

**MONTHLY SUMMARY WASTE FLOW TABLE**

Name of Department: HyD

Contract No.: HY/2011/03

**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 and Large Broken Concrete | Reused in the Contract (Note 8) | Reused in Other Projects (Note 8) | Disposed as Public Fill (Note 6) | Imported Fill (Note 6)   | Metals  | Paper / Cardboard Packaging | Plastics (Note 3) | Chemical Waste | Others, e.g. general refuse (Note 8) |
|            | (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        | 0.043  | 0.000                               | 0.019                           | 0.000                             | 0.024                            | 0.009                    | 0.102   | 0.000                       | 0.000             | 0.000          | 0.085                                |
| Feb        | 0.000  | 0.000                               | 0.000                           | 0.000                             | 0.000                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.026                                |
| Mar        | 0.008  | 0.000                               | 0.000                           | 0.000                             | 0.008                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.039                                |
| Apr        | 0.000  | 0.000                               | 0.000                           | 0.000                             | 0.000                            | 0.036                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.039                                |
| May        | 0.000  | 0.000                               | 0.000                           | 0.000                             | 0.000                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.033                                |
| Jun        | 0.104  | 0.000                               | 0.000                           | 0.000                             | 0.104                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.026                                |
| Sub-total  | 0.155  | 0.000                               | 0.019                           | 0.000                             | 0.136                            | 0.045                    | 0.102   | 0.000                       | 0.000             | 0.000          | 0.247                                |
| Jul        | 0.024  | 0.000                               | 0.000                           | 0.000                             | 0.024                            | 0.108                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.026                                |
| Aug        | 0.440  | 0.000                               | 0.000                           | 0.000                             | 0.440                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.033                                |
| Sep        | 0.328  | 0.000                               | 0.000                           | 0.000                             | 0.328                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.026                                |
| Oct        | 0.024  | 0.000                               | 0.000                           | 0.000                             | 0.024                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.033                                |
| Nov        | 0.088  | 0.000                               | 0.000                           | 0.000                             | 0.088                            | 0.000                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.039                                |
| Dec        |  |                                     |                                 |                                   |                                  |                          |   |                             |                   |                |                                      |
| Sub- total | 0.904  | 0.000                               | 0.000                           | 0.000                             | 0.904                            | 0.108                    | 0.000   | 0.000                       | 0.000             | 0.000          | 0.156                                |
| Total      | 1.059  | 0.000                               | 0.019                           | 0.000                             | 1.040                            | 0.153                    | 0.102   | 0.000                       | 0.000             | 0.000          | 0.403                                |

| Forecast of Total Quantities of C&D Materials to be Generated from the Contract* |                                     |                          |                          |                          |                          |             |                             |                       |                |                             |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------|-----------------------------|-----------------------|----------------|-----------------------------|
| 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 (see Note 3) | 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> )    |
| 310.805  | 21.788                              | 224.130                  | 40.265                   | 24.622                   | 1362.000                 | 10.000      | 4.600                       | 0.500                 | 3.400          | 2.350                       |

- Notes:
- (1) The performance target are given in ER Appendix 8J Clause 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 50,000m<sup>3</sup>
  - (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:  
excavated (bulk): rock = 2.0 tonnes/m<sup>3</sup>; soil = 1.8 tonnes/m<sup>3</sup>; sand=1.9 tonnes/m<sup>3</sup>; Metal=7.85 tonnes/m<sup>3</sup>
  - (7) Numbers are rounded off to the nearest three decimal places
  - (8) 30T dump truck carries C&D waste of 8.0m<sup>3</sup>; 24T dump truck carries C&D waste of 6.5m<sup>3</sup>