Appendix E Waste Flow Table



Monthly Summary Waste Flow Table for

<u>2018 (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						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Fill	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	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)	(1	$(n,000m^3)$	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	$(in,000 \text{ m}^3)$		
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:

(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 = $2T/m^3$



Monthly Summary Waste Flow Table for

2019 (year)

Contract No.: EP/SP/66/12

0.1430

Project : Integrated Waste Management Facilities, Phase 1 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Total Reused in Paper/ Month Broken Public Rock Plastics Sand refuse Public Fill cardboard **Chemical Waste** the other Metals Quantity (see Note 2) Concrete fill (see Note (see Note packaging Generated Contract Projects (see Note 4) (see Note 3) (see Note (see Note 4) 4) 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 82.6139 0 0 0 0 0 0 0 0.0065 Jan 46.7821 Feb 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 97.1000 0 0.7552 0 0.2560 0 0 0 0 Mar 0 0 0 0 0 0 0 0 0 0 58.0413 0 0 0 Apr 0 0 0 0 0 14.5625 0 1.4648 0 0 0 0 0 0.0065 May 0 0 0 0 0 0 0 6.8421 0 0 0 0 0 0 Jun 0 0 0 Sub-total 0 0 0 0 299.0998 0 9.0621 0 0.2560 0 0.0130 0 0 0 0 0 0 0 0 0 0 0.4289 0 8.4000 0.0130 Jul 0 0 0 0 0 2.5775 0 10.5600 0 0 0 0 0 0 Aug 6.1081 Sep 0 0 0 0 0 0 8.4704 0 0.3530 0 0 0 0.0065 0 0 0 0 0 9.8875 0 7.1900 0 0 0 0 0 0 Oct 0 0 0 0 0 0 0 Nov 38.3088 0 19.3105 0 0 0 0.0195 0 0 0 0 0 Dec 0 0 0 54.3469 26.9807 0 0 0 0.0910 0 0 0 0 410.3286 0 82.0026 0 0.6090 0 0 8.4000

0 Total

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)



Monthly Summary Waste Flow Table for

2020 (year)

Project : I	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 the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	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)	((in ,000m ³) (in ,000 kg) (in ,000kg) (in ,0		(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)			
Jan	0	0	0	0	0	37.1550	0	25.0812	0	0	0	0	0	0.0065	
Feb	0	0	0	0	0	27.7910	0	18.8300	0	0	0	0	0	0.0065	
Mar	0	0	0	0	0	22.5669	0	26.1586	0	0	0	0	7.2000	0.0065	
Apr	0	0	0	0	0	12.7800	0	10.1825	0	0	0	0	0	0.0195	
May	0	0	0	0	0	16.1138	0	24.3740	0	0.4220	0	0	0	0.0195	
Jun	0	0	0	0	0	31.5177	0	28.3030	0	0	0	0	0	0.0065	
Sub-total	0	0	0	0	0	147.9244	0	132.9293	0	0.4220	0	0	7.2000	0.0650	
Jul	0	0	0	0	0	34.7856	17.0606	35.1800	0	0	0	0	0	0.0195	
Aug	0	0	0	0	0	27.1375	65.5667	27.9335	0	0	0	0	0	0	
Sep	0	0	0	0	0	11.9813	110.1328	43.5435	0	0	0	0	0	0.0195	
Oct	0	0	0	0	0	2.8213	131.6600	22.5415	0	0	0	0	0	0.0130	
Nov	0	0	0	0	0	0	162.1811	44.6475	0	0.4090	0	0	0.4000	0.0130	
Dec	0	0	0	0	0	0	174.9800	57.8380	0	0	0	0	0	0.0130	
Total	0	0	0	0	0	224.6501	661.5812	364.6133	0	0.8310	0	0	7.6000	0.1430	

Notes:

(1) Broken concrete for recycling into aggregates.

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)



Monthly Summary Waste Flow Table for _____

2021 (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 Hard Rock Imported Imported Imported and Large Fill Fill Fill Reused in Disposed as Others, e.g. general Total Reused in Paper/ Month Broken Plastics Public fill Sand Rock Public Fill cardboard refuse Metals Chemical Waste Quantity the other Concrete (see Note 2) (see Note (see Note (see Note packaging Generated Contract Projects (see Note 4) (see Note 3) (see Note 4) 4) 4) 1) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (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 0 143.9511 0 0 0 0 0 Feb 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 0 11.1822 7.5180 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 0 6.8885 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 0 0 Total 0 0 1057.7544 215.5060 0 0.4050 0 0.6000 0.8645

(1) Broken concrete for recycling into aggregates.

Notes:

(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 = $2T/m^3$.



Monthly Summary Waste Flow Table for _____

<u>2022 (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 Reused in and Large Fill Fill Fill Others, e.g. general Disposed as Total Reused in other Paper/ Month Broken Plastics Public fill Sand Rock Projects Public Fill refuse Metals cardboard Chemical Waste Quantity the Concrete (see Note 2) (see Note (see Note (see Note packaging Generated Contract (see Note (see Note 4) (see Note 3) (see Note 4) 4) 4) 4) 1) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000kg) (in .000L) $(in,000 \text{ m}^3)$ 0 0 0 0 0 0 4.9389 0 0 0 0 2.7070 0.0715 Jan 0.1550 0 0 0 0 0 0 3.2478 0 0 0 0 Feb 4.0290 0.4000 0.2250 0 0 0 0 0 0 2.3422 2.7820 0 0 0 0 0 0.0780 Mar 0 0 0 0 0 0 Apr 18.2189 5.8100 0 0.3120 0 0 0 0.1495 0 0 0 0 0 0 0.0648 0 0.0648 16.7711 0 0 May 17.2320 0.0975 0 0 0 0 0.0037 0 0.0037 0.2115 1.1128 14.1470 36.3000 0.3890 1.7250 0.0975 Jun 0.0685 0 0 0 0.0685 0.2115 46.6317 46.7070 36.3000 0.8560 0 0.4000 1.9500 0.4940 Sub-total 25.7183 0 0 25.7183 0 0.1125 0.8333 17.5210 0 0.6400 0.0060 0 0 Jul 0.1235 0 0 0 76.0300 0 13.2494 0 0 13.2494 24.5210 1.8870 0 0 0.1170 Aug 0 0 Sep 24.9072 0 24.8494 0.0578 0 0 16.2815 72.0600 0.3060 0 0 0.1885 Oct Nov Dec Total 63.9434 0 0 63.8171 0.1263 0.3240 47.4650 105.0305 184.3900 3.6890 0.0060 0.4000 1.9500 0.9230

(1) Broken concrete for recycling into aggregates.

Notes:

(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 = $2T/m^3$.