Appendix 8.2

Transport Infrastructure Ireland Significant Criteria

8.2 Transport Infrastructure Ireland Significance Criteria

Table A8.2.1: Definition of Impact Magnitude for Changes in Ambient Pollutant Concentrations

Magnitude of Change	Annual Mean NO ₂ / PM ₁₀	No. days with PM_{10} concentration > 50 $\mu g/m^3$	Annual Mean PM _{2.5}
Large	Increase / decrease ≥4 µg/m³	Increase / decrease >4 days	Increase / decrease ≥ 2.5 μ g/m ³
Medium	Increase / decrease 2 - <4 µg/m ³	Increase / decrease 3 or 4 days	Increase / decrease $1.25 - \langle 2.5 \mu g/m^3 \rangle$
Small	Increase / decrease 0.4 - <2 µg/m³	Increase / decrease 1 or 2 days	Increase / decrease $0.25 - < 1.25 \mu g/m^3$
Imperceptible	Increase / decrease <0.4 µg/m³	Increase / decrease <1 day	Increase / decrease <0.25 µg/m³

Table A8.2.2: Air Quality Impact Significance Criteria For Annual Mean NO_2 and PM_{10} and $PM_{2.5}$ Concentrations at a Receptor

Absolute Concentration	Change in Concentration Note 1			
in Relation to Objective / Limit Value	Small	Medium	Large	
	Increase with	n Scheme		
Above Objective/Limit Value With Scheme (≥35 days)	Slight Adverse	Moderate Adverse	Substantial Adverse	
Just Below Objective/Limit Value With Scheme (32 - <35 days)	Slight Adverse	Moderate Adverse	Moderate Adverse	
Below Objective/Limit Value With Scheme (26 - <32 days)	Negligible	Slight Adverse	Slight Adverse	
Well Below Objective/Limit Value With Scheme (<26 days)	Negligible	Negligible	Slight Adverse	
Decrease with Scheme				

Absolute Concentration	Change in Concentration Note 1			
in Relation to Objective / Limit Value	Small	Medium	Large	
Above Objective/Limit Value With Scheme (≥35 days)	Slight Beneficial	Moderate Beneficial	Substantial Beneficial	
Just Below Objective/Limit Value With Scheme (32 - <35 days)	Slight Beneficial	Moderate Beneficial	Moderate Beneficial	
Below Objective/Limit Value With Scheme (26 - <32 days)	Negligible	Slight Beneficial	Slight Beneficial	
Well Below Objective/Limit Value With Scheme (<26 days)	Negligible	Negligible	Slight Beneficial	

Note 1 Well Below Standard = <75% of limit value.

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Absolute Concentration	Change in Concentration Note 1			
in Relation to Objective / Limit Value	Small	Medium	Large	
	Increase with	h Scheme		
Above Objective/Limit Value With Scheme (≥35 days)	Slight Adverse	Moderate Adverse	Substantial Adverse	
Just Below Objective/Limit Value With Scheme (32 - <35 days)	Slight Adverse	Moderate Adverse	Moderate Adverse	
Below Objective/Limit Value With Scheme (26 - <32 days)	Negligible	Slight Adverse	Slight Adverse	
Well Below Objective/Limit Value With Scheme (<26 days)	Negligible	Negligible	Slight Adverse	
Decrease with Scheme				

Absolute Concentration	Change in Concentration Note 1			
in Relation to Objective / Limit Value	Small	Medium	Large	
Above Objective/Limit Value With Scheme (≥35 days)	Slight Beneficial	Moderate Beneficial	Substantial Beneficial	
Just Below Objective/Limit Value With Scheme (32 - <35 days)	Slight Beneficial	Moderate Beneficial	Moderate Beneficial	
Below Objective/Limit Value With Scheme (26 - <32 days)	Negligible	Slight Beneficial	Slight Beneficial	
Well Below Objective/Limit Value With Scheme (<26 days)	Negligible	Negligible	Slight Beneficial	