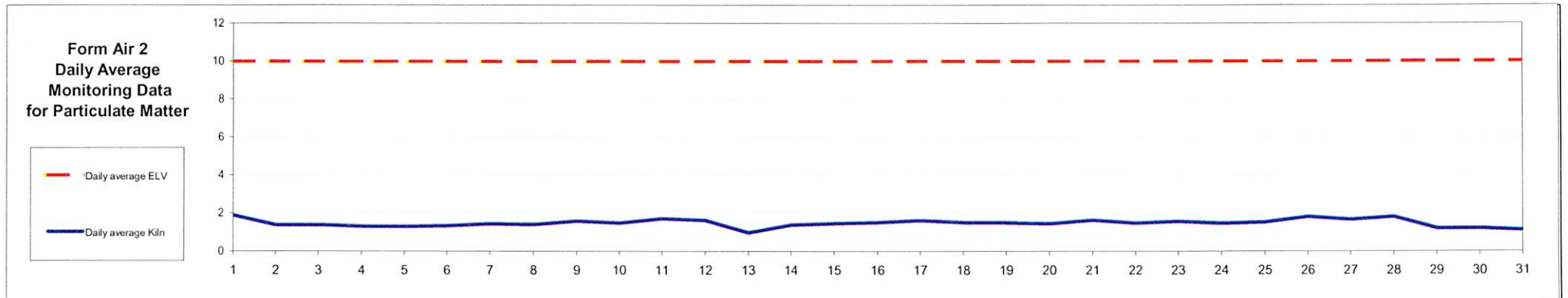


Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



| Kiln          |                         | Monthly summary |  | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |
|---------------|-------------------------|-----------------|--|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Daily average |                         |                 |  | Daily average ELV        | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
|               | Monthly maximum         | 2               |  | Daily average Kiln       | 1.90 | 1.40 | 1.40 | 1.32 | 1.31 | 1.35 | 1.45 | 1.41 | 1.59 | 1.49 | 1.72 | 1.63 | 0.99 | 1.38 | 1.46 | 1.52 | 1.62 | 1.51 | 1.50 | 1.45 | 1.63 | 1.47 | 1.56 | 1.46 | 1.53 | 1.81 | 1.66 | 1.79 | 1.18 | 1.19 | 1.08 |
|               | No. of invalid days     |                 |  | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |
|               | Total invalid 1/2 hours |                 |  | No. of invalid 1/2 hours |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Sum of exceedances      |                 |  | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    |

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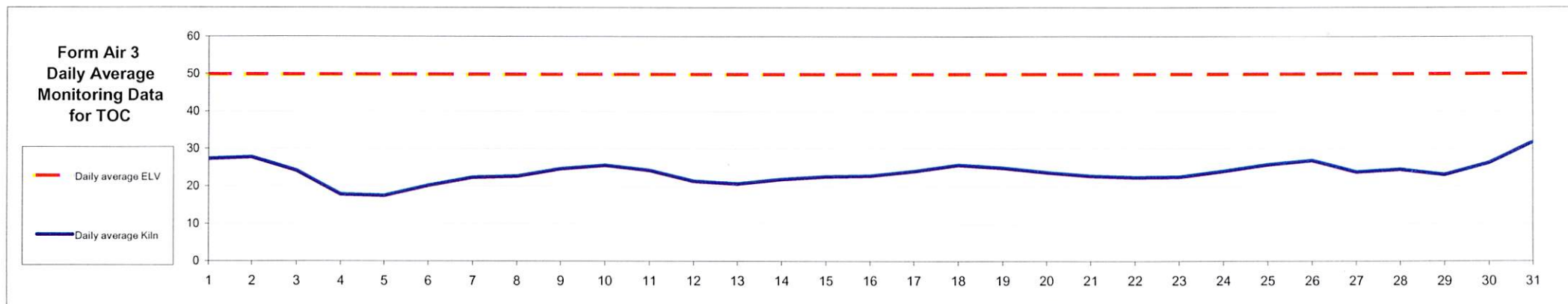
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



**Kiln**

| Monthly summary |                         | Date | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|-----------------|-------------------------|------|--------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Daily average   | Monthly maximum         | 28   | Daily average ELV        |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                 | No. of invalid days     |      | Daily average Kiln       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                 | Total invalid 1/2 hours |      | Value valid?             |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                 | Sum of exceedances      |      | No. of invalid 1/2 hours |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                 |                         |      | Value exceeds ELV (Y/N)  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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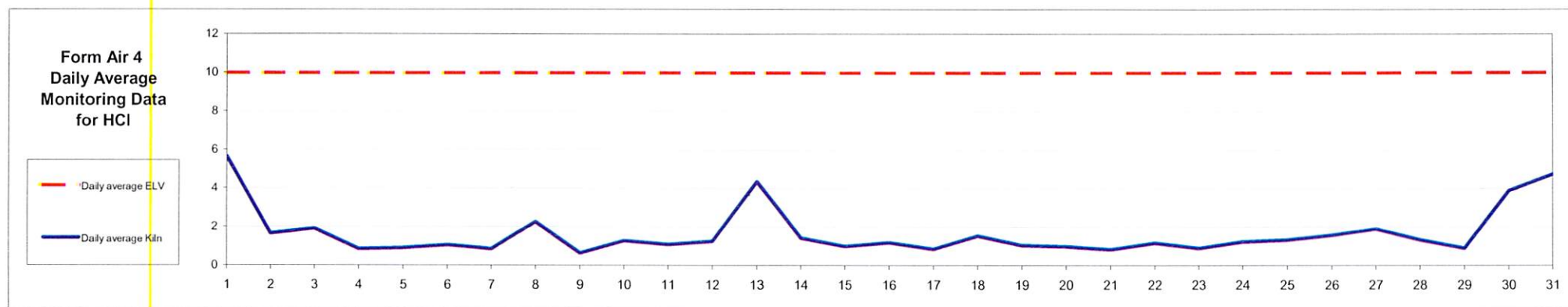
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions from Kiln 4 (Emission Point A8)



| Kiln          |                 |   |                         |                          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|-----------------|---|-------------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Daily average | Monthly summary |   | Date                    | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |
|               |                 |   | Daily average ELV       | 10                       | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
|               |                 | 6 | Daily average Kiln      | 5.65                     | 1.66 | 1.92 | 0.86 | 0.90 | 1.07 | 0.86 | 2.28 | 0.65 | 1.29 | 1.09 | 1.27 | 4.36 | 1.43 | 1.00 | 1.19 | 0.86 | 1.54 | 1.05 | 0.99 | 0.83 | 1.18 | 0.90 | 1.23 | 1.32 | 1.58 | 1.89 | 1.33 | 0.88 | 3.87 | 4.71 |
|               |                 |   | No. of invalid days     | Y                        | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |
|               |                 |   | Total invalid 1/2 hours | No. of invalid 1/2 hours |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|               |                 |   | Sum of exceedances      | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    |

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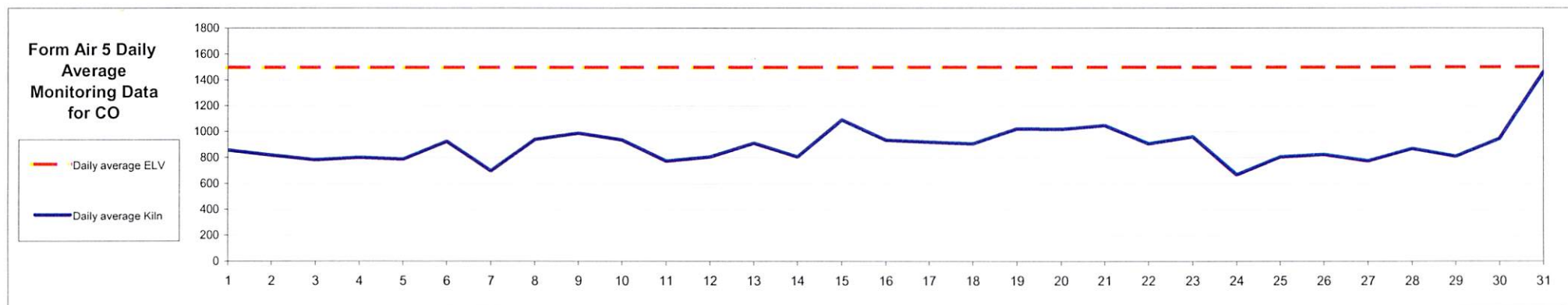
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



#### Kiln

| Kin           | Monthly summary         |      | Date                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |
|---------------|-------------------------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|               |                         |      | Daily average ELV        | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Daily average | Monthly maximum         | 1093 | Daily average Kiln       | 859  | 820  | 784  | 805  | 789  | 927  | 700  | 943  | 990  | 939  | 774  | 807  | 914  | 807  | 1093 | 937  | 920  | 908  | 1023 | 1020 | 1049 | 908  | 961  | 669  | 807  | 825  | 775  | 869  | 809  | 946  | 1459 |
|               | No. of invalid days     |      | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |
|               | Total invalid 1/2 hours |      | No. of invalid 1/2 hours |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Sum of exceedances      |      | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    |

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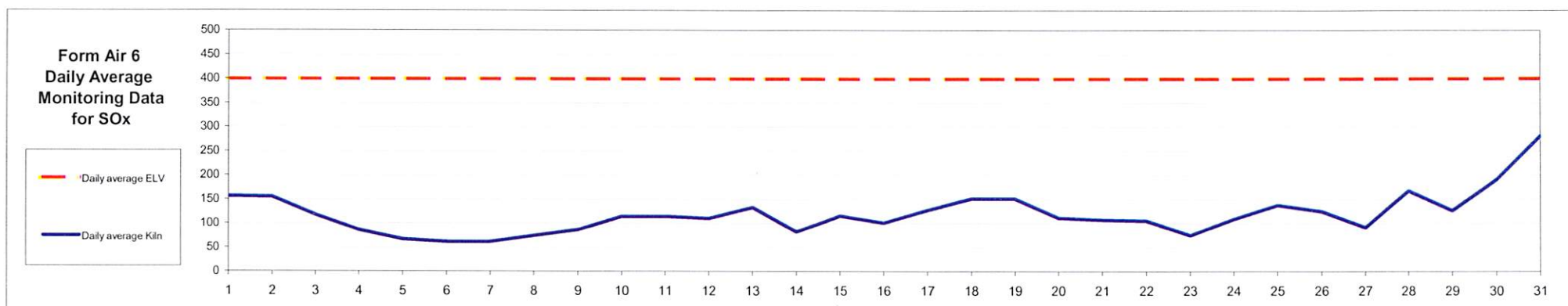
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



| Kiln          |                         |     |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------|-------------------------|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Daily average | Monthly summary         |     | Date                     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |
|               |                         |     | Daily average ELV        | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
|               | Monthly maximum         | 281 | Daily average Kiln       | 157 | 155 | 118 | 86  | 67  | 62  | 62  | 74  | 87  | 114 | 114 | 110 | 133 | 82  | 115 | 101 | 127 | 151 | 151 | 112 | 107 | 105 | 75  | 109 | 137 | 125 | 91  | 167 | 126 | 190 | 281 |
|               | No. of invalid days     |     | Value valid?             | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |     |
|               | Total invalid 1/2 hours |     | No. of invalid 1/2 hours |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | Sum of exceedances      |     | Value exceeds ELV (Y/N)  | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   |

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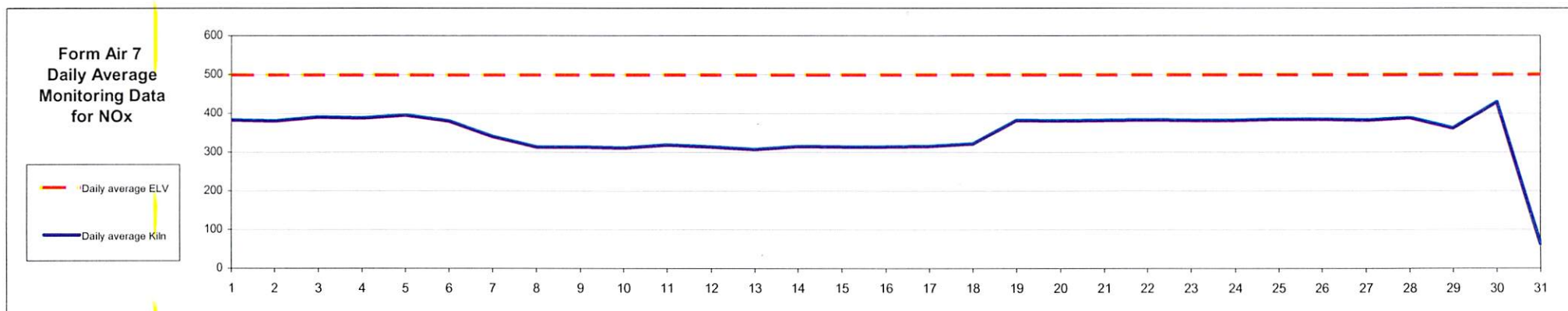
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



| Kiln            |                         |     |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|-------------------------|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Monthly summary |                         |     | Date                     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |
| Daily average   |                         |     | Daily average ELV        | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
|                 | Monthly maximum         | 428 | Daily average Kiln       | 382 | 380 | 389 | 388 | 395 | 380 | 340 | 313 | 313 | 311 | 318 | 313 | 306 | 314 | 312 | 313 | 314 | 321 | 381 | 380 | 380 | 383 | 381 | 381 | 383 | 383 | 381 | 387 | 360 | 428 | 61  |
|                 | No. of invalid days     |     | Value valid?             | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |
|                 | Total invalid 1/2 hours |     | No. of invalid 1/2 hours |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                 | Sum of exceedances      |     | Value exceeds ELV (Y/N)  | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   |

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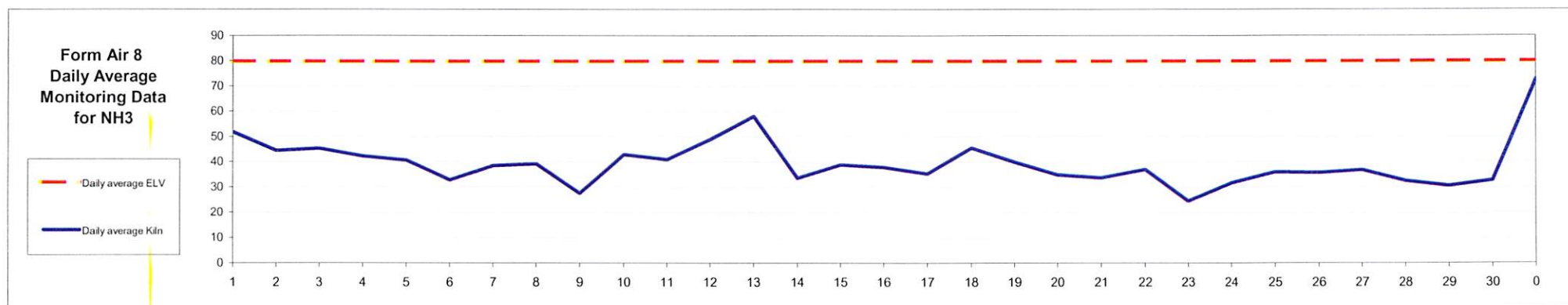
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Kiln Report of Continuous Monitored Emissions (Emission Point A1)



| Kiln          |                         |    |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------|-------------------------|----|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Daily average | Monthly summary         |    | Date                     | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|               |                         |    | Daily average ELV        | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
|               | Monthly maximum         | 73 | Daily average Kiln       | 52 | 45 | 45 | 42 | 41 | 33 | 39 | 39 | 28 | 43 | 41 | 49 | 58 | 34 | 39 | 38 | 35 | 46 | 40 | 35 | 34 | 37 | 25 | 32 | 36 | 36 | 37 | 33 | 30 | 33 | 73 |
|               | No. of invalid days     |    | Value valid?             | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  | Y  |    |
|               | Total invalid 1/2 hours | 1  | No. of invalid 1/2 hours |    |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|               | Sum of exceedances      | 0  | Value exceeds ELV (Y/N)  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  | N  |

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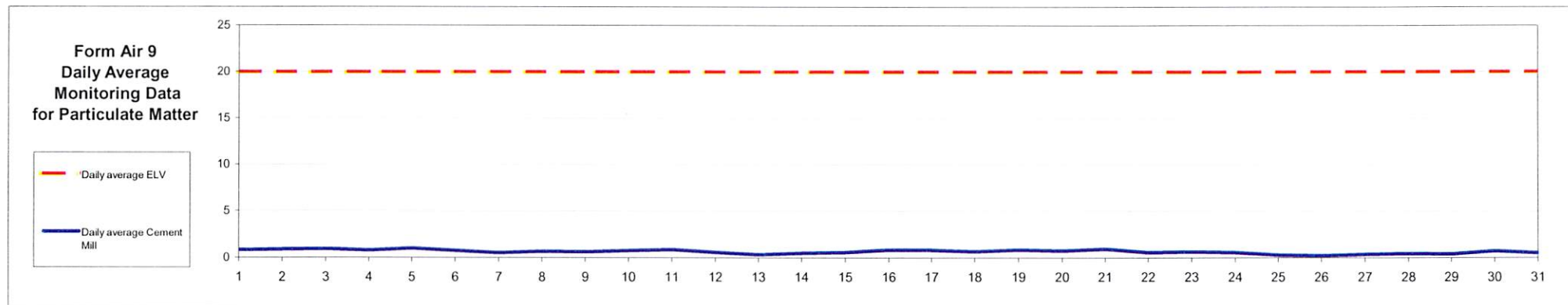
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Cement Mill Report of Continuous Monitored Emissions (Emission Point A2)



| Cement Mill     |                         |   |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|-----------------|-------------------------|---|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| Monthly summary |                         |   | Date                      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |   |
| Daily average   |                         |   | Daily average ELV         | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |   |
|                 | Monthly maximum         | 1 | Daily average Cement Mill | 0.83 | 0.91 | 0.98 | 0.80 | 1.03 | 0.77 | 0.53 | 0.71 | 0.66 | 0.78 | 0.89 | 0.59 | 0.36 | 0.50 | 0.59 | 0.87 | 0.83 | 0.68 | 0.87 | 0.75 | 0.95 | 0.57 | 0.66 | 0.57 | 0.29 | 0.21 | 0.36 | 0.44 | 0.37 | 0.71 | 0.49 |   |
|                 | No. of invalid days     |   | Value valid?              | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |   |
|                 | Total invalid 1/2 hours |   | No. of invalid 1/2 hours  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|                 | Sum of exceedances      |   | Value exceeds ELV (Y/N)   | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N |

Signed **K.Bennett** Date 22.12.2017  
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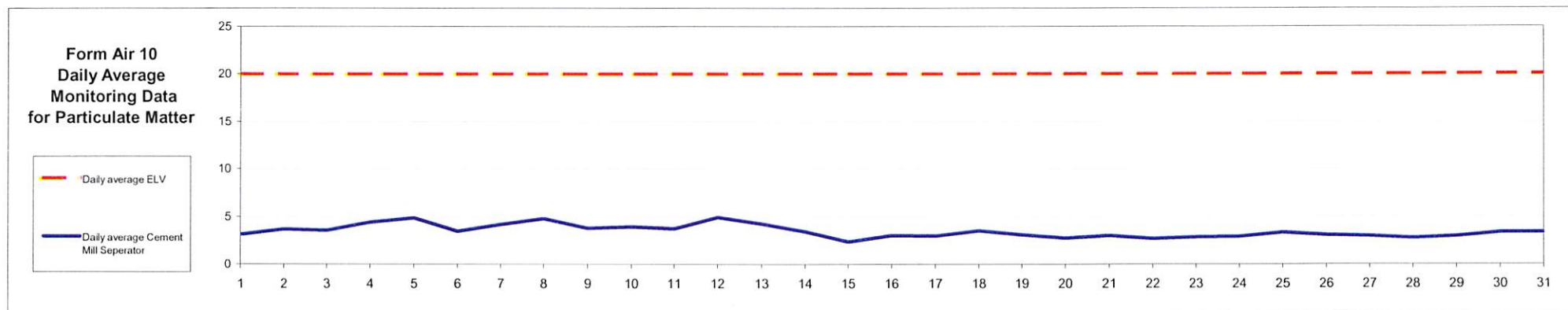
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Permit Reference Number: BL3986ID

Operator: Tarmac Cement & Lime Ltd  
Oct-17

Installation: Aberthaw Works

Cement Mill Separator Report of Continuous Monitored Emissions (Emission Point A3)



**Cement Mill Separator**

| Monthly summary |                                | Date | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |
|-----------------|--------------------------------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Daily average   | Monthly maximum                | 5    | Daily average ELV        | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
|                 | Daily average Cement Mill Sepe |      | 3.16                     | 3.72 | 3.59 | 4.44 | 4.89 | 3.48 | 4.20 | 4.80 | 3.79 | 3.96 | 3.74 | 4.94 | 4.26 | 3.44 | 2.38 | 3.03 | 2.99 | 3.50 | 3.10 | 2.76 | 3.01 | 2.70 | 2.84 | 2.89 | 3.33 | 3.06 | 2.95 | 2.75 | 2.93 | 3.32 | 3.35 |
|                 | No. of invalid days            |      | Value valid?             | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    | Y    |
|                 | Total invalid 1/2 hours        |      | No. of invalid 1/2 hours |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                 | Sum of exceedances             |      | Value exceeds ELV (Y/N)  | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    | N    |

Signed **K.Bennett** Date **22.12.2017**  
(Authorised to sign as representative of Tarmac Cement & Lime Ltd)

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