The state of the s									
51	Doors & ironmongeries	6/22/16	7/6/16	12 days	1000									
52	Sanitary fittings & toilet cubicles	6/14/16	7/13/16	25 days	la constantina de la constantina della constanti									
53	Steel and metal works	7/14/16	8/9/16	23 days										
54	Roller shutter	8/10/16	9/6/16	23 days 24 days										
55	Painting works	7/23/16	8/5/16	12 days										
66	Signage	12/5/15	6/4/16	12 days										
57	Building services installation			-								4	Mercula Merculation	
68	Building services installation	12/5/15	6/4/16	145 days										H H H

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# **APPENDIX D**

Waste Flow Table



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

	Estima	ated Annual Qua	ntities of Inert C&	D Materials (in '00	00 Kg)		Es	stimated Quantiti	es of C&D Waste	)	
Month	Total Quantity Generated	Suitable for Recycled Aggregates	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	Timber
	(a)	(b)	(c)	(d)	(e=a-b-c-d)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000litre)	(in '000 Kg)	(in '000 Kg)
	Est.	Est.	Est.	Est.	Est.	Est.	Est.	Est.	Est.	Est.	Est.
						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											
February											
March											
April											
May											
June											
July											
August											
November											
Grand Total	4.910	0.000	0.000	0.000	4.910	0.000	0.000	0.000	0.000	8.990	0.000

Notes:

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



# **APPENDIX E**

**Environmental Licenses and Permits** 



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

# **Environmental Permit (EP)**

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

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

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

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

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

# **Chemical Waste Producer Registration**

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

# **Wastewater Discharge Licence**

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

# **Construction Noise Permit (CNP)**

CNP Number	Area Coverage	Valid Since	Expiry Date	<b>Current Status</b>
GW-RS1162-14	Entire Site of the Contract	24 Oct 2014	23 Apr 2015	Active
	(include TSPS)			



# **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
1st Reporting Month (19 Nov 2014 – 31 Dec 2014)	0	0	0
Cumulative Statistics (1 Dec 2014 – 31 Dec 2014)	0	0	0