Appendix D Waste Flow Table



Project : Integrated Waste Management Facilities, Phase 1

吉寶西格斯 - 振華聯營公司 Keppel Seghers - Zhen Hua Joint Venture

Monthly Summary Waste Flow Table for

2018

(year)

Actual Quantities of C&D Wastes Generated Monthly

Contract No.: EP/SP/66/12

Actual Quantities of Inert C&D Materials Generated Monthly

Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)		other	Disposed as Public Fill (see Note 4)	Sand	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	(in ,000m ³)	(1	in ,000m ³)	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0065
Sep	0	0	0	0	0	2.9619	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	3.0771	0	0	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	6.7871	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	59.0709	0	0	0	0	0	0.2000	0.8700	0
Total	0	0	0	0	0	71.8970	0	0	0	0	0	0.2000	0.8700	0.0195

Notes:

Broken concrete for recycling into aggregates. (1)

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume. (3)

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$ (4)

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2019

(year)

Project : In	Project : Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12						
		Actual	Quantities of	Inert C&D	Materials Gei	nerated Mon	thly	Actual Quantities of C&D Wastes Generated Monthly								
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Fill Public fill (see Note 4)	,	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)		
	(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 ,000L)	$(in,000 m^3)$		
Jan	0	0	0	0	0	82.6139	0	0	0	0	0	0	0	0.0065		
Feb	0	0	0	0	0	46.7821	0	0	0	0	0	0	0	0		
Mar	0	0	0	0	0	97.1000	0	0.7552	0	0.2560	0	0	0	0		
Apr	0	0	0	0	0	58.0413	0	0	0	0	0	0	0	0		
May	0	0	0	0	0	14.5625	0	1.4648	0	0	0	0	0	0.0065		
Jun	0	0	0	0	0	0	0	6.8421	0	0	0	0	0	0		
Sub-total	0	0	0	0	0	299.0998	0	9.0621	0	0.2560	0	0	0	0.0130		
Jul	0	0	0	0	0	0	0	0.4289	0	0	0	0	8.4000	0.0130		
Aug	0	0	0	0	0	2.5775	0	10.5600	0	0	0	0	0	0		
Sep	0	0	0	0	0	6.1081	0	8.4704	0	0.3530	0	0	0	0.0065		
Oct	0	0	0	0	0	9.8875	0	7.1900	0	0	0	0	0	0		
Nov	0	0	0	0	0	38.3088	0	19.3105	0	0	0	0	0	0.0195		
Dec	0	0	0	0	0	54.3469	0	26.9807	0	0	0	0	0	0.0910		
Total	0	0	0	0	0	410.3286	0	82.0026	0	0.6090	0	0	8.4000	0.1430		

Broken concrete for recycling into aggregates. Notes: (1)

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume. (3)

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$ (4)

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____



2020

(year)

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Paper/ Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Metals cardboard Total Reused in Plastics Month Broken Public Rock Sand Public Fill refuse packaging **Chemical Waste** the other (see Note (see Note 2, Quantity Concrete fill (see Note (see Note (see Note Generated Contract Projects 5) 5) (see Note 4) (see Note 3) (see Note 4) (see Note 4) 5) 1) 4) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in, 000m^3)$ $(in, 000m^3)$ (in ,000kg) (in ,000kg) (in ,000 kg) (in ,000kg) (in ,000L) $(in, 000 \text{ m}^3)$ 0 0 0 0 0 37.1550 25.0812 0 0 0 0 0 0.0065 Jan 0 27.7910 Feb 0 0 0 0 0 0 18.8300 0 0 0 0 0 0.0065 0 0 0 0 0 22.5669 0 26.1586 0 0 0 0 7.2000 0.0065 Mar 0 0 0 0 0 0 0 0 0 12.7800 0 10.1825 0 0.0195 Apr 0 0 0 0 0 16.1138 0 24.3740 0 0.4220 0 0 0 0.0195 May 0 0 0 0 0 31.5177 0 28.3030 0 0 0 0 0 0.0065 Jun 0 0 Sub-total 0 0 0 0 0 147.9244 132.9293 0 0.4220 0 7.2000 0.0650 0 0 0 0 0 0 34.7856 17.0606 35.1800 0 0 0 0 0.0195 Jul 65.5667 0 0 0 0 0 27.1375 27.9335 0 0 0 0 0 0 Aug 110.1328 43.5435 Sep 0 0 0 0 0 11.9813 0 0 0 0 0 0.0195 0 0 0 0 0 2.8213 131.6600 22.5415 0 0 0 0 0 0.0130 Oct 0 0 0 0 0 Nov 0 0 162.1811 44.6475 0.4090 0 0 0.4000 0.0130 174.9800 57.8380 0 0 0 Dec 0 0 0 0 0 0 0 0 0.0130 0 0 224.6501 661.5812 364.6133 0 0 0 0 0.8310 0 0 7.6000 Total 0.1430

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____

<u>2021 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock Imported Imported Imported Paper/ and Large Fill Fill Fill Reused in Disposed as Metals Others, e.g. general Total Reused in cardboard Plastics Month Broken Public fill Sand Rock refuse Public Fill packaging Chemical Waste Quantity the other (see Note (see Note 2. Concrete (see Note (see Note (see Note (see Note 5) 5) Generated Contract Projects (see Note 4) (see Note 3) (see Note 4) 4) 4) 5) 1) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000kg) $(in,000 \text{ m}^3)$ (in .000L) 0 0 0 0 0 0 198.1311 0 0 0 0 0 36.4775 0.0065 Jan 0 0 0 0 0 0 0 0 0 0 0 Feb 143.9511 20.9960 0.6305 0 0 0 0 0 0 103.1833 23.4510 0 0 0 0 0 0.0130 Mar 0 0 0 0 0 0 161.2956 0 Apr 27.2810 0 0 0 0 0.0130 0 0 0 0 0 0 0 0 0 193.3300 0 0 0.0715 May 20.5265 0 0 0 0 0 23.7825 0 0 0 0 141.5728 0 0.2440 0.0455 Jun 0 0 0 0 0 0 941.4639 152.5145 0 0.2440 0 0 0 0.7800 Sub-total 0 0 0 0 0 0 105.1083 30.6065 0 0 0 0 0 0.0195 Jul 0 0 0 0 0 0 0 11.1822 7.5180 0 0 0 0 0.0130 Aug 0 0 0 Sep 0 0 0 0 5.7575 0 0 0 0 0.6000 0.0390 0 0 0 0 0 0 0 0 0 0 0 0 6.8885 0 Oct 0 0 0 0 0 0 0 0 6.2975 0 0.1610 0 0 0.0130 Nov Dec 0 0 0 0 0 0 0 5.9235 0 0 0 0 0 0 0 0 0 Total 0 0 0 1057.7544 215.5060 0 0.4050 0 0 0.6000 0.8645

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2022

(year)

Project : In	oject : Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12							
		Actual Quantities of Inert C&D Materials Generated Monthly									Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated Hard Rock and Large Broken Concrete (see Note 1)		Reused in other the Projects		Disposed as Public Fill (see Note 4)	Sand Public fill		Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	, Chemical Waste		Others, e.g. general refuse (see Note 3)			
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	$(in,000m^3)$		$(in,000m^3)$	I	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)			
Jan	0	0	0	0	0	0	4.9389	2.7070	0	0.1550	0	0	0	0.0715			
Feb	0	0	0	0	0	0	3.2478	4.0290	0	0	0	0.4000	0.2250	0			
Mar	0	0	0	0	0	0	2.3422	2.7820	0	0	0	0	0	0.0780			
Apr	0	0	0	0	0	0	18.2189	5.8100	0	0.3120	0	0	0	0.1495			
May	0.0648	0	0	0	0.0648	0	16.7711	17.2320	0	0	0	0	0	0.0975			
Jun	0.0037	0	0	0	0.0037	0.2115	1.1128	14.1470	36.3000	0.3890	0	0	1.7250	0.0975			
Sub-total	0.0685	0	0	0	0.0685	0.2115	46.6317	46.7070	36.3000	0.8560	0	0.4000	1.9500	0.4940			
Jul	25.7183	0	0	25.7183	0	0.1125	0.8333	17.5210	0	0.6400	0.0060	0	0	0.1235			
Aug	13.2494	0	0	13.2494	0	0	0	24.5210	76.0300	1.8870	0	0	0	0.1170			
Sep	24.9072	0	0	24.8494	0.0578	0	0	16.2815	72.0600	0.3060	0	0	0	0.1885			
Oct	13.3139	0	0	13.3006	0.0133	0	0	11.8665	78.1000	0.5800	0	0	0	0.2405			
Nov	26.5583	0	0	26.5583	0	0	0	7.2055	0	0	0	0	0	0.1105			
Dec	29.1411	0	0	29.1411	0	0	0	3.5174	0	0	0	0	0	0.2535			
Total	132.9567	0	0	132.8171	0.1396	0.3240	47.4650	127.6199	262.4900	4.2690	0.0060	0.4000	1.9500	1.5275			

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.



Monthly Summary Waste Flow Table for _



2023

(year)

Project : Ir	ntegrated W	aste Manag	gement Faci	lities, Phas	e 1		Contract No.: EP/SP/66/12							
		Actual	Quantities of	of Inert C&E	Materials Ge	enerated Mo	nthly	Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	ImportedImportedFillFillPublic fillRock(see Note(see Note4)4)		Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	(in ,000m ³)		$(in,000m^3)$	T	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	24.6728	0	0	24.6728	0	0	0	1.3545	0	0.3150	0	0	0	0.1365
Feb	26.7206	0	0	26.7206	0	0	0	1.8990	11.1501	0	0.0007	0	0	0.1235
Mar	22.1089	0	0	22.1089	0	0	0	0.9025	0	0	0	0	0	0.1105
Apr	36.0011	0	0	36.0011	0	0	0	0	0	0.2150	0	0	0	0.1365
May	21.8900	0	0	21.8900	0	0	0	0	0	0.3160	0	0	0	0.1495
Jun	8.8878	0	0	8.8878	0	0	0	0	0	0	0	0	0	0.1950
Sub-total	140.2812	0	0	140.2812	0	0	0	4.1560	11.1501	0.8460	0.0007	0	0	0.8515
Jul	2.2233	0	0	2.2233	0	0	0	0	0	0.3870	0	0	0	0.1495
Aug	4.4200	0	0	4.4200	0	0	0	0	0	0	0	0	0	0.2015
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2860
Oct	0	0	0	0	0	0	0	0.4025	0	0.3770	0	0	0	0.2405
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3510
Dec	0	0	0	0	0	0	0	0.4960	0	0	0	0	0	0.3835
Total	146.9245	0	0	146.9245	0	0	0	5.0545	11.1501	1.6100	0.0007	0	0	2.4635

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.