



The Sizewell C Project

6.14 Environmental Statement Addendum
Volume 3: Environmental Statement Addendum Appendices
Chapter 6 Sizewell Link Road
Appendix 6.4.A Air Quality

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SIZEWELL C PROJECT – ENVIRONMENTAL STATEMENT
ADDENDUM

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APPENDIX 6.4.A SIZEWELL LINK ROAD AIR QUALITY BASELINE

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APPENDIX 6.4.A: SIZEWELL LINK ROAD AIR QUALITY BASELINE

A.1. Current baseline

Table 6.4.A.1: NO₂, PM₁₀ and PM_{2.5} Concentrations for the Baseline Year 2018 at Nearby Sensitive Receptors

| Receptor | 2018 NO ₂ Concentration (µg/m ³) | 2018 PM ₁₀ Concentration (µg/m ³) | 2018 PM _{2.5} Concentration (µg/m ³) |
|----------|---|--|---|
| SX1 | 11.4 | 16.0 | 9.6 |
| YX4 | 11.4 | 16.8 | 9.8 |
| YX5 | 6.9 | 15.6 | 9.2 |
| YX6 | 10.1 | 15.3 | 9.3 |
| YX7 | 8.1 | 14.9 | 9.1 |
| YX9 | 7.6 | 16.3 | 9.5 |
| LE4 | 6.9 | 15.4 | 9.2 |
| LE5 | 9.0 | 15.7 | 9.4 |
| LE6 | 10.5 | 15.9 | 9.5 |
| LE27 | 6.8 | 15.0 | 9.1 |
| LE28 | 7.3 | 15.0 | 9.1 |

*All values have been rounded to the nearest decimal place.

* Receptor locations are presented in **Figure 5.1** of **Volume 6** in the **ES** (Doc Ref. 6.7) [APP-456].

A.2. Future Baseline

Table 6.4.A.2: NO₂, PM₁₀ and PM_{2.5} Concentrations for the Baseline Year 2023 at Nearby Sensitive Receptors

| Receptor | 2023 NO ₂ Concentration (µg/m ³) | 2023 PM ₁₀ Concentration (µg/m ³) | 2023 PM _{2.5} Concentration (µg/m ³) |
|----------|---|--|---|
| SX1 | 8.6 | 15.0 | 8.8 |
| YX4 | 8.6 | 15.7 | 8.9 |
| YX5 | 5.9 | 14.6 | 8.4 |
| YX6 | 8.0 | 14.3 | 8.5 |
| YX7 | 6.7 | 13.9 | 8.3 |
| YX9 | 6.3 | 15.3 | 8.7 |
| LE4 | 5.9 | 14.4 | 8.3 |
| LE5 | 7.3 | 14.7 | 8.5 |

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| Receptor | 2023 NO ₂ Concentration (µg/m ³) | 2023 PM ₁₀ Concentration (µg/m ³) | 2023 PM _{2.5} Concentration (µg/m ³) |
|----------|---|--|---|
| LE6 | 8.3 | 14.9 | 8.7 |
| LE27 | 5.8 | 14.0 | 8.2 |
| LE28 | 6.2 | 14.0 | 8.2 |

*All values have been rounded to the nearest decimal place.

* Receptor locations are presented in **Figure 5.1** of **Volume 6** in the **ES** (Doc Ref. 6.7) [APP-456].

Table 6.4.A.3: NO₂, PM₁₀ and PM_{2.5} Concentrations for the Baseline Year 2028 at Nearby Sensitive Receptors

| Receptor | 2028 NO ₂ Concentration (µg/m ³) | 2028 PM ₁₀ Concentration (µg/m ³) | 2028 PM _{2.5} Concentration (µg/m ³) |
|----------|---|--|---|
| SX1 | 6.9 | 14.6 | 8.5 |
| YX4 | 6.8 | 15.4 | 8.7 |
| YX5 | 5.2 | 14.3 | 8.1 |
| YX6 | 6.5 | 14.0 | 8.2 |
| YX7 | 5.7 | 13.6 | 8.0 |
| YX9 | 5.5 | 14.9 | 8.4 |
| LE4 | 5.2 | 14.0 | 8.1 |
| LE5 | 6.1 | 14.3 | 8.2 |
| LE6 | 6.6 | 14.5 | 8.4 |
| LE27 | 5.2 | 13.7 | 8.0 |
| LE28 | 5.4 | 13.7 | 8.0 |

*All values have been rounded to the nearest decimal place.

* Receptor locations are presented in **Figure 5.1** of **Volume 6** in the **ES** (Doc Ref. 6.7) [APP-456].

Table 6.4.A.4: NO₂, PM₁₀ and PM_{2.5} Concentrations for the Baseline Year 2034 at Nearby Sensitive Receptors

| Receptor | 2034 NO ₂ Concentration (µg/m ³) | 2034 PM ₁₀ Concentration (µg/m ³) | 2034 PM _{2.5} Concentration (µg/m ³) |
|----------|---|--|---|
| SX1 | 6.5 | 14.7 | 8.5 |
| YX4 | 6.5 | 15.4 | 8.7 |
| YX5 | 5.3 | 14.3 | 8.1 |
| YX6 | 6.4 | 14.0 | 8.2 |
| YX7 | 5.7 | 13.6 | 8.0 |
| YX9 | 5.4 | 14.9 | 8.4 |
| LE4 | 5.2 | 14.0 | 8.1 |

| Receptor | 2034 NO ₂ Concentration (µg/m ³) | 2034 PM ₁₀ Concentration (µg/m ³) | 2034 PM _{2.5} Concentration (µg/m ³) |
|----------|---|--|---|
| LE5 | 5.9 | 14.3 | 8.3 |
| LE6 | 6.4 | 14.6 | 8.4 |
| LE27 | 5.2 | 13.7 | 8.0 |
| LE28 | 5.4 | 13.7 | 8.0 |

*All values have been rounded to the nearest decimal place.

* Receptor locations are presented in **Figure 5.1** of **Volume 6** in the **ES** (Doc Ref. 6.7) [APP-456].



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APPENDIX 6.4.B RECEPTORS WITH A CHANGE IN MAGNITUDE OF
CHANGE DESCRIPTORS

APPENDIX 6.4.B: RECEPTORS WITH A CHANGE IN MAGNITUDE OF CHANGE DESCRIPTORS

Table 6.4.B.1: Pollutant Concentrations with a Change in Magnitude of Change Descriptor for Construction Phase Year 2023 Compared to the ES Assessment

| Receptor | 2023 average day | | Magnitude of Change Descriptor (Descriptor presented in ES in brackets) | Effect Descriptor (Descriptor presented in ES in brackets) |
|-------------------------|--|--|---|--|
| | Concentration ($\mu\text{g}/\text{m}^3$) | Magnitude of Change ($\mu\text{g}/\text{m}^3$) | | |
| NO₂ | | | | |
| YX6 | 8.7 | 0.7 | Very Low (Low) | Negligible (Negligible) |
| YX7 | 7.1 | 0.4 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE5 | 7.7 | 0.4 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE6 | 8.9 | 0.6 | Very Low (Low) | Negligible (Negligible) |
| PM_{2.5} | | | | |
| YX6 | 8.6 | 0.1 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE6 | 8.8 | 0.1 | Imperceptible (Very Low) | Negligible (Negligible) |

*All values have been rounded to the nearest decimal place.

Table 6.4.B.2: Pollutant Concentrations with a Change in Magnitude of Change Descriptor for Operation of the Proposed Development During the Operational Year 2028 Average Day Compared to the ES Assessment

| Receptor | 2028 Average Day | | Magnitude of Change Descriptor (Descriptor presented in ES in brackets) | Effect Descriptor (Descriptor presented in ES in brackets) |
|-----------------------|--|--|---|--|
| | Concentration ($\mu\text{g}/\text{m}^3$) | Magnitude of Change ($\mu\text{g}/\text{m}^3$) | | |
| NO₂ | | | | |
| YX5 | 6.4 | 1.2 | Low (Imperceptible) | Negligible (Negligible) |
| YX7 | 6.9 | 1.2 | Low (Very Low) | Negligible (Negligible) |
| YX9 | 6.2 | 0.8 | Very Low (Imperceptible) | Negligible (Negligible) |

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| Receptor | 2028 Average Day | | Magnitude of Change Descriptor (Descriptor presented in ES in brackets) | Effect Descriptor (Descriptor presented in ES in brackets) |
|-------------------------|--|--|---|--|
| | Concentration ($\mu\text{g}/\text{m}^3$) | Magnitude of Change ($\mu\text{g}/\text{m}^3$) | | |
| LE4 | 5.7 | 0.5 | Very Low (Imperceptible) | Negligible (Negligible) |
| LE6 | 5.9 | -0.8 | Very Low (Low) | Negligible (Negligible) |
| LE28 | 6.6 | 1.2 | Low (Imperceptible) | Negligible (Negligible) |
| PM₁₀ | | | | |
| LE6 | 14.1 | -0.5 | Very Low (Imperceptible) | Negligible (Negligible) |
| PM_{2.5} | | | | |
| LE5 | 8.1 | -0.1 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE6 | 8.1 | -0.3 | Imperceptible (Low) | Negligible (Negligible) |

*All values have been rounded to the nearest decimal place.

Table 6.4.B.3: Pollutant Concentrations with a Change in Magnitude of Change Descriptor for Operation of the Proposed Development During the Operational Year 2028 Busiest Day Compared to the ES Assessment

| Receptor | 2028 Busiest Day | | Magnitude of Change Descriptor (Descriptor presented in ES in brackets) | Effect Descriptor (Descriptor presented in ES in brackets) |
|-----------------------|--|--|---|--|
| | Concentration ($\mu\text{g}/\text{m}^3$) | Magnitude of Change ($\mu\text{g}/\text{m}^3$) | | |
| NO₂ | | | | |
| YX5 | 6.6 | 1.4 | Low (Imperceptible) | Negligible (Negligible) |
| YX7 | 7.2 | 1.5 | Low (Very Low) | Negligible (Negligible) |
| YX9 | 6.4 | 0.9 | Low (Imperceptible) | Negligible (Negligible) |
| LE4 | 5.8 | 0.6 | Very Low (Imperceptible) | Negligible (Negligible) |
| LE5 | 6.1 | Less than 0.1 | Imperceptible (Low) | Negligible (Negligible) |
| LE6 | 6.0 | -0.6 | Very Low (Low) | Negligible (Negligible) |

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| Receptor | 2028 Busiest Day | | Magnitude of Change Descriptor (Descriptor presented in ES in brackets) | Effect Descriptor (Descriptor presented in ES in brackets) |
|-------------------------|--|--|---|--|
| | Concentration ($\mu\text{g}/\text{m}^3$) | Magnitude of Change ($\mu\text{g}/\text{m}^3$) | | |
| LE28 | 6.8 | 1.4 | Low (Imperceptible) | Negligible (Negligible) |
| PM₁₀ | | | | |
| LE6 | 14.1 | -0.5 | Very Low (Imperceptible) | Negligible (Negligible) |
| PM_{2.5} | | | | |
| LE5 | 8.1 | -0.1 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE6 | 8.1 | -0.3 | Imperceptible (Low) | Negligible (Negligible) |

*All values have been rounded to the nearest decimal place.

Table 6.4.B.4: Pollutant Concentrations with a Change in Magnitude of Change Descriptor for Operation of the Proposed Development During the Operational Year 2034 Compared to the ES Assessment

| Receptor | 2034 Busiest Day | | Magnitude of Change Descriptor (Descriptor presented in ES in brackets) | Effect Descriptor (Descriptor presented in ES in brackets) |
|-------------------------|--|--|---|--|
| | Concentration ($\mu\text{g}/\text{m}^3$) | Magnitude of Change ($\mu\text{g}/\text{m}^3$) | | |
| NO₂ | | | | |
| YX7 | 5.7 | Less than 0.1 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE5 | 5.5 | -0.5 | Very Low (Low) | Negligible (Negligible) |
| PM₁₀ | | | | |
| LE6 | 14.1 | -0.5 | Very Low (Imperceptible) | Negligible (Negligible) |
| PM_{2.5} | | | | |
| LE5 | 8.1 | -0.2 | Imperceptible (Very Low) | Negligible (Negligible) |
| LE6 | 8.1 | -0.3 | Imperceptible (Low) | Negligible (Negligible) |

*All values have been rounded to the nearest decimal place.