



Agreement No. SP 05/2012 Environmental Audit for Sewerage Works at Pik Shui Sun Tsuen

Monthly Environmental Audit Report No. 34 – September 2016

October 2016

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Pursuant to Condition 2.2 of Environmental Permit No. EP-435/

2011/A, this Monthly Environmental Audit Report has been

reviewed and certified by the Independent Checker (IC)

Certified by:

Gary Chow Independent Checker Mott MacDonald Hong Kong Limited 17 October 2016

Date

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A. Tentative Construction Programme

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- C. Environmental Mitigation Measures Implementation Status
- D. Waste Flow Table
- E. Cumulative Statistics on Complaints, Notifications, of Summons and Successful Prosecutions
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Executive summary

On 3 May 2013, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Drainage Services Department (DSD) under Agreement No. SP 05/2012 to undertake the Independent Checker (IC) services for the Sewerage Works at Pik Shui Sun Tsuen (The Project).

The Environmental Permit (EP) No. EP- 435/2011 for the "Sewerage Works at Pik Shui Sun Tsuen" was granted by the Environmental Protection Department (EPD) on 20 December 2011. The construction works was carried out Welcome Construction Co Ltd. (the Contractor), commenced on 26 August 2013.

In accordance with Section 5.1 and 5.3 of the Brief for the Project and Condition 2.2 of the EP, a Monthly Environmental Audit Report shall be prepared and submitted at monthly intervals to confirm in writing the full implementation of the mitigation measures recommended in the Project Profile (PP) (Register No. PP- 454/ 2011) during and upon completion of the construction works.

When construction of the sewerage works at Pik Shui Sun Tsuen commenced, objections from the local residents were encountered. Therefore, the sewerage works were temporarily suspended. DSD arranged meetings with the local residents and tried to resolve the objections. However, there were still majority amongst the local residents showing their objections to the proposed works in a meeting held on 18 January 2014. In March 2014, DSD and the client office SIG of EPD decided to curtail the proposed sewerage works at Pik Shui Sun Tsuen from the construction contract.

Regarding the sewerage work on University Road, some sewer alignments were revised subject to actual condition. Therefore, DSD submitted the application for variation of environmental permit for the sewerage works at Pik Shui Sun Tsuen to EPD on 16 July 2014 and the amended Environmental Permit (No. EP-435/2011/A) was issued by EPD to DSD on 29 July 2014.

This is the 34th Monthly Environmental Audit Report covering the period from 1 September 2016 and 30 September 2016 (the reporting month).

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1 Environmental Status during the reporting month

1.1 Construction Programme

The construction work programme of the Project is provided in <u>Appendix A</u>. A layout plan of the Project is provided in Figure 1.1.

1.2 Key Issues for the reporting month

• Trenchless excavation for pipe laying works at the verge of the footpath of University Road.

1.3 **Project Organisation**

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in <u>Appendix B</u>.

1.4 Environmental Mitigation Measures – Implementation Status

The environmental site audit was conducted on 22 September 2016 during this reporting month. The checklist of implementation status of the environmental mitigation measures is provided in <u>Appendix C</u>.

2 Environmental Site Inspection

2.1 Site Inspection

The environmental site audit was conducted on 22 September 2016 during this reporting month. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. The key observations from site inspection and associated recommendations are summarized in in **Table 2-1**.

Inspection date	Key Observations and Recommendations (Date)	Close-out (Date)
23 June 16	Muddy water tank filter was observed. The contractor was reminded to clean the filter to ensure efficiency of water tank process.	Closed (22 Sep 16)
27 July 16	The chemical / oil tanks without label were observed. The contractor was reminded to label all chemical / oil tanks with label clearly.	Closed (22 Sep 16)
24 Aug 16	Muddy water was observed at open channel. The Contractor was reminded to remove the muddy water from the open channel.	On-going
22 Sep 16	Oil stain was found near the drip tray. The Contractor was reminded to clean the oil stain	On-going

Table 2-1: Summary of Site Inspections and Recommendations

2.2 Advice on the Solid and Liquid Waste Management Status

The Contractor has been applied for a bill account for disposal. No waste was disposed of in this reporting month.

The waste flow table is present in Appendix D.

2.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period is summarised in **Table 2-2**.

Table 2-2: Status of Environmental Submissions, Licenses and Permits

Statutory Reference	Description	Permit /Reference No.	Status
EIAO	Environmental Permit	EP- 435/2011	Valid
APCO	Notification of Construction Work under APCO	355015	Valid
WPCO	Discharge License	WT00016437-2013	Valid
	Discharge License	WT00016957-2013	Valid
WDO	Bill Account for disposal	7016760	Valid

Legend: EIAO – Environmental Impact Assessment Ordinance

P:\Hong Kong\ENL\PROJECTS\322036 DSD Pik Shui Sun Tsuen IC\Deliverables\02 Env. Audit Report\34. Sep 2016\34. Env. Audit Report_Sep 2016 Rev A.docx APCO – Air Pollution Control Ordinance WPCO – Water Pollution Control Ordinance WDO – Waste Disposal Ordinance



3 Report on Complaints, Notifications of Summons and Successful Prosecutions

3.1 Record on Environmental Complaints Received

No environmental complaint was received this month. The cumulative statistics on complaints were provided in <u>Appendix E</u>.

3.2 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecution were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in <u>Appendix E</u>.

3.3 Review of Reasons for and Implications of Non-compliance, Complaints, Summons and Prosecutions

Not applicable.

3.4 Follow-up Actions Taken

Not applicable.



4 Future Key Issues

4.1 Major Site Works for the Coming Month(s)

The major site works scheduled to be commissioned in the coming month include:

· Pipe laying works at the verge of the footpath of University Road

4.2 Key Issues for the Coming Month

- · Generation of dust from construction and demolition works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.



5 Conclusion and Recommendation

5.1 Conclusion

Site audit was conducted on 22 September 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audit.

No complaint, notification of summons and prosecution was received in the reporting month.

5.2 Recommendations

The Contractor was reminded to maintain noise, air quality, water quality and waste management mitigation measures and also continuously implements all environmental mitigation measures in accordance with the PP.

Appendices

- A. Tentative Construction Programme
- B. Project Organization
- C. Environmental Mitigation Measures Implementation Status
- D. Waste Flow Table
- E. Cumulative Statistics on Complaints, Notifications, of Summons and Successful Prosecutions

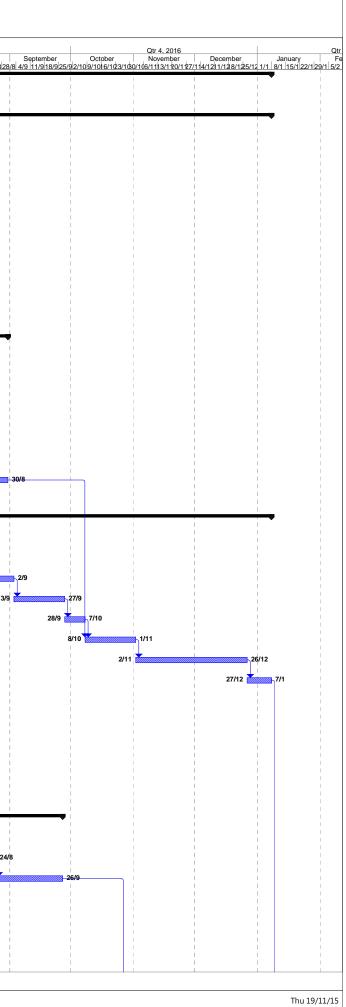


A. Tentative Construction Programme

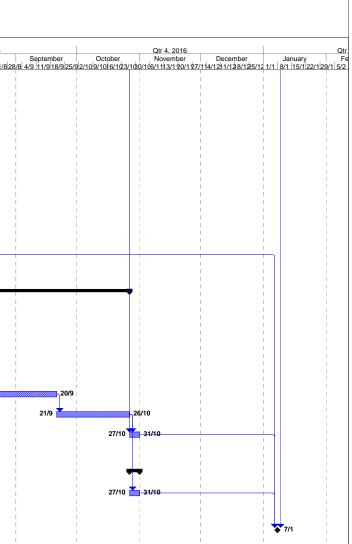
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ID	Task Name	Duration	Start	Finish										
		Duration	otan		er i	Qtr 4, 201 October November	December	January	Qtr 1, 2016 February	March April	Qtr 2, 2016 May	June	July	Qtr 3, 2016 August
	Sewerage at Chuk Kok Rd, Hiram's Highway, University Road and Clear Water Bay Road	433 days	Mon 2/11/15		20/9 27/9 4	/1011/108/105/101/118/1115/12	2 <u>/129/116/1213/120/12</u> 	7/12 3/1 10/117/124/	1 31/1 7/2 14/2 21/2 	28/2 6/3 13/3 20/3 27/3 3/4 10/4 17/	424/4 1/5 8/5 15/5 22/5	29/5 5/6 12/619/626	;/6 3/7 10/7 17/7 24/7 ; 	31/7 7/8 14/82
2	Sewerage from MH Nos. 1.15 to S5 at University Road & Clear Water Bay Road	433 days	Mon 2/11/15	Sat 7/1/17										
3	Sewerage from MH Nos. PSST155 to S5 at University Road, trenchless (50m long)	172 days	Mon 2/11/15	Thu 21/4/16							•			
4	Excavate & construct Thurst Pit at MH No. PSST155	40 days	Mon 2/11/15	Fri 11/12/15		2/11	11/12		1			1		
5	Install set-up at Thurst Pit at MH No. PSST155	14 days	Sat 12/12/15	Fri 25/12/15			12/12	25/12				1		
6	Install Segmental Sleeve Pipeline	75 days	Sat 26/12/15	Wed 9/3/16	1		26/12			9/3				1
7	Lay Sewer Pipeline	14 days	Thu 10/3/16	Wed 23/3/16						10/3 23/3				
8	IInfill Grout inside Sleeve Pipe	5 days	Thu 24/3/16	Mon 28/3/16						24/3 28/3				1
9	Re-construct Existing Manhole MH No. S5	24 days	Tue 29/3/16	Thu 21/4/16						29/3	21/4			
10 11	Sewerage from MH Nos. PSST151 to PSST155 at University Road (Footpath)-85m long	249 days	Sat 26/12/15	Tue 30/8/16			-							
12	Excavate & construct Thurst Pit at MH No. PSST151	40 days	Sat 26/12/15	Wed 3/2/16			26/12	- -	3/2			1		1
13	Install set-up at Thurst Pit at MH No. PSST151	14 days		Wed 17/2/16	1			l I	4/2			1		-
14	Install Segmental Sleeve Pipeline	120 days		Thu 16/6/16					18/2			16/6		
15	Lay Sewer Pipeline	25 days		Mon 11/7/16	1							17/6	11/7	
16	Infill Grout inside Sleeve Pipe			Thu 21/7/16									12/7	
17	·	10 days											22/7	1
	Construct Manhole No. PSST155 (6.3m deep)	40 days	FII 22/7/10	Tue 30/8/16	i i				1			1		
18 19	Sewerage from MH No. MF1.15 to MH No.PSST151 at Clear Water Bay Road (Footpath)-85m long	261 days	Fri 22/4/16	Sat 7/1/17										
20	Install set-up at Thurst Pit at MH No. PSST151	14 days	Fri 22/4/16	Thu 5/5/16						22/4	5/5	 		
21	Install Segmental Sleeve Pipeline	120 days	Fri 6/5/16	Fri 2/9/16							6/5			
22	Lay Sewer Pipeline	25 days	Sat 3/9/16	Tue 27/9/16	1									1
23	IInfill Grout inside Sleeve Pipe	10 days	Wed 28/9/16	Fri 7/10/16										1
24	Re-construct Existing Manhole MH No. MF1.15	25 days	Sat 8/10/16	Tue 1/11/16										1
25	Construct Manhole No. PSST151 (7 m deep)	55 days	Wed 2/11/16	Mon 26/12/16	i I				I I			i I		
26	CCTV of Pipeline (Stage 4)	12 days	Tue 27/12/16	Sat 7/1/17										
27					1									
28	Sewerage from MH Nos. PSST149 to PSST147 at Clear Water Bay Road (Carriageway)-93m long	182 days	Mon 9/11/15	Sun 8/5/16										
29	MH Nos. PSST149 to PSST148	48 days	Mon 9/11/15	Sat 26/12/15		9/11		26/12				1 		
30	MH Nos. PSST148 to PSST147	134 days	Sun 27/12/15	Sun 8/5/16			27/12				8/5			1
31					I I									
32	Sewerage from MH Nos. PSST147 to PSST140 at Chuk Kok Road (carrigeway)-84m long	141 days	Mon 9/5/16	Mon 26/9/16								 		
33	MH Nos. PSST147 to PSST146	108 days	Mon 9/5/16	Wed 24/8/16				 	 		9/5	1		1
34	MH Nos. PSST146 to PSST140	33 days	Thu 25/8/16	Mon 26/9/16										25/8
35												1 		
36	Sewerage from MH Nos. PSST140 to PSST135 at Chuk Kok Road (carrigeway)_180m long	152 days	Mon 16/11/15	Fri 15/4/16		· · · ·								
37	MH Nos. PSST140 to PSST139		Mon 16/11/15		i.	16/11	i	24/12	i.		i	i.		

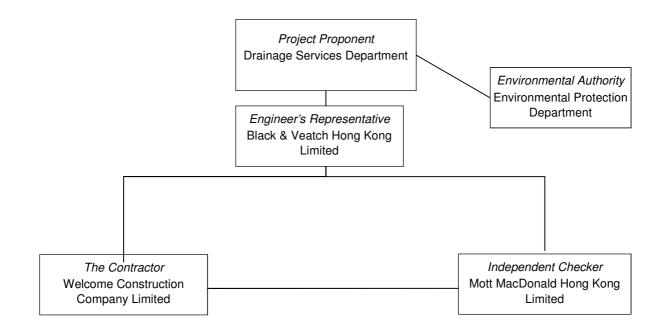
Welcome Constuction Co Ltd.



					Detailed Program fc	Sewerage at Clea r Sewage Works	Contra ar Water Bay Road	e Constuction Co act No. DC/2012/0 , Pik Shui Sun Tsu y Road, University	6 en and West of Sai I	Kung Town ad & Hiram's H	ighway (Rev. 3)			
ID T	Task Name	Duration	Start	Finish	Qtr 4, 2015		1	Qtr 1, 2016	1		Qtr 2, 2016		1	Qtr 3, 2016
					Der October November 20/9/27/9/4/10/1/10/8/1/25/10/1/18/11/5/122/129	December	January	February	March	April	May			August
38	MH Nos. PSST139 to PSST138	21 days	Fri 25/12/15	Thu 14/1/1	20/9/27/9/4/10/17/10/8/10/5/10/7/11/8/11/5/11/2/12:	25/12	14/1	131/11 //2 114/2121/212	 	3/4 10/4 17/4 24/	4 1/5 8/5 15/5/22/5/28	1/5 5/6 2/6 9/6 26	10/1/1/1/24/1	131/7 7/8 14/82 1/820
39	MH Nos. PSST138 to PSST137	32 days	Fri 15/1/16	Mon 15/2/1			15/1	15/2						
40	MH Nos. PSST137 to PSST136	24 days	Tue 16/2/16	Thu 10/3/1			1	16/2	10/3				1	-
41	MH Nos. PSST136 to PSST135	36 days	Fri 11/3/16	Fri 15/4/1			1		11/3	15/4			 	1
42	CCTV Survey of Pipeline (Stage 1)	3 days	Sat 16/4/16	Mon 18/4/1			1	1		16/4 👗 18/4			1	1
43													 	1
44	Sewerage from MH Nos. PSST135 to PSST134 at Chuk Kok Rd near Cheng Chek Chee Secondary School -36m long	35 days	Tue 19/4/16	Mon 23/5/1						•	₹		 	1 1 1
45	MH Nos. PSST135 to PSST134	31 days	Tue 19/4/16	Thu 19/5/1			 	 	 	19/4	19/5		 	1
46	CCTV Survey of Pipeline (Stage 2)	4 days	Fri 20/5/16	Mon 23/5/1							20/5 📩 23/5			1
47													- 	-
48	Sewerage from MH Nos. PSST146 to PSST141 at Hiram's Highway Slip Road (carriageway) - 157m long	339 days	Mon 23/11/15	Wed 26/10/1									 	
49	MH Nos. PSST143 to PSST142	47 days	Mon 23/11/15	Fri 8/1/1	23/11		8/1	- 						1
50	MH Nos. PSST144 to PSST145	88 days	Sat 9/1/16	Tue 5/4/1			9/1			5/4			1	
51	MH Nos. PSST145 to PSST144	83 days	Wed 6/4/16	Mon 27/6/1			1		6/4	÷			27/6	1
52	MH Nos. PSST146 to PSST145	85 days	Tue 28/6/16	Tue 20/9/1								28/6	,	1
53	MH Nos. PSST142 to PSST141	36 days	Wed 21/9/16	Wed 26/10/1			1	1					1	1
54	CCTV Survey of Pipeline (Stage 3)	5 days	Thu 27/10/16	Mon 31/10/1			1 1 1		 				 	
55								1					1	1
56	Sewerage from MH No. PSST141 to Hirams Villas	5 days	Thu 27/10/16	Mon 31/10/1			1		 				 	
57	Tapping Sewer to MH No. PSST141	5 days	Thu 27/10/16	Mon 31/10/1										
58							- - -						1 	i I I
59 C	Completion of Sewerage Works	0 days	Sat 7/1/17	Sat 7/1/1			1	1					 	I I



B. Project Organization



Company / Department	Position	Name	Telephone / mobile
Drainage Services Department	Project Proponent	Mr Justin Wan	2594 7581
Black & Veatch Hong Kong Limited	Engineer's Representative	Mr Eugene Chan	6075 8606
Mott MacDonald Hong Kong Ltd.	Independent Checker	Mr Gary Chow	2828 5874
Welcome Construction Company Limited	Site Agent	Mr John Chan	6051 0761
Welcome Construction Company Limited	Environmental Officer	Mr KC Poon	2799 8137

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C. Environmental Mitigation Measures – **Implementation Status**

Table C1: Construction Noise – Recommended Mitigation Measures

* PP / ^ EP ref:	Recommended measures	Implementation Status
*5.2.6	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	\checkmark
	 Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	\checkmark
	 Plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from nearby NSRs. 	\checkmark
	 Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction works. 	\checkmark
	 Mobile plant should be sited as far away from NSRs as possible. 	\checkmark
*5.2.2, 5.2.6	Use of temporary noise barrier, mobile barrier	N/A
*5.2.6	 Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities 	\checkmark
*5.2.6	 Noisy construction activities such as road breaking, should be scheduled to less sensitive hours during the day 	N/A
*5.2.6	 Liaise with the affected noise sensitive receivers on the anticipated construction activities, possible impacts, expected duration and communication channel with the project office. 	N/A
*5.2.1,*Table 6.1	 Adoption of quiet powered mechanical equipment (QPME) during construction 	✓
*5.2.4, ^2.3	 For the sewer works located less than 15 m away from Cheng Chek Chee Secondary School, construction works can only be conducted after school hours or during school breaks. For the sewer works located between 15 m – 30 m away from the School, the contractor should liaise with the school and/or the Examination Authority to ascertain the exact dates and times of all examination periods and to avoid noisy construction activities during these periods. 	N/A

Table C2: Air Quality – Recommended Mitigation Measures

* PP / ^ EP ref:	Recommended measures	Implementation Status
*5.2.8, ^1.2	 Comply with the control measures in the Air Pollution Control (Construction dust) Ordinance. 	\checkmark
*5.2.8	 Excavated dusty materials should be covered by impervious sheeting or sprayed with water to keep the entire surface wet. 	\checkmark
*5.2.8	 Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. 	4

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* PP / ^ EP ref:	Recommended measures	Implementation Status
*5.2.10,	 Follow the guidelines in ProPECC PN 1/94 "Construction Site Drainage". 	\checkmark
* Table 6.1	 Silt removal facilities should be provided according to the guidelines stipulated in EPD's ProPECC PN 1/94. 	N/A
	 Cover open stockpiles of construction materials with tarpaulin or similar fabric during rainstorms. 	\checkmark
ProPECC PN 1/94	 Water to be pumped out from trenches or foundation excavations shall be discharged into storm drains via silt removal facilities. 	Р
ProPECC PN 1/94	 Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure efficiency of process. 	\checkmark
ProPECC PN 1/94	• Oils and fuels should be stored in designated areas, and the fuel tanks and storage areas should have locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank.	Р

Table C3: Water Quality – Recommended Mitigation Measures

Table C4: Waste Management – Recommended Mitigation Measures

* PP / ^ EP ref:	Recommended measures	Implementation Status
*5.2.12,	 Sort all C&D materials and waste into different categories for reuse on site, recycling and disposal at designated public fill reception facilities or landfills. 	N/A
*Table 6.1	 C&D material and excavated materials should be reused on-site as fill material as far as possible. 	\checkmark
	 Disposal of C&D materials should be managed through the trip ticket system for disposal of C&D materials. 	√
*5.2.12	 All Chemical waste should be handled, stored and disposed of in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	Р

Table C5: Landscape and Visual Impact – Recommended Mitigation Measures

* PP / ^ EP ref:	Recommended measures	Implementation Status
*5.2.14, *Table 6.2	 Retain and protect existing trees near works site. 	√
*Table 6.2	 Erect site hoarding compatible with the surrounding environment for the pumping station works area 	N/A
	• Maintain site cleanliness and tidiness in accordance with the requirements stipulated in DEVB TCW No. 8/2010.	\checkmark
	 Properly manage construction waste in the works area. 	✓
	Minimize the number and size of temporary works area.	✓
	Promptly reinstate each section of the trench upon completion of the sewer works.	N/A
	 Control of night-time security lightning to minimize night-time glare to nearby village. 	N/A

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Table C6: Others

* PP / ^ EP ret	f:	Recommended measures	Implementation Status
^1.5		 A copy of the valid Environmental Permit shall be displayed conspicuously on the Project site(s) at all vehicular site entrances/exits or at a convenient location for public information at all times. The most updated information about the Permit, including any amended Permit, shall be displayed at such locations. If the Permit Holder surrenders a part or whole of the Permit, the notice he send to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s). 	~
n/a		 The required licenses should be obtained by the Contractor (including CNP (if any), WPCO license, etc.) 	√
Legend:	✓ × P N/A	Implemented Not implemented Partially implemented Not applicable	

N/O Not observed





Monthly Summary Waste Flow Table for September 2016

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Yr 2013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yr 2014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yr 2015	0.032	0.000	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.000	0.000
Jan	0.100	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.001
Feb	0.081	0.000	0.000	0.000	0.081	0.000	0.000	0.000	0.000	0.000	0.001
Mar	0.109	0.000	0.000	0.000	0.109	0.000	0.000	0.000	0.000	0.000	0.001
Apr	0.077	0.000	0.000	0.000	0.077	0.000	0.000	0.000	0.000	0.000	0.001
Мау	0.047	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.001
Jun	0.037	0.000	0.000	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0.001
Sub-total	0.451	0.000	0.000	0.000	0.451	0.000	0.000	0.000	0.000	0.000	0.006
July	0.074	0.000	0.000	0.000	0.074	0.000	0.000	0.000	0.000	0.000	0.001
Aug	0.097	0.000	0.000	0.000	0.097	0.000	0.000	0.000	0.000	0.000	0.001
Sep	0.019	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.001
Oct											
Nov											
Dec											
total	0.641	0.000	0.000	0.000	0.641	0.000	0.000	0.000	0.000	0.000	0.009

E. Cumulative Statistics on Complaints, Notifications, of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 26 August 2013) to the end of the reporting month and are summarized in the **Table E1** below.

Table E1: <Insert Table Caption>

Reporting Period	Cumulative Statistics					
_	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From 26 August 2013 to end of the reporting month	0	0	0			



