

APPENDIX F – SUMMARY OF EPUK SIGNIFICANCE CRITERIA

The following criteria relate to changes in annual mean NO₂/PM₁₀ concentrations and 24-hour mean PM₁₀ concentrations resulting from the development.

ANNUAL MEAN NO₂ AND PM₁₀ CONCENTRATIONS

Significance Criteria	Definition
Neutral	The development causes no change in concentrations.
Negligible Impact	The development gives rise to a IMPERCEPTIBLE change in concentrations or; The development gives rise to a SMALL change in concentrations and predicted concentrations are below 36µg/m ³ ; or The development gives rise to a MEDIUM change in concentrations and predicted concentrations are below 30µg/m ³ .
A Slight Adverse Impact	The development gives rise to a SMALL increase in concentrations and predicted concentrations with the development in place are above 36µg/m ³ ; or The development gives rise to a MEDIUM increase in concentrations and predicted concentrations with the development in place are between 30-36µg/m ³ ; or The development gives rise to a LARGE increase in concentrations and predicted concentrations with the development in place are less than 36µg/m ³ .
A Moderate Adverse Impact	The development gives rise to a MEDIUM increase in concentrations and predicted concentrations with the development in place are above 36µg/m ³ ; or The development gives rise to a LARGE increase in concentrations and predicted concentrations with the development in place are between 36-40µg/m ³ .
A Substantial Adverse Impact	The development gives rise to a LARGE increase in concentrations and predicted concentrations with the development in place exceed the objective level of 40µg/m ³ .
A Slight Beneficial Impact	The development gives rise to a SMALL decrease in concentrations and predicted concentrations without the development in place are above 36µg/m ³ ; or The development gives rise to a MEDIUM decrease in concentrations and predicted concentrations without the development in place are between 30-36µg/m ³ ; or The development gives rise to a LARGE decrease in concentrations and predicted concentrations without the development in place are less than 36µg/m ³ .
A Moderate Beneficial Impact	The development gives rise to a MEDIUM decrease in concentrations and predicted concentrations without the development in place are above 36µg/m ³ ; or The development gives rise to a LARGE decrease in concentrations and predicted concentrations without the development in place are between 36-40µg/m ³ .
A Substantial Beneficial Impact	The development gives rise to a LARGE decrease in concentrations and predicted concentrations without the development in place exceed the objective level of 40µg/m ³ .

Where the magnitude of change in concentration for annual mean NO₂ and PM₁₀ has been defined as follows:

An IMPERCEPTIBLE change is a change of <0.4µg/m³;

A SMALL change is a change of less than 0.4 – 2µg/m³;

A MEDIUM change is a change of 2 - 4µg/m³; and

A LARGE change is a change of > 4µg/m³.

DAILY MEAN PM₁₀ CONCENTRATIONS

Significance Criteria	Definition
Neutral	The development causes no change in the number of days of exceedence.
Negligible Impact	The development gives rise to a IMPERCEPTIBLE change in the number of days of exceedence; or The development gives rise to a SMALL change and the predicted number of days of exceedence is below 32 days; or The development gives rise to a MEDIUM change and the predicted number of days of exceedence is below 26 days.
A Slight Adverse Impact	The development gives rise to a SMALL increase and the predicted number of days of exceedence is above 32 days; or The development gives rise to a MEDIUM increase and the predicted number of days of exceedence is between 26 and 32 days; or The development gives rise to a LARGE increase and the predicted number of days of exceedence is below 32 days.
A Moderate Adverse Impact	The development gives rise to a MEDIUM increase and the predicted number of days of exceedence is above 32 days; or The development gives rise to a LARGE increase and the predicted number of days of exceedence is between 32 and 35 days.
A Substantial Adverse Impact	The development gives rise to a LARGE increase and the number of days of exceedence with the development in place is above 35 days.
A Slight Beneficial Impact	The development gives rise to a SMALL decrease and the predicted number of days of exceedence without the development is above 32 days; or The development gives rise to a MEDIUM decrease and the predicted number of days of exceedence without the development is between 26 and 32 days; or The development gives rise to a LARGE decrease and the predicted number of days of exceedence without the development is between 32 and 35 days.
A Moderate Beneficial Impact	The development gives rise to a MEDIUM decrease and the predicted number of days of exceedence without the development is above 32 days; or The development gives rise to a LARGE decrease and the predicted number of days of exceedence without the development is between 32 and 35 days.
A Substantial Beneficial Impact	The development gives rise to a LARGE decrease and the number of days of exceedence without the development in place is above 35 days.

Where the magnitude of change is defined as the number of days of exceedence of a daily mean PM₁₀ concentration of 50µg/m³:

An IMPERCEPTIBLE change is a change of < 1 day;

A SMALL change is a change of 1- 2 days;

A MEDIUM change is a change of 2 - 4 days; and

A LARGE change is a change of > 4 days.