

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 96.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	97.914	0.078	33.2	0.0878	0.0000	OK
15 minute summer	2	10	94.110	0.174	103.3	0.1969	0.0000	OK
15 minute summer	3	10	92.812	0.139	101.7	0.1576	0.0000	OK
15 minute summer	4	11	90.724	0.155	136.5	0.1749	0.0000	OK
15 minute summer	5	11	90.808	0.526	66.5	0.5951	0.0000	SURCHARGED
15 minute summer	6	11	90.280	0.669	123.6	0.7565	0.0000	SURCHARGED
15 minute summer	7	11	89.986	0.595	297.2	0.8511	0.0000	SURCHARGED
15 minute summer	8	11	89.657	0.324	327.6	0.4643	0.0000	OK
15 minute summer	9	11	89.092	0.242	410.9	0.3461	0.0000	OK
15 minute summer	10	10	87.075	0.258	467.7	0.3687	0.0000	OK
15 minute summer	11	11	84.754	0.303	534.9	0.4335	0.0000	OK
15 minute summer	12	11	83.295	0.851	598.5	1.2184	0.0000	SURCHARGED
15 minute summer	13	11	81.905	0.612	625.2	1.0809	0.0000	SURCHARGED
15 minute summer	14	11	81.394	0.337	645.3	0.5963	0.0000	OK
15 minute summer	15	12	80.216	0.457	667.0	0.8071	0.0000	OK
15 minute summer	16	12	79.730	0.799	675.6	1.4116	0.0000	SURCHARGED
15 minute summer	17	11	80.581	0.897	55.7	1.0150	0.0000	SURCHARGED
15 minute summer	18	11	80.359	0.863	99.1	0.9763	0.0000	SURCHARGED
15 minute summer	19	11	80.159	0.872	168.4	0.9859	0.0000	SURCHARGED
15 minute summer	20	12	79.191	0.901	879.2	1.5921	0.0000	SURCHARGED
15 minute summer	21	12	77.785	0.830	921.2	1.4665	0.0000	SURCHARGED
15 minute summer	22	11	76.758	0.356	1056.8	0.6287	0.0000	OK
120 minute summer	23	110	74.817	0.417	497.3	0.0000	0.0000	OK
15 minute summer	24	10	94.885	0.206	41.0	0.2329	0.0000	OK
15 minute summer	25	10	94.783	0.167	70.9	0.1883	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	32.9	1.454	0.258	1.4738	
15 minute summer	2	1.001	3	101.7	3.280	0.825	0.6622	
15 minute summer	3	1.002	4	101.3	2.976	0.432	1.6285	
15 minute summer	4	1.003	7	135.7	2.766	0.469	0.8178	
15 minute summer	5	2.000	6	64.7	1.626	0.858	1.1341	
15 minute summer	6	2.001	7	123.3	1.751	1.733	1.1923	
15 minute summer	7	1.004	8	298.7	1.972	1.867	3.2846	
15 minute summer	8	1.005	9	328.9	3.132	0.704	2.4300	
15 minute summer	9	1.006	10	411.8	4.573	0.503	2.8809	
15 minute summer	10	1.007	11	469.6	4.720	0.577	3.8936	
15 minute summer	11	1.008	12	533.2	4.049	0.653	4.3133	
15 minute summer	12	1.009	13	593.5	3.746	0.967	4.7557	
15 minute summer	13	1.010	14	623.9	3.242	0.979	2.4839	
15 minute summer	14	1.011	15	645.6	4.075	0.633	5.0062	
15 minute summer	15	1.012	16	658.0	3.689	0.636	3.8038	
15 minute summer	16	1.013	20	679.1	3.517	0.667	3.1614	
15 minute summer	17	3.000	18	50.0	1.272	1.252	0.7572	
15 minute summer	18	3.001	19	94.4	1.424	0.848	1.4661	
15 minute summer	19	3.002	20	162.1	2.302	1.060	2.8847	
15 minute summer	20	1.014	21	881.4	4.080	0.856	6.4330	
15 minute summer	21	1.015	22	922.7	4.560	0.893	2.2786	
15 minute summer	22	1.016	23	1056.0	6.977	0.693	3.0969	
120 minute summer	23	1.017	BASIN 1	497.2	5.278	0.365	4.5867	
15 minute summer	24	4.000	25	40.7	1.170	1.014	0.3666	
15 minute summer	25	4.001	26	70.7	2.339	0.787	0.5879	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	26	11	94.204	0.161	118.5	0.1819	0.0000	OK
15 minute summer	27	11	92.272	0.855	165.5	0.9672	0.0000	SURCHARGED
15 minute summer	28	11	89.670	0.175	173.4	0.1983	0.0000	OK
15 minute summer	29	11	88.415	0.179	173.3	0.2019	0.0000	OK
15 minute summer	30	11	87.242	0.171	197.3	0.1932	0.0000	OK
15 minute summer	31	11	84.375	0.220	216.8	0.2485	0.0000	OK
15 minute summer	32	11	83.577	0.251	216.2	0.2835	0.0000	OK
15 minute summer	33	11	82.870	0.200	241.0	0.2856	0.0000	OK
15 minute summer	34	11	82.000	0.205	240.8	0.2933	0.0000	OK
15 minute summer	35	11	80.605	0.177	275.2	0.2534	0.0000	OK
15 minute summer	36	10	81.831	0.256	46.9	0.2897	0.0000	SURCHARGED
15 minute summer	37	10	81.517	0.176	109.8	0.1994	0.0000	OK
15 minute summer	38	10	80.822	0.163	169.9	0.1844	0.0000	OK
15 minute summer	39	11	77.900	0.375	470.2	0.5371	0.0000	OK
15 minute summer	40	11	77.071	1.773	512.9	2.5369	0.0000	FLOOD RISK
15 minute summer	41	11	76.199	0.960	509.3	1.3741	0.0000	SURCHARGED
15 minute summer	42	11	75.443	0.308	508.5	0.5445	0.0000	OK
120 minute winter	43	112	74.714	0.314	159.2	0.0000	0.0000	OK
15 minute summer	44	10	83.127	0.077	33.2	0.0875	0.0000	OK
15 minute summer	45	11	82.387	0.381	76.1	0.4304	0.0000	SURCHARGED
15 minute summer	46	11	81.947	0.491	94.3	0.5556	0.0000	SURCHARGED
15 minute summer	47	11	81.163	0.166	115.7	0.1875	0.0000	OK
15 minute summer	48	11	80.320	0.166	175.4	0.1881	0.0000	OK
15 minute summer	49	10	78.138	0.180	197.1	0.2035	0.0000	OK
15 minute summer	50	11	76.361	0.217	229.3	0.2455	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	26	4.002	27	116.6	3.222	0.772	1.1050	
15 minute summer	27	4.003	28	158.5	4.080	1.050	0.8813	
15 minute summer	28	4.004	29	173.3	4.011	0.537	0.6528	
15 minute summer	29	4.005	30	173.1	4.070	0.537	0.5948	
15 minute summer	30	4.006	31	197.2	4.064	0.611	1.6921	
15 minute summer	31	4.007	32	216.2	3.650	0.671	0.5881	
15 minute summer	32	4.008	33	215.8	4.012	0.669	0.3709	
15 minute summer	33	4.009	34	240.8	3.974	0.415	0.6366	
15 minute summer	34	4.010	35	240.7	4.269	0.478	1.2260	
15 minute summer	35	4.011	39	275.3	4.808	0.465	2.3737	
15 minute summer	36	5.000	37	45.6	1.170	1.145	0.9918	
15 minute summer	37	5.001	38	109.4	2.707	0.562	0.9208	
15 minute summer	38	5.002	39	169.7	4.217	0.555	1.8662	
15 minute summer	39	4.012	40	468.2	2.984	0.559	5.0064	
15 minute summer	40	4.013	41	509.3	3.215	3.195	3.7971	
15 minute summer	41	4.014	42	508.5	3.210	3.173	1.8277	
15 minute summer	42	4.015	43	507.8	4.493	0.571	2.4800	
120 minute winter	43	4.016	BASIN 1	159.2	3.478	0.136	5.4380	
15 minute summer	44	6.000	45	33.1	1.472	0.256	0.4436	
15 minute summer	45	6.001	46	72.9	1.886	0.780	0.6833	
15 minute summer	46	6.002	47	94.3	2.370	1.153	0.6214	
15 minute summer	47	6.003	48	115.7	2.897	0.518	0.8428	
15 minute summer	48	6.004	49	175.7	4.184	0.545	1.1066	
15 minute summer	49	6.005	50	197.2	4.052	0.612	1.0721	
15 minute summer	50	6.006	54	228.4	4.044	0.746	1.1616	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	51	11	75.178	0.460	23.5	0.6586	0.0000	SURCHARGED
15 minute summer	52	11	75.173	0.545	45.6	0.7796	0.0000	SURCHARGED
15 minute summer	54	11	75.168	0.647	310.7	1.1434	0.0000	SURCHARGED
15 minute summer	55	11	75.028	0.551	311.4	0.9731	0.0000	SURCHARGED
15 minute summer	56	11	74.828	0.421	309.6	0.7444	0.0000	OK
120 minute winter	57	116	74.684	0.284	94.2	0.0000	0.0000	OK
120 minute winter	BASIN 1	118	74.684	2.084	595.9	1218.3650	0.0000	SURCHARGED
120 minute winter	58_OUT	118	74.684	2.084	38.1	3.6816	0.0000	OK
15 minute summer	59	10	95.556	0.101	45.0	0.1148	0.0000	OK
15 minute summer	60	10	95.005	0.100	44.9	0.1129	0.0000	OK
15 minute summer	61	10	93.430	0.147	75.9	0.1668	0.0000	OK
15 minute summer	62	10	92.397	0.151	88.9	0.1704	0.0000	OK
15 minute summer	63	10	91.198	0.163	105.0	0.1846	0.0000	OK
15 minute summer	64	10	89.939	0.168	104.5	0.1897	0.0000	OK
15 minute summer	65	11	89.051	0.175	120.6	0.1977	0.0000	OK
15 minute summer	66	11	85.655	0.170	150.1	0.1927	0.0000	OK
15 minute summer	67	11	84.827	0.186	171.7	0.2104	0.0000	OK
15 minute summer	68	11	83.938	0.210	193.5	0.2376	0.0000	OK
15 minute summer	69	10	81.889	0.189	206.8	0.2136	0.0000	OK
15 minute summer	70	12	79.850	0.300	208.7	0.3391	0.0000	OK
15 minute summer	71	11	79.143	0.993	203.7	1.1231	0.0000	FLOOD RISK
15 minute summer	72	10	82.010	0.110	57.7	0.1243	0.0000	OK
15 minute summer	73	10	80.752	0.215	53.8	0.3076	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	51	7.000	52	24.9	0.322	0.156	5.7816	
15 minute summer	52	7.001	54	51.1	0.475	0.319	2.0392	
15 minute summer	54	6.007	55	311.4	1.442	1.426	4.6231	
15 minute summer	55	6.008	56	309.6	1.483	1.420	6.8624	
15 minute summer	56	6.009	57	378.3	2.972	1.629	0.3767	
120 minute winter	57	6.010	BASIN 1	94.2	2.888	0.077	4.7764	
120 minute winter	BASIN 1	1.018	58_OUT	38.1	0.176	0.176	1.2979	
120 minute winter	BASIN 1 Infiltration			70.5				
120 minute winter	58_OUT Weir			0.0				0.0
15 minute summer	59	8.000	60	44.9	2.613	0.348	0.1548	
15 minute summer	60	8.001	61	44.6	1.997	0.410	0.8345	
15 minute summer	61	8.002	62	75.2	2.696	0.701	0.6844	
15 minute summer	62	8.003	63	88.4	2.994	0.723	0.6543	
15 minute summer	63	8.004	64	104.5	3.340	0.779	0.6016	
15 minute summer	64	8.005	65	104.3	3.234	0.767	0.4278	
15 minute summer	65	8.006	66	121.2	3.774	0.895	1.5864	
15 minute summer	66	8.007	67	150.3	3.447	0.500	0.5073	
15 minute summer	67	8.008	68	172.1	3.495	0.580	0.6388	
15 minute summer	68	8.009	69	193.7	4.009	0.743	1.8267	
15 minute summer	69	8.010	70	208.7	4.345	0.656	1.4587	
15 minute summer	70	8.011	71	203.7	3.356	0.631	1.1806	
15 minute summer	71	8.012	77	198.8	2.824	1.185	3.8051	
15 minute summer	72	9.000	74	57.4	3.121	0.428	0.3553	
15 minute summer	73	10.000	74	53.2	0.772	0.478	1.3075	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	74	10	80.715	0.237	208.3	0.3388	0.0000	OK
15 minute summer	75	10	79.997	0.157	216.1	0.2251	0.0000	OK
240 minute winter	76	236	77.712	0.712	50.5	1.0186	0.0000	SURCHARGED
240 minute winter	77	236	77.712	0.862	86.2	379.8627	0.0000	SURCHARGED
240 minute winter	77_OUT	236	77.712	0.962	1.9	1.3763	0.0000	OK
15 minute summer	78	1	99.000	0.000	0.0	0.0000	0.0000	OK
15 minute summer	79	1	97.788	0.000	0.0	0.0000	0.0000	OK
15 minute summer	80	1	96.226	0.000	0.0	0.0000	0.0000	OK
15 minute summer	81	10	95.176	0.154	114.3	0.1746	0.0000	OK
15 minute summer	82	10	92.116	0.142	135.9	0.1609	0.0000	OK
15 minute summer	83	10	91.103	0.221	176.7	0.2505	0.0000	OK
15 minute summer	84	10	91.017	0.162	87.0	0.1831	0.0000	OK
15 minute summer	85	10	90.317	0.240	307.4	0.3430	0.0000	OK
15 minute summer	86	10	89.470	0.243	329.4	0.3474	0.0000	OK
15 minute summer	87	10	88.572	0.297	373.6	0.4245	0.0000	OK
15 minute summer	88	10	93.655	0.173	74.3	0.1960	0.0000	OK
15 minute summer	89	10	92.263	0.191	144.1	0.2164	0.0000	OK
15 minute summer	90	10	90.498	0.239	234.0	0.2702	0.0000	OK
15 minute summer	91	10	88.506	0.190	304.0	0.3364	0.0000	OK
15 minute summer	92	10	87.702	0.372	711.3	0.6565	0.0000	OK
15 minute summer	93	11	86.960	0.442	731.0	0.7811	0.0000	OK
15 minute summer	94	11	86.362	0.790	747.7	1.3953	0.0000	SURCHARGED
15 minute summer	95	11	85.815	1.109	829.3	1.9593	0.0000	SURCHARGED
Link Event (Upstream Depth)	Link US Node	Link DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)	
15 minute summer	74	9.001	207.3	3.536	0.553	1.0707		
15 minute summer	75	9.002	215.4	2.396	0.377	2.7014		
240 minute winter	76	9.003	48.9	1.120	0.281	1.0949		
240 minute winter	77	8.013	1.9	0.227	0.021	5.0482		
240 minute winter	77 Infiltration	77_OUT	9.6					
240 minute winter	77_OUT Weir		0.0				0.0	
15 minute summer	78	11.000	0.0	0.000	0.000	0.0000		
15 minute summer	79	11.001	0.0	0.000	0.000	0.0000		
15 minute summer	80	11.002	0.0	0.000	0.000	0.0310		
15 minute summer	81	11.003	113.4	4.053	0.751	0.9981		
15 minute summer	82	11.004	135.7	3.038	0.421	0.5808		
15 minute summer	83	11.005	175.7	3.473	0.703	0.7357		
15 minute summer	84	12.000	86.7	3.105	0.688	0.3014		
15 minute summer	85	11.006	306.9	4.097	0.529	0.7638		
15 minute summer	86	11.007	328.6	3.877	0.566	0.9651		
15 minute summer	87	11.008	372.7	4.600	0.642	0.7696		
15 minute summer	88	13.000	72.8	2.289	0.891	1.7360		
15 minute summer	89	13.001	143.1	2.647	0.737	3.2179		
15 minute summer	90	13.002	230.7	4.110	0.843	1.6058		
15 minute summer	91	13.003	303.4	2.611	0.257	1.9590		
15 minute summer	92	11.009	708.5	4.320	0.561	2.1382		
15 minute summer	93	11.010	725.2	4.408	0.602	3.1650		
15 minute summer	94	11.011	744.5	4.415	0.530	2.2441		
15 minute summer	95	11.012	828.6	4.509	0.749	5.1908		

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15 minute summer	96	11	84.737	1.350	850.0	2.3855	0.0000	SURCHARGED
15 minute summer	97	11	83.938	1.417	897.6	2.5041	0.0000	
15 minute summer	BASIN 2	11	83.482	1.082	897.0	1.9115	0.0000	FLOOD RISK
240 minute winter	98_OUT	240	83.059	0.659	163.9	812.2952	0.0000	
120 minute summer	BASIN 3	82	95.433	0.333	19.2	21.1957	0.0000	OK
360 minute winter	BASIN 4	352	96.641	0.241	6.3	43.5607	0.0000	OK
360 minute winter	BASIN 5	352	96.172	0.272	6.9	48.7083	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	96	11.013	97	849.1	3.015	0.809	10.5218	
15 minute summer	97	11.014	BASIN 2	897.0	3.185	1.280	3.2920	
15 minute summer	BASIN 2	11.015	98_OUT	896.7	3.184	3.171	4.0733	
240 minute winter	98_OUT	Weir		0.0				0.0
240 minute winter	98_OUT	Infiltration		11.4				
120 minute summer	BASIN 3	Infiltration		4.8				
360 minute winter	BASIN 4	Infiltration		0.6				
360 minute winter	BASIN 5	Infiltration		0.7				

INGENT CONSULTING ENGINEERS			Ingent Consulting Engineers 1a Greenwood Court Bury St Edmunds IP327GY			File: Royston Strategy SA Rev-.pfd Network: Storm Network Kieran Kincaid 04/03/2025			Page 2 Royston Permeable paving and swales			
Return Period (years)		Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2		0	0	0	30	0	0	0	100	40	10	0
Node 1-8 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.54000	Safety Factor	3.0	Invert Level (m)		99.525	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.54000	Porosity	0.30	Time to half empty (mins)		9	Length (m)	65.000	Depth (m)	0.325	
Node 9-17 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.28080	Safety Factor	3.0	Invert Level (m)		99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.28080	Porosity	0.30	Time to half empty (mins)		12	Length (m)	62.000	Depth (m)	0.325	
Node 18-55 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.56880	Safety Factor	3.0	Invert Level (m)		99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.56880	Porosity	0.30	Time to half empty (mins)		5	Length (m)	189.000	Depth (m)	0.325	
Node 58-75 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.03456	Safety Factor	3.0	Invert Level (m)		99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.03456	Porosity	0.30	Time to half empty (mins)		97	Length (m)	81.000	Depth (m)	0.325	
Node 77-93 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.54000	Safety Factor	3.0	Invert Level (m)		99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.54000	Porosity	0.30	Time to half empty (mins)		6	Length (m)	100.000	Depth (m)	0.325	
Node 94-105 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.54000	Safety Factor	3.0	Invert Level (m)		99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.54000	Porosity	0.30	Time to half empty (mins)		6	Length (m)	43.000	Depth (m)	0.325	
Node ADOPTABLE ROAD 2 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.81300	Safety Factor	3.0	Invert Level (m)		99.525	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.81300	Porosity	0.30	Time to half empty (mins)		6	Length (m)	66.000	Depth (m)	0.325	
Node ADOPTABLE ROAD 3 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.27000	Safety Factor	3.0	Invert Level (m)		99.525	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.27000	Porosity	0.30	Time to half empty (mins)		17	Length (m)	70.000	Depth (m)	0.325	
Node ADOPTABLE ROAD 6 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.54000	Safety Factor	3.0	Invert Level (m)		99.525	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.54000	Porosity	0.30	Time to half empty (mins)		9	Length (m)	86.000	Depth (m)	0.325	
Node ADOPTABLE ROAD 8 Carpark Storage Structure												
Base Inf Coefficient (m/hr)		0.03456	Safety Factor	3.0	Invert Level (m)		99.525	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)		0.03456	Porosity	0.30	Time to half empty (mins)		134	Length (m)	86.000	Depth (m)	0.325	

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Node ADOPTABLE ROAD 9 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.81300	Safety Factor	3.0	Invert Level (m)	99.525	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.81300	Porosity	0.30	Time to half empty (mins)	4	Length (m)	255.000	Depth (m)	0.325	

Node 107-118 Carpark Storage Structure

Base Inf Coefficient (m/hr)	1.11600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	1.11600	Porosity	0.30	Time to half empty (mins)	3	Length (m)	52.000	Depth (m)	0.325	

Node 119-128 Carpark Storage Structure

Base Inf Coefficient (m/hr)	1.11600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	1.11600	Porosity	0.30	Time to half empty (mins)	1	Length (m)	440.000	Depth (m)	0.325	

Node 129-157 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.11600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.11600	Porosity	0.30	Time to half empty (mins)	29	Length (m)	129.000	Depth (m)	0.325	

Node 158-181 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.11600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.11600	Porosity	0.30	Time to half empty (mins)	29	Length (m)	129.000	Depth (m)	0.325	

Node 182-195 Carpark Storage Structure

Base Inf Coefficient (m/hr)	3.09600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	3.09600	Porosity	0.30	Time to half empty (mins)	1	Length (m)	93.000	Depth (m)	0.325	

Node 196-221 Carpark Storage Structure

Base Inf Coefficient (m/hr)	1.00800	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	1.00800	Porosity	0.30	Time to half empty (mins)	3	Length (m)	96.000	Depth (m)	0.325	

Node 223-234 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.03564	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.03564	Porosity	0.30	Time to half empty (mins)	94	Length (m)	64.000	Depth (m)	0.350	

Node 235-267 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.93600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.93600	Porosity	0.30	Time to half empty (mins)	4	Length (m)	117.000	Depth (m)	0.325	

Node 268-287 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.31680	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.31680	Porosity	0.30	Time to half empty (mins)	11	Length (m)	111.000	Depth (m)	0.325	

Node 288-295 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.03456	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.03456	Porosity	0.30	Time to half empty (mins)	97	Length (m)	66.000	Depth (m)	0.325	

Node 296-308 Carpark Storage Structure

Base Inf Coefficient (m/hr)	2.05200	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	2.05200	Porosity	0.30	Time to half empty (mins)	2	Length (m)	63.000	Depth (m)	0.325	

Node 309-325 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.93600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	10.000	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.93600	Porosity	0.30	Time to half empty (mins)	4	Length (m)	77.000	Depth (m)	0.325	

Node ADOPTABLE ROAD 4 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.93600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.93600	Porosity	0.30	Time to half empty (mins)	2	Length (m)	308.000	Depth (m)	0.325	

Node ADOPTABLE ROAD 11 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.03564	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.03564	Porosity	0.30	Time to half empty (mins)	88	Length (m)	171.000	Depth (m)	0.325	

Node ADOPTABLE ROAD 12 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.03564	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	0.03564	Porosity	0.30	Time to half empty (mins)	93	Length (m)	108.000	Depth (m)	0.325	

Node ADOPTABLE ROAD 80 Carpark Storage Structure

Base Inf Coefficient (m/hr)	1.11600	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	1.11600	Porosity	0.30	Time to half empty (mins)	2	Length (m)	308.000	Depth (m)	0.325	

Node ADOPTABLE ROAD 98 Carpark Storage Structure

Base Inf Coefficient (m/hr)	1.98000	Safety Factor	3.0	Invert Level (m)	99.575	Width (m)	5.800	Slope (1:X)	500.0	Inf Depth (m)
Side Inf Coefficient (m/hr)	1.98000	Porosity	0.30	Time to half empty (mins)	2	Length (m)	112.000	Depth (m)	0.325	

Node 98-102 SWALE Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.54000	Side Inf Coefficient (m/hr)	0.54000	Safety Factor	3.0	Porosity	1.00	Invert Level (m)	99.583	Time to half empty (mins)	31
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Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	18.0	18.0	0.417	121.0	121.0

Node ADOPTABLE ROAD 4 SWALE Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.03456	Side Inf Coefficient (m/hr)	0.03456	Safety Factor	3.0	Porosity	1.00	Invert Level (m)	99.250	Time to half empty (mins)	1313
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Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	28.0	28.0	0.750	199.0	199.0

Node ADOPTABLE ROAD 9 SWALE Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.54000	Side Inf Coefficient (m/hr)	0.54000	Safety Factor	3.0	Porosity	1.00	Invert Level (m)	99.583	Time to half empty (mins)	19
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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1-8	12	99.556	0.031	9.3	0.7085	0.0000	OK
15 minute summer	9-17	13	99.621	0.046	10.3	1.6187	0.0000	OK
15 minute summer	18-55	12	99.654	0.079	31.4	4.0263	0.0000	OK
180 minute summer	58-75	120	99.677	0.102	5.4	7.8276	0.0000	OK
15 minute summer	77-93	12	99.624	0.049	16.6	1.7818	0.0000	OK
15 minute summer	94-105	12	99.599	0.024	7.1	0.4462	0.0000	OK
15 minute summer	ADOPTABLE ROAD 2	11	99.552	0.027	6.5	0.3129	0.0000	OK
15 minute summer	ADOPTABLE ROAD 3	13	99.576	0.051	6.8	1.1560	0.0000	OK
15 minute summer	ADOPTABLE ROAD 6	12	99.568	0.043	8.3	0.8196	0.0000	OK
180 minute summer	ADOPTABLE ROAD 8	120	99.631	0.106	3.3	4.8862	0.0000	OK
15 minute summer	ADOPTABLE ROAD 9	11	99.560	0.035	8.3	0.3406	0.0000	OK
15 minute summer	107-118	11	99.591	0.016	8.6	0.1927	0.0000	OK
15 minute summer	119-128	10	99.589	0.014	7.3	0.0548	0.0000	OK
120 minute summer	129-157	74	99.671	0.096	10.8	6.9454	0.0000	OK
120 minute summer	158-181	74	99.671	0.096	10.7	6.8784	0.0000	OK
15 minute summer	182-195	10	99.586	0.011	15.4	0.0851	0.0000	OK
15 minute summer	196-221	11	99.606	0.031	15.9	0.7238	0.0000	OK
180 minute summer	223-234	116	99.663	0.088	4.3	5.7489	0.0000	OK
15 minute summer	235-267	11	99.614	0.039	19.4	1.1312	0.0000	OK
15 minute summer	268-287	13	99.641	0.066	18.4	3.2879	0.0000	OK
180 minute summer	288-295	116	99.665	0.090	4.4	6.1043	0.0000	OK
15 minute summer	296-308	10	99.586	0.011	10.5	0.0890	0.0000	OK
15 minute summer	309-325	11	99.602	0.027	12.8	0.5508	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)					
15 minute summer	1-8	Infiltration	7.7					
15 minute summer	9-17	Infiltration	6.1					
15 minute summer	18-55	Infiltration	21.2					
180 minute summer	58-75	Infiltration	1.7					
15 minute summer	77-93	Infiltration	12.3					
15 minute summer	94-105	Infiltration	6.1					
15 minute summer	ADOPTABLE ROAD 2	Infiltration	5.9					
15 minute summer	ADOPTABLE ROAD 3	Infiltration	3.8					
15 minute summer	ADOPTABLE ROAD 6	Infiltration	6.3					
180 minute summer	ADOPTABLE ROAD 8	Infiltration	1.0					
15 minute summer	ADOPTABLE ROAD 9	Infiltration	7.7					
15 minute summer	107-118	Infiltration	8.3					
15 minute summer	119-128	Infiltration	7.2					
120 minute summer	129-157	Infiltration	5.3					
120 minute summer	158-181	Infiltration	5.2					
15 minute summer	182-195	Infiltration	15.3					
15 minute summer	196-221	Infiltration	14.6					
180 minute summer	223-234	Infiltration	1.5					
15 minute summer	235-267	Infiltration	16.9					
15 minute summer	268-287	Infiltration	9.8					
180 minute summer	288-295	Infiltration	1.5					
15 minute summer	296-308	Infiltration	10.4					
15 minute summer	309-325	Infiltration	11.8					

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	ADOPTABLE ROAD 4	12	99.671	0.096	29.7	2.1225	0.0000	OK
240 minute summer	ADOPTABLE ROAD 11	156	99.739	0.164	5.8	11.1689	0.0000	OK
180 minute summer	ADOPTABLE ROAD 12	120	99.695	0.120	4.1	6.3074	0.0000	OK
15 minute summer	ADOPTABLE ROAD 80	11	99.660	0.085	29.7	1.6593	0.0000	OK
15 minute summer	ADOPTABLE ROAD 98	10	99.595	0.019	10.8	0.1672	0.0000	OK
120 minute summer	98-102 SWALE	76	99.688	0.555	5.1	3.8128	0.0000	OK
30 minute summer	ADOPTABLE ROAD 9 SWALE	22	99.627	0.044	21.2	7.1066	0.0000	OK
480 minute winter	ADOPTABLE ROAD 4 SWALE	432	99.403	0.153	0.9	6.9405	0.0000	OK
Link Event (Upstream Depth)	US Node	Link		Outflow (l/s)				
15 minute summer	ADOPTABLE ROAD 4	Infiltration		25.0				
240 minute summer	ADOPTABLE ROAD 11	Infiltration		1.7				
180 minute summer	ADOPTABLE ROAD 12	Infiltration		1.2				
15 minute summer	ADOPTABLE ROAD 80	Infiltration		26.3				
15 minute summer	ADOPTABLE ROAD 98	Infiltration		10.5				
120 minute summer	98-102 SWALE	Infiltration		1.7				
120 minute summer	98-102 SWALE	Infiltration		0.6				
30 minute summer	ADOPTABLE ROAD 9 SWALE	Infiltration		8.5				
480 minute winter	ADOPTABLE ROAD 4 SWALE	Infiltration		0.2				

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1-8	12	99.596	0.071	27.8	3.8056	0.0000	OK
15 minute summer	9-17	13	99.671	0.096	30.8	6.8678	0.0000	OK
15 minute summer	18-55	13	99.744	0.169	93.9	18.3835	0.0000	OK
180 minute summer	58-75	128	99.750	0.175	13.0	22.8474	0.0000	OK
15 minute summer	77-93	13	99.682	0.107	49.7	8.6143	0.0000	OK
15 minute summer	94-105	12	99.634	0.059	21.4	2.6014	0.0000	OK
15 minute summer	ADOPTABLE ROAD 2	12	99.592	0.067	19.4	1.9426	0.0000	OK
30 minute summer	ADOPTABLE ROAD 3	22	99.630	0.105	17.9	4.8030	0.0000	OK
15 minute summer	ADOPTABLE ROAD 6	13	99.621	0.096	24.9	4.0515	0.0000	OK
180 minute summer	ADOPTABLE ROAD 8	128	99.706	0.180	8.0	14.1490	0.0000	OK
15 minute summer	ADOPTABLE ROAD 9	12	99.613	0.088	24.9	2.1720	0.0000	OK
15 minute summer	107-118	11	99.619	0.044	25.9	1.4458	0.0000	OK
15 minute summer	119-128	11	99.616	0.041	21.9	0.4633	0.0000	OK
60 minute summer	129-157	43	99.756	0.181	40.7	24.5500	0.0000	OK
60 minute summer	158-181	43	99.755	0.180	40.4	24.3575	0.0000	OK
15 minute summer	182-195	11	99.606	0.031	46.2	0.7262	0.0000	OK
15 minute summer	196-221	12	99.653	0.078	47.7	4.5860	0.0000	OK
120 minute summer	223-234	90	99.730	0.155	13.7	17.5307	0.0000	OK
15 minute summer	235-267	12	99.670	0.095	58.2	6.7080	0.0000	OK
30 minute summer	268-287	22	99.709	0.134	48.3	13.5428	0.0000	OK
120 minute summer	288-295	92	99.733	0.158	14.1	18.2491	0.0000	OK
15 minute summer	296-308	11	99.607	0.032	31.3	0.7502	0.0000	OK
15 minute summer	309-325	12	99.644	0.069	38.3	3.5368	0.0000	OK
	Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)				
15 minute summer	15 minute summer	1-8	Infiltration	18.0				
15 minute summer	15 minute summer	9-17	Infiltration	12.6				
15 minute summer	15 minute summer	18-55	Infiltration	45.8				
180 minute summer	180 minute summer	58-75	Infiltration	2.6				
15 minute summer	15 minute summer	77-93	Infiltration	27.3				
15 minute summer	15 minute summer	94-105	Infiltration	14.8				
15 minute summer	15 minute summer	ADOPTABLE ROAD 2	Infiltration	14.8				
30 minute summer	30 minute summer	ADOPTABLE ROAD 3	Infiltration	7.8				
15 minute summer	15 minute summer	ADOPTABLE ROAD 6	Infiltration	14.3				
180 minute summer	180 minute summer	ADOPTABLE ROAD 8	Infiltration	1.7				
15 minute summer	15 minute summer	ADOPTABLE ROAD 9	Infiltration	20.0				
15 minute summer	15 minute summer	107-118	Infiltration	22.8				
15 minute summer	15 minute summer	119-128	Infiltration	21.2				
60 minute summer	60 minute summer	129-157	Infiltration	10.0				
60 minute summer	60 minute summer	158-181	Infiltration	9.9				
15 minute summer	15 minute summer	182-195	Infiltration	44.8				
15 minute summer	15 minute summer	196-221	Infiltration	37.0				
120 minute summer	120 minute summer	223-234	Infiltration	2.2				
15 minute summer	15 minute summer	235-267	Infiltration	41.7				
30 minute summer	30 minute summer	268-287	Infiltration	20.1				
120 minute summer	120 minute summer	288-295	Infiltration	2.2				
15 minute summer	15 minute summer	296-308	Infiltration	30.2				
15 minute summer	15 minute summer	309-325	Infiltration	30.1				

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	ADOPTABLE ROAD 4	12	99.800	0.225	88.9	11.5947	0.0000	OK
180 minute summer	ADOPTABLE ROAD 11	132	99.848	0.273	16.0	30.8076	0.0000	OK
180 minute summer	ADOPTABLE ROAD 12	128	99.778	0.203	9.9	17.9054	0.0000	OK
15 minute summer	ADOPTABLE ROAD 80	12	99.782	0.207	88.9	9.8209	0.0000	OK
15 minute summer	ADOPTABLE ROAD 98	11	99.631	0.056	32.3	1.3470	0.0000	OK
120 minute summer	98-102 SWALE	78	99.828	0.695	13.1	12.3807	0.0000	OK
30 minute summer	ADOPTABLE ROAD 9 SWALE	23	99.694	0.111	64.9	24.1153	0.0000	OK
360 minute winter	ADOPTABLE ROAD 4 SWALE	344	99.527	0.277	2.4	16.4672	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)					
15 minute summer	ADOPTABLE ROAD 4	Infiltration	59.5					
180 minute summer	ADOPTABLE ROAD 11	Infiltration	2.8					
180 minute summer	ADOPTABLE ROAD 12	Infiltration	2.0					
15 minute summer	ADOPTABLE ROAD 80	Infiltration	65.2					
15 minute summer	ADOPTABLE ROAD 98	Infiltration	30.0					
120 minute summer	98-102 SWALE	Infiltration	3.6					
120 minute summer	98-102 SWALE	Infiltration	0.6					
30 minute summer	ADOPTABLE ROAD 9 SWALE	Infiltration	19.7					
360 minute winter	ADOPTABLE ROAD 4 SWALE	Infiltration	0.3					

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1-8	13	99.639	0.114	54.7	9.8293	0.0000	OK
30 minute summer	9-17	23	99.729	0.154	53.6	17.1163	0.0000	OK
30 minute summer	18-55	22	99.836	0.261	163.2	43.9787	0.0000	OK
180 minute winter	58-75	172	99.875	0.300	17.3	53.2324	0.0000	OK
15 minute summer	77-93	13	99.742	0.167	97.6	20.8848	0.0000	OK
15 minute summer	94-105	13	99.673	0.098	42.0	7.0749	0.0000	OK
15 minute summer	ADOPTABLE ROAD 2	12	99.635	0.110	38.1	5.2521	0.0000	OK
30 minute summer	ADOPTABLE ROAD 3	23	99.691	0.166	35.4	11.7303	0.0000	OK
15 minute summer	ADOPTABLE ROAD 6	13	99.676	0.151	48.9	9.9819	0.0000	OK
180 minute winter	ADOPTABLE ROAD 8	172	99.829	0.304	10.7	32.6629	0.0000	OK
15 minute summer	ADOPTABLE ROAD 9	12	99.673	0.148	48.9	6.0532	0.0000	OK
15 minute summer	107-118	12	99.652	0.077	50.8	4.5043	0.0000	OK
15 minute summer	119-128	11	99.652	0.077	43.0	1.6337	0.0000	OK
60 minute summer	129-157	46	99.848	0.273	81.3	55.6269	0.0000	OK
60 minute summer	158-181	46	99.846	0.271	80.7	55.0927	0.0000	OK
15 minute summer	182-195	11	99.635	0.060	90.8	2.7035	0.0000	OK
15 minute summer	196-221	12	99.704	0.129	93.7	12.5566	0.0000	OK
180 minute summer	223-234	156	99.852	0.277	19.9	40.9824	0.0000	OK
15 minute summer	235-267	13	99.729	0.154	114.2	17.7320	0.0000	OK
30 minute summer	268-287	23	99.781	0.206	95.8	31.9690	0.0000	OK
180 minute winter	288-295	172	99.857	0.282	14.1	42.7904	0.0000	OK
15 minute summer	296-308	11	99.634	0.059	61.6	2.6419	0.0000	OK
15 minute summer	309-325	12	99.689	0.114	75.2	9.7922	0.0000	OK
Link Event (Upstream Depth)		US Node		Link		Outflow (l/s)		
15 minute summer		1-8		Infiltration		29.0		
30 minute summer		9-17		Infiltration		16.5		
30 minute summer		18-55		Infiltration		71.0		
180 minute winter		58-75		Infiltration		2.7		
15 minute summer		77-93		Infiltration		42.6		
15 minute summer		94-105		Infiltration		21.8		
15 minute summer		ADOPTABLE ROAD 2		Infiltration		24.5		
30 minute summer		ADOPTABLE ROAD 3		Infiltration		10.5		
15 minute summer		ADOPTABLE ROAD 6		Infiltration		22.6		
180 minute winter		ADOPTABLE ROAD 8		Infiltration		1.7		
15 minute summer		ADOPTABLE ROAD 9		Infiltration		33.8		
15 minute summer		107-118		Infiltration		40.4		
15 minute summer		119-128		Infiltration		40.3		
60 minute summer		129-157		Infiltration		14.3		
60 minute summer		158-181		Infiltration		14.3		
15 minute summer		182-195		Infiltration		86.8		
15 minute summer		196-221		Infiltration		61.5		
180 minute summer		223-234		Infiltration		2.2		
15 minute summer		235-267		Infiltration		68.1		
30 minute summer		268-287		Infiltration		31.0		
180 minute winter		288-295		Infiltration		2.2		
15 minute summer		296-308		Infiltration		56.8		
15 minute summer		309-325		Infiltration		50.3		

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	ADOPTABLE ROAD 4	13	99.937	0.362	174.8	30.0398	0.0000	OK
180 minute winter	ADOPTABLE ROAD 11	172	99.983	0.408	21.4	67.0295	0.0000	OK
180 minute winter	ADOPTABLE ROAD 12	168	99.898	0.323	13.2	40.3418	0.0000	OK
15 minute summer	ADOPTABLE ROAD 80	13	99.912	0.337	174.8	26.0667	0.0000	OK
15 minute summer	ADOPTABLE ROAD 98	12	99.674	0.099	63.5	4.2569	0.0000	OK
120 minute summer	98-102 SWALE	82	99.986	0.853	25.5	27.8093	0.0000	OK
30 minute summer	ADOPTABLE ROAD 9 SWALE	24	99.770	0.187	128.6	51.4824	0.0000	OK
360 minute winter	ADOPTABLE ROAD 4 SWALE	352	99.683	0.433	4.5	33.5123	0.0000	OK
Link Event (Upstream Depth)	US Node	Link		Outflow (l/s)				
15 minute summer	ADOPTABLE ROAD 4	Infiltration		97.1				
180 minute winter	ADOPTABLE ROAD 11	Infiltration		3.5				
180 minute winter	ADOPTABLE ROAD 12	Infiltration		2.2				
15 minute summer	ADOPTABLE ROAD 80	Infiltration		107.2				
15 minute summer	ADOPTABLE ROAD 98	Infiltration		54.1				
120 minute summer	98-102 SWALE	Infiltration		5.8				
120 minute summer	98-102 SWALE	Infiltration		0.6				
30 minute summer	ADOPTABLE ROAD 9 SWALE	Infiltration		31.9				
360 minute winter	ADOPTABLE ROAD 4 SWALE	Infiltration		0.4				

11. APPENDIX D –ANGLIAN WATER PREDEVELOPMENT REPORT

Pre-Planning Assessment Report

Newmarket Road, Royston

Section 1: Proposed Development

Thank you for submitting a pre-planning enquiry. This has been produced for Ardent Consulting Engineers. Your reference number is **00005820**. If you have any questions upon receipt of this report, please contact Olivia Powter on 01733 414690 or email planningliaison@anglianwater.co.uk.

The response within this report has been based on the following information which was submitted as part of your application:

List of Planned Developments	
Type of Development	No. Of Units
C3 Dwellings	300

The anticipated residential build rate is:

Year	2015	2016	2017	2018
Build Rate	50	100	100	50

- The grid reference for the site is TL3692240642.
- The site currently does not have planning permission and is located on a Greenfield site.

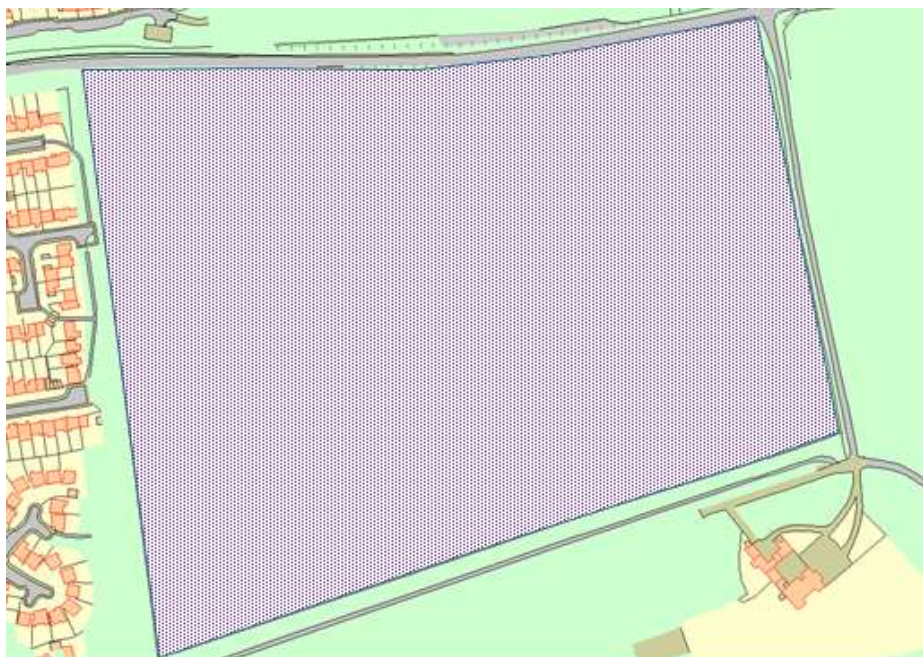


Figure 1: Location of proposed development

The comments contained within this report relate to the public water mains and sewers indicated on our records. Your attention is drawn to the disclaimer in the useful information section of this report.

Section 2: Assets Affected

Our records indicate that there are no public water mains or public sewers or other assets owned by Anglian Water within the boundary or overlapping your development site. However, it is recommended that you carry out a thorough investigation of your proposed working area to establish whether any unmapped public or private sewers and lateral drains are in existence.

Due to the private sewer transfer in October 2011 many newly adopted public used water assets and their history are not indicated on our records. You also need to be aware that your development site may contain private water mains, drains or other assets not shown on our records. These are private assets and not the responsibility of Anglian Water but that of the landowner.