



TECHNICAL NOTE 2

DATE:	04 November 2022	CONFIDENTIALITY:	Public
SUBJECT:	Virtus London 9 and London 11 – Supplementary Information on Acid Deposition		
PROJECT:	70092911 / 70091311	AUTHOR:	Bethan Tuckett-Jones

INTRODUCTION

This document provides the additional information requested by email (14 October 2022, Kirstie Lythgo) in support of the Air Quality Assessments for the Virtus London 9 and Virtus London 11 data centres, prepared by WSP (October 2022) in relation to acid deposition

Acid deposition was not reported in the Air Quality Assessments since it can readily be screened as negligible. Notwithstanding this, the impacts are quantified below.

All impacts on acid deposition are insignificant, as they were for nitrogen deposition. The latter were shown in Table 9-1 of the air quality assessments (70092911_AQ02 & 70091311_AQ01).

The data are provided for the designated sites for which critical loads for acidity are provided on APIS, and the impacts are assessed against the minimum CL_{max}N critical load..

London 9

ID	Site	Critical Load (keq/ha/yr)	Grassland Habitats		Woodland Habitats		Insignificant?
			Deposition (keq/ha/yr)	% of Critical Load	Deposition (keq/ha/yr)	% of Critical Load	
E3	Burnham Beeches SAC	2.056			0.00059	0.028%	Yes
E4	South West London Waterbodies Ramsar / SPA	1.093	0.00012	0.010%			Yes
E5	South West London Waterbodies Ramsar / SPA	1.093	0.00011	0.012%			Yes
E6	South West London Waterbodies Ramsar / SPA	1.093	0.00014	0.012%			Yes
E7	Windsor Forest & Great Park SAC	1.044			0.00025	0.024%	Yes
E8	Windsor Forest & Great Park SAC	1.044			0.00040	0.038%	Yes

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London 11

ID	Site	Critical Load (keq/ha/yr)	Grassland Habitats		Woodland Habitats		Insignificant?
			Deposition (keq/ha/yr)	% of Critical Load	Deposition (keq/ha/yr)	% of Critical Load	
E3	Burnham Beeches SAC	2.056			2.33E-03	0.113%	Yes
E4	South West London Waterbodies Ramsar / SPA	1.093	4.93E-04	0.045%			Yes
E5	South West London Waterbodies Ramsar / SPA	1.093	4.39E-04	0.040%			Yes
E6	South West London Waterbodies Ramsar / SPA	1.093	5.55E-04	0.051%			Yes
E7	Windsor Forest & Great Park SAC	1.044			9.45E-04	0.091%	Yes
E8	Windsor Forest & Great Park SAC	1.044			1.65E-03	0.158%	Yes