

**Table S1.** Monthly CW generation of site A

| Month | Type of material |             |                       |            |             |                        |
|-------|------------------|-------------|-----------------------|------------|-------------|------------------------|
|       | Waste Concrete   | Mixed Waste | Waste Synthetic Resin | Waste Wood | Waste Board | Waste Asphalt Concrete |
| 1     | 313,530          |             | 11,500                |            |             |                        |
| 2     | 21,250           |             | 9170                  |            |             |                        |
| 3     | 116,670          | 30,540      | 6680                  |            |             |                        |
| 4     | 193,860          |             |                       |            |             |                        |
| 5     | 165,280          |             | 5620                  |            |             |                        |
| 6     | 384,760          |             | 4670                  |            |             |                        |
| 7     | 1,202,390        | 19,410      | 6820                  |            |             |                        |
| 8     | 608,690          | 28,600      | 16,980                | 21,360     |             |                        |
| 9     | 283,570          | 152,840     | 25,060                | 42,130     |             |                        |
| 10    | 115,540          | 228,440     | 6620                  | 68,260     |             |                        |
| 11    | 112,960          | 448,310     | 9120                  | 104,160    |             |                        |
| 12    | 113,920          | 374,300     | 17,820                | 87,920     |             |                        |
| 13    | 182,610          | 367,630     | 33,460                | 93,070     |             |                        |
| 14    | 163,800          | 208,320     | 25,850                | 20,400     |             |                        |
| 15    | 470,360          | 531,140     | 39,360                | 51,710     | 38,350      |                        |
| 16    | 217,870          | 506,190     | 49,960                | 34,910     | 136,390     |                        |
| 17    | 45,150           | 403,210     | 51,420                | 34,930     | 156,560     |                        |
| 18    |                  | 343,210     | 62,470                | 41,440     | 272,670     |                        |
| 19    |                  | 377,550     | 53,320                | 18,220     | 157,400     |                        |
| 20    | 2,001,360        | 345,330     | 66,260                |            | 284,520     |                        |
| 21    | 2,405,320        | 600,890     | 41,180                |            | 174,060     |                        |
| 22    | 234,960          | 973,280     | 45,810                |            | 235,170     |                        |
| 23    | 778,990          | 966,920     | 1400                  |            | 79,100      |                        |
| 24    | 890,490          | 1,055,190   | 1020                  |            | 56,710      |                        |
| 25    | 974,640          | 818,030     |                       |            | 19,950      |                        |
| 26    | 1,757,090        | 1,208,060   | 11,710                |            | 11,500      |                        |
| 27    | 249,540          | 1,226,970   |                       |            |             | 461,050                |
| 28    |                  | 1,177,320   |                       |            | 16,170      |                        |
| 29    |                  | 567,950     |                       |            |             |                        |
| 30    |                  | 119,840     |                       |            |             |                        |
| 31    |                  | 231,420     |                       |            |             |                        |
| Total | 14,004,600       | 13,310,890  | 603,280               | 618,510    | 1,638,550   | 461,050                |

**Table S2.** Monthly CW generation of site B

| Month | Type of material |             |                       |            |             |                        |
|-------|------------------|-------------|-----------------------|------------|-------------|------------------------|
|       | Waste Concrete   | Mixed Waste | Waste Synthetic Resin | Waste Wood | Waste Board | Waste Asphalt Concrete |
| 1     |                  |             |                       |            |             |                        |
| 2     |                  |             |                       |            |             |                        |
| 3     | 187,800          |             |                       |            |             |                        |
| 4     |                  |             |                       |            |             |                        |
| 5     | 49,150           | 42,550      |                       |            |             |                        |
| 6     |                  |             |                       | 7,470      |             |                        |
| 7     |                  |             | 14,360                | 26,300     |             |                        |
| 8     | 176,210          | 17,980      | 4550                  | 33,110     |             |                        |
| 9     | 106,650          | 71,100      | 24,610                | 29,990     |             |                        |
| 10    | 24,940           | 24,120      |                       | 21,340     |             |                        |
| 11    | 43,080           | 140,060     |                       | 22,770     |             |                        |
| 12    | 361,190          | 201,010     |                       |            |             |                        |
| 13    | 368,270          | 156,770     | 13,620                | 7800       |             |                        |
| 14    | 862,840          | 122,670     | 13,480                |            |             |                        |
| 15    | 249,210          | 228,000     | 10,890                | 4700       |             |                        |
| 16    | 99,870           | 165,160     | 7790                  | 14,020     |             |                        |
| 17    | 642,160          | 195,530     | 18,130                |            | 6560        | 73,620                 |
| 18    | 24,550           | 271,280     |                       |            |             |                        |
| 19    |                  | 389,510     | 23,460                |            |             |                        |
| 20    | 149,830          | 241,650     | 13,960                |            |             |                        |
| 21    | 297,380          | 170,820     |                       |            |             |                        |
| 22    | 150,860          | 275,060     | 7980                  |            |             |                        |
| 23    | 269,530          | 375,420     | 49,530                |            |             |                        |
| 24    |                  | 169,590     | 12,410                |            |             |                        |
| 25    |                  | 48,620      |                       |            |             |                        |
| Total | 4,063,520        | 3,306,900   | 214,770               | 167,500    | 6560        | 73,620                 |

**Table S3.** Monthly CW generation of site C

| Month | Type of material |             |                       |            |             |                        |
|-------|------------------|-------------|-----------------------|------------|-------------|------------------------|
|       | Waste Concrete   | Mixed Waste | Waste Synthetic Resin | Waste Wood | Waste Board | Waste Asphalt Concrete |
| 1     |                  |             |                       |            |             |                        |
| 2     |                  |             |                       |            |             |                        |
| 3     |                  | 12,050      |                       |            |             |                        |
| 4     |                  | 23,710      |                       |            |             |                        |
| 5     |                  | 11,010      |                       |            |             |                        |
| 6     | 65,630           | 11,580      |                       |            |             |                        |
| 7     | 540,450          | 28,340      |                       |            |             |                        |
| 8     | 477,150          | 24,790      |                       |            |             |                        |
| 9     | 430,750          | 40,460      |                       |            |             |                        |
| 10    | 576,290          | 31,100      | 8280                  |            |             |                        |
| 11    | 23,530           | 36,740      | 9800                  | 15,400     |             |                        |
| 12    | 24,290           | 93,550      |                       | 12,260     |             |                        |
| 13    | 440,140          | 81,910      |                       | 70,260     |             |                        |
| 14    | 443,980          | 105,790     |                       | 25,870     |             |                        |
| 15    | 1,028,890        | 102,810     |                       | 97,570     |             |                        |
| 16    | 641,990          | 182,940     |                       | 26,370     |             |                        |
| 17    | 101,240          | 268,300     |                       | 12,250     |             |                        |
| 18    | 145,380          | 335,810     |                       |            |             |                        |
| 19    | 24,160           | 216,860     |                       |            |             |                        |
| 20    | 25,260           | 249,590     |                       |            | 18,920      |                        |
| 21    |                  | 225,750     |                       | 25,850     | 62,570      |                        |
| 22    | 176,250          | 330,590     |                       | 28,470     | 75,320      |                        |
| 23    | 333,090          | 256,040     |                       | 21,110     | 73,860      |                        |
| 24    | 859,810          | 303,040     |                       | 4630       | 88,620      |                        |
| 25    | 448,630          | 195,320     |                       |            | 145,340     |                        |
| 26    | 379,570          | 416,880     |                       | 3840       | 126,150     |                        |
| 27    | 153,070          | 413,150     |                       | 4590       | 36,100      |                        |
| 28    | 27,820           | 311,190     |                       | 4560       | 15,170      |                        |
| 29    | 1,743,330        | 518,380     |                       | 13,000     |             |                        |
| 30    | 130,660          | 574,120     |                       | 4010       |             |                        |
| 31    |                  | 349,720     | 4310                  | 2500       |             | 1,317,850              |
| 32    | 26,820           | 205,940     |                       | 9050       |             |                        |
| 33    |                  | 47,870      |                       |            |             |                        |
| 34    |                  | 63,540      |                       |            |             |                        |
| 35    | 24,460           | 122,090     |                       |            |             |                        |
| 36    | 504,980          | 46,740      |                       |            |             |                        |
| 37    |                  | 27,730      |                       |            |             |                        |
| 38    |                  |             |                       |            |             |                        |
| Total | 9,797,620        | 6,265,430   | 22,390                | 381,590    | 642,050     | 1,317,850              |