Name of Department: Highways Department

Contract No.: <u>HY/2014/05</u>

Monthly Summary Waste Flow Table for 2017



| | Actua | al Quantities | of Inert C&D |) Materials G | Actual Quantities of C&D Wastes Generated Monthly | | | | | | | |
|-----------|--|--|---------------------------------|--------------------------------------|--|--------------------------|---------------------------|--|---|----------------------|---|--|
| Month | 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 | 1.390 | 0.010 | 1.380 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.197 | |
| February | 1.070 | 0.003 | 1.067 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.143 | |
| March | | | | | | | | | | | | |
| April | | | | | | | | | | | | |
| May | | | | | | | | | | | | |
| June | | | | | | | | | | | | |
| Sub-total | 2.460 | 0.013 | 2.447 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.340 | |
| July | | | | | | | | | | | | |
| August | | | | | | | | | | | | |
| September | | | | | | | | | | | | |
| October | | | | | | | | | | | | |
| November | | | | | | | | | | | | |
| December | | | | | | | | | | | | |
| Total | 2.460 | 0.013 | 2.447 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.340 | |

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

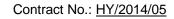
Total C&D waste generated (excluded excavated material) = g+h+i+j+k

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

Monthly Summary Waste Flow Table for 2017 - Rev.00 - 28/02/2016

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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 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
 - (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

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Monthly Summary Waste Flow Table for 2017

| 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) | | | | | | | | | | |
|-----------|---|-------------------|--|-------------------|---|-------------------|--|---|-------------------|-------------------|-------------------|-------------------|---|-------------------|------------------------|-------------------|-------------------------------------|-------------------|
| | 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 | | Total Quantity Generated 總生產量 | |
| | (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 | 0.002 | 0.002 | 0.000 | 0.000 | 0.002 | 0.002 |
| February | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 | 0.000 | 0.000 | 0.002 | 0.002 |
| March | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | |
| Мау | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | |
| July | | | | | | | | | | | | | | | | | | |
| August | | | | | | | | | | | | | | | | | | |
| September | | | | | | | | | | | | | | | | | | |
| October | | | | | | | | | | | | | | | | | | |
| November | | | | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | | | | |
| Total | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 | 0.004 | 0.000 | 0.000 | 0.004 | 0.004 |

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.



Highways Department Monthly Summary of Waste Flow Table in 2017

| | Actu | al Quantities | of Inert C&D | Materials Ge | Actual Quantities of Other C&D Materials / Wastes Generated | | | | | | |
|--------------|--------------------------------|---|--------------------------|--------------------------------|---|--------------------------|-------------|-----------------------------------|-------------|-------------------|---|
| Month | Total Quantity Generated | Hard Rocks and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/Card- board packaging | Plastic | Chemical Waste | Others. e.g. general refuse, plastic |
| | (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) |
| Jan-17* | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Feb-17* | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mar-17 | | | | | | | | | | | |
| Apr-17 | | | | | | | | | | | |
| May-17 | | | | | | | | | | | |
| Jun-17 | | | | | | | | | | | |
| Half-year | | | | | | | | | | | |
| total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Jul-17 | | | | | | | | | | | |
| Aug-17 | | | | | | | | | | | |
| Sep-17 | | | | | | | | | | | |
| Oct-17 | | | | | | | | | | | |
| Nov-17 | | | | | | | | | | | |
| Dec-17 | | | | | | | | | | | |
| Yearly Total | | | | | | | | | | | |

Notes:

(1) *Contract No. HY/2014/04 commenced on 13 February 2017.

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

(3) Broken concrete for recycling into aggregates.