

Name of Department: Civil Engineering Development Department

Contract No.: NE/2015/01



Monthly Summary Waste Flow Table for Oct 2020

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	131.325	42.581	0.000	42.581	88.744	0.000	0.000	0.000	0.000	3.040	0.360
February	124.053	43.467	0.000	43.467	80.586	0.000	0.000	0.000	0.000	0.000	0.336
March	159.135	35.849	0.000	35.849	123.286	0.000	0.000	0.000	0.000	0.000	0.489
April	100.501	15.158	0.000	15.158	85.343	0.000	0.000	0.000	0.000	1.920	0.304
May	77.137	26.871	0.000	26.871	50.266	0.000	0.000	0.000	0.000	1.760	0.436
June	45.856	12.279	0.000	12.279	33.577	0.000	0.000	0.000	0.000	2.800	0.629
Sub-total	638.007	176.205	0.000	176.205	461.802	0.000	0.000	0.000	0.000	9.520	2.554
July	29.834	7.666	0.000	7.666	22.168	0.000	0.000	0.000	0.000	0.000	0.761
August	51.816	5.688	0.000	5.688	46.128	0.000	0.000	0.000	0.000	0.000	0.783
September	58.150	21.280	0.000	21.280	36.870	0.000	0.000	0.000	0.000	2.000	0.780
October	34.544	13.414	0.000	13.414	21.130	0.000	0.000	0.000	0.000	0.000	0.665
November											
December											
Total											

Total inert C&D waste generated = c+d+e

Total inert C&D waste recycled = c+d

% of recycled inert C&D waste = Total C&D waste recycled / Total C&D waste generated

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- Notes: (1) The performance target are given in PS Clause 6(14)
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m<sup>3</sup>. (PS Clause 1.105(4) refers)
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:  
in-situ: rock = 2.5 tonnes/m<sup>3</sup>; soil = 2.0 tonnes/m<sup>3</sup>
- (7) excavated: rock = 2.0 tonnes/m<sup>3</sup>; soil = 1.8 tonnes/m<sup>3</sup>; broken concrete and bitumen = 2.4 tonnes/m<sup>3</sup>, soil and rock = 1.9 tonnes/m<sup>3</sup>
- (8) C&D Waste = 0.9 tonnes/m<sup>3</sup>; bentonite slurry = 2.8 tonnes/m<sup>3</sup>  
Diesel density: 0.8kg/l  
Numbers are rounded off to the nearest three decimal places  
The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"



### Monthly Summary of Waste Flow Table for 2020

Name of Person completing the Record: Joshua Tam

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> ) <i>(see Note 1)</i>	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 Kg)	(in '000 Kg)	(in '000 Kg) <i>(see Note 2)</i>	(in '000 Kg)	(in '000m <sup>3</sup> )
Jan	0.4469	0	0	0	0.4469	0	0	0	0	0.00338
Feb	0.5532	0	0	0	0.5532	0	0	0	0	0.0123
Mar	0.6280	0	0	0	0.6280	0	0	0	0	0.00218
Apr	0.3370	0	0	0	0.3370	0	0	0	0	0.00294
May	0.3530	0	0	0	0.3530	0	0	0	0	0.00043
Jun	0.1670	0	0	0	0.1670	0	0	0	0	0.00199
Sub-total	2.4851	0	0	0	2.4851	0	0	0	0	0.0198
Jul	0.5560	0	0	0	0.5560	0	0	0	0	0.00262
Aug	0.3621	0	0	0	0.3621	0	0	0	0	0.00628
Sep	0.1780	0	0	0	0.1780	0	0	0	0	0.00218
Oct	0.3472	0	0	0	0.3472	0	0	0	0	0.00653
Nov	0.0000	0	0	0	0.0000	0	0	0	0	0
Dec	0.0000	0	0	0	0.0000	0	0	0	0	0
Total	3.9284	0	0	0	3.9284	0	0	0	0	0.0375

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Use the conversion factor: 1 full load of 24t / 30t dumping truck being equivalent to 6.5m<sup>3</sup> / 8.125 m<sup>3</sup> by volume.



**GTECH Services (Hong Kong) Limited**

Name of Department: Civil Engineering & Development Department

Contract No.: NE/2017/06

**Monthly Summary Waste Flow Table For 2020**

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. General Refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0.0015
Oct	0	0	0	0	0	0	0	0	0	0	0.0045
Nov											
Dec											
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0.006

- 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.
  - (3) Each dump truck carries 6m<sup>3</sup> of general refuse.
  - (4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 October 2020 to 31 October 2020.

Monthly Summary Waste Flow Table for 2020

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Contract No.: NE/2017/01

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	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.0163	0.0000	0.0000	0.0000	0.0163	0.0000	0.0000	0.0000	0.0000	0.0000	0.0033
Feb	0.2601	0.0000	0.0000	0.0000	0.2601	0.0000	11.2600	0.0000	0.0000	0.0000	0.0017
Mar	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0044
Apr	0.0105	0.0000	0.0000	0.0000	0.0105	0.0000	0.0000	0.0000	0.0224	0.0000	0.0033
May	0.1669	0.0000	0.0000	0.0000	0.1669	0.0000	4.2000	0.0000	0.0000	0.0000	0.0062
Jun	0.0099	0.0000	0.0000	0.0000	0.0099	0.0000	0.0000	0.0000	0.0000	0.0000	0.0118
Sub-total	0.4637	0.0000	0.0000	0.0000	0.4637	0.0000	15.4600	0.0000	0.0224	0.0000	0.0305
Jul	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0114
Aug	0.0098	0.0000	0.0000	0.0000	0.0098	0.0000	22.2300	0.4250	0.0000	0.0000	0.0105
Sep	0.0493	0.0000	0.0000	0.0000	0.0493	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101
Oct	0.0213	0.0000	0.0000	0.0000	0.0213	0.0000	0.0000	0.0000	0.0950	0.0000	0.0101
Nov											
Dec											
Total	0.5441	0.0000	0.0000	0.0000	0.5441	0.0000	37.6900	0.4250	0.1174	0.0000	0.0726

- Notes:
1. Assume the density of soil fill is 2 ton/m<sup>3</sup>.
  2. Assume the density of rock and broken concrete is 2.5 ton/m<sup>3</sup>.
  3. Assume the density of mixed rock and soil is 1.9 ton/m<sup>3</sup>.
  4. Assume the density of slurry and bentonite is 2.8 ton/m<sup>3</sup>.
  5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.
  6. Assume the density of C&D waste is 0.9 ton/m<sup>3</sup>.
  7. The non-inert C&D wastes are disposed at NENT.