

Appendix 6A: Criteria for assessing dust emission impacts, as per IAQM Guidance on Construction Impacts - 2014

Below are presented a series of criteria used to assess the Dust Emission magnitude for Demolition, Earthworks, Construction and Trackout as set out in IAQM guidance.

Table A1: Dust emission class determination criteria for demolition activities without mitigation

| Demolition Criteria | IAQM Dust Emission Class | | |
|--------------------------------|---|---|--|
| | Small | Medium | Large |
| Installation Volume | <20,000m ³ | 20,000m ³ – 50,000m ³ | >50,000m ³ |
| <u>Material Dust Potential</u> | Metal/timber cladding, demolition activity <10m above ground, during wetter months. | Potentially dusty demolition material, activities at 10-20m above ground. | Potentially dusty demolition material (e.g. concrete). Onsite crushing and screening, demolition activities >20m above ground level. |

Table A2: Dust emission class determination criteria for earthwork activities without mitigation

| Earthworks Criteria | IAQM Dust Emission Class | | |
|-----------------------|--------------------------|------------------------------|-----------------------|
| | Small | Medium | Large |
| Site Area | <2,500m ² | 2,500 – 10,000m ² | >10,000m ² |
| Soil Type | Sand | Silt | Clay (dry) |
| Earthmoving equipment | <5 veh at a time | 5 – 10 veh at a time | >10 veh at a time |
| Bunds | <4m high | 4 – 8m high | >8m high |
| Material Moved | <10,000 tonnes | 20,000 - 100,000 tonnes | >100,000 tonnes |
| Timing of Works | During wetter months | Various conditions | During drier months |

Table A3: Dust emission class determination criteria for track-out without mitigation

| Trackout Criteria | IAQM Dust Emission Class | | |
|--|--------------------------|---|--|
| | Small | Medium | Large |
| Number of HDV (>3.5t) per day | <10 | 10-50 | >50 |
| Extent of unconsolidated surfaces (i.e. unpaved road length) | <50m | 50 – 100m | >100m |
| Surface material dust potential | Low | Moderately dusty i.e. some clay content | Potentially dusty i.e. high clay content |

Table A4: Dust emission class determination criteria for construction activities without mitigation

| Construction Criteria | IAQM Dust Emission Class | | |
|---|--|---|--|
| | Small | Medium | Large |
| Installation Volume | <25,000m ³ | 25,000m ³ -100,000m ³ | >100,000m ³ |
| Dust Potential of Construction Activities | Use of materials with low potential for dust release (e.g. metal cladding or timber) | e.g. use of dusty material such as concrete/ballast; piling | e.g. on-site concrete batching, sandblasting |

Below are present a series of criteria for assessing the sensitivity of different types of receptor to dust soiling, health effects and ecological effects

Table Error! No text of specified style in document.A5 Sensitivity of the Area to Dust Soiling Effects on People and Property

| Receptor Sensitivity | Number of Receptors | Distance from the Source (m) | | | |
|----------------------|---------------------|------------------------------|--------|--------|------|
| | | <20 | <50 | <100 | <350 |
| High | >100 | High | High | Medium | Low |
| | 10-100 | High | Medium | Low | Low |
| | 1-10 | Medium | Low | Low | Low |
| Medium | >1 | Medium | Low | Low | Low |
| Low | >1 | Low | Low | Low | Low |

Table A6 Sensitivity of the area to human health impacts

| Receptor Sensitivity | Annual Mean PM10 Concentration | Number of Receptors | Distance Form the Source | | | | |
|----------------------|---|---------------------|--------------------------|--------|--------|--------|------|
| | | | <20 | <50 | <100 | <200 | <350 |
| High | >32µg/m ³ (>18µg/m ³ in Scotland) | >100 | High | High | High | Medium | Low |
| | | 10-100 | High | High | Medium | Low | Low |
| | | 1-10 | High | Medium | Low | Low | Low |
| | 28-32µg/m ³ (16-18µg/m ³ in Scotland) | >100 | High | High | Medium | Low | Low |
| | | 10-100 | High | Medium | Low | Low | Low |
| | | 1-10 | High | Medium | Low | Low | Low |
| | 24-28 µg/m ³ (14-16 µg/m ³ in Scotland) | >100 | High | Medium | Low | Low | Low |
| | | 10-100 | High | Medium | Low | Low | Low |
| | | 1-10 | Medium | Low | Low | Low | Low |
| | <24 µg/m ³ (<14 µg/m ³ in Scotland) | >100 | Medium | Low | Low | Low | Low |
| | | 10-100 | Low | Low | Low | Low | Low |
| | | 1-10 | Low | Low | Low | Low | Low |
| Medium | - | >10 | High | Medium | Low | Low | Low |
| | - | 1-10 | Medium | Low | Low | Low | Low |
| Low | - | >1 | Low | Low | Low | Low | Low |

Table A7 Sensitivity of the area to ecological impacts

| Receptor Sensitivity | Distance from the Source (m) | |
|----------------------|------------------------------|--------|
| | <20 | <50 |
| High | High | Medium |
| Medium | Medium | Low |
| Low | Low | Low |

The following criteria are used to determine the risk of dust impacts from each potential emission

Table A8 Risk of Dust Impacts - Demolition

| Sensitivity of Area | Dust Emission Magnitude | | |
|---------------------|-------------------------|-------------|-------------|
| | Large | Medium | Small |
| High | High Risk | Medium Risk | Medium Risk |
| Medium | High Risk | Medium Risk | Low Risk |
| Low | Medium Risk | Low Risk | Negligible |

Table A9 Risk of Dust Impacts - Earthworks

| Sensitivity of Area | Dust Emission Magnitude | | |
|---------------------|-------------------------|-------------|------------|
| | Large | Medium | Small |
| High | High Risk | Medium Risk | Low Risk |
| Medium | Medium Risk | Medium Risk | Low Risk |
| Low | Low Risk | Low Risk | Negligible |

Table A10 Risk of Dust Impacts - Construction

| Sensitivity of Area | Dust Emission Magnitude | | |
|---------------------|-------------------------|-------------|------------|
| | Large | Medium | Small |
| High | High Risk | Medium Risk | Low Risk |
| Medium | Medium Risk | Medium Risk | Low Risk |
| Low | Low Risk | Low Risk | Negligible |

Table A11 Risk of Dust Impacts - Trackout

| Sensitivity of Area | Dust Emission Magnitude | | |
|---------------------|-------------------------|-------------|------------|
| | Large | Medium | Small |
| High | High Risk | Medium Risk | Low Risk |
| Medium | Medium Risk | Low Risk | Negligible |
| Low | Low Risk | Low Risk | Negligible |

Appendix 6B – Model Results

The tables below present Verified model results

Table B1 Modelled nitrogen dioxide results for 2012 and 2016 scenarios ($\mu\text{g}/\text{m}^3$)

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 1 2012 | Scenario 2 2016 | Scenario 3 2016 |
|---------------|----------|----------|------|-----------------|-----------------|-----------------|
| R01 | 479511.2 | 269675.2 | 0 | 20.07 | 17.41 | 17.58 |
| R02 | 479407.9 | 269723.7 | 0 | 20.57 | 17.90 | 18.11 |
| R03 | 479290.7 | 269702 | 0 | 18.51 | 16.23 | 16.35 |
| R04 | 479159.4 | 269626.8 | 0 | 16.61 | 14.86 | 14.91 |
| R05 | 478759.9 | 269138.2 | 0 | 17.86 | 16.08 | 16.16 |
| R06 | 478291.5 | 268272.5 | 0 | 16.61 | 14.81 | 14.86 |
| R07 | 478459.2 | 266699.2 | 0 | 20.60 | 18.37 | 18.45 |
| R08 | 481301.7 | 269276.8 | 0 | 26.29 | 22.00 | 22.38 |
| R09 | 480782.4 | 268659.8 | 0 | 24.60 | 21.04 | 21.32 |
| R10 | 480740.2 | 268605.3 | 0 | 21.20 | 18.25 | 18.39 |
| R11 | 481138.7 | 268279.3 | 0 | 23.20 | 19.61 | 19.72 |
| R12 | 480285 | 267841.2 | 0 | 24.09 | 20.68 | 23.72 |
| R13 | 480147.3 | 267686.7 | 0 | 23.22 | 20.10 | 23.69 |
| R14 | 482023.7 | 267333.5 | 0 | 21.43 | 18.90 | 18.73 |
| R15 | 481658.9 | 267002.3 | 0 | 22.26 | 20.34 | 19.92 |
| R16 | 481024.3 | 266623.6 | 0 | 33.83 | 31.75 | 30.79 |
| R17 | 480412.7 | 266302.5 | 0 | 21.67 | 19.23 | 18.64 |
| R18 | 479121.6 | 266255.7 | 0 | 26.82 | 25.67 | 23.96 |
| R19 | 479000.4 | 266291.3 | 0 | 25.14 | 23.45 | 22.33 |
| R20 | 478911.1 | 266176.2 | 0 | 23.34 | 20.92 | 20.54 |
| R21 | 478881.2 | 266269.7 | 0 | 26.14 | 24.87 | 22.84 |
| R22 | 478684.2 | 266257.6 | 0 | 26.16 | 24.32 | 22.57 |
| R23 | 478558.8 | 266252.9 | 0 | 24.59 | 23.10 | 21.53 |
| R24 | 478534.5 | 266271.6 | 0 | 25.39 | 24.47 | 22.47 |
| R25 | 478490.1 | 266428.3 | 0 | 22.55 | 20.30 | 20.31 |
| R26 | 478424.6 | 266226.2 | 0 | 25.28 | 24.69 | 22.49 |
| R27 | 478300.2 | 266200.5 | 0 | 21.75 | 20.05 | 19.85 |
| R28 | 478339.9 | 266104.6 | 0 | 27.43 | 27.61 | 25.64 |
| R29 | 478324.5 | 266025.1 | 0 | 25.02 | 23.96 | 23.19 |
| R30 | 478297.8 | 265809.4 | 0 | 25.64 | 24.98 | 23.66 |
| R31 | 478174 | 265559.4 | 0 | 24.84 | 23.47 | 22.87 |
| R32 | 478077 | 265335.3 | 0 | 25.64 | 24.70 | 23.57 |
| R33 | 477949.4 | 265020.2 | 0 | 23.97 | 22.26 | 21.82 |
| R34 | 479460.3 | 266674.6 | 0 | 30.14 | 27.83 | 30.56 |
| R35 | 479448.9 | 266618.9 | 0 | 34.19 | 32.50 | 35.22 |
| R36 | 479394.8 | 266493.9 | 0 | 33.21 | 31.25 | 33.22 |
| R37 | 479341.5 | 266338.2 | 0 | 33.74 | 31.52 | 31.40 |
| R38 | 479332.7 | 266201.9 | 0 | 37.67 | 32.85 | 28.42 |
| R39 | 479291 | 266222.7 | 0 | 33.44 | 30.01 | 26.93 |
| R40 | 479218.8 | 266078.6 | 0 | 34.54 | 29.46 | 23.76 |
| R41 | 479203.7 | 265946.8 | 0 | 33.00 | 27.91 | 23.51 |
| R42 | 479118.9 | 265874.9 | 0 | 30.83 | 26.32 | 22.84 |
| R43 | 479212.3 | 265849.7 | 0 | 30.60 | 25.94 | 23.75 |
| R44 | 479061.3 | 265975.9 | 0 | 25.73 | 22.73 | 22.19 |
| R45 | 479140.1 | 265770.3 | 0 | 32.38 | 27.15 | 23.23 |

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 1 2012 | Scenario 2 2016 | Scenario 3 2016 |
|---------------|----------|----------|------|-----------------|-----------------|-----------------|
| R46 | 479041.3 | 265584.5 | 0 | 34.46 | 28.40 | 23.24 |
| R47 | 478960.4 | 265372.5 | 0 | 30.01 | 25.23 | 33.54 |
| R48 | 478838.2 | 265235.9 | 0 | 27.08 | 23.13 | 24.23 |
| R49 | 478721.8 | 265038.6 | 0 | 25.10 | 22.13 | 22.77 |
| R50 | 478764.2 | 265029.3 | 0 | 25.82 | 22.67 | 23.71 |
| R51 | 478548 | 264664.7 | 0 | 25.15 | 21.88 | 22.66 |
| R52 | 478363.2 | 264370.3 | 0 | 29.16 | 25.12 | 25.31 |
| R53 | 478332.1 | 264260.7 | 0 | 29.12 | 25.42 | 25.50 |
| R54 | 478165.8 | 264116.6 | 0 | 32.70 | 29.41 | 29.37 |
| R55 | 477796.7 | 263877 | 0 | 26.61 | 23.80 | 23.79 |
| R56 | 477577.4 | 263616.5 | 0 | 32.25 | 29.27 | 29.17 |
| R57 | 477307.3 | 263189.2 | 0 | 30.74 | 27.67 | 27.62 |
| R58 | 477166.1 | 262750.7 | 0 | 28.70 | 25.42 | 25.41 |
| R59 | 477066.7 | 262760.4 | 0 | 27.23 | 24.54 | 24.44 |
| R60 | 476904.7 | 262412.2 | 0 | 26.92 | 23.99 | 23.84 |
| R61 | 476254.3 | 261133.6 | 0 | 27.87 | 24.66 | 24.75 |
| R62 | 477172.8 | 262476.1 | 0 | 25.55 | 22.24 | 22.40 |
| R63 | 477049.7 | 261178.6 | 0 | 26.93 | 24.54 | 24.64 |
| R64 | 476614.3 | 260962 | 0 | 27.42 | 25.08 | 25.19 |
| R65 | 477327.8 | 261899.7 | 0 | 29.35 | 25.61 | 26.05 |
| R66 | 478820.8 | 264414.6 | 0 | 30.26 | 26.15 | 26.51 |
| R67 | 478635 | 264304.2 | 0 | 25.49 | 22.75 | 22.89 |
| R68 | 478550.9 | 264050.8 | 0 | 24.06 | 21.53 | 21.54 |
| R69 | 478882.2 | 264130.6 | 0 | 26.96 | 23.89 | 24.06 |
| R70 | 478880.9 | 264436.6 | 0 | 34.20 | 29.68 | 30.18 |
| R71 | 479031.8 | 263814.1 | 0 | 34.55 | 30.35 | 31.26 |
| R72 | 479107.9 | 263368.1 | 0 | 32.43 | 28.34 | 28.61 |
| R73 | 479225.7 | 263178 | 0 | 40.09 | 34.96 | 35.80 |
| R74 | 479509 | 262470.8 | 0 | 30.52 | 26.71 | 26.95 |
| R75 | 478957 | 262280 | 0 | 25.49 | 22.26 | 22.59 |
| R76 | 478559.5 | 262110.1 | 0 | 28.86 | 25.29 | 26.36 |
| R77 | 479626.2 | 261986.4 | 0 | 30.76 | 26.73 | 26.70 |
| R78 | 479531 | 261856.8 | 0 | 36.20 | 31.48 | 31.65 |
| R79 | 479922.9 | 262332.3 | 0 | 24.74 | 22.20 | 22.04 |
| R80 | 480064.7 | 262191.2 | 0 | 24.35 | 21.42 | 21.29 |
| R81 | 481315.2 | 262869 | 0 | 28.60 | 24.70 | 24.43 |
| R82 | 481197.6 | 263250.3 | 0 | 26.32 | 23.03 | 22.97 |
| R83 | 481228.5 | 263407.8 | 0 | 28.67 | 25.38 | 24.96 |
| R84 | 481166 | 264173.3 | 0 | 25.68 | 22.90 | 22.54 |
| R85 | 481003.2 | 264535 | 0 | 25.30 | 22.70 | 22.42 |
| R86 | 480346.1 | 264532 | 0 | 23.91 | 21.53 | 21.49 |
| R87 | 480045.5 | 264533.5 | 0 | 24.39 | 21.92 | 21.95 |
| R88 | 479935.5 | 264169.5 | 0 | 22.42 | 19.84 | 19.86 |
| R89 | 480474.3 | 263107.8 | 0 | 24.07 | 21.21 | 21.25 |
| R90 | 480301.8 | 263403.1 | 0 | 22.42 | 19.95 | 19.89 |
| R91 | 480810.7 | 263296 | 0 | 25.96 | 22.75 | 22.85 |
| R92 | 479659.9 | 263232.5 | 0 | 23.29 | 20.50 | 20.66 |
| R93 | 479719.8 | 263194.8 | 0 | 23.65 | 20.83 | 21.14 |
| R94 | 479499.7 | 264158.4 | 0 | 24.22 | 21.37 | 21.65 |
| R95 | 479240.1 | 264525.9 | 0 | 24.97 | 21.86 | 21.75 |
| R96 | 479618.8 | 261551.6 | 0 | 32.51 | 27.80 | 27.76 |

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 1 2012 | Scenario 2 2016 | Scenario 3 2016 |
|---------------|----------|----------|------|-----------------|-----------------|-----------------|
| R97 | 479319.8 | 261291.9 | 0 | 40.63 | 34.97 | 34.90 |
| R98 | 478379.6 | 260476.9 | 0 | 27.75 | 24.07 | 24.03 |

Table B2 Modelled nitrogen dioxide results for 2021 Scenarios ($\mu\text{g}/\text{m}^3$)

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 4 2021 | Scenario 5 2021 | Scenario 6 2021 | Scenario 7 2021 |
|---------------|----------|----------|------|-----------------|-----------------|-----------------|-----------------|
| R01 | 479511.2 | 269675.2 | 0 | 13.97 | 14.14 | 14.03 | 14.26 |
| R02 | 479407.9 | 269723.7 | 0 | 14.35 | 14.53 | 14.41 | 14.67 |
| R03 | 479290.7 | 269702 | 0 | 13.1 | 13.22 | 13.13 | 13.28 |
| R04 | 479159.4 | 269626.8 | 0 | 12.1 | 12.17 | 12.09 | 12.14 |
| R05 | 478759.9 | 269138.2 | 0 | 12.97 | 13.09 | 12.96 | 13.02 |
| R06 | 478291.5 | 268272.5 | 0 | 12.21 | 12.26 | 12.21 | 12.24 |
| R07 | 478459.2 | 266699.2 | 0 | 15.21 | 15.29 | 15.19 | 15.22 |
| R08 | 481301.7 | 269276.8 | 0 | 16.7 | 16.73 | 16.72 | 16.83 |
| R09 | 480782.4 | 268659.8 | 0 | 16.57 | 16.74 | 16.59 | 16.83 |
| R10 | 480740.2 | 268605.3 | 0 | 14.63 | 14.74 | 14.61 | 14.75 |
| R11 | 481138.7 | 268279.3 | 0 | 15.7 | 15.82 | 15.82 | 15.94 |
| R12 | 480285 | 267841.2 | 0 | 16.5 | 16.76 | 18.11 | 18.31 |
| R13 | 480147.3 | 267686.7 | 0 | 16.26 | 16.49 | 18.23 | 18.39 |
| R14 | 482023.7 | 267333.5 | 0 | 15.62 | 15.7 | 15.53 | 15.62 |
| R15 | 481658.9 | 267002.3 | 0 | 17.17 | 17.25 | 16.87 | 16.96 |
| R16 | 481024.3 | 266623.6 | 0 | 27.15 | 27.33 | 26.44 | 26.66 |
| R17 | 480412.7 | 266302.5 | 0 | 15.52 | 15.64 | 15.12 | 15.25 |
| R18 | 479121.6 | 266255.7 | 0 | 20.55 | 20.85 | 20.26 | 20.45 |
| R19 | 479000.4 | 266291.3 | 0 | 19.04 | 19.26 | 18.74 | 18.9 |
| R20 | 478911.1 | 266176.2 | 0 | 17.37 | 17.42 | 17.24 | 17.35 |
| R21 | 478881.2 | 266269.7 | 0 | 19.28 | 19.53 | 18.97 | 19.2 |
| R22 | 478684.2 | 266257.6 | 0 | 19.12 | 19.32 | 18.67 | 18.91 |
| R23 | 478558.8 | 266252.9 | 0 | 18.1 | 18.31 | 17.78 | 17.98 |
| R24 | 478534.5 | 266271.6 | 0 | 18.75 | 19.06 | 18.41 | 18.64 |
| R25 | 478490.1 | 266428.3 | 0 | 16.64 | 16.78 | 16.59 | 16.65 |
| R26 | 478424.6 | 266226.2 | 0 | 18.71 | 19.02 | 18.42 | 18.66 |
| R27 | 478300.2 | 266200.5 | 0 | 16.27 | 16.33 | 16.33 | 16.39 |
| R28 | 478339.9 | 266104.6 | 0 | 20.28 | 20.52 | 20.45 | 20.55 |
| R29 | 478324.5 | 266025.1 | 0 | 18.46 | 18.58 | 18.64 | 18.71 |
| R30 | 478297.8 | 265809.4 | 0 | 18.95 | 19.11 | 19.09 | 19.16 |
| R31 | 478174 | 265559.4 | 0 | 18.38 | 18.49 | 18.54 | 18.6 |
| R32 | 478077 | 265335.3 | 0 | 18.97 | 19.11 | 19.1 | 19.16 |
| R33 | 477949.4 | 265020.2 | 0 | 17.72 | 17.8 | 17.83 | 17.88 |
| R34 | 479460.3 | 266674.6 | 0 | 22.87 | 23.17 | 24.71 | 24.94 |
| R35 | 479448.9 | 266618.9 | 0 | 26.05 | 26.49 | 28.29 | 28.65 |
| R36 | 479394.8 | 266493.9 | 0 | 25.95 | 26.27 | 27.45 | 27.7 |
| R37 | 479341.5 | 266338.2 | 0 | 26.69 | 26.98 | 26.76 | 26.95 |
| R38 | 479332.7 | 266201.9 | 0 | 28.24 | 28.67 | 24.52 | 24.67 |
| R39 | 479291 | 266222.7 | 0 | 25.25 | 25.61 | 23.13 | 23.28 |
| R40 | 479218.8 | 266078.6 | 0 | 24.64 | 25.08 | 20.37 | 20.49 |
| R41 | 479203.7 | 265946.8 | 0 | 23.77 | 24.1 | 20.1 | 20.2 |
| R42 | 479118.9 | 265874.9 | 0 | 21.98 | 22.23 | 19.37 | 19.48 |

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 4 2021 | Scenario 5 2021 | Scenario 6 2021 | Scenario 7 2021 |
|---------------|----------|----------|------|-----------------|-----------------|-----------------|-----------------|
| R43 | 479212.3 | 265849.7 | 0 | 21.96 | 22.11 | 20.26 | 20.38 |
| R44 | 479061.3 | 265975.9 | 0 | 19.11 | 19.16 | 18.75 | 18.84 |
| R45 | 479140.1 | 265770.3 | 0 | 22.68 | 22.94 | 19.7 | 19.8 |
| R46 | 479041.3 | 265584.5 | 0 | 23.43 | 23.74 | 19.5 | 19.6 |
| R47 | 478960.4 | 265372.5 | 0 | 21 | 21.19 | 25.65 | 26.32 |
| R48 | 478838.2 | 265235.9 | 0 | 19.34 | 19.46 | 19.67 | 19.87 |
| R49 | 478721.8 | 265038.6 | 0 | 18.32 | 18.39 | 18.62 | 18.72 |
| R50 | 478764.2 | 265029.3 | 0 | 18.74 | 18.82 | 19.27 | 19.41 |
| R51 | 478548 | 264664.7 | 0 | 18.44 | 18.47 | 18.5 | 18.56 |
| R52 | 478363.2 | 264370.3 | 0 | 20.37 | 20.43 | 20.51 | 20.57 |
| R53 | 478332.1 | 264260.7 | 0 | 20.44 | 20.5 | 20.51 | 20.57 |
| R54 | 478165.8 | 264116.6 | 0 | 22.85 | 22.92 | 22.79 | 22.85 |
| R55 | 477796.7 | 263877 | 0 | 19.01 | 19.05 | 18.97 | 19.01 |
| R56 | 477577.4 | 263616.5 | 0 | 22.64 | 22.73 | 22.5 | 22.58 |
| R57 | 477307.3 | 263189.2 | 0 | 21.81 | 21.86 | 21.72 | 21.76 |
| R58 | 477166.1 | 262750.7 | 0 | 20.37 | 20.45 | 20.34 | 20.43 |
| R59 | 477066.7 | 262760.4 | 0 | 19.74 | 19.76 | 19.66 | 19.71 |
| R60 | 476904.7 | 262412.2 | 0 | 19.24 | 19.26 | 19.25 | 19.27 |
| R61 | 476254.3 | 261133.6 | 0 | 19.62 | 19.67 | 19.76 | 19.79 |
| R62 | 477172.8 | 262476.1 | 0 | 18.28 | 18.33 | 18.34 | 18.38 |
| R63 | 477049.7 | 261178.6 | 0 | 19.77 | 19.85 | 19.79 | 19.84 |
| R64 | 476614.3 | 260962 | 0 | 20.02 | 20.08 | 20.06 | 20.1 |
| R65 | 477327.8 | 261899.7 | 0 | 20.52 | 20.61 | 20.68 | 20.76 |
| R66 | 478820.8 | 264414.6 | 0 | 20.79 | 20.92 | 20.78 | 20.94 |
| R67 | 478635 | 264304.2 | 0 | 18.52 | 18.54 | 18.57 | 18.58 |
| R68 | 478550.9 | 264050.8 | 0 | 17.67 | 17.74 | 17.65 | 17.73 |
| R69 | 478882.2 | 264130.6 | 0 | 19.35 | 19.37 | 19.37 | 19.4 |
| R70 | 478880.9 | 264436.6 | 0 | 23.23 | 23.34 | 23.25 | 23.38 |
| R71 | 479031.8 | 263814.1 | 0 | 23.66 | 23.71 | 23.71 | 23.83 |
| R72 | 479107.9 | 263368.1 | 0 | 22.19 | 22.21 | 22.22 | 22.25 |
| R73 | 479225.7 | 263178 | 0 | 26.72 | 26.71 | 26.84 | 26.84 |
| R74 | 479509 | 262470.8 | 0 | 20.7 | 20.73 | 20.79 | 20.83 |
| R75 | 478957 | 262280 | 0 | 18.26 | 18.32 | 18.45 | 18.52 |
| R76 | 478559.5 | 262110.1 | 0 | 20.13 | 20.21 | 20.81 | 20.89 |
| R77 | 479626.2 | 261986.4 | 0 | 20.49 | 20.54 | 20.49 | 20.53 |
| R78 | 479531 | 261856.8 | 0 | 23.68 | 23.71 | 23.68 | 23.72 |
| R79 | 479922.9 | 262332.3 | 0 | 18.02 | 18.09 | 18.04 | 18.09 |
| R80 | 480064.7 | 262191.2 | 0 | 17.28 | 17.32 | 17.29 | 17.32 |
| R81 | 481315.2 | 262869 | 0 | 19.41 | 19.5 | 19.36 | 19.45 |
| R82 | 481197.6 | 263250.3 | 0 | 18.78 | 18.84 | 18.8 | 18.85 |
| R83 | 481228.5 | 263407.8 | 0 | 20.1 | 20.24 | 20.07 | 20.18 |
| R84 | 481166 | 264173.3 | 0 | 18.51 | 18.61 | 18.48 | 18.55 |
| R85 | 481003.2 | 264535 | 0 | 18.31 | 18.41 | 18.29 | 18.35 |
| R86 | 480346.1 | 264532 | 0 | 17.64 | 17.68 | 17.66 | 17.67 |
| R87 | 480045.5 | 264533.5 | 0 | 18.02 | 18.07 | 18.1 | 18.14 |
| R88 | 479935.5 | 264169.5 | 0 | 16.66 | 16.69 | 16.68 | 16.7 |
| R89 | 480474.3 | 263107.8 | 0 | 17.26 | 17.3 | 17.31 | 17.35 |
| R90 | 480301.8 | 263403.1 | 0 | 16.37 | 16.41 | 16.38 | 16.43 |
| R91 | 480810.7 | 263296 | 0 | 18.72 | 18.76 | 18.79 | 18.82 |
| R92 | 479659.9 | 263232.5 | 0 | 17.19 | 17.21 | 17.23 | 17.25 |
| R93 | 479719.8 | 263194.8 | 0 | 17.44 | 17.49 | 17.49 | 17.54 |

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 4 2021 | Scenario 5 2021 | Scenario 6 2021 | Scenario 7 2021 |
|---------------|----------|----------|------|-----------------|-----------------|-----------------|-----------------|
| R94 | 479499.7 | 264158.4 | 0 | 18.04 | 18.08 | 18.07 | 18.12 |
| R95 | 479240.1 | 264525.9 | 0 | 17.85 | 17.87 | 17.9 | 17.88 |
| R96 | 479618.8 | 261551.6 | 0 | 21.16 | 21.21 | 21.15 | 21.2 |
| R97 | 479319.8 | 261291.9 | 0 | 25.95 | 25.99 | 25.87 | 25.94 |
| R98 | 478379.6 | 260476.9 | 0 | 19.27 | 19.29 | 19.25 | 19.27 |

Table B3 Modelled nitrogen dioxide results for 2026 scenarios ($\mu\text{g}/\text{m}^3$)

| Receptor Name | X(m) | Y(m) | Z(m) | Scenario 8 2026 | Scenario 9 2026 | Scenario 10 2026 | Scenario 11 2026 |
|---------------|----------|----------|------|-----------------|-----------------|------------------|------------------|
| R01 | 479511.2 | 269675.2 | 0 | 12.62 | 12.79 | 12.68 | 12.93 |
| R02 | 479407.9 | 269723.7 | 0 | 12.85 | 13.02 | 12.93 | 13.20 |
| R03 | 479290.7 | 269702 | 0 | 11.95 | 12.10 | 11.99 | 12.15 |
| R04 | 479159.4 | 269626.8 | 0 | 11.20 | 11.35 | 11.20 | 11.26 |
| R05 | 478759.9 | 269138.2 | 0 | 11.88 | 12.11 | 11.87 | 11.96 |
| R06 | 478291.5 | 268272.5 | 0 | 11.44 | 11.53 | 11.44 | 11.48 |
| R07 | 478459.2 | 266699.2 | 0 | 14.17 | 14.31 | 14.14 | 14.15 |
| R08 | 481301.7 | 269276.8 | 0 | 14.47 | 14.50 | 14.48 | 14.63 |
| R09 | 480782.4 | 268659.8 | 0 | 14.65 | 14.82 | 14.69 | 14.96 |
| R10 | 480740.2 | 268605.3 | 0 | 13.27 | 13.39 | 13.25 | 13.43 |
| R11 | 481138.7 | 268279.3 | 0 | 14.15 | 14.26 | 14.20 | 14.33 |
| R12 | 480285 | 267841.2 | 0 | 14.80 | 15.07 | 15.85 | 16.13 |
| R13 | 480147.3 | 267686.7 | 0 | 14.75 | 14.98 | 16.03 | 16.26 |
| R14 | 482023.7 | 267333.5 | 0 | 14.45 | 14.51 | 14.39 | 14.47 |
| R15 | 481658.9 | 267002.3 | 0 | 16.03 | 16.09 | 15.89 | 15.97 |
| R16 | 481024.3 | 266623.6 | 0 | 25.09 | 25.22 | 24.80 | 24.98 |
| R17 | 480412.7 | 266302.5 | 0 | 14.27 | 14.36 | 14.04 | 14.15 |
| R18 | 479121.6 | 266255.7 | 0 | 18.99 | 19.29 | 19.00 | 19.15 |
| R19 | 479000.4 | 266291.3 | 0 | 17.59 | 17.83 | 17.52 | 17.63 |
| R20 | 478911.1 | 266176.2 | 0 | 16.28 | 16.30 | 16.17 | 16.31 |
| R21 | 478881.2 | 266269.7 | 0 | 17.64 | 17.84 | 17.59 | 17.83 |
| R22 | 478684.2 | 266257.6 | 0 | 17.39 | 17.55 | 17.18 | 17.43 |
| R23 | 478558.8 | 266252.9 | 0 | 16.52 | 16.71 | 16.43 | 16.62 |
| R24 | 478534.5 | 266271.6 | 0 | 16.95 | 17.26 | 16.93 | 17.15 |
| R25 | 478490.1 | 266428.3 | 0 | 15.35 | 15.58 | 15.30 | 15.33 |
| R26 | 478424.6 | 266226.2 | 0 | 16.88 | 17.15 | 16.93 | 17.16 |
| R27 | 478300.2 | 266200.5 | 0 | 15.02 | 15.08 | 15.12 | 15.18 |
| R28 | 478339.9 | 266104.6 | 0 | 17.72 | 17.97 | 18.15 | 18.31 |
| R29 | 478324.5 | 266025.1 | 0 | 16.54 | 16.66 | 16.83 | 16.91 |
| R30 | 478297.8 | 265809.4 | 0 | 16.91 | 17.08 | 17.23 | 17.34 |
| R31 | 478174 | 265559.4 | 0 | 16.65 | 16.75 | 16.89 | 16.96 |
| R32 | 478077 | 265335.3 | 0 | 17.04 | 17.19 | 17.33 | 17.42 |
| R33 | 477949.4 | 265020.2 | 0 | 16.23 | 16.31 | 16.40 | 16.46 |
| R34 | 479460.3 | 266674.6 | 0 | 20.92 | 21.22 | 22.24 | 22.49 |
| R35 | 479448.9 | 266618.9 | 0 | 23.50 | 23.93 | 25.23 | 25.57 |
| R36 | 479394.8 | 266493.9 | 0 | 23.85 | 24.17 | 24.99 | 25.23 |
| R37 | 479341.5 | 266338.2 | 0 | 24.74 | 25.05 | 24.90 | 25.06 |
| R38 | 479332.7 | 266201.9 | 0 | 25.59 | 26.14 | 23.07 | 23.23 |

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|-----|----------|----------|---|-------|-------|-------|-------|
| R39 | 479291 | 266222.7 | 0 | 23.13 | 23.56 | 21.77 | 21.90 |
| R40 | 479218.8 | 266078.6 | 0 | 22.16 | 22.72 | 19.26 | 19.38 |
| R41 | 479203.7 | 265946.8 | 0 | 21.52 | 21.97 | 18.99 | 19.11 |
| R42 | 479118.9 | 265874.9 | 0 | 20.06 | 20.36 | 18.22 | 18.37 |
| R43 | 479212.3 | 265849.7 | 0 | 20.52 | 20.72 | 19.13 | 19.27 |
| R44 | 479061.3 | 265975.9 | 0 | 17.90 | 17.93 | 17.60 | 17.74 |
| R45 | 479140.1 | 265770.3 | 0 | 20.70 | 21.04 | 18.54 | 18.66 |
| R46 | 479041.3 | 265584.5 | 0 | 21.07 | 21.49 | 18.24 | 18.37 |
| R47 | 478960.4 | 265372.5 | 0 | 19.21 | 19.47 | 22.36 | 23.05 |
| R48 | 478838.2 | 265235.9 | 0 | 17.86 | 18.02 | 18.03 | 18.26 |
| R49 | 478721.8 | 265038.6 | 0 | 17.02 | 17.09 | 17.21 | 17.33 |
| R50 | 478764.2 | 265029.3 | 0 | 17.36 | 17.45 | 17.70 | 17.87 |
| R51 | 478548 | 264664.7 | 0 | 16.96 | 16.97 | 17.02 | 17.08 |
| R52 | 478363.2 | 264370.3 | 0 | 18.67 | 18.76 | 18.75 | 18.85 |
| R53 | 478332.1 | 264260.7 | 0 | 18.60 | 18.69 | 18.64 | 18.72 |
| R54 | 478165.8 | 264116.6 | 0 | 20.07 | 20.16 | 20.05 | 20.13 |
| R55 | 477796.7 | 263877 | 0 | 17.18 | 17.23 | 17.17 | 17.21 |
| R56 | 477577.4 | 263616.5 | 0 | 19.68 | 19.78 | 19.62 | 19.72 |
| R57 | 477307.3 | 263189.2 | 0 | 19.36 | 19.42 | 19.32 | 19.37 |
| R58 | 477166.1 | 262750.7 | 0 | 18.49 | 18.62 | 18.46 | 18.58 |
| R59 | 477066.7 | 262760.4 | 0 | 17.98 | 18.04 | 17.95 | 18.00 |
| R60 | 476904.7 | 262412.2 | 0 | 17.38 | 17.42 | 17.45 | 17.48 |
| R61 | 476254.3 | 261133.6 | 0 | 17.72 | 17.77 | 17.83 | 17.85 |
| R62 | 477172.8 | 262476.1 | 0 | 16.96 | 17.02 | 16.99 | 17.04 |
| R63 | 477049.7 | 261178.6 | 0 | 17.95 | 18.01 | 17.94 | 18.01 |
| R64 | 476614.3 | 260962 | 0 | 18.02 | 18.09 | 18.03 | 18.10 |
| R65 | 477327.8 | 261899.7 | 0 | 18.54 | 18.63 | 18.60 | 18.70 |
| R66 | 478820.8 | 264414.6 | 0 | 18.64 | 18.81 | 18.65 | 18.82 |
| R67 | 478635 | 264304.2 | 0 | 17.02 | 17.04 | 17.06 | 17.08 |
| R68 | 478550.9 | 264050.8 | 0 | 16.53 | 16.61 | 16.48 | 16.59 |
| R69 | 478882.2 | 264130.6 | 0 | 17.80 | 17.84 | 17.79 | 17.84 |
| R70 | 478880.9 | 264436.6 | 0 | 20.42 | 20.57 | 20.43 | 20.59 |
| R71 | 479031.8 | 263814.1 | 0 | 20.47 | 20.62 | 20.52 | 20.66 |
| R72 | 479107.9 | 263368.1 | 0 | 19.64 | 19.59 | 19.66 | 19.63 |
| R73 | 479225.7 | 263178 | 0 | 22.79 | 22.70 | 22.82 | 22.76 |
| R74 | 479509 | 262470.8 | 0 | 18.26 | 18.29 | 18.36 | 18.38 |
| R75 | 478957 | 262280 | 0 | 16.84 | 16.93 | 17.01 | 17.10 |
| R76 | 478559.5 | 262110.1 | 0 | 18.12 | 18.23 | 18.58 | 18.66 |
| R77 | 479626.2 | 261986.4 | 0 | 18.15 | 18.22 | 18.15 | 18.18 |
| R78 | 479531 | 261856.8 | 0 | 20.38 | 20.41 | 20.36 | 20.39 |
| R79 | 479922.9 | 262332.3 | 0 | 16.79 | 16.85 | 16.81 | 16.85 |
| R80 | 480064.7 | 262191.2 | 0 | 16.10 | 16.14 | 16.11 | 16.13 |
| R81 | 481315.2 | 262869 | 0 | 17.58 | 17.63 | 17.54 | 17.59 |
| R82 | 481197.6 | 263250.3 | 0 | 17.36 | 17.40 | 17.38 | 17.42 |
| R83 | 481228.5 | 263407.8 | 0 | 18.28 | 18.39 | 18.27 | 18.38 |
| R84 | 481166 | 264173.3 | 0 | 17.10 | 17.17 | 17.10 | 17.17 |
| R85 | 481003.2 | 264535 | 0 | 16.84 | 16.92 | 16.83 | 16.91 |
| R86 | 480346.1 | 264532 | 0 | 16.35 | 16.39 | 16.37 | 16.40 |
| R87 | 480045.5 | 264533.5 | 0 | 16.68 | 16.74 | 16.75 | 16.79 |
| R88 | 479935.5 | 264169.5 | 0 | 15.73 | 15.76 | 15.75 | 15.77 |
| R89 | 480474.3 | 263107.8 | 0 | 15.91 | 15.95 | 15.96 | 15.99 |
| R90 | 480301.8 | 263403.1 | 0 | 15.26 | 15.31 | 15.27 | 15.32 |

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|-----|----------|----------|---|-------|-------|-------|-------|
| R91 | 480810.7 | 263296 | 0 | 17.35 | 17.38 | 17.41 | 17.44 |
| R92 | 479659.9 | 263232.5 | 0 | 16.18 | 16.20 | 16.20 | 16.22 |
| R93 | 479719.8 | 263194.8 | 0 | 16.31 | 16.34 | 16.35 | 16.38 |
| R94 | 479499.7 | 264158.4 | 0 | 16.94 | 16.97 | 16.97 | 17.01 |
| R95 | 479240.1 | 264525.9 | 0 | 16.56 | 16.53 | 16.60 | 16.57 |
| R96 | 479618.8 | 261551.6 | 0 | 18.73 | 18.78 | 18.74 | 18.78 |
| R97 | 479319.8 | 261291.9 | 0 | 22.37 | 22.42 | 22.32 | 22.36 |
| R98 | 478379.6 | 260476.9 | 0 | 17.70 | 17.72 | 17.69 | 17.71 |