

## Appendix 4.5

### Details of Calculations for Existing Operations

## 4.5 DETAILS OF CALCULATIONS FOR EXISTING OPERATIONS

| IPKT       | IPKT: Name                                                                                                                                                                             | IPKT: x<br>/m     | IPKT: y<br>/m  | Lr(IP)<br>/dB(A)               |                  |                 |                  |                   |                  |                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|--------------------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|
| IPkt017    | 46 Rochdale Road GF S/W                                                                                                                                                                | 405292.4          | 422942         | 44.46                          |                  |                 |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |                   |                |                                |                  |                 |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |                   |                |                                |                  |                 |                  |                   |                  |                  |
| ISO 9613-2 | L <sub>fT</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |                   |                |                                |                  |                 |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                  | L <sub>w</sub>    | D <sub>c</sub> | A <sub>div</sub>               | A <sub>atm</sub> | A <sub>gr</sub> | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                        | /dB               | /dB            | /dB                            | /dB              | /dB             | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                             | 87.64             | 0              | 54.83                          | 0.09             | -3              | 0                | 0                 | 14.32            | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                             | 83.52             | 0              | 55.29                          | 0.11             | -3.09           | 0                | 0                 | 11.16            | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                           | 89.92             | 0              | 55.11                          | 0.08             | -3.13           | 0                | 0                 | 9.25             | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                             | 87.65             | 0              | 54.04                          | 0.17             | -3              | 0                | 0                 | 1.89             | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                             | 82.64             | 0              | 53.65                          | 0.15             | -3              | 0                | 0                 | 1.31             | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                          | 90.9              | 0              | 53.21                          | 0.22             | -3              | 0                | 0                 | 2.44             | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                          | 90.9              | 0              | 53.56                          | 0.22             | -3              | 0                | 0                 | 2.35             | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                                | 91.94             | 0              | 54.41                          | 0.14             | -3              | 0                | 0                 | 4.68             | 0                |
|            |                                                                                                                                                                                        |                   |                |                                |                  |                 |                  |                   |                  |                  |
| BS 5228    | L <sub>aeq</sub> = L <sub>wa,T</sub> - K <sub>h</sub> - K* + A <sub>fac</sub>   K* = max(K <sub>s</sub> -K <sub>h</sub> , A <sub>scr</sub> )                                           |                   |                |                                |                  |                 |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                  | L <sub>wA,T</sub> | K <sub>h</sub> | K <sub>s</sub> -K <sub>h</sub> | A <sub>scr</sub> | K*              | A <sub>fac</sub> |                   |                  |                  |
|            |                                                                                                                                                                                        | /dB(A)            | /m             | /dB                            | /dB              | /dB             | /dB              | /dB               | /dB              |                  |
| HAUL002    | 1. HGV parking maneuvering                                                                                                                                                             | 74.56             |                | 49.38                          |                  | 10              | 0                |                   |                  |                  |
| HAUL003    | 2. HGV to Recycle Shed                                                                                                                                                                 | 74.67             |                | 49.86                          |                  | 5.15            | 0                |                   |                  |                  |

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|         |                                         |       |       |      |   |
|---------|-----------------------------------------|-------|-------|------|---|
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42 | 50.46 | 4.26 | 0 |
| HAUL005 | 4. Skip Lorry to store site             | 77.21 | 50.8  | 0.91 | 0 |
| HAUL006 | 5. HGV from shed to access road         | 74.41 | 49.61 | 5    | 0 |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09 | 49.97 | 5    | 0 |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15 | 53.14 | 2.49 | 0 |

| IPKT    | IPKT: Name               | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|--------------------------|------------|------------|---------------|
| IPkt018 | 46 Rochdale Road UF1 S/W | 405292.4   | 422942     | 45.05         |

| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |       |     |       |      |     |      |       |       |      |
|------------|----------------------------------------------------------------|-------|-----|-------|------|-----|------|-------|-------|------|
| Element    | Label                                                          | Lw    | Dc  | Adiv  | Aatm | Agr | Afol | Ahous | Abar  | Cmet |
|            |                                                                | /dB   | /dB | /dB   | /dB  | /dB | /dB  | /dB   | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64 | 0   | 54.84 | 0.09 | -3  | 0    | 0     | 14.28 | 0    |
| FLQi034    | Recycling Building/SW wall                                     | 83.52 | 0   | 55.28 | 0.11 | -3  | 0    | 0     | 10.7  | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92 | 0   | 55.12 | 0.08 | -3  | 0    | 0     | 9.21  | 0    |
| FLQi035    | Recycling Building/NW wall                                     | 87.65 | 0   | 54.02 | 0.14 | -3  | 0    | 0     | 0.22  | 0    |
| FLQi036    | Recycling Building/NE wall                                     | 82.64 | 0   | 53.67 | 0.13 | -3  | 0    | 0     | 0.11  | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                  | 90.9  | 0   | 53.23 | 0.16 | -3  | 0    | 0     | 0.48  | 0    |
| FLQi074    | Shed Front Door#2 (Open door)                                  | 90.9  | 0   | 53.58 | 0.17 | -3  | 0    | 0     | 0.37  | 0    |
| FLQi037    | Recycling Building/Roof                                        | 91.94 | 0   | 54.42 | 0.16 | -3  | 0    | 0     | 4.44  | 0    |

| BS 5228 | L <sub>aeq</sub> = L <sub>wa,T</sub> - K <sub>h</sub> - K* + A <sub>fac</sub>   K* = max(K <sub>s</sub> -K <sub>h</sub> , A <sub>scr</sub> ) |                   |                |                                |                  |    |                  |  |  |  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|--------------------------------|------------------|----|------------------|--|--|--|
| Element | Label                                                                                                                                        | L <sub>wa,T</sub> | K <sub>h</sub> | K <sub>s</sub> -K <sub>h</sub> | A <sub>scr</sub> | K* | A <sub>fac</sub> |  |  |  |

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|         |                                         | /dB(A) | /m | /dB   | /dB | /dB | /dB  | /dB | /dB |
|---------|-----------------------------------------|--------|----|-------|-----|-----|------|-----|-----|
| HAUL002 | 1. HGV parking maneuvering              | 74.56  |    | 49.35 |     |     | 7.8  | 0   |     |
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67  |    | 49.91 |     |     | 0.33 | 0   |     |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42  |    | 50.47 |     |     | 1.43 | 0   |     |
| HAUL005 | 4. Skip Lorry to store site             | 77.21  |    | 50.78 |     |     | 0    | 0   |     |
| HAUL006 | 5. HGV from shed to access road         | 74.41  |    | 49.65 |     |     | 0    | 0   |     |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09  |    | 49.91 |     |     | 3.19 | 0   |     |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15  |    | 52.98 |     |     | 0.43 | 0   |     |

| IPKT    | IPKT: Name                | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|---------------------------|------------|------------|---------------|
| IPkt019 | 46 Rochdale Road GF South | 405295.4   | 422939.2   | 45.02         |

| ISO 9613-2 | L <sub>fT</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |                |                |                  |                  |                 |                  |                   |                  |                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|
| Element    | Label                                                                                                                                                                                  | L <sub>w</sub> | D <sub>c</sub> | A <sub>div</sub> | A <sub>atm</sub> | A <sub>gr</sub> | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                        | /dB            | /dB            | /dB              | /dB              | /dB             | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                             | 87.64          | 0              | 54.68            | 0.09             | -3              | 0                | 0                 | 14.26            | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                             | 83.52          | 0              | 55.16            | 0.1              | -3.07           | 0                | 0                 | 10.83            | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                           | 89.92          | 0              | 55               | 0.08             | -3.11           | 0                | 0                 | 9.37             | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                             | 87.65          | 0              | 53.9             | 0.14             | -3              | 0                | 0                 | 0.67             | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                             | 82.64          | 0              | 53.47            | 0.13             | -3              | 0                | 0                 | 0.4              | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                          | 90.9           | 0              | 53.03            | 0.17             | -3              | 0                | 0                 | 1.09             | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                          | 90.9           | 0              | 53.38            | 0.18             | -3              | 0                | 0                 | 0.96             | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                                |                |                |                  |                  |                 |                  |                   |                  |                  |

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|  |  |       |   |  |      |     |    |   |   |      |   |
|--|--|-------|---|--|------|-----|----|---|---|------|---|
|  |  | 91.94 | 0 |  | 54.2 | 0.1 | -3 | 0 | 0 | 4.68 | 0 |
|  |  |       |   |  | 6    | 4   |    |   |   |      |   |

BS 5228 Laeq = Lwa,T - Kh - K\* + Afac | K\* = max(Ks-Kh, Ascr)

| Element | Label                                   | Lwa,T     | Kh    | Ks-Kh | Asc<br>r | K*   | Afa<br>c |     |     |
|---------|-----------------------------------------|-----------|-------|-------|----------|------|----------|-----|-----|
|         |                                         | /dB(A) /m | /dB   | /dB   | /dB      | /dB  | /dB      | /dB | /dB |
| HAUL002 | 1. HGV parking maneuvering              | 74.56     | 49.11 |       |          | 10   | 0        |     |     |
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67     | 49.67 |       |          | 0.38 | 0        |     |     |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42     | 50.24 |       |          | 1.53 | 0        |     |     |
| HAUL005 | 4. Skip Lorry to store site             | 77.21     | 50.55 |       |          | 0    | 0        |     |     |
| HAUL006 | 5. HGV from shed to access road         | 74.41     | 49.63 |       |          | 3.23 | 0        |     |     |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09     | 49.74 |       |          | 5    | 0        |     |     |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15     | 53.05 |       |          | 2.5  | 0        |     |     |

| IPKT    | IPKT: Name                | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |
|---------|---------------------------|---------------|---------------|------------------|
| IPkt020 | 46 Rochdale Road UF1South | 405295.4      | 422939.2      | 45.25            |

| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |       |     |       |      |     |      |           |       |      |
|------------|----------------------------------------------------------------|-------|-----|-------|------|-----|------|-----------|-------|------|
| Element    | Label                                                          | Lw    | Dc  | Adiv  | Aatm | Agr | Afol | Aho<br>us | Abar  | Cmet |
|            |                                                                | /dB   | /dB | /dB   | /dB  | /dB | /dB  | /dB       | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64 | 0   | 54.69 | 0.08 | -3  | 0    | 0         | 14.22 | 0    |
| FLQi034    | Recycling Building/SW wall                                     | 83.52 | 0   | 55.16 | 0.1  | -3  | 0    | 0         | 10.76 | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92 | 0   | 55.01 | 0.08 | -3  | 0    | 0         | 9.33  | 0    |
| FLQi035    | Recycling Building/NW wall                                     | 87.65 | 0   | 53.88 | 0.13 | -3  | 0    | 0         | 0.17  | 0    |
| FLQi036    | Recycling Building/NE wall                                     | 82.64 | 0   | 53.49 | 0.12 | -3  | 0    | 0         | 0.02  | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                  |       |     |       |      |     |      |           |       |      |

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|            |                                                                |               |               |                  |           |          |          |           |           |          |   |
|------------|----------------------------------------------------------------|---------------|---------------|------------------|-----------|----------|----------|-----------|-----------|----------|---|
|            |                                                                | 90.9          | 0             |                  | 53.0<br>4 | 0.1<br>5 | -3       | 0         | 0         | 0.26     | 0 |
| FLQi074    | Shed Front Door#2 (Open door)                                  |               |               |                  |           |          |          |           |           |          |   |
|            |                                                                | 90.9          | 0             |                  | 53.3<br>9 | 0.1<br>6 | -3       | 0         | 0         | 0.22     | 0 |
| FLQi037    | Recycling Building/Roof                                        |               |               |                  |           |          |          |           |           |          |   |
|            |                                                                | 91.94         | 0             |                  | 54.2<br>7 | 0.1<br>6 | -3       | 0         | 0         | 4.44     | 0 |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |               |               |                  |           |          |          |           |           |          |   |
| Element    | Label                                                          | LwA,T         |               | Kh               | Ks-Kh     | Asc<br>r | K*       | Afa<br>c  |           |          |   |
|            |                                                                | /dB(A)        | /m            | /dB              | /dB       | /dB      | /dB      | /dB       | /dB       |          |   |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56         |               | 49.0<br>9        |           |          | 7.7<br>6 | 0         |           |          |   |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67         |               | 49.7             |           |          | 0.3<br>8 | 0         |           |          |   |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42         |               | 50.2<br>6        |           |          | 1.4<br>4 | 0         |           |          |   |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21         |               | 50.5<br>8        |           |          | 0        | 0         |           |          |   |
| HAUL006    | 5. HGV from shed to access road                                | 74.41         |               | 49.4<br>2        |           |          | 0        | 0         |           |          |   |
| HAUL007    | 6. Skip Lorry from store to access road                        | 73.09         |               | 49.6<br>7        |           |          | 3.1<br>9 | 0         |           |          |   |
| HAUL008    | 7. Wheeled loader to fixed skips                               | 71.15         |               | 52.8<br>9        |           |          | 0.4<br>6 | 0         |           |          |   |
| IPKT       | IPKT: Name                                                     | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |           |          |          |           |           |          |   |
| IPkt025    | 80 Rochdale Road GF S/E                                        | 405193.4      | 422884.3      | 41.3<br>6        |           |          |          |           |           |          |   |
| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |               |               |                  |           |          |          |           |           |          |   |
| Element    | Label                                                          | Lw            | Dc            | Adiv             | Aat<br>m  | Agr      | Afo<br>l | Aho<br>us | Aba<br>r  | Cm<br>et |   |
|            |                                                                | /dB           | /dB           | /dB              | /dB       | /dB      | /dB      | /dB       | /dB       | /dB      |   |
| FLQi033    | Recycling Building/SE wall                                     |               |               |                  |           |          |          |           |           |          |   |
|            |                                                                | 87.64         | 0             | 53.6<br>4        | 0.0<br>8  | -3       | 0        | 0         | 16.3<br>4 | 0        |   |
| FLQi034    | Recycling Building/SW wall                                     |               |               |                  |           |          |          |           |           |          |   |
|            |                                                                | 83.52         | 0             | 52.6             | 0.1       | -3       | 0        | 0         | 7.46      | 0        |   |
| FLQi072    | Shed Door#3_Rear (Open door)                                   |               |               |                  |           |          |          |           |           |          |   |
|            |                                                                | 89.92         | 0             | 52.3<br>1        | 0.0<br>7  | -3       | 0        | 0         | 8.77      | 0        |   |
| FLQi035    | Recycling Building/NW wall                                     |               |               |                  |           |          |          |           |           |          |   |
|            |                                                                | 87.65         | 0             | 52.1<br>7        | 0.1       | -3       | 0        | 0         | 4.85      | 0        |   |

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|------------|----------------------------------------------------------------|----------|----------|--------|-------|------|------|-------|-------|--------|
| FLQi036    | Recycling Building/NE wall                                     |          |          |        |       |      |      |       |       |        |
|            |                                                                | 82.64    | 0        |        | 53.13 | 0.09 | -3   | 0     | 0     | 6.74 0 |
| FLQi073    | Shed Front Door#1 (Open door)                                  |          |          |        |       |      |      |       |       |        |
|            |                                                                | 90.9     | 0        |        | 52.76 | 0.09 | -3   | 0     | 0     | 5.71 0 |
| FLQi074    | Shed Front Door#2 (Open door)                                  |          |          |        |       |      |      |       |       |        |
|            |                                                                | 90.9     | 0        |        | 53.27 | 0.07 | -3   | 0     | 0     | 7.6 0  |
| FLQi037    | Recycling Building/Roof                                        |          |          |        |       |      |      |       |       |        |
|            |                                                                | 91.94    | 0        |        | 52.89 | 0.14 | -3   | 0     | 0     | 4.34 0 |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Asc)           |          |          |        |       |      |      |       |       |        |
| Element    | Label                                                          | LwA,T    |          | Kh     | Ks-Kh | Asc  | K*   | Afac  |       |        |
|            |                                                                | /dB(A)   | /m       | /dB    | /dB   | /dB  | /dB  | /dB   | /dB   |        |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56    |          | 50.99  |       |      | 7.22 | 0     |       |        |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67    |          | 50.34  |       |      | 5.12 | 0     |       |        |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42    |          | 51.02  |       |      | 5.28 | 0     |       |        |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21    |          | 51.07  |       |      | 5.26 | 0     |       |        |
| HAUL006    | 5. HGV from shed to access road                                | 74.41    |          | 50.24  |       |      | 5.11 | 0     |       |        |
| HAUL007    | 6. Skip Lorry from store to access road                        | 73.09    |          | 50.92  |       |      | 5    | 0     |       |        |
| HAUL008    | 7. Wheeled loader to fixed skips                               | 71.15    |          | 49.96  |       |      | 10   | 0     |       |        |
|            |                                                                |          |          |        |       |      |      |       |       |        |
| IPKT       | IPKT: Name                                                     | IPKT: x  | IPKT: y  | Lr(IP) |       |      |      |       |       |        |
|            |                                                                | /m       | /m       | /dB(A) |       |      |      |       |       |        |
| IPkt026    | 80 Rochdale Road UF1S/E                                        | 405193.4 | 422884.3 | 42.92  |       |      |      |       |       |        |
|            |                                                                |          |          |        |       |      |      |       |       |        |
| ISO 9613-2 | Lft = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |          |          |        |       |      |      |       |       |        |
| Element    | Label                                                          | Lw       | Dc       | Adiv   | Aatm  | Agr  | Afol | Ahous | Abar  | Cmet   |
|            |                                                                | /dB      | /dB      | /dB    | /dB   | /dB  | /dB  | /dB   | /dB   | /dB    |
| FLQi033    | Recycling Building/SE wall                                     |          |          |        |       |      |      |       |       |        |
|            |                                                                | 87.64    | 0        | 53.66  | 0.08  | -3   | 0    | 0     | 16.27 | 0      |
| FLQi034    | Recycling Building/SW wall                                     |          |          |        |       |      |      |       |       |        |
|            |                                                                | 83.52    | 0        | 52.96  | 0.1   | -3   | 0    | 0     | 5.74  | 0      |
| FLQi072    | Shed Door#3_Rear (Open door)                                   |          |          |        |       |      |      |       |       |        |

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|            |                                                                |               |               |                  |           |          |          |           |          |          |   |
|------------|----------------------------------------------------------------|---------------|---------------|------------------|-----------|----------|----------|-----------|----------|----------|---|
|            |                                                                | 89.92         | 0             |                  | 52.3<br>4 | 0.0<br>9 | -3       | 0         | 0        | 7.97     | 0 |
| FLQi035    | Recycling Building/NW wall                                     |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                | 87.65         | 0             |                  | 52.2<br>1 | 0.1<br>3 | -3       | 0         | 0        | 4.27     | 0 |
| FLQi036    | Recycling Building/NE wall                                     |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                | 82.64         | 0             |                  | 53.1<br>4 | 0.0<br>9 | -3       | 0         | 0        | 6.7      | 0 |
| FLQi073    | Shed Front Door#1 (Open door)                                  |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                | 90.9          | 0             |                  | 52.7<br>9 | 0.0<br>9 | -3       | 0         | 0        | 5.7      | 0 |
| FLQi074    | Shed Front Door#2 (Open door)                                  |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                | 90.9          | 0             |                  | 53.2<br>2 | 0.0<br>7 | -3       | 0         | 0        | 7.59     | 0 |
| FLQi037    | Recycling Building/Roof                                        |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                | 91.94         | 0             |                  | 52.9      | 0.1<br>6 | -3       | 0         | 0        | 3.77     | 0 |
|            |                                                                |               |               |                  |           |          |          |           |          |          |   |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |               |               |                  |           |          |          |           |          |          |   |
| Element    | Label                                                          | LwA,T         |               | Kh               | Ks-Kh     | Asc<br>r | K*       | Afa<br>c  |          |          |   |
|            |                                                                | /dB(A)        | /m            | /dB              | /dB       | /dB      | /dB      | /dB       | /dB      |          |   |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56         |               | 50.9<br>7        |           |          | 3.2<br>4 | 0         |          |          |   |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67         |               | 50.3<br>8        |           |          | 0.1<br>5 | 0         |          |          |   |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42         |               | 51.0<br>7        |           |          | 0.3<br>8 | 0         |          |          |   |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21         |               | 51.1<br>2        |           |          | 0.3<br>4 | 0         |          |          |   |
| HAUL006    | 5. HGV from shed to access road                                | 74.41         |               | 50.2<br>7        |           |          | 0.1<br>5 | 0         |          |          |   |
| HAUL007    | 6. Skip Lorry from store to access road                        | 73.09         |               | 50.9<br>5        |           |          | 0        | 0         |          |          |   |
| HAUL008    | 7. Wheeled loader to fixed skips                               | 71.15         |               | 49.9<br>9        |           |          | 10       | 0         |          |          |   |
|            |                                                                |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                |               |               |                  |           |          |          |           |          |          |   |
| IPKT       | IPKT: Name                                                     | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |           |          |          |           |          |          |   |
| IPkt031    | 80 Rochdale Road GF N/E                                        | 405196.3      | 422890.7      | 41.1<br>3        |           |          |          |           |          |          |   |
|            |                                                                |               |               |                  |           |          |          |           |          |          |   |
|            |                                                                |               |               |                  |           |          |          |           |          |          |   |
| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |               |               |                  |           |          |          |           |          |          |   |
| Element    | Label                                                          | Lw            | Dc            | Adiv             | Aat<br>m  | Agr      | Afo<br>l | Aho<br>us | Aba<br>r | Cm<br>et |   |
|            |                                                                | /dB           | /dB           | /dB              | /dB       | /dB      | /dB      | /dB       | /dB      | /dB      |   |
| FLQi033    | Recycling Building/SE wall                                     |               |               |                  |           |          |          |           |          |          |   |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|         |                                                       |               |               |                  |           |          |          |          |     |           |   |
|---------|-------------------------------------------------------|---------------|---------------|------------------|-----------|----------|----------|----------|-----|-----------|---|
|         |                                                       | 87.64         | 0             |                  | 53.8<br>1 | 0.0<br>8 | -3       | 0        | 0   | 16.3<br>3 | 0 |
| FLQi034 | Recycling Building/SW wall                            |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 83.52         | 0             |                  | 53.0<br>2 | 0.0<br>9 | -3       | 0        | 0   | 9.66      | 0 |
| FLQi072 | Shed Door#3_Rear (Open door)                          |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 89.92         | 0             |                  | 52.6<br>6 | 0.0<br>8 | -3       | 0        | 0   | 17.2<br>4 | 0 |
| FLQi035 | Recycling Building/NW wall                            |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 87.65         | 0             |                  | 52.3<br>8 | 0.1<br>1 | -3       | 0        | 0   | 4.79      | 0 |
| FLQi036 | Recycling Building/NE wall                            |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 82.64         | 0             |                  | 53.2<br>6 | 0.0<br>9 | -3       | 0        | 0   | 6.16      | 0 |
| FLQi073 | Shed Front Door#1 (Open door)                         |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 90.9          | 0             |                  | 52.8<br>7 | 0.1      | -3       | 0        | 0   | 5.32      | 0 |
| FLQi074 | Shed Front Door#2 (Open door)                         |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 90.9          | 0             |                  | 53.3<br>1 | 0.0<br>8 | -3       | 0        | 0   | 6.88      | 0 |
| FLQi037 | Recycling Building/Roof                               |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       | 91.94         | 0             |                  | 53.0<br>8 | 0.1<br>4 | -3       | 0        | 0   | 4.36      | 0 |
|         |                                                       |               |               |                  |           |          |          |          |     |           |   |
| BS 5228 | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr) |               |               |                  |           |          |          |          |     |           |   |
| Element | Label                                                 | LwA,T         |               | Kh               | Ks-Kh     | Asc<br>r | K*       | Afa<br>c |     |           |   |
|         |                                                       | /dB(A)        | /m            | /dB              | /dB       | /dB      | /dB      | /dB      | /dB |           |   |
| HAUL002 | 1. HGV parking maneuvering                            | 74.56         |               | 51               |           |          | 7.2<br>7 | 0        |     |           |   |
| HAUL003 | 2. HGV to Recycle Shed                                | 74.67         |               | 50.3<br>9        |           |          | 5        | 0        |     |           |   |
| HAUL004 | 3. HGV/Skip to Shed                                   | 81.42         |               | 51.1<br>5        |           |          | 4.4<br>8 | 0        |     |           |   |
| HAUL005 | 4. Skip Lorry to store site                           | 77.21         |               | 51.1<br>2        |           |          | 5        | 0        |     |           |   |
| HAUL006 | 5. HGV from shed to access road                       | 74.41         |               | 50.2<br>8        |           |          | 5        | 0        |     |           |   |
| HAUL007 | 6. Skip Lorry from store to access road               | 73.09         |               | 50.9<br>6        |           |          | 5        | 0        |     |           |   |
| HAUL008 | 7. Wheeled loader to fixed skips                      | 71.15         |               | 50.2<br>7        |           |          | 10       | 0        |     |           |   |
|         |                                                       |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       |               |               |                  |           |          |          |          |     |           |   |
| IPKT    | IPKT: Name                                            | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |           |          |          |          |     |           |   |
| IPkt032 | 80 Rochdale Road UF1N/E                               | 405196.<br>3  | 422890.<br>7  | 42.6<br>7        |           |          |          |          |     |           |   |
|         |                                                       |               |               |                  |           |          |          |          |     |           |   |
|         |                                                       |               |               |                  |           |          |          |          |     |           |   |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

ISO 9613-2 LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet

| Element | Label                                                 | Lw         | Dc         | Adiv          | Aatm | Agr  | Afol | Ahous | Abar  | Cmet |
|---------|-------------------------------------------------------|------------|------------|---------------|------|------|------|-------|-------|------|
|         |                                                       | /dB        | /dB        | /dB           | /dB  | /dB  | /dB  | /dB   | /dB   | /dB  |
| FLQi033 | Recycling Building/SE wall                            | 87.64      | 0          | 53.83         | 0.08 | -3   | 0    | 0     | 16.25 | 0    |
| FLQi034 | Recycling Building/SW wall                            | 83.52      | 0          | 53.22         | 0.09 | -3   | 0    | 0     | 6.39  | 0    |
| FLQi072 | Shed Door#3_Rear (Open door)                          | 89.92      | 0          | 52.69         | 0.08 | -3   | 0    | 0     | 17.13 | 0    |
| FLQi035 | Recycling Building/NW wall                            | 87.65      | 0          | 52.42         | 0.13 | -3   | 0    | 0     | 3.85  | 0    |
| FLQi036 | Recycling Building/NE wall                            | 82.64      | 0          | 53.29         | 0.09 | -3   | 0    | 0     | 6.15  | 0    |
| FLQi073 | Shed Front Door#1 (Open door)                         | 90.9       | 0          | 52.9          | 0.1  | -3   | 0    | 0     | 5.32  | 0    |
| FLQi074 | Shed Front Door#2 (Open door)                         | 90.9       | 0          | 53.33         | 0.08 | -3   | 0    | 0     | 6.87  | 0    |
| FLQi037 | Recycling Building/Roof                               | 91.94      | 0          | 53.16         | 0.1  | -3   | 0    | 0     | 3.82  | 0    |
|         |                                                       |            |            |               |      |      |      |       |       |      |
| BS 5228 | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr) |            |            |               |      |      |      |       |       |      |
| Element | Label                                                 | Lwa,T      | Kh         | Ks-Kh         | Ascr | K*   | Afac |       |       |      |
|         |                                                       | /dB(A)     | /m         | /dB           | /dB  | /dB  | /dB  | /dB   | /dB   |      |
| HAUL002 | 1. HGV parking maneuvering                            | 74.56      | 50.98      |               |      | 3.33 | 0    |       |       |      |
| HAUL003 | 2. HGV to Recycle Shed                                | 74.67      | 50.42      |               |      | 0    | 0    |       |       |      |
| HAUL004 | 3. HGV/Skip to Shed                                   | 81.42      | 51.11      |               |      | 0.24 | 0    |       |       |      |
| HAUL005 | 4. Skip Lorry to store site                           | 77.21      | 51.16      |               |      | 0.14 | 0    |       |       |      |
| HAUL006 | 5. HGV from shed to access road                       | 74.41      | 50.31      |               |      | 0    | 0    |       |       |      |
| HAUL007 | 6. Skip Lorry from store to access road               | 73.09      | 50.99      |               |      | 0    | 0    |       |       |      |
| HAUL008 | 7. Wheeled loader to fixed skips                      | 71.15      | 50.3       |               |      | 10   | 0    |       |       |      |
|         |                                                       |            |            |               |      |      |      |       |       |      |
| IPKT    | IPKT: Name                                            | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |      |      |      |       |       |      |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|            |                                                                |          |          |       |      |       |      |     |       |      |  |
|------------|----------------------------------------------------------------|----------|----------|-------|------|-------|------|-----|-------|------|--|
| IPkt033    | Bank House GF West                                             | 405234.9 | 422640.5 | 41.07 |      |       |      |     |       |      |  |
|            |                                                                |          |          |       |      |       |      |     |       |      |  |
|            |                                                                |          |          |       |      |       |      |     |       |      |  |
| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |          |          |       |      |       |      |     |       |      |  |
| Element    | Label                                                          | Lw       | Dc       | Adiv  | Aatm | Agr   | Afol | Aho | Abar  | Cmet |  |
|            |                                                                | /dB      | /dB      | /dB   | /dB  | /dB   | /dB  | /dB | /dB   | /dB  |  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64    | 0        | 54.81 | 0.17 | -3    | 0    | 0   | 4.26  | 0    |  |
| FLQi034    | Recycling Building/SW wall                                     | 83.52    | 0        | 54.09 | 0.15 | -3    | 0    | 0   | 3.51  | 0    |  |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92    | 0        | 54.44 | 0.18 | -3.03 | 0    | 0   | 4.71  | 0    |  |
| FLQi035    | Recycling Building/NW wall                                     | 87.65    | 0        | 55.36 | 0.09 | -3    | 0    | 0   | 13.44 | 0    |  |
| FLQi036    | Recycling Building/NE wall                                     | 82.64    | 0        | 56    | 0.1  | -3.04 | 0    | 0   | 11.67 | 0    |  |
| FLQi073    | Shed Front Door#1 (Open door)                                  | 90.9     | 0        | 56.28 | 0.1  | -3.32 | 0    | 0   | 13.67 | 0    |  |
| FLQi074    | Shed Front Door#2 (Open door)                                  | 90.9     | 0        | 56.09 | 0.11 | -3.15 | 0    | 0   | 15.13 | 0    |  |
| FLQi037    | Recycling Building/Roof                                        | 91.94    | 0        | 55.17 | 0.19 | -3    | 0    | 0   | 2.24  | 0    |  |
|            |                                                                |          |          |       |      |       |      |     |       |      |  |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |          |          |       |      |       |      |     |       |      |  |
| Element    | Label                                                          | LwA,T    | Kh       | Ks-Kh | Asc  | K*    | Afac |     |       |      |  |
|            |                                                                | /dB(A)   | /m       | /dB   | /dB  | /dB   | /dB  | /dB | /dB   |      |  |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56    | 54.59    |       |      | 6.68  | 0    |     |       |      |  |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67    | 53.79    |       |      | 10    | 0    |     |       |      |  |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42    | 53.63    |       |      | 10    | 0    |     |       |      |  |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21    | 53.35    |       |      | 10    | 0    |     |       |      |  |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|         |                                         |       |       |    |   |
|---------|-----------------------------------------|-------|-------|----|---|
| HAUL006 | 5. HGV from shed to access road         | 74.41 | 53.87 | 10 | 0 |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09 | 53.9  | 10 | 0 |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15 | 50.53 | 10 | 0 |

| IPKT    | IPKT: Name         | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|--------------------|------------|------------|---------------|
| IPkt034 | Bank House UF1West | 405234.9   | 422640.5   | 41.87         |

| ISO 9613-2 | L <sub>fT</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |                |                |                  |                  |                 |                  |                   |                  |                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|
| Element    | Label                                                                                                                                                                                  | L <sub>w</sub> | D <sub>c</sub> | A <sub>div</sub> | A <sub>atm</sub> | A <sub>gr</sub> | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                        | /dB            | /dB            | /dB              | /dB              | /dB             | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                             | 87.64          | 0              | 54.88            | 0.17             | -3              | 0                | 0                 | 3.34             | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                             | 83.52          | 0              | 54.12            | 0.15             | -3              | 0                | 0                 | 1.26             | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                           | 89.92          | 0              | 54.47            | 0.21             | -3              | 0                | 0                 | 3.84             | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                             | 87.65          | 0              | 55.38            | 0.09             | -3              | 0                | 0                 | 13.4             | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                             | 82.64          | 0              | 56.01            | 0.1              | -3              | 0                | 0                 | 10.97            | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                          | 90.9           | 0              | 56.29            | 0.1              | -3              | 0                | 0                 | 13.64            | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                          | 90.9           | 0              | 56.12            | 0.1              | -3              | 0                | 0                 | 13.43            | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                                | 91.94          | 0              | 55.09            | 0.2              | -3              | 0                | 0                 | 2.68             | 0                |

|         |                                                                                                                                              |                   |    |                |                                |                  |     |                  |     |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------|--------------------------------|------------------|-----|------------------|-----|
| BS 5228 | L <sub>aeq</sub> = L <sub>wa,T</sub> - K <sub>h</sub> - K* + A <sub>fac</sub>   K* = max(K <sub>s</sub> -K <sub>h</sub> , A <sub>scr</sub> ) |                   |    |                |                                |                  |     |                  |     |
| Element | Label                                                                                                                                        | L <sub>wa,T</sub> |    | K <sub>h</sub> | K <sub>s</sub> -K <sub>h</sub> | A <sub>scr</sub> | K*  | A <sub>fac</sub> |     |
|         |                                                                                                                                              | /dB(A)            | /m | /dB            | /dB                            | /dB              | /dB | /dB              | /dB |
| HAUL002 | 1. HGV parking maneuvering                                                                                                                   | 74.56             |    | 54.51          |                                |                  | 5   | 0                |     |

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|         |                                         |       |       |      |   |
|---------|-----------------------------------------|-------|-------|------|---|
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67 | 53.89 | 9.12 | 0 |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42 | 53.73 | 8.09 | 0 |
| HAUL005 | 4. Skip Lorry to store site             | 77.21 | 53.38 | 10   | 0 |
| HAUL006 | 5. HGV from shed to access road         | 74.41 | 53.89 | 10   | 0 |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09 | 53.92 | 9.36 | 0 |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15 | 50.81 | 8.37 | 0 |

| IPKT    | IPKT: Name        | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|-------------------|------------|------------|---------------|
| IPkt035 | Bank House GF N/E | 405242.8   | 422645.4   | 41.49         |

| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet | Lw    | Dc  | Adiv | Aatm | Agr   | Afol | Ahous | Abar  | Cmet |
|------------|----------------------------------------------------------------|-------|-----|------|------|-------|------|-------|-------|------|
| Element    | Label                                                          | /dB   | /dB | /dB  | /dB  | /dB   | /dB  | /dB   | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64 | 0   | 54.4 | 0.16 | -3    | 0    | 0     | 4.32  | 0    |
| FLQi034    | Recycling Building/SW wall                                     | 83.52 | 0   | 53.7 | 0.14 | -3    | 0    | 0     | 4.11  | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92 | 0   | 54.1 | 0.18 | -3    | 0    | 0     | 4.66  | 0    |
| FLQi035    | Recycling Building/NW wall                                     | 87.65 | 0   | 55.0 | 0.03 | -3    | 0    | 0     | 13.65 | 0    |
| FLQi036    | Recycling Building/NE wall                                     | 82.64 | 0   | 55.6 | 0.03 | -3.03 | 0    | 0     | 11.57 | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                  | 90.9  | 0   | 55.9 | 0.04 | -3.27 | 0    | 0     | 13.67 | 0    |
| FLQi074    | Shed Front Door#2 (Open door)                                  | 90.9  | 0   | 55.7 | 0.13 | -3.12 | 0    | 0     | 15.01 | 0    |
| FLQi037    | Recycling Building/Roof                                        | 91.94 | 0   | 54.8 | 0.11 | -3    | 0    | 0     | 2.07  | 0    |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|            |                                                                |        |               |               |                  |       |          |      |           |          |          |
|------------|----------------------------------------------------------------|--------|---------------|---------------|------------------|-------|----------|------|-----------|----------|----------|
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |        |               |               |                  |       |          |      |           |          |          |
| Element    | Label                                                          |        | LwA,T         |               | Kh               | Ks-Kh | Asc<br>r | K*   | Afac      |          |          |
|            |                                                                |        | /dB(A)        | /m            | /dB              | /dB   | /dB      | /dB  | /dB       | /dB      |          |
| HAUL002    | 1. HGV parking maneuvering                                     |        | 74.56         |               | 54.17            |       |          | 5    | 0         |          |          |
| HAUL003    | 2. HGV to Recycle Shed                                         |        | 74.67         |               | 53.45            |       |          | 10   | 0         |          |          |
| HAUL004    | 3. HGV/Skip to Shed                                            |        | 81.42         |               | 53.38            |       |          | 7.22 | 0         |          |          |
| HAUL005    | 4. Skip Lorry to store site                                    |        | 77.21         |               | 52.99            |       |          | 10   | 0         |          |          |
| HAUL006    | 5. HGV from shed to access road                                |        | 74.41         |               | 53.54            |       |          | 10   | 0         |          |          |
| HAUL007    | 6. Skip Lorry from store to access road                        |        | 73.09         |               | 53.41            |       |          | 6.51 | 0         |          |          |
| HAUL008    | 7. Wheeled loader to fixed skips                               |        | 71.15         |               | 50.19            |       |          | 10   | 0         |          |          |
|            |                                                                |        |               |               |                  |       |          |      |           |          |          |
|            |                                                                |        |               |               |                  |       |          |      |           |          |          |
| IPKT       | IPKT: Name                                                     |        | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |       |          |      |           |          |          |
| IPkt036    | Bank House                                                     | UF1N/E | 405242.8      | 422645.4      | 42.68            |       |          |      |           |          |          |
|            |                                                                |        |               |               |                  |       |          |      |           |          |          |
|            |                                                                |        |               |               |                  |       |          |      |           |          |          |
| ISO 9613-2 | Lft = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |        |               |               |                  |       |          |      |           |          |          |
| Element    | Label                                                          |        | Lw            | Dc            | Adiv             | Aatm  | Agr      | Afol | Aho<br>us | Aba<br>r | Cm<br>et |
|            |                                                                |        | /dB           | /dB           | /dB              | /dB   | /dB      | /dB  | /dB       | /dB      | /dB      |
| FLQi033    | Recycling Building/SE wall                                     |        | 87.64         | 0             | 54.31            | 0.15  | -3       | 0    | 0         | 0.75     | 0        |
| FLQi034    | Recycling Building/SW wall                                     |        | 83.52         | 0             | 53.75            | 0.14  | -3       | 0    | 0         | 1.22     | 0        |
| FLQi072    | Shed Door#3_Rear (Open door)                                   |        | 89.92         | 0             | 54.13            | 0.21  | -3       | 0    | 0         | 3.74     | 0        |
| FLQi035    | Recycling Building/NW wall                                     |        | 87.65         | 0             | 55.05            | 0.09  | -3       | 0    | 0         | 13.61    | 0        |
| FLQi036    | Recycling Building/NE wall                                     |        | 82.64         | 0             | 55.65            | 0.09  | -3       | 0    | 0         | 10.88    | 0        |
| FLQi073    | Shed Front Door#1 (Open door)                                  |        | 90.9          | 0             | 55.96            | 0.09  | -3       | 0    | 0         | 13.63    | 0        |
| FLQi074    | Shed Front Door#2 (Open door)                                  |        |               |               |                  |       |          |      |           |          |          |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|  |  |      |   |  |      |     |    |   |   |      |   |
|--|--|------|---|--|------|-----|----|---|---|------|---|
|  |  | 90.9 | 0 |  | 55.7 | 0.0 | -3 | 0 | 0 | 13.3 | 0 |
|  |  |      |   |  | 7    | 9   |    |   |   | 1    |   |

|         |                         |       |   |  |      |     |    |   |   |      |   |
|---------|-------------------------|-------|---|--|------|-----|----|---|---|------|---|
| FLQi037 | Recycling Building/Roof |       |   |  |      |     |    |   |   |      |   |
|         |                         | 91.94 | 0 |  | 54.7 | 0.1 | -3 | 0 | 0 | 2.64 | 0 |
|         |                         |       |   |  | 2    | 9   |    |   |   |      |   |

BS 5228 Laeq = Lwa,T - Kh - K\* + Afac | K\* = max(Ks-Kh, Ascr)

| Element | Label                                   | LwA,T     | Kh    | Ks-Kh | Asc<br>r | K*   | Afa<br>c |     |     |  |  |
|---------|-----------------------------------------|-----------|-------|-------|----------|------|----------|-----|-----|--|--|
|         |                                         | /dB(A) /m | /dB   | /dB   | /dB      | /dB  | /dB      | /dB | /dB |  |  |
| HAUL002 | 1. HGV parking maneuvering              | 74.56     | 54.29 |       |          | 1.68 | 0        |     |     |  |  |
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67     | 53.59 |       |          | 8.59 | 0        |     |     |  |  |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42     | 53.38 |       |          | 6.11 | 0        |     |     |  |  |
| HAUL005 | 4. Skip Lorry to store site             | 77.21     | 53.03 |       |          | 7.27 | 0        |     |     |  |  |
| HAUL006 | 5. HGV from shed to access road         | 74.41     | 53.56 |       |          | 10   | 0        |     |     |  |  |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09     | 53.49 |       |          | 5.69 | 0        |     |     |  |  |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15     | 50.47 |       |          | 8.38 | 0        |     |     |  |  |

| IPKT    | IPKT: Name         | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |
|---------|--------------------|---------------|---------------|------------------|
| IPkt037 | Bank House GF East | 405247.4      | 422640.4      | 39.23            |

ISO 9613-2 LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet

| Element | Label                        | Lw    | Dc  | Adiv  | Aatm | Agr | Afol | Aho<br>us | Aba<br>r | Cm<br>et |
|---------|------------------------------|-------|-----|-------|------|-----|------|-----------|----------|----------|
|         |                              | /dB   | /dB | /dB   | /dB  | /dB | /dB  | /dB       | /dB      | /dB      |
| FLQi033 | Recycling Building/SE wall   |       |     |       |      |     |      |           |          |          |
|         |                              | 87.64 | 0   | 54.58 | 0.14 | -3  | 0    | 0         | 4.83     | 0        |
| FLQi034 | Recycling Building/SW wall   |       |     |       |      |     |      |           |          |          |
|         |                              | 83.52 | 0   | 53.91 | 0.12 | -3  | 0    | 0         | 5.85     | 0        |
| FLQi072 | Shed Door#3_Rear (Open door) |       |     |       |      |     |      |           |          |          |
|         |                              | 89.92 | 0   | 54.42 | 0.12 | -3  | 0    | 0         | 7.34     | 0        |
| FLQi035 | Recycling Building/NW wall   |       |     |       |      |     |      |           |          |          |
|         |                              | 87.65 | 0   | 55.5  | 0.1  | -3  | 0    | 0         | 17.27    | 0        |
| FLQi036 | Recycling Building/NE wall   |       |     |       |      |     |      |           |          |          |

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|            |                                                                |            |            |               |       |       |       |        |       |       |   |
|------------|----------------------------------------------------------------|------------|------------|---------------|-------|-------|-------|--------|-------|-------|---|
|            |                                                                | 82.64      | 0          |               | 55.8  | 0.1   | -3.03 | 0      | 0     | 11.47 | 0 |
| FLQi073    | Shed Front Door#1 (Open door)                                  |            |            |               |       |       |       |        |       |       |   |
|            |                                                                | 90.9       | 0          |               | 56.1  | 0.11  | -3.16 | 0      | 0     | 15.38 | 0 |
| FLQi074    | Shed Front Door#2 (Open door)                                  |            |            |               |       |       |       |        |       |       |   |
|            |                                                                | 90.9       | 0          |               | 55.9  | 0.1   | -3.13 | 0      | 0     | 14.91 | 0 |
| FLQi037    | Recycling Building/Roof                                        |            |            |               |       |       |       |        |       |       |   |
|            |                                                                | 91.94      | 0          |               | 54.93 | 0.18  | -3    | 0      | 0     | 3.75  | 0 |
|            |                                                                |            |            |               |       |       |       |        |       |       |   |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |            |            |               |       |       |       |        |       |       |   |
| Element    | Label                                                          | LwA,T      |            | Kh            | Ks-Kh | Asc r | K*    | Afa c  |       |       |   |
|            |                                                                | /dB(A)     | /m         | /dB           | /dB   | /dB   | /dB   | /dB    | /dB   |       |   |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56      |            | 54.29         |       |       | 5     | 0      |       |       |   |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67      |            | 53.73         |       |       | 8.23  | 0      |       |       |   |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42      |            | 53.42         |       |       | 10    | 0      |       |       |   |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21      |            | 53.13         |       |       | 10    | 0      |       |       |   |
| HAUL006    | 5. HGV from shed to access road                                | 74.41      |            | 53.7          |       |       | 10    | 0      |       |       |   |
| HAUL007    | 6. Skip Lorry from store to access road                        | 73.09      |            | 53.74         |       |       | 8.34  | 0      |       |       |   |
| HAUL008    | 7. Wheeled loader to fixed skips                               | 71.15      |            | 50.52         |       |       | 10    | 0      |       |       |   |
|            |                                                                |            |            |               |       |       |       |        |       |       |   |
| IPKT       | IPKT: Name                                                     | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |       |       |       |        |       |       |   |
| IPkt038    | Bank House UF1East                                             | 405247.4   | 422640.4   | 40.51         |       |       |       |        |       |       |   |
|            |                                                                |            |            |               |       |       |       |        |       |       |   |
|            |                                                                |            |            |               |       |       |       |        |       |       |   |
| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |            |            |               |       |       |       |        |       |       |   |
| Element    | Label                                                          | Lw         | Dc         | Adiv          | Aat m | Agr   | Afo l | Aho us | Aba r | Cm et |   |
|            |                                                                | /dB        | /dB        | /dB           | /dB   | /dB   | /dB   | /dB    | /dB   | /dB   |   |
| FLQi033    | Recycling Building/SE wall                                     |            |            |               |       |       |       |        |       |       |   |
|            |                                                                | 87.64      | 0          | 54.67         | 0.17  | -3    | 0     | 0      | 3.63  | 0     |   |
| FLQi034    | Recycling Building/SW wall                                     |            |            |               |       |       |       |        |       |       |   |
|            |                                                                | 83.52      | 0          | 53.95         | 0.12  | -3    | 0     | 0      | 5.27  | 0     |   |

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|                                                               |                                                                |          |          |        |       |     |      |       |      |      |   |
|---------------------------------------------------------------|----------------------------------------------------------------|----------|----------|--------|-------|-----|------|-------|------|------|---|
| FLQi072                                                       | Shed Door#3_Rear (Open door)                                   |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                | 89.92    | 0        |        | 54.4  | 0.1 | -3   | 0     | 0    | 4.2  | 0 |
|                                                               |                                                                |          |          |        |       | 2   |      |       |      |      |   |
| FLQi035                                                       | Recycling Building/NW wall                                     |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                | 87.65    | 0        |        | 55.5  | 0.0 | -3   | 0     | 0    | 16.9 | 0 |
|                                                               |                                                                |          |          |        |       | 9   |      |       |      | 9    |   |
| FLQi036                                                       | Recycling Building/NE wall                                     |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                | 82.64    | 0        |        | 55.8  | 0.1 | -3   | 0     | 0    | 11.2 | 0 |
|                                                               |                                                                |          |          |        |       | 2   |      |       |      | 6    |   |
| FLQi073                                                       | Shed Front Door#1 (Open door)                                  |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                | 90.9     | 0        |        | 56.1  | 0.1 | -3   | 0     | 0    | 13.5 | 0 |
|                                                               |                                                                |          |          |        |       | 3   |      |       |      | 9    |   |
| FLQi074                                                       | Shed Front Door#2 (Open door)                                  |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                | 90.9     | 0        |        | 55.9  | 0.0 | -3   | 0     | 0    | 13.1 | 0 |
|                                                               |                                                                |          |          |        |       | 4   |      |       |      | 7    |   |
|                                                               |                                                                |          |          |        |       | 9   |      |       |      |      |   |
| FLQi037                                                       | Recycling Building/Roof                                        |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                | 91.94    | 0        |        | 54.9  | 0.1 | -3   | 0     | 0    | 3.09 | 0 |
|                                                               |                                                                |          |          |        |       | 7   |      |       |      |      |   |
|                                                               |                                                                |          |          |        |       | 8   |      |       |      |      |   |
| BS 5228 Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr) |                                                                |          |          |        |       |     |      |       |      |      |   |
| Element                                                       | Label                                                          | LwA,T    |          | Kh     | Ks-Kh | Asc | K*   | Afac  |      |      |   |
|                                                               |                                                                | /dB(A)   | /m       | /dB    | /dB   | /dB | /dB  | /dB   | /dB  |      |   |
| HAUL002                                                       | 1. HGV parking maneuvering                                     | 74.56    |          | 54.3   |       |     | 0    | 0     |      |      |   |
|                                                               |                                                                |          |          | 1      |       |     |      |       |      |      |   |
| HAUL003                                                       | 2. HGV to Recycle Shed                                         | 74.67    |          | 53.7   |       |     | 8.2  | 0     |      |      |   |
|                                                               |                                                                |          |          | 5      |       |     | 3    |       |      |      |   |
| HAUL004                                                       | 3. HGV/Skip to Shed                                            | 81.42    |          | 53.5   |       |     | 6.0  | 0     |      |      |   |
|                                                               |                                                                |          |          | 1      |       |     | 6    |       |      |      |   |
| HAUL005                                                       | 4. Skip Lorry to store site                                    | 77.21    |          | 53.1   |       |     | 7.2  | 0     |      |      |   |
|                                                               |                                                                |          |          | 7      |       |     |      |       |      |      |   |
| HAUL006                                                       | 5. HGV from shed to access road                                | 74.41    |          | 53.7   |       |     | 10   | 0     |      |      |   |
|                                                               |                                                                |          |          | 2      |       |     |      |       |      |      |   |
| HAUL007                                                       | 6. Skip Lorry from store to access road                        | 73.09    |          | 53.6   |       |     | 5.6  | 0     |      |      |   |
|                                                               |                                                                |          |          | 2      |       |     | 9    |       |      |      |   |
| HAUL008                                                       | 7. Wheeled loader to fixed skips                               | 71.15    |          | 50.5   |       |     | 10   | 0     |      |      |   |
|                                                               |                                                                |          |          | 6      |       |     |      |       |      |      |   |
|                                                               |                                                                |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                |          |          |        |       |     |      |       |      |      |   |
| IPKT                                                          | IPKT: Name                                                     | IPKT: x  | IPKT: y  | Lr(IP) |       |     |      |       |      |      |   |
|                                                               |                                                                | /m       | /m       | /dB(A) |       |     |      |       |      |      |   |
| IPkt079                                                       | 90 Rochdale Road GF S/E                                        | 405147.7 | 422858.1 | 39.85  |       |     |      |       |      |      |   |
|                                                               |                                                                |          |          |        |       |     |      |       |      |      |   |
|                                                               |                                                                |          |          |        |       |     |      |       |      |      |   |
| ISO 9613-2                                                    | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |          |          |        |       |     |      |       |      |      |   |
| Element                                                       | Label                                                          | Lw       | Dc       | Adiv   | Aatm  | Agr | Afol | Ahous | Abar | Cmet |   |
|                                                               |                                                                | /dB      | /dB      | /dB    | /dB   | /dB | /dB  | /dB   | /dB  | /dB  |   |
| FLQi033                                                       | Recycling Building/SE wall                                     |          |          |        |       |     |      |       |      |      |   |

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|         |                                                       |               |               |                  |           |          |               |          |     |           |   |
|---------|-------------------------------------------------------|---------------|---------------|------------------|-----------|----------|---------------|----------|-----|-----------|---|
|         |                                                       | 87.64         | 0             |                  | 54.9<br>2 | 0.0<br>9 | -3            | 0        | 0   | 16.0<br>8 | 0 |
| FLQi034 | Recycling Building/SW wall                            |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 83.52         | 0             |                  | 53.9<br>3 | 0.1<br>3 | -3            | 0        | 0   | 1.43      | 0 |
| FLQi072 | Shed Door#3_Rear (Open door)                          |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 89.92         | 0             |                  | 53.3<br>3 | 0.0<br>8 | -3            | 0        | 0   | 5.87      | 0 |
| FLQi035 | Recycling Building/NW wall                            |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 87.65         | 0             |                  | 53.6<br>8 | 0.1<br>1 | -3            | 0        | 0   | 5.56      | 0 |
| FLQi036 | Recycling Building/NE wall                            |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 82.64         | 0             |                  | 54.8<br>4 | 0.1      | -<br>3.0<br>2 | 0        | 0   | 11.3<br>1 | 0 |
| FLQi073 | Shed Front Door#1 (Open door)                         |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 90.9          | 0             |                  | 54.6<br>6 | 0.1<br>2 | -<br>3.0<br>6 | 0        | 0   | 17.7<br>5 | 0 |
| FLQi074 | Shed Front Door#2 (Open door)                         |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 90.9          | 0             |                  | 54.9<br>6 | 0.1<br>2 | -<br>3.1<br>1 | 0        | 0   | 17.7<br>5 | 0 |
| FLQi037 | Recycling Building/Roof                               |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       | 91.94         | 0             |                  | 54.2<br>9 | 0.1<br>7 | -3            | 0        | 0   | 4.18      | 0 |
|         |                                                       |               |               |                  |           |          |               |          |     |           |   |
| BS 5228 | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr) |               |               |                  |           |          |               |          |     |           |   |
| Element | Label                                                 | LwA,T         |               | Kh               | Ks-<br>Kh | Asc<br>r | K*            | Afa<br>c |     |           |   |
|         |                                                       | /dB(A)        | /m            | /dB              | /dB       | /dB      | /dB           | /dB      | /dB |           |   |
| HAUL002 | 1. HGV parking maneuvering                            | 74.56         |               | 53.0<br>8        |           |          | 10            | 0        |     |           |   |
| HAUL003 | 2. HGV to Recycle Shed                                | 74.67         |               | 52.2<br>9        |           |          | 10            | 0        |     |           |   |
| HAUL004 | 3. HGV/Skip to Shed                                   | 81.42         |               | 52.7<br>6        |           |          | 10            | 0        |     |           |   |
| HAUL005 | 4. Skip Lorry to store site                           | 77.21         |               | 52.7<br>3        |           |          | 10            | 0        |     |           |   |
| HAUL006 | 5. HGV from shed to access road                       | 74.41         |               | 52.2<br>4        |           |          | 10            | 0        |     |           |   |
| HAUL007 | 6. Skip Lorry from store to access road               | 73.09         |               | 52.8<br>2        |           |          | 10            | 0        |     |           |   |
| HAUL008 | 7. Wheeled loader to fixed skips                      | 71.15         |               | 50.4<br>7        |           |          | 10            | 0        |     |           |   |
|         |                                                       |               |               |                  |           |          |               |          |     |           |   |
|         |                                                       |               |               |                  |           |          |               |          |     |           |   |
| IPKT    | IPKT: Name                                            | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |           |          |               |          |     |           |   |
| IPkt080 | 90 Rochdale Road UF1S/E                               | 405147.7      | 422858.1      | 41.0<br>6        |           |          |               |          |     |           |   |

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| ISO 9613-2 | L <sub>T</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |                   |                |                                |                  |                 |                  |                   |                  |                  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|--------------------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|
| Element    | Label                                                                                                                                                                                 | L <sub>w</sub>    | D <sub>c</sub> | A <sub>div</sub>               | A <sub>atm</sub> | A <sub>gr</sub> | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                       | /dB               | /dB            | /dB                            | /dB              | /dB             | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                            | 87.64             | 0              | 54.89                          | 0.09             | -3              | 0                | 0                 | 14.95            | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                            | 83.52             | 0              | 53.82                          | 0.15             | -3              | 0                | 0                 | 3.32             | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                          | 89.92             | 0              | 53.36                          | 0.12             | -3              | 0                | 0                 | 5.04             | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                            | 87.65             | 0              | 53.72                          | 0.13             | -3              | 0                | 0                 | 5.06             | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                            | 82.64             | 0              | 54.91                          | 0.09             | -3              | 0                | 0                 | 10.61            | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                         | 90.9              | 0              | 54.68                          | 0.11             | -3              | 0                | 0                 | 17.67            | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                         | 90.9              | 0              | 54.98                          | 0.12             | -3              | 0                | 0                 | 17.66            | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                               | 91.94             | 0              | 54.38                          | 0.18             | -3              | 0                | 0                 | 3.63             | 0                |
|            |                                                                                                                                                                                       |                   |                |                                |                  |                 |                  |                   |                  |                  |
| BS 5228    | L <sub>aeq</sub> = L <sub>wa,T</sub> - K <sub>h</sub> - K* + A <sub>fac</sub>   K* = max(K <sub>s</sub> -K <sub>h</sub> , A <sub>scr</sub> )                                          |                   |                |                                |                  |                 |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                 | L <sub>wa,T</sub> | K <sub>h</sub> | K <sub>s</sub> -K <sub>h</sub> | A <sub>scr</sub> | K*              | A <sub>fac</sub> |                   |                  |                  |
|            |                                                                                                                                                                                       | /dB(A)            | /m             | /dB                            | /dB              | /dB             | /dB              | /dB               | /dB              |                  |
| HAUL002    | 1. HGV parking maneuvering                                                                                                                                                            | 74.56             | 53.1           |                                |                  | 10              | 0                |                   |                  |                  |
| HAUL003    | 2. HGV to Recycle Shed                                                                                                                                                                | 74.67             | 52.31          |                                |                  | 10              | 0                |                   |                  |                  |
| HAUL004    | 3. HGV/Skip to Shed                                                                                                                                                                   | 81.42             | 52.78          |                                |                  | 10              | 0                |                   |                  |                  |
| HAUL005    | 4. Skip Lorry to store site                                                                                                                                                           | 77.21             | 52.75          |                                |                  | 10              | 0                |                   |                  |                  |
| HAUL006    | 5. HGV from shed to access road                                                                                                                                                       | 74.41             | 52.26          |                                |                  | 10              | 0                |                   |                  |                  |
| HAUL007    | 6. Skip Lorry from store to access road                                                                                                                                               | 73.09             | 52.84          |                                |                  | 10              | 0                |                   |                  |                  |
| HAUL008    | 7. Wheeled loader to fixed skips                                                                                                                                                      | 71.15             | 50.6           |                                |                  | 7.2             | 0                |                   |                  |                  |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

| IPKT       | IPKT: Name                                                                                                                                                                             |        | IPKT: x<br>/m     | IPKT: y<br>/m  | Lr(IP)<br>/dB(A) |                                |                  |                  |                   |                  |                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|----------------|------------------|--------------------------------|------------------|------------------|-------------------|------------------|------------------|
| IPkt085    | 90 Rochdale Road                                                                                                                                                                       | GF S/W | 405143.6          | 422859.6       | 34.54            |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| ISO 9613-2 | L <sub>fT</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                  |        | L <sub>w</sub>    | D <sub>c</sub> | A <sub>div</sub> | A <sub>atm</sub>               | A <sub>gr</sub>  | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                        |        | /dB               | /dB            | /dB              | /dB                            | /dB              | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 87.64             | 0              | 55.15            | 0.11                           | -3               | 0                | 0                 | 22.37            | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 83.52             | 0              | 53.87            | 0.11                           | -3               | 0                | 0                 | 9.8              | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                           |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 89.92             | 0              | 53.58            | 0.06                           | -3               | 0                | 0                 | 18.02            | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 87.65             | 0              | 53.89            | 0.07                           | -3               | 0                | 0                 | 18.59            | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 82.64             | 0              | 55.19            | 0.1                            | -3.05            | 0                | 0                 | 21.72            | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                          |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 90.9              | 0              | 54.9             | 0.14                           | -3.1             | 0                | 0                 | 23.96            | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                          |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 90.9              | 0              | 55.19            | 0.15                           | -3.15            | 0                | 0                 | 23.97            | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                                |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 91.94             | 0              | 54.52            | 0.12                           | -3               | 0                | 0                 | 5.11             | 0                |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| BS 5228    | L <sub>aeq</sub> = L <sub>wa,T</sub> - K <sub>h</sub> - K* + A <sub>fac</sub>   K* = max(K <sub>s</sub> -K <sub>h</sub> , A <sub>scr</sub> )                                           |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                  |        | L <sub>wa,T</sub> |                | K <sub>h</sub>   | K <sub>s</sub> -K <sub>h</sub> | A <sub>scr</sub> | K*               | A <sub>fac</sub>  |                  |                  |
|            |                                                                                                                                                                                        |        | /dB(A)            | /m             | /dB              | /dB                            | /dB              | /dB              | /dB               | /dB              |                  |
| HAUL002    | 1. HGV parking maneuvering                                                                                                                                                             |        | 74.56             |                | 53.29            |                                |                  | 10               | 0                 |                  |                  |
| HAUL003    | 2. HGV to Recycle Shed                                                                                                                                                                 |        | 74.67             |                | 52.52            |                                |                  | 10               | 0                 |                  |                  |
| HAUL004    | 3. HGV/Skip to Shed                                                                                                                                                                    |        | 81.42             |                | 52.97            |                                |                  | 10               | 0                 |                  |                  |
| HAUL005    | 4. Skip Lorry to store site                                                                                                                                                            |        | 77.21             |                | 52.94            |                                |                  | 10               | 0                 |                  |                  |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|         |                                         |       |       |    |   |
|---------|-----------------------------------------|-------|-------|----|---|
| HAUL006 | 5. HGV from shed to access road         | 74.41 | 52.47 | 10 | 0 |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09 | 53.03 | 10 | 0 |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15 | 50.73 | 10 | 0 |

| IPKT    | IPKT: Name              | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|-------------------------|------------|------------|---------------|
| IPkt086 | 90 Rochdale Road UF1S/W | 405143.6   | 422859.6   | 35.74         |

| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |       |     |       |      |     |      |       |       |      |
|------------|----------------------------------------------------------------|-------|-----|-------|------|-----|------|-------|-------|------|
| Element    | Label                                                          | Lw    | Dc  | Adiv  | Aatm | Agr | Afol | Ahous | Abar  | Cmet |
|            |                                                                | /dB   | /dB | /dB   | /dB  | /dB | /dB  | /dB   | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64 | 0   | 55.17 | 0.1  | -3  | 0    | 0     | 21.69 | 0    |
| FLQi034    | Recycling Building/SW wall                                     | 83.52 | 0   | 54.14 | 0.12 | -3  | 0    | 0     | 5.79  | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92 | 0   | 53.61 | 0.06 | -3  | 0    | 0     | 14.92 | 0    |
| FLQi035    | Recycling Building/NW wall                                     | 87.65 | 0   | 53.81 | 0.1  | -3  | 0    | 0     | 7.4   | 0    |
| FLQi036    | Recycling Building/NE wall                                     | 82.64 | 0   | 55.23 | 0.09 | -3  | 0    | 0     | 19.67 | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                  | 90.9  | 0   | 54.92 | 0.13 | -3  | 0    | 0     | 23.25 | 0    |
| FLQi074    | Shed Front Door#2 (Open door)                                  | 90.9  | 0   | 55.21 | 0.13 | -3  | 0    | 0     | 23.25 | 0    |
| FLQi037    | Recycling Building/Roof                                        | 91.94 | 0   | 54.53 | 0.11 | -3  | 0    | 0     | 4.83  | 0    |

|         |                                                       |        |    |      |       |          |     |          |     |
|---------|-------------------------------------------------------|--------|----|------|-------|----------|-----|----------|-----|
| BS 5228 | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr) |        |    |      |       |          |     |          |     |
| Element | Label                                                 | LwA,T  |    | Kh   | Ks-Kh | Asc<br>r | K*  | Afa<br>c |     |
|         |                                                       | /dB(A) | /m | /dB  | /dB   | /dB      | /dB | /dB      | /dB |
| HAUL002 | 1. HGV parking maneuvering                            | 74.56  |    | 53.3 |       |          | 10  | 0        |     |

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|         |                                         |       |       |      |   |
|---------|-----------------------------------------|-------|-------|------|---|
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67 | 52.54 | 10   | 0 |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42 | 52.99 | 10   | 0 |
| HAUL005 | 4. Skip Lorry to store site             | 77.21 | 52.96 | 10   | 0 |
| HAUL006 | 5. HGV from shed to access road         | 74.41 | 52.49 | 10   | 0 |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09 | 53.05 | 10   | 0 |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15 | 50.85 | 7.19 | 0 |

| IPKT    | IPKT: Name              | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|-------------------------|------------|------------|---------------|
| IPkt097 | 44 Rochdale Road GF S/W | 405315.4   | 422952.4   | 42.8          |

| ISO 9613-2 | L <sub>fT</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |                |                |                  |                  |                 |                  |                   |                  |                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|
| Element    | Label                                                                                                                                                                                  | L <sub>w</sub> | D <sub>c</sub> | A <sub>div</sub> | A <sub>atm</sub> | A <sub>gr</sub> | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                        | /dB            | /dB            | /dB              | /dB              | /dB             | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                             | 87.64          | 0              | 55.52            | 0.09             | -3              | 0                | 0                 | 13.78            | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                             | 83.52          | 0              | 56.09            | 0.12             | -3.13           | 0                | 0                 | 11.29            | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                           | 89.92          | 0              | 55.96            | 0.09             | -3.23           | 0                | 0                 | 9.84             | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                             | 87.65          | 0              | 55               | 0.17             | -3              | 0                | 0                 | 1.97             | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                             | 82.64          | 0              | 54.34            | 0.16             | -3.02           | 0                | 0                 | 1.92             | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                          | 90.9           | 0              | 54               | 0.25             | -3              | 0                | 0                 | 3.84             | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                          | 90.9           | 0              | 54.28            | 0.26             | -3.01           | 0                | 0                 | 3.61             | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                                |                |                |                  |                  |                 |                  |                   |                  |                  |

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|  |  |       |   |  |       |      |    |   |   |      |   |
|--|--|-------|---|--|-------|------|----|---|---|------|---|
|  |  | 91.94 | 0 |  | 55.19 | 0.16 | -3 | 0 | 0 | 4.69 | 0 |
|--|--|-------|---|--|-------|------|----|---|---|------|---|

BS 5228 Laeq = Lwa,T - Kh - K\* + Afac | K\* = max(Ks-Kh, Ascr)

| Element | Label                                   | Lwa,T     | Kh    | Ks-Kh | Asc | K*   | Afac |     |
|---------|-----------------------------------------|-----------|-------|-------|-----|------|------|-----|
|         |                                         | /dB(A) /m | /dB   | /dB   | /dB | /dB  | /dB  | /dB |
| HAUL002 | 1. HGV parking maneuvering              | 74.56     | 49.82 |       |     | 10   | 0    |     |
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67     | 50.59 |       |     | 5.75 | 0    |     |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42     | 50.99 |       |     | 2.93 | 0    |     |
| HAUL005 | 4. Skip Lorry to store site             | 77.21     | 51.27 |       |     | 2.83 | 0    |     |
| HAUL006 | 5. HGV from shed to access road         | 74.41     | 50.3  |       |     | 5    | 0    |     |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09     | 50.8  |       |     | 3.46 | 0    |     |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15     | 53.94 |       |     | 2.53 | 0    |     |

| IPKT    | IPKT: Name              | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|-------------------------|------------|------------|---------------|
| IPkt098 | 44 Rochdale Road UF1S/W | 405315.4   | 422952.4   | 44.21         |

| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |       |     |       |      |     |      |       |       |      |
|------------|----------------------------------------------------------------|-------|-----|-------|------|-----|------|-------|-------|------|
| Element    | Label                                                          | Lw    | Dc  | Adiv  | Aatm | Agr | Afol | Ahous | Abar  | Cmet |
|            |                                                                | /dB   | /dB | /dB   | /dB  | /dB | /dB  | /dB   | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64 | 0   | 55.52 | 0.09 | -3  | 0    | 0     | 13.74 | 0    |
| FLQi034    | Recycling Building/SW wall                                     | 83.52 | 0   | 56.09 | 0.12 | -3  | 0    | 0     | 11    | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92 | 0   | 55.97 | 0.09 | -3  | 0    | 0     | 9.77  | 0    |
| FLQi035    | Recycling Building/NW wall                                     | 87.65 | 0   | 54.88 | 0.15 | -3  | 0    | 0     | 0.06  | 0    |
| FLQi036    | Recycling Building/NE wall                                     | 82.64 | 0   | 54.37 | 0.14 | -3  | 0    | 0     | 0.02  | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                  |       |     |       |      |     |      |       |       |      |

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|            |                                                                |               |               |                  |           |               |          |           |           |          |   |
|------------|----------------------------------------------------------------|---------------|---------------|------------------|-----------|---------------|----------|-----------|-----------|----------|---|
|            |                                                                | 90.9          | 0             |                  | 54.0<br>1 | 0.1<br>7      | -3       | 0         | 0         | 0.14     | 0 |
| FLQi074    | Shed Front Door#2 (Open door)                                  |               |               |                  |           |               |          |           |           |          |   |
|            |                                                                | 90.9          | 0             |                  | 54.2<br>9 | 0.1<br>7      | -3       | 0         | 0         | 0.09     | 0 |
| FLQi037    | Recycling Building/Roof                                        |               |               |                  |           |               |          |           |           |          |   |
|            |                                                                | 91.94         | 0             |                  | 55.2<br>7 | 0.1<br>7      | -3       | 0         | 0         | 4.47     | 0 |
|            |                                                                |               |               |                  |           |               |          |           |           |          |   |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |               |               |                  |           |               |          |           |           |          |   |
| Element    | Label                                                          | LwA,T         |               | Kh               | Ks-Kh     | Asc<br>r      | K*       | Afa<br>c  |           |          |   |
|            |                                                                | /dB(A)        | /m            | /dB              | /dB       | /dB           | /dB      | /dB       | /dB       |          |   |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56         |               | 49.8<br>5        |           |               | 10       | 0         |           |          |   |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67         |               | 50.6<br>5        |           |               | 1.0<br>1 | 0         |           |          |   |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42         |               | 51.0<br>4        |           |               | 1.9<br>8 | 0         |           |          |   |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21         |               | 51.3<br>3        |           |               | 0.5<br>5 | 0         |           |          |   |
| HAUL006    | 5. HGV from shed to access road                                | 74.41         |               | 50.5<br>3        |           |               | 1.3<br>2 | 0         |           |          |   |
| HAUL007    | 6. Skip Lorry from store to access road                        | 73.09         |               | 50.7<br>7        |           |               | 2.0<br>9 | 0         |           |          |   |
| HAUL008    | 7. Wheeled loader to fixed skips                               | 71.15         |               | 53.8             |           |               | 0.5<br>9 | 0         |           |          |   |
|            |                                                                |               |               |                  |           |               |          |           |           |          |   |
| IPKT       | IPKT: Name                                                     | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |           |               |          |           |           |          |   |
| IPkt111    | 44 Rochdale Road GF S/E                                        | 405323        | 422953.<br>9  | 43.6<br>6        |           |               |          |           |           |          |   |
|            |                                                                |               |               |                  |           |               |          |           |           |          |   |
|            |                                                                |               |               |                  |           |               |          |           |           |          |   |
| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |               |               |                  |           |               |          |           |           |          |   |
| Element    | Label                                                          | Lw            | Dc            | Adiv             | Aat<br>m  | Agr           | Afo<br>l | Aho<br>us | Aba<br>r  | Cm<br>et |   |
|            |                                                                | /dB           | /dB           | /dB              | /dB       | /dB           | /dB      | /dB       | /dB       | /dB      |   |
| FLQi033    | Recycling Building/SE wall                                     |               |               |                  |           |               |          |           |           |          |   |
|            |                                                                | 87.64         | 0             | 55.6<br>7        | 0.0<br>9  | -3            | 0        | 0         | 13.5<br>6 | 0        |   |
| FLQi034    | Recycling Building/SW wall                                     |               |               |                  |           |               |          |           |           |          |   |
|            |                                                                | 83.52         | 0             | 56.2<br>9        | 0.1<br>2  | -<br>3.1<br>5 | 0        | 0         | 11.5<br>2 | 0        |   |
| FLQi072    | Shed Door#3_Rear (Open door)                                   |               |               |                  |           |               |          |           |           |          |   |
|            |                                                                | 89.92         | 0             | 56.1<br>6        | 0.0<br>9  | -<br>3.2<br>6 | 0        | 0         | 10.0<br>2 | 0        |   |

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|            |                                                                |         |          |        |       |     |      |     |      |      |   |
|------------|----------------------------------------------------------------|---------|----------|--------|-------|-----|------|-----|------|------|---|
| FLQi035    | Recycling Building/NW wall                                     |         |          |        |       |     |      |     |      |      |   |
|            |                                                                | 87.65   | 0        |        | 55.1  | 0.1 | -3   | 0   | 0    | 1.96 | 0 |
|            |                                                                |         |          |        | 2     | 9   |      |     |      |      |   |
| FLQi036    | Recycling Building/NE wall                                     |         |          |        |       |     |      |     |      |      |   |
|            |                                                                | 82.64   | 0        |        | 54.5  | 0.1 | -    | 0   | 0    | 1.18 | 0 |
|            |                                                                |         |          |        | 1     | 6   | 3.0  |     |      |      |   |
|            |                                                                |         |          |        |       |     | 3    |     |      |      |   |
| FLQi073    | Shed Front Door#1 (Open door)                                  |         |          |        |       |     |      |     |      |      |   |
|            |                                                                | 90.9    | 0        |        | 54.1  | 0.2 | -3   | 0   | 0    | 2.33 | 0 |
|            |                                                                |         |          |        | 8     | 4   |      |     |      |      |   |
| FLQi074    | Shed Front Door#2 (Open door)                                  |         |          |        |       |     |      |     |      |      |   |
|            |                                                                | 90.9    | 0        |        | 54.4  | 0.2 | -    | 0   | 0    | 2.12 | 0 |
|            |                                                                |         |          |        | 4     | 4   | 3.0  |     |      |      |   |
|            |                                                                |         |          |        |       |     | 4    |     |      |      |   |
| FLQi037    | Recycling Building/Roof                                        |         |          |        |       |     |      |     |      |      |   |
|            |                                                                | 91.94   | 0        |        | 55.3  | 0.1 | -3   | 0   | 0    | 4.69 | 0 |
|            |                                                                |         |          |        | 7     | 6   |      |     |      |      |   |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |         |          |        |       |     |      |     |      |      |   |
| Element    | Label                                                          | LwA,T   |          | Kh     | Ks-Kh | Asc | K*   | Afa |      |      |   |
|            |                                                                | /dB(A)  | /m       | /dB    | /dB   | /dB | /dB  | /dB | /dB  |      |   |
| HAUL002    | 1. HGV parking maneuvering                                     | 74.56   |          | 49.9   |       |     | 10   | 0   |      |      |   |
|            |                                                                |         |          | 1      |       |     |      |     |      |      |   |
| HAUL003    | 2. HGV to Recycle Shed                                         | 74.67   |          | 50.8   |       |     | 1.2  | 0   |      |      |   |
|            |                                                                |         |          |        |       |     | 6    |     |      |      |   |
| HAUL004    | 3. HGV/Skip to Shed                                            | 81.42   |          | 51.1   |       |     | 2.1  | 0   |      |      |   |
|            |                                                                |         |          | 4      |       |     | 3    |     |      |      |   |
| HAUL005    | 4. Skip Lorry to store site                                    | 77.21   |          | 51.3   |       |     | 1.5  | 0   |      |      |   |
|            |                                                                |         |          | 8      |       |     | 3    |     |      |      |   |
| HAUL006    | 5. HGV from shed to access road                                | 74.41   |          | 50.6   |       |     | 1.3  | 0   |      |      |   |
|            |                                                                |         |          | 6      |       |     | 2    |     |      |      |   |
| HAUL007    | 6. Skip Lorry from store to access road                        | 73.09   |          | 50.6   |       |     | 6.6  | 0   |      |      |   |
|            |                                                                |         |          | 3      |       |     | 2    |     |      |      |   |
| HAUL008    | 7. Wheeled loader to fixed skips                               | 71.15   |          | 53.8   |       |     | 1.3  | 0   |      |      |   |
|            |                                                                |         |          | 9      |       |     | 9    |     |      |      |   |
|            |                                                                |         |          |        |       |     |      |     |      |      |   |
|            |                                                                |         |          |        |       |     |      |     |      |      |   |
| IPKT       | IPKT: Name                                                     | IPKT: x | IPKT: y  | Lr(IP) |       |     |      |     |      |      |   |
|            |                                                                | /m      | /m       | /dB(A) |       |     |      |     |      |      |   |
| IPkt112    | 44 Rochdale Road UF1S/E                                        | 405323  | 422953.9 | 44.0   |       |     |      |     |      |      |   |
|            |                                                                |         |          | 4      |       |     |      |     |      |      |   |
|            |                                                                |         |          |        |       |     |      |     |      |      |   |
|            |                                                                |         |          |        |       |     |      |     |      |      |   |
| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |         |          |        |       |     |      |     |      |      |   |
| Element    | Label                                                          | Lw      | Dc       | Adiv   | Aatm  | Agr | Afol | Aho | Abar | Cmet |   |
|            |                                                                | /dB     | /dB      | /dB    | /dB   | /dB | /dB  | /dB | /dB  | /dB  |   |
| FLQi033    | Recycling Building/SE wall                                     |         |          |        |       |     |      |     |      |      |   |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|         |                                                       |               |               |                  |       |          |     |          |     |      |   |
|---------|-------------------------------------------------------|---------------|---------------|------------------|-------|----------|-----|----------|-----|------|---|
|         |                                                       | 87.64         | 0             |                  | 55.6  | 0.0      | -3  | 0        | 0   | 13.5 | 0 |
|         |                                                       |               |               |                  | 7     | 9        |     |          |     | 3    |   |
| FLQi034 | Recycling Building/SW wall                            |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 83.52         | 0             |                  | 56.2  | 0.1      | -3  | 0        | 0   | 11.0 | 0 |
|         |                                                       |               |               |                  | 8     | 2        |     |          |     | 8    |   |
| FLQi072 | Shed Door#3_Rear (Open door)                          |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 89.92         | 0             |                  | 56.1  | 0.0      | -3  | 0        | 0   | 9.95 | 0 |
|         |                                                       |               |               |                  | 7     | 9        |     |          |     |      |   |
| FLQi035 | Recycling Building/NW wall                            |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 87.65         | 0             |                  | 55.0  | 0.1      | -3  | 0        | 0   | 0    | 0 |
|         |                                                       |               |               |                  | 8     | 5        |     |          |     |      |   |
| FLQi036 | Recycling Building/NE wall                            |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 82.64         | 0             |                  | 54.5  | 0.1      | -3  | 0        | 0   | 0    | 0 |
|         |                                                       |               |               |                  | 2     | 4        |     |          |     |      |   |
| FLQi073 | Shed Front Door#1 (Open door)                         |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 90.9          | 0             |                  | 54.1  | 0.1      | -3  | 0        | 0   | 0    | 0 |
|         |                                                       |               |               |                  | 9     | 6        |     |          |     |      |   |
| FLQi074 | Shed Front Door#2 (Open door)                         |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 90.9          | 0             |                  | 54.4  | 0.1      | -3  | 0        | 0   | 0    | 0 |
|         |                                                       |               |               |                  | 5     | 7        |     |          |     |      |   |
| FLQi037 | Recycling Building/Roof                               |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       | 91.94         | 0             |                  | 55.3  | 0.1      | -3  | 0        | 0   | 4.47 | 0 |
|         |                                                       |               |               |                  | 8     | 7        |     |          |     |      |   |
|         |                                                       |               |               |                  |       |          |     |          |     |      |   |
| BS 5228 | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr) |               |               |                  |       |          |     |          |     |      |   |
| Element | Label                                                 | LwA,T         |               | Kh               | Ks-Kh | Asc<br>r | K*  | Afa<br>c |     |      |   |
|         |                                                       | /dB(A)        | /m            | /dB              | /dB   | /dB      | /dB | /dB      | /dB |      |   |
| HAUL002 | 1. HGV parking maneuvering                            | 74.56         |               | 50               |       |          | 9.4 | 0        |     |      |   |
|         |                                                       |               |               |                  |       |          | 4   |          |     |      |   |
| HAUL003 | 2. HGV to Recycle Shed                                | 74.67         |               | 50.8             |       |          | 1.2 | 0        |     |      |   |
|         |                                                       |               |               | 2                |       |          | 6   |          |     |      |   |
| HAUL004 | 3. HGV/Skip to Shed                                   | 81.42         |               | 51.1             |       |          | 1.5 | 0        |     |      |   |
|         |                                                       |               |               | 6                |       |          | 9   |          |     |      |   |
| HAUL005 | 4. Skip Lorry to store site                           | 77.21         |               | 51.4             |       |          | 0.5 | 0        |     |      |   |
|         |                                                       |               |               | 5                |       |          | 5   |          |     |      |   |
| HAUL006 | 5. HGV from shed to access road                       | 74.41         |               | 50.6             |       |          | 1.3 | 0        |     |      |   |
|         |                                                       |               |               | 8                |       |          | 2   |          |     |      |   |
| HAUL007 | 6. Skip Lorry from store to access road               | 73.09         |               | 50.9             |       |          | 2.4 | 0        |     |      |   |
|         |                                                       |               |               | 7                |       |          | 9   |          |     |      |   |
| HAUL008 | 7. Wheeled loader to fixed skips                      | 71.15         |               | 53.9             |       |          | 1.3 | 0        |     |      |   |
|         |                                                       |               |               |                  |       |          | 9   |          |     |      |   |
|         |                                                       |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       |               |               |                  |       |          |     |          |     |      |   |
| IPKT    | IPKT: Name                                            | IPKT: x<br>/m | IPKT: y<br>/m | Lr(IP)<br>/dB(A) |       |          |     |          |     |      |   |
| IPkt113 | 28 Rochdale Road GF S/W                               | 405357.2      | 422976.8      | 40.63            |       |          |     |          |     |      |   |
|         |                                                       |               |               |                  |       |          |     |          |     |      |   |
|         |                                                       |               |               |                  |       |          |     |          |     |      |   |

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ISO 9613-2 LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet

| Element | Label                         | Lw    | Dc  | Adiv  | Aatm | Agr   | Afol | Ahous | Abar  | Cmet |
|---------|-------------------------------|-------|-----|-------|------|-------|------|-------|-------|------|
|         |                               | /dB   | /dB | /dB   | /dB  | /dB   | /dB  | /dB   | /dB   | /dB  |
| FLQi033 | Recycling Building/SE wall    | 87.64 | 0   | 57.14 | 0.1  | -3.13 | 0    | 0     | 13.34 | 0    |
| FLQi034 | Recycling Building/SW wall    | 83.52 | 0   | 57.78 | 0.14 | -3.25 | 0    | 0     | 12.61 | 0    |
| FLQi072 | Shed Door#3_Rear (Open door)  | 89.92 | 0   | 57.7  | 0.1  | -3.42 | 0    | 0     | 10.67 | 0    |
| FLQi035 | Recycling Building/NW wall    | 87.65 | 0   | 56.84 | 0.22 | -3    | 0    | 0     | 2.86  | 0    |
| FLQi036 | Recycling Building/NE wall    | 82.64 | 0   | 56.13 | 0.2  | -3.09 | 0    | 0     | 1.95  | 0    |
| FLQi073 | Shed Front Door#1 (Open door) | 90.9  | 0   | 55.91 | 0.24 | -3.19 | 0    | 0     | 3.1   | 0    |
| FLQi074 | Shed Front Door#2 (Open door) | 90.9  | 0   | 56.08 | 0.27 | -3.21 | 0    | 0     | 3.02  | 0    |
| FLQi037 | Recycling Building/Roof       | 91.94 | 0   | 56.95 | 0.18 | -3    | 0    | 0     | 4.76  | 0    |

BS 5228 Laeq = Lwa,T - Kh - K\* + Afac | K\* = max(Ks-Kh, Ascr)

| Element | Label                                   | Lwa,T  | Kh    | Ks-Kh | Ascr | K*   | Afac |
|---------|-----------------------------------------|--------|-------|-------|------|------|------|
|         |                                         | /dB(A) | /m    | /dB   | /dB  | /dB  | /dB  |
| HAUL002 | 1. HGV parking maneuvering              | 74.56  | 51.56 |       |      | 10   | 0    |
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67  | 52.37 |       |      | 10   | 0    |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42  | 52.68 |       |      | 9.38 | 0    |
| HAUL005 | 4. Skip Lorry to store site             | 77.21  | 52.97 |       |      | 8.02 | 0    |
| HAUL006 | 5. HGV from shed to access road         | 74.41  | 52.43 |       |      | 8.2  | 0    |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09  | 52.27 |       |      | 10   | 0    |

## CALDER VALLEY SKIP HIRE – ENVIRONMENTAL STATEMENT ADDENDUM

|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|----------------|------------------|--------------------------------|------------------|------------------|-------------------|------------------|------------------|
| HAUL008    | 7. Wheeled loader to fixed skips                                                                                                                                                       |        | 71.15             |                | 55.27            |                                | 7.37             | 0                |                   |                  |                  |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| IPKT       | IPKT: Name                                                                                                                                                                             |        | IPKT: x /m        | IPKT: y /m     | Lr(IP) /dB(A)    |                                |                  |                  |                   |                  |                  |
| IPkt114    | 28 Rochdale Road                                                                                                                                                                       | UF1S/W | 405357.2          | 422976.8       | 41.72            |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| ISO 9613-2 | L <sub>fT</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                  |        | L <sub>w</sub>    | D <sub>c</sub> | A <sub>div</sub> | A <sub>atm</sub>               | A <sub>gr</sub>  | A <sub>fol</sub> | A <sub>hous</sub> | A <sub>bar</sub> | C <sub>met</sub> |
|            |                                                                                                                                                                                        |        | /dB               | /dB            | /dB              | /dB                            | /dB              | /dB              | /dB               | /dB              | /dB              |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 87.64             | 0              | 57.15            | 0.11                           | -3               | 0                | 0                 | 12.52            | 0                |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 83.52             | 0              | 57.78            | 0.14                           | -3               | 0                | 0                 | 11.39            | 0                |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                           |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 89.92             | 0              | 57.71            | 0.11                           | -3               | 0                | 0                 | 10.40            | 0                |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 87.65             | 0              | 56.82            | 0.21                           | -3               | 0                | 0                 | 1.21             | 0                |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                             |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 82.64             | 0              | 56.14            | 0.18                           | -3               | 0                | 0                 | 0.69             | 0                |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                          |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 90.9              | 0              | 55.92            | 0.28                           | -3               | 0                | 0                 | 2.18             | 0                |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                          |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 90.9              | 0              | 56.09            | 0.28                           | -3               | 0                | 0                 | 2.26             | 0                |
| FLQi037    | Recycling Building/Roof                                                                                                                                                                |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
|            |                                                                                                                                                                                        |        | 91.94             | 0              | 56.96            | 0.19                           | -3               | 0                | 0                 | 4.65             | 0                |
|            |                                                                                                                                                                                        |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| BS 5228    | L <sub>aeq</sub> = L <sub>wa,T</sub> - K <sub>h</sub> - K* + A <sub>fac</sub>   K* = max(K <sub>s</sub> -K <sub>h</sub> , A <sub>scr</sub> )                                           |        |                   |                |                  |                                |                  |                  |                   |                  |                  |
| Element    | Label                                                                                                                                                                                  |        | L <sub>wA,T</sub> |                | K <sub>h</sub>   | K <sub>s</sub> -K <sub>h</sub> | A <sub>scr</sub> | K*               | A <sub>fac</sub>  |                  |                  |
|            |                                                                                                                                                                                        |        | /dB(A)            | /m             | /dB              | /dB                            | /dB              | /dB              | /dB               | /dB              |                  |
| HAUL002    | 1. HGV parking maneuvering                                                                                                                                                             |        | 74.56             |                | 51.58            |                                |                  | 10               | 0                 |                  |                  |
| HAUL003    | 2. HGV to Recycle Shed                                                                                                                                                                 |        | 74.67             |                | 52.53            |                                |                  | 6.77             | 0                 |                  |                  |
| HAUL004    | 3. HGV/Skip to Shed                                                                                                                                                                    |        | 81.42             |                | 52.69            |                                |                  | 5.53             | 0                 |                  |                  |

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|         |                                         |       |       |      |   |
|---------|-----------------------------------------|-------|-------|------|---|
| HAUL005 | 4. Skip Lorry to store site             | 77.21 | 52.95 | 5    | 0 |
| HAUL006 | 5. HGV from shed to access road         | 74.41 | 52.41 | 6.29 | 0 |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09 | 52.5  | 7.21 | 0 |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15 | 55.2  | 4.74 | 0 |

| IPKT    | IPKT: Name              | IPKT: x /m | IPKT: y /m | Lr(IP) /dB(A) |
|---------|-------------------------|------------|------------|---------------|
| IPkt121 | 28 Rochdale Road GF S/E | 405363.5   | 422974.7   | 39.53         |

| ISO 9613-2 | LfT = Lw + Dc - Adiv - Aatm - Agr - Afol - Ahous - Abar - Cmet |       |     |       |      |       |      |       |       |      |
|------------|----------------------------------------------------------------|-------|-----|-------|------|-------|------|-------|-------|------|
| Element    | Label                                                          | Lw    | Dc  | Adiv  | Aatm | Agr   | Afol | Ahous | Abar  | Cmet |
|            |                                                                | /dB   | /dB | /dB   | /dB  | /dB   | /dB  | /dB   | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                     | 87.64 | 0   | 56.99 | 0.1  | -3.02 | 0    | 0     | 14.64 | 0    |
| FLQi034    | Recycling Building/SW wall                                     | 83.52 | 0   | 57.85 | 0.15 | -3.1  | 0    | 0     | 18.38 | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                   | 89.92 | 0   | 57.74 | 0.15 | -3.47 | 0    | 0     | 22.72 | 0    |
| FLQi035    | Recycling Building/NW wall                                     | 87.65 | 0   | 56.79 | 0.17 | -3    | 0    | 0     | 4.92  | 0    |
| FLQi036    | Recycling Building/NE wall                                     | 82.64 | 0   | 56.15 | 0.16 | -3.07 | 0    | 0     | 1.13  | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                  | 90.9  | 0   | 55.92 | 0.17 | -3.26 | 0    | 0     | 5.05  | 0    |
| FLQi074    | Shed Front Door#2 (Open door)                                  | 90.9  | 0   | 56.08 | 0.18 | -3.3  | 0    | 0     | 4.95  | 0    |
| FLQi037    | Recycling Building/Roof                                        | 93.39 | 0   | 57.17 | 0.17 | -3    | 0    | 0     | 1.65  | 0    |
| BS 5228    | Laeq = Lwa,T - Kh - K* + Afac   K* = max(Ks-Kh, Ascr)          |       |     |       |      |       |      |       |       |      |

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| Element | Label                                   | LwA,T  |    | Kh    | Ks-Kh | Asc | K*  | Afa |     |
|---------|-----------------------------------------|--------|----|-------|-------|-----|-----|-----|-----|
|         |                                         | /dB(A) | /m | /dB   | /dB   | /dB | /dB | /dB | /dB |
| HAUL002 | 1. HGV parking maneuvering              | 74.56  |    | 51.52 |       |     | 10  | 0   |     |
| HAUL003 | 2. HGV to Recycle Shed                  | 74.67  |    | 52.36 |       |     | 10  | 0   |     |
| HAUL004 | 3. HGV/Skip to Shed                     | 81.42  |    | 52.59 |       |     | 10  | 0   |     |
| HAUL005 | 4. Skip Lorry to store site             | 77.21  |    | 52.91 |       |     | 10  | 0   |     |
| HAUL006 | 5. HGV from shed to access road         | 74.41  |    | 52.21 |       |     | 10  | 0   |     |
| HAUL007 | 6. Skip Lorry from store to access road | 73.09  |    | 52.24 |       |     | 10  | 0   |     |
| HAUL008 | 7. Wheeled loader to fixed skips        | 71.15  |    | 55.36 |       |     | 10  | 0   |     |

| IPKT    | IPKT: Name       |        | IPKT: x  | IPKT: y  | Lr(IP) |
|---------|------------------|--------|----------|----------|--------|
|         |                  |        | /m       | /m       | /dB(A) |
| IPkt122 | 28 Rochdale Road | UF1S/E | 405363.5 | 422974.7 | 40.48  |

| ISO 9613-2 | L <sub>T</sub> = L <sub>w</sub> + D <sub>c</sub> - A <sub>div</sub> - A <sub>atm</sub> - A <sub>gr</sub> - A <sub>fol</sub> - A <sub>hous</sub> - A <sub>bar</sub> - C <sub>met</sub> |       |     |       |      |     |      |       |       |      |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-------|------|-----|------|-------|-------|------|
| Element    | Label                                                                                                                                                                                 | Lw    | Dc  | Adiv  | Aatm | Agr | Afol | Ahous | Abar  | Cmet |
|            |                                                                                                                                                                                       | /dB   | /dB | /dB   | /dB  | /dB | /dB  | /dB   | /dB   | /dB  |
| FLQi033    | Recycling Building/SE wall                                                                                                                                                            | 87.64 | 0   | 57.15 | 0.11 | -3  | 0    | 0     | 12.28 | 0    |
| FLQi034    | Recycling Building/SW wall                                                                                                                                                            | 83.52 | 0   | 57.82 | 0.14 | -3  | 0    | 0     | 11.44 | 0    |
| FLQi072    | Shed Door#3_Rear (Open door)                                                                                                                                                          | 89.92 | 0   | 57.74 | 0.11 | -3  | 0    | 0     | 10.54 | 0    |
| FLQi035    | Recycling Building/NW wall                                                                                                                                                            | 87.65 | 0   | 56.91 | 0.21 | -3  | 0    | 0     | 1.79  | 0    |
| FLQi036    | Recycling Building/NE wall                                                                                                                                                            | 82.64 | 0   | 56.14 | 0.17 | -3  | 0    | 0     | 0.87  | 0    |
| FLQi073    | Shed Front Door#1 (Open door)                                                                                                                                                         | 90.9  | 0   | 55.93 | 0.29 | -3  | 0    | 0     | 3.7   | 0    |
| FLQi074    | Shed Front Door#2 (Open door)                                                                                                                                                         | 90.9  | 0   | 56.09 | 0.28 | -3  | 0    | 0     | 3.71  | 0    |
| FLQi037    | Recycling Building/Roof                                                                                                                                                               |       |     |       |      |     |      |       |       |      |

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|                                                                                       |                                         | 91.94      | 0  |       | 56.9        | 0.1       | -3    | 0         | 0   | 4.75 | 0   |
|---------------------------------------------------------------------------------------|-----------------------------------------|------------|----|-------|-------------|-----------|-------|-----------|-----|------|-----|
|                                                                                       |                                         |            |    |       | 8           | 8         |       |           |     |      |     |
| BS 5228 $L_{aeq} = L_{wa,T} - K_h - K^* + A_{fac}$   $K^* = \max(K_s - K_h, A_{scr})$ |                                         |            |    |       |             |           |       |           |     |      |     |
| Element                                                                               | Label                                   | $L_{wa,T}$ |    | $K_h$ | $K_s - K_h$ | $A_{scr}$ | $K^*$ | $A_{fac}$ |     |      |     |
|                                                                                       |                                         | /dB(A)     | /m | /dB   | /dB         | /dB       | /dB   | /dB       | /dB | /dB  | /dB |
| HAUL002                                                                               | 1. HGV parking maneuvering              | 74.56      |    | 51.53 |             |           | 10    | 0         |     |      |     |
| HAUL003                                                                               | 2. HGV to Recycle Shed                  | 74.67      |    | 52.37 |             |           | 10    | 0         |     |      |     |
| HAUL004                                                                               | 3. HGV/Skip to Shed                     | 81.42      |    | 52.67 |             |           | 9.38  | 0         |     |      |     |
| HAUL005                                                                               | 4. Skip Lorry to store site             | 77.21      |    | 52.96 |             |           | 7.35  | 0         |     |      |     |
| HAUL006                                                                               | 5. HGV from shed to access road         | 74.41      |    | 52.22 |             |           | 10    | 0         |     |      |     |
| HAUL007                                                                               | 6. Skip Lorry from store to access road | 73.09      |    | 52.47 |             |           | 7.55  | 0         |     |      |     |
| HAUL008                                                                               | 7. Wheeled loader to fixed skips        | 71.15      |    | 55.32 |             |           | 7.48  | 0         |     |      |     |