



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

9.17 ExA.WQ1R.D3.V1 – Appendix AQ.1.2 to Applicant's comments on responses to the Examining Authority's Written Questions ExQ1

Author: CH2M

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NO_x Concentration (µg m⁻³)

Avon Gorge SAC/SSSI Receptor	Distance from the source* (m)	NO _x Concentration (µg m ⁻³)					PC/AQO (%)
		2015 Base Year	2021 DM	2021 DS	Scheme Contribution (PC)	Critical Level (AQO)	
R34 (Transect 1)	25	32.2	24.3	24.2	-0.10	30.0	-0.3
R35 (Transect 1)	59	24.6	18.1	18.1	0.00	30.0	0.0
R36 (Transect 1)	110	20.9	15.8	15.8	0.00	30.0	0.0
R37 (Transect 1)	158	19.8	15.0	15.0	0.00	30.0	0.0
R38 (Transect 1)	210	19.2	14.7	14.7	0.00	30.0	0.0
R39 (Transect 2)	193	25.8	19.3	19.4	0.10	30.0	0.3
R40 (Transect 2)	150	26.2	19.5	19.6	0.10	30.0	0.3
R41 (Transect 2)	100	26.4	19.7	19.8	0.10	30.0	0.3
R42 (Transect 2)	49	27	20.0	20.2	0.20	30.0	0.7
R43 (Transect 2)	19	27.6	20.5	20.8	0.30	30.0	1.0

*Distance measured from A369 for R34 to R38 and from the railway corridor for R39 to R43.

Avon Gorge SAC/SSSI Receptor	Distance from the DCO Scheme* (m)	Nitrogen Deposition (N kg ha ⁻¹ yr ⁻¹)			Scheme Contribution (PC)	Minimum Critical Load (CL)**	PC/CL (%)
		Baseline**	2021 DM	2021 DS			
R34 (Transect 1)	25	29.7	28.6	28.6	0.0	15.0	0.0
R35 (Transect 1)	59	29.7	28.8	28.8	0.0	15.0	0.0
R36 (Transect 1)	110	29.7	28.8	28.8	0.0	15.0	0.0
R37 (Transect 1)	158	29.7	28.9	28.9	0.0	15.0	0.0
R38 (Transect 1)	210	29.7	28.9	28.9	0.0	15.0	0.0
R39 (Transect 2)	193	29.7	28.6	28.6	0.0	15.0	0.0
R40 (Transect 2)	150	29.7	28.6	28.6	0.0	15.0	0.0
R41 (Transect 2)	100	29.7	28.6	28.6	0.0	15.0	0.0
R42 (Transect 2)	49	29.7	28.6	28.6	0.0	15.0	0.0
R43 (Transect 2)	19	29.7	28.6	28.7	0.1	15.0	0.7

*Distance measured from A369 for R34 to R38 and from the railway corridor for R39 to R43.

** from APIS website

Avon Gorge SAC/SSSI Receptor	Distance from the DCO Scheme* (m)	Acid Deposition (kEqH ⁺ ha ⁻¹ yr ⁻¹)				Scheme Contribution (PC)	Minimum Critical Load (CL) **	PC/CL (%)
		Baseline**	2021 DM	2021 DS				
R34 (Transect 1)	25	2.4	2.3	2.3	0.000	1.2	0.0	
R35 (Transect 1)	59	2.4	2.3	2.3	0.000	1.2	0.0	
R36 (Transect 1)	110	2.4	2.3	2.3	0.000	1.2	0.0	
R37 (Transect 1)	158	2.4	2.3	2.3	0.000	1.2	0.0	
R38 (Transect 1)	210	2.4	2.3	2.3	0.000	1.2	0.0	
R39 (Transect 2)	193	2.4	2.3	2.3	0.000	1.2	0.0	
R40 (Transect 2)	150	2.4	2.3	2.3	0.000	1.2	0.0	
R41 (Transect 2)	100	2.4	2.3	2.3	0.000	1.2	0.0	
R42 (Transect 2)	49	2.4	2.3	2.3	0.002	1.2	0.2	
R43 (Transect 2)	19	2.4	2.3	2.3	0.004	1.2	0.3	

*Distance measured from A369 for R34 to R38 and from the railway corridor for R39 to R43.

** from APIS website