

Incinerator Summary Report - August 2016

| Day                       |                     |               | 1       | 2      | 3       | 4       | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13     | 14     | 15     | 16     | 17      |
|---------------------------|---------------------|---------------|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Running time              | Residue             | h             | 24      | 24     | 24      | 24      | 21.5   | 15.5   | 5.5    | 14.5   | 10     | 9.5    | 10.5   | 7.5    | 2.5    | 0      | 7.5    | 16.5   | 24      |
|                           | Gas                 | h             | 0       | 0      | 0       | 0       | 2.5    | 9.5    | 19     | 11     | 15.5   | 14     | 15     | 15     | 8.5    | 5      | 16     | 7      | 0       |
|                           | Residue & gas       | h             | 0       | 0      | 0       | 0       | 0      | 1.5    | 0.5    | 1.5    | 1.5    | 1      | 1.5    | 1      | 1      | 0      | 0.5    | 0      | 0       |
|                           | Idle                | h             | 0       | 0      | 0       | 0       | 0      | 0.5    | 0      | 0      | 0      | 1.5    | 0      | 2.5    | 14     | 19     | 1      | 0.5    | 0       |
| Total flow                | Residue             | kg            | 13204.2 | 13201  | 13315.2 | 14193.7 | 12451  | 6723.8 | 1570.5 | 4679   | 2941.8 | 3870.7 | 3839   | 2991.8 | 455.2  | 0      | 2913.3 | 6815.5 | 11056.8 |
|                           | Gas                 | m3            | 0       | 0      | 0       | 0       | 393.3  | 1298.5 | 2803.5 | 1543.8 | 2195.2 | 2054.7 | 2082.7 | 2033.2 | 1058.5 | 674.2  | 2179.3 | 978.5  | 0       |
|                           | Air                 | m3            | 172328  | 171596 | 180838  | 190770  | 183203 | 141811 | 121017 | 110088 | 111578 | 123725 | 122639 | 131721 | 209953 | 194706 | 156345 | 119452 | 122796  |
| NOx (normalised)          | Min                 | mg/m3         |         | 122    | 214.3   | 154.3   | 100.3  | 98     | 222    | 118    | 58     | 63.7   | 34     | 68     | 24.3   |        | 166    | 92.7   | 106     |
|                           | Ave                 | mg/m3         |         | 159.5  | 271.8   | 291.7   | 213.7  | 286.3  | 670.8  | 350.2  | 533.2  | 462.4  | 401.3  | 378    | 372.6  |        | 576.2  | 135.3  | 121     |
|                           | Max                 | mg/m3         |         | 221.3  | 412.7   | 467.3   | 507    | 809.7  | 1005   | 982.3  | 981.3  | 999.3  | 893.3  | 903.7  | 566    |        | 1130   | 523.3  | 132.7   |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N       | N      | N       | N       | N      | Y      | N      | Y      | Y      | Y      | N      | N      |        | Y      | N      | N      |         |
| CO (normalised)           | Min                 | mg/m3         |         | -9.5   | -9.6    | -10     | -10    | -9.8   | -8.3   | -8.4   | -8.9   | -8.6   | -8.5   | -8.4   | -7.4   |        | -8.2   | -8.1   | -8.6    |
|                           | Ave                 | mg/m3         |         | -9.4   | -9.4    | -9.7    | -9.6   | -8.7   | -6.3   | -7.7   | -6.7   | -7.7   | -7.3   | -6.9   | -5.2   |        | -7.5   | -7.6   | -7.7    |
|                           | Max                 | mg/m3         |         | 0      | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.1    | 0      |        | 0      | 0      | 0       |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] |         | 0      | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |        | 0      | 0      | 0       |
|                           | Exceeds daily ELV ? | [ 50 mg/m3 ]  | N       | N      | N       | N       | N      | N      | N      | N      | N      | N      | N      | N      |        | N      | N      | N      |         |
| Particulates (normalised) | Min                 | mg/m3         |         | 0.4    | 0.5     | 0.5     | 0.3    | 0.4    | 0.2    | 0.4    | 0.3    | 0.3    | 0.2    | 0.2    | 3.8    |        | 11.3   | 7.2    | 11.3    |
|                           | Ave                 | mg/m3         |         | 0.6    | 0.5     | 0.5     | 0.5    | 0.5    | 0.4    | 0.5    | 0.4    | 0.5    | 0.4    | 1      | 8.5    |        | 11.3   | 11.2   | 11.3    |
|                           | Max                 | mg/m3         |         | 0.6    | 0.6     | 0.6     | 0.6    | 0.7    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 9      | 11.3   |        | 11.3   | 11.3   | 11.3    |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  |         | 0      | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |        | 0      | 0      | 0       |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N       | N      | N       | N       | N      | N      | N      | N      | N      | N      | N      | N      |        | Y      | Y      | Y      |         |
| VOC (normalised)          | Min                 | mg/m3         |         | 0      | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0.5    | 0.9    | 2.5    |        | 1.2    | 0.9    | 0       |
|                           | Ave                 | mg/m3         |         | 0      | 0       | 0       | 0.1    | 0      | 0      | 0      | 0      | 1      | 1.6    | 3.2    | 6      |        | 1.6    | 1.4    | 0.4     |
|                           | Max                 | mg/m3         |         | 0      | 0       | 0.3     | 1      | 0      | 0      | 0      | 0      | 3.9    | 4.2    | 6.7    | 11.4   |        | 2.4    | 3.9    | 0.9     |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  |         | 0      | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |        | 0      | 0      | 0       |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N       | N      | N       | N       | N      | N      | N      | N      | N      | N      | N      | N      |        | N      | N      | N      |         |

NOTES  
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|                                                                                   |                          |                                  |                                 |                                  |
|-----------------------------------------------------------------------------------|--------------------------|----------------------------------|---------------------------------|----------------------------------|
|  | <b>Title:</b>            | Reporting Incinerator <b>CEM</b> | <b>Area:</b> Manufacturing      | <b>Issue No.:</b> 1              |
|                                                                                   | <b>Ref:</b>              |                                  | <b>Last printed:</b> 22/10/2016 | <b>Date of Issue:</b> 21/12/2006 |
|                                                                                   | <b>Related Document:</b> | BU2357/AP3634                    | <b>Created on:</b> 21-12-2006   | <b>Page:</b> 2 of 2              |
|                                                                                   |                          |                                  |                                 |                                  |

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| Day                       |                     |               | 18      | 19      | 20     | 21      | 22     | 23     | 24      | 25      | 26      | 27      | 28     | 29      | 30      | 31     | TOTALS         |
|---------------------------|---------------------|---------------|---------|---------|--------|---------|--------|--------|---------|---------|---------|---------|--------|---------|---------|--------|----------------|
| Running time              | Residue             | h             | 24      | 24      | 24     | 24      | 19.5   | 24     | 19      | 23      | 23      | 22.5    | 24     | 24      | 24      | 22     | 562            |
|                           | Gas                 | h             | 0       | 0       | 0      | 0       | 4.5    | 0      | 5       | 2       | 1       | 2       | 0      | 0       | 0       | 5      | 157.5          |
|                           | Residue & gas       | h             | 0       | 0       | 0      | 0       | 1      | 0      | 0       | 1       | 0       | 0.5     | 0      | 0       | 0       | 3      | 15.5           |
|                           | Idle                | h             | 0       | 0       | 0      | 0       | 1      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0      | 40             |
| Total flow                | Residue             | kg            | 12116.3 | 12720.8 | 12720  | 12722.7 | 9944.5 | 12958  | 10182.2 | 12129.2 | 12073.7 | 11634.8 | 12449  | 12482.2 | 12479.8 | 9761.7 | 280.6 tonnes   |
|                           | Gas                 | m3            | 0       | 0       | 0      | 0       | 534.7  | 0      | 535.5   | 154.8   | 110     | 192.8   | 0      | 0       | 0       | 472.2  | 21295 m3       |
|                           | Air                 | m3            | 142409  | 152950  | 157914 | 160929  | 149985 | 166834 | 153090  | 155696  | 156515  | 148776  | 157808 | 158622  | 159835  | 140390 | 4726318 m3     |
| NOx (normalised)          | Min                 | mg/m3         | 99      | 102.7   | 139.7  | 125.7   | 90     | 90     | 101.7   | 108     | 117     | 107     | 101    | 83.7    | 95.3    | 103    |                |
|                           | Ave                 | mg/m3         | 113.5   | 129.4   | 197.6  | 223.7   | 150.5  | 102.6  | 149.6   | 174.7   | 226.3   | 174.8   | 121.8  | 124.1   | 140.8   | 194.6  |                |
|                           | Max                 | mg/m3         | 139     | 156.3   | 267    | 398.7   | 401    | 118.7  | 460.3   | 309.3   | 480.7   | 277.7   | 151.3  | 226.3   | 217     | 363.3  |                |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N       | N       | N      | N       | N      | N      | N       | N       | N       | N       | N      | N       | N       | N      | 5 exceedances  |
| CO (normalised)           | Min                 | mg/m3         | -8.8    | -8.2    | -8.3   | -8.1    | -8.3   | -8.3   | -8      | -8.5    | -8      | -8.2    | -8.3   | -8.5    | -8.5    | -8.5   |                |
|                           | Ave                 | mg/m3         | -7.8    | -8      | -8     | -7.9    | -7.6   | -8     | -7.8    | -7.7    | -7.9    | -7.9    | -8     | -8.1    | -8      | -7.4   |                |
|                           | Max                 | mg/m3         | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0      |                |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0      | 0 exceedances  |
|                           | Exceeds daily ELV ? | [ 50 mg/m3 ]  | N       | N       | N      | N       | N      | N      | N       | N       | N       | N       | N      | N       | N       | N      | 0 exceedances  |
| Particulates (normalised) | Min                 | mg/m3         | 11.3    | 11.3    | 11.3   | 10.2    | 7.9    | 4.9    | 9.9     | 9       | 0.4     | 11.3    | 11.3   | 7.7     | 7.2     | 5.7    |                |
|                           | Ave                 | mg/m3         | 11.3    | 11.3    | 11.3   | 11.3    | 11.2   | 10.7   | 11.2    | 11.2    | 10.6    | 11.3    | 11.3   | 11.2    | 11.2    | 10.9   |                |
|                           | Max                 | mg/m3         | 11.3    | 11.3    | 11.3   | 11.3    | 11.3   | 11.3   | 11.3    | 11.3    | 11.3    | 11.3    | 11.3   | 11.3    | 11.3    | 11.3   |                |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0      | 0 exceedances  |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | Y       | Y       | Y      | Y       | Y      | Y      | Y       | Y       | Y       | Y       | Y      | Y       | Y       | Y      | 17 exceedances |
| VOC (normalised)          | Min                 | mg/m3         | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 0       | 2.5     | 2.5    | 2.5     | 2.5     | 1.9    |                |
|                           | Ave                 | mg/m3         | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 1       | 2.5     | 2.5    | 2.5     | 2.5     | 2.5    |                |
|                           | Max                 | mg/m3         | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 2.5     | 3.2     | 2.6    | 2.5     | 2.5     | 3      |                |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  | 0       | 0       | 0      | 0       | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0      | 0 exceedances  |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N       | N       | N      | N       | N      | N      | N       | N       | N       | N       | N      | N       | N       | N      | 0 exceedances  |

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