



# **Norwich Western Link**

## **Environmental Statement Chapter 13: Geology and Soils**

### **Appendix 13.2: Generic Quantitative Risk Assessment**

#### **Sub Appendix D: Groundwater Monitoring Results**

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## **Contents**

1	Introduction .....	3
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## 1 Introduction

1.1.1 WSP UK Ltd was commissioned by NCC to complete a Generic Quantitative Risk Assessment following an intrusive site investigation undertaken by a contractor. This appendix contains the results of groundwater monitoring.

1.1.2 We have included a summary of key information shown in this document in an accessible format in section 1.1.1. However, some users may not be able to access all technical details that are included in the rest of this document. If you require this document in a more accessible format, please contact [norwichwesternlink@norfolk.gov.uk](mailto:norwichwesternlink@norfolk.gov.uk)

100046 Norwich Western Link

Groundwater dips

Location	27/09/2019	02/10/2019	09/10/2019	22/10/2019	14/11/2019	27/11/2019	09/12/2019	13/01/2020	30/01/2020	19/02/2020	17/06/2020	01/07/2020	15/07/2020	29/07/2020	15/10/2020	28/10/2020	11/11/2020	25/11/2020	09/12/2020	22/12/2020	06/01/2021	20/01/2021	03/02/2021	17/03/2021	14/04/2021	28/04/2021	12/05/2021	26/05/2021	09/06/2021	23/06/2021	07/07/2021	21/07/2021	04/08/2021	
001	11.18	11.19	11.22	11.27	11.28	11.30	11.32	11.11	11.19	11.20	-	10.75	10.79	10.79	#	#	11.92	10.93	10.91	10.97	11.40	11.50	11.43	10.21	10.30	10.23	10.15	10.05	10.01	10.22	10.31	10.20	10.15	
003	0.70	0.90	0.45	0.76	0.70	0.50	0.61	0.40	0.40	0.31	-	0.52	0.50	0.50	#	#	0.60	0.40	0.35	0.40	0.25	0.31	0.28	0.25	0.38	0.60	0.51	0.41	1.23	0.85	0.71	0.80	0.71	
005s	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	20.04	20.06	20.09	Dry	Dry	Dry	20.01	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	19.51	19.61	Dry	Dry	Dry	Dry	Dry	Dry	Dry
005d	-	-	-	20.60	20.40	20.50	20.36	20.20	20.23	20.21	Dry	Dry	Dry	20.09	20.03	20.52	Dry	20.05	20.01	20.11	19.97	19.96	19.95	20.11	10.90	Dry	Dry	19.70	19.70	20.05	20.01	19.95	19.81	
007	-	-	-	-	-	-	21.08	22.80	22.75	22.71	22.60	22.53	22.50	22.50	21.95	22.51	22.11	22.50	22.65	21.48	22.40	22.30	22.24	22.10	21.95	21.70	21.60	21.50	21.50	22.30	22.40	22.21	22.10	
010	-	13.33	12.90	12.48	12.48	12.51	11.85	11.15	11.13	11.11	12.52	12.46	12.51	12.51	10.50	11.87	12.46	11.75	11.90	20.36	10.60	11.11	10.90	9.67	10.68	10.95	10.90	10.95	10.50	11.70	11.60	11.20	11.10	
012	-	-	-	-	-	-	-	-	-	0.41	4.75	Dry	Dry	Dry	4.12	4.05	4.10	4.10	3.93	4.10	3.60	3.60	3.58	3.99	4.35	4.40	4.30	4.35	4.40	4.70	4.65	4.51	4.60	
013s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85	0.43	0.95	0.68	0.30	0.39	GL	GL	GL	0.29	0.60	0.87	0.65	0.81	0.83	1.10	1.01	0.99	0.99	
013d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.38	0.91	0.69	0.25	0.21	GL	GL	GL	0.20	0.62	0.70	0.80	0.70	0.80	1.05	1.00	0.95	0.96	
014s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00	GL	Above GL	Above GL					0.10	Above GL	0.20	0.35	0.35	Above GL	Above GL	Above GL	Above GL	
014d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00	Above GL	Above GL	Above GL					Above GL	Above GL	0.15	0.31	0.30	Above GL	Above GL	Above GL	Above GL	
015s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	0.11	0.30	0.19	0.16	0.20				0.19	0.41	0.51	0.60	0.68	0.60	0.80	0.85	0.88	0.88	
015d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	0.10	0.30	0.18	0.15	0.19				0.24	0.43	0.50	0.60	0.66	0.61	0.78	0.90	0.85	0.90	
016s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	0.32	0.32	0.65	0.39	0.63				0.50	0.81	0.99	1.01	0.93	0.91	0.80	1.10	0.95	0.93	
016d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69	0.32	0.32	0.66	0.40	0.60				0.46	0.80	0.95	1.02	0.95	0.90	1.30	1.20	0.90	0.90	
019s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	#	0.67	0.68	3.30	0.39	0.28	GL		0.44	0.72	0.82	0.51	0.65	0.61	1.00	0.97	1.01	0.95	
019d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70	#	0.76	0.60	0.40	0.40	0.20	GL		0.40	0.64	0.67	0.60	0.60	1.01	0.99	1.00	1.00	0.96	
020s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49	#	3.60	3.42	3.30	3.29	2.90	2.79		3.03	3.43	3.54	3.60	3.50	3.80	3.50	3.41	3.57	3.51	
020d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50	#	3.62	3.46	3.31	3.30	2.95	2.81		3.01	3.43	3.35	3.50	3.45	3.70	3.50	3.40	3.50	3.52	
021s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	1.26	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
021d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.16	10.32	10.41	9.96	9.89	10.05	9.43	9.30	0.90	1.32	9.53	1.96	10.01	10.21	10.01	9.95	9.90	9.75		
030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
101	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	-	Dry	Dry	Dry	#	#	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
102	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	-	Dry	Dry	Dry	#	#	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
103	3.21	3.31	2.91	2.90	2.83	2.91	2.75	2.52	2.40	Dry	-	2.41	2.37	2.37	#	#	2.43	2.68	2.61	Dry	Dry	Dry	2.28	#	2.16	2.60	2.65	3.00	3.01	3.08	3.33	Dry	Dry	3.30
105	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
106	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
107	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
108	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
109	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
110	-	-	-	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
112	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
113	-	-	-	-	-	-	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
114	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	-	Dry	Dry	Dry	#	#	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry

- Not present  
 # No access  
 \*All underwater  
 \*Not allowed on farm