Name of Department: Highways Department

**Monthly Summary Waste Flow Table for 2018**

Contract No.: HY/2014/05



| 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 | 0.053 | 0.053 | 0.000 | 0.000 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.515 |
| February | | | | | | | | | | | |
| March | | | | | | | | | | | |
| April | | | | | | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| Sub-total | 0.053 | 0.053 | 0.000 | 0.000 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.515 |
| July | | | | | | | | | | | |
| August | | | | | | | | | | | |
| September | | | | | | | | | | | |
| October | | | | | | | | | | | |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| Total | 0.053 | 0.053 | 0.000 | 0.000 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.515 |

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

**LEIGHTON** 俊和 CHUN WO
Leighton - Chun Wo Joint Venture

| 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/m$^3$; soil = 2.0 tonnes/m$^3$

excavated: rock = 2.0 tonnes/m$^3$; soil = 1.8 tonnes/m$^3$; broken concrete and bitumen = 2.4 tonnes/m$^3$

C&D Waste = 0.9 tonnes/m$^3$; bentonite slurry = 2.8 tonnes/m$^3$

(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

**ATAL**

ATAL Technologies Ltd.
Contract No. **HY/2013/06** HKBCF Automatic Vehicle Clearence Support System
Location:     Artifical Island of HKBCF ( C8 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, 石矢頭, 石, 填料等) | | 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 | 0.020 | 0.020 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.020 | |
| February | | | | | | | | | | | | | | | | | | | |
| March | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | |
| July | | | | | | | | | | | | | | | | | | | |
| August | | | | | | | | | | | | | | | | | | | |
| September | | | | | | | | | | | | | | | | | | | |
| October | | | | | | | | | | | | | | | | | | | |
| November | | | | | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | | | | | |
| **Total** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.020 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.020 | |

Notes:          (1) The quantitles 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.

**Rapiscan** systems
An OSI Systems Company

## Highways Department
## Monthly Summary of Waste Flow Table in 2018

| Month | Actual Quantities of Inert C&D Materials Generated / Imported | | | | | | Actual Quantities of Other C&D Materials / Wastes Generated | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Quantity Generated (in '000m$^3$) | Hard Rocks and Large Broken Concrete (in '000m$^3$) | Reused in the Contract (in '000m$^3$) | Reused in other Projects (in '000m$^3$) | Disposed as Public Fill (in '000m$^3$) | Imported Fill (in '000m$^3$) | Metals (in '000kg) | Paper/Card-board packaging (in '000kg) | Plastic (in '000kg) | Chemical Waste (in '000kg) | Others. e.g. general refuse, plastic (in '000kg) |
| Jan-18 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Feb-18 | | | | | | | | | | | |
| Mar-18 | | | | | | | | | | | |
| Apr-18 | | | | | | | | | | | |
| May-18 | | | | | | | | | | | |
| Jun-18 | | | | | | | | | | | |
| Half-year total | | | | | | | | | | | |
| Jul-18 | | | | | | | | | | | |
| Aug-18 | | | | | | | | | | | |
| Sep-18 | | | | | | | | | | | |
| Oct-18 | | | | | | | | | | | |
| Nov-18 | | | | | | | | | | | |
| Dec-18 | | | | | | | | | | | |
| Yearly Total | | | | | | | | | | | |