

Monthly Summary Waste Flow Table for 2018



| 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 (see Note 9) | c. Reused in the Contract | d. Reused in Other Projects | e. Disposed as Public Fill (see Note 10) | 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 ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| January | 1.836 | 1.836 | 0.000 | 0.000 | 1.836 | 0.000 | 437.360 | 1.922 | 0.000 | 0.000 | 0.912 |
| February | 0.648 | 0.648 | 0.000 | 0.000 | 0.648 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.124 |
| March | 2.590 | 2.590 | 0.000 | 0.000 | 2.590 | 0.000 | 0.000 | 1.785 | 0.000 | 0.000 | 1.661 |
| April | 0.355 | 0.355 | 0.000 | 0.000 | 0.355 | 0.000 | 0.000 | 1.630 | 0.000 | 0.000 | 1.067 |
| May | 0.066 | 0.000 | 0.000 | 0.000 | 0.066 | 0.000 | 0.000 | 1.493 | 0.000 | 0.000 | 0.510 |
| June | 0.071 | 0.000 | 0.000 | 0.000 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.218 |
| Sub-total | 5.566 | 5.429 | 0.000 | 0.000 | 5.566 | 0.000 | 437.360 | 6.830 | 0.000 | 0.000 | 5.492 |
| July | 0.010 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.114 |
| August | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.201 | 0.000 | 0.000 | 0.189 |
| September | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.700 | 0.000 | 0.000 | 0.066 |
| October | 0.038 | 0.000 | 0.000 | 0.000 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.255 |
| November ^(*) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| December | | | | | | | | | | | |
| Total | 5.614 | 5.429 | 0.000 | 0.000 | 5.614 | 0.000 | 437.360 | 9.731 | 0.000 | 0.000 | 6.116 |

Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

% of recycled C&D waste = (Total C&D waste generated - Total C&D waste recycled) / Total C&D waste generated

| Forecast of Total Quantities of C&D Materials to be Generated from the Contract* | | | | | | | | | | |
|--|--|---------------------------|-----------------------------|---|--------------------------|---------------------------|--|---|-------------------|--------------------------------|
| a.Total Quantity Generated (see Note 8) | b. Hard Rock and Large Broken Concrete (see Note 9) | c. Reused in the Contract | d. Reused in Other Projects | e. Disposed as Public Fill (see Note 10) | 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 ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| | | | | | | | | | | |

- 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 not 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 50,000m³.
- (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/m³; soil = 2.0 tonnes/m³
 excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³
 C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³
 Diesel density: 0.8kg/l
- (7) Numbers are rounded off to the nearest three decimal places
- (8) The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"
- (9) The "Hard Rock and Large Broken Concrete" were disposed as public fill
- (10) The amount in "Disposed as Public Fill" included the "Hard Rock and Large Broken Concrete" disposed as public fill
- (*) The works site area of Contract No. HY/2013/01 was handed over to the relevant authorities since 24 October 2018 and no chemical waste and general refuse were generated in November 2018.

ATAL Technologies Ltd.

Contract No. **HY/2013/06** HKBCF Automatic Vehicle Clearance Support System

Location: Artificial Island of HKBCF (C1 Area)

Monthly Summary Waste Flow Table for 2018

| Month | Inert C&D Waste disposal / 墮性廢物 (in tonnes) (see Note 1) | | | | | | Non-inert C&D Waste disposal 非墮性廢物 (in tonnes) | | Waste to be recycled and returned / 可再循環利用或回收的廢物 | | | | | | | | Total Quantity Generated 總生產量 | | | |
|-------------------------|--|-------------------|-------------------------------------|-------------------|---|-------------------|--|-------------------|--|-------------------|-------------------|-------------------|--------------------------------------|-------------------|------------------------|-------------------|----------------------------------|--------------|-------------------|-------------------|
| | Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填) | | Reused in other Projects 再用於其他工程 | | Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 墮性廢物 (如泥, 石, 磚, 瓦, 填土等) | | Others (e.g. general refuse, broken formwork etc.) 其他 (如垃圾, 廢板枋等) | | Metals 金屬 | | Plastic 塑膠 | | Paper/cardboard packaging 廢紙/包裝紙類 | | Chemical Waste 化學廢物 | | | | | |
| | (b) | | (c) | | (d) | | (e) | | (in tonnes) | | (in tonnes) | | (in tonnes) | | (in litre) | | | | (a)= (b+c+d+e) | |
| | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | Est. Qty. 估計數量 | Act. Qty. 實際數量 | | | Est. Qty. 估計數量 | Act. Qty. 實際數量 |
| January | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | |
| February | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | | |
| March | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | | |
| April | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | | |
| May | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.010 | | |
| June | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.005 | | |
| July | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | |
| August | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | |
| September | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | |
| October | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | |
| November ^(*) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| December | | | | | | | | | | | | | | | | | | | | |
| Total | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.045 | 0.045 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.045 | 0.045 | | |

Notes:

(1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm⁻³.

(*) The works site area of Contract No. HY/2013/01 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/01 works area) was handed over to the relevant authorities since 24 October 2018 and no chemical waste and general refuse were generated in November 2018.