

Netherton Park  
Stannington  
NE61 6EF

South Tyneside College



Date 04 06 15

Designed by JM

File Storm Network 10 07 15.mdx

Checked by

XP Solutions

Network 2015.1

Flows and Levels for Pipe 1.009 US/MH S10 (Storm Network 18 06 14.sws)

60 minute 100 year Winter I+30%

Average Rainfall Intensity 49.114 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1	42.856	40.578	-0.444	0.0	0.0
2	42.862	40.578	-0.438	0.0	0.1
3	42.888	40.578	-0.412	0.0	0.5
4	42.928	40.578	-0.372	0.0	3.0
5	42.965	40.578	-0.335	0.0	9.2
6	43.002	40.578	-0.298	0.0	17.1
7	43.060	40.578	-0.240	0.0	30.3
8	43.105	40.578	-0.195	0.0	49.0
9	43.136	40.578	-0.164	0.0	65.4
10	43.154	40.578	-0.146	0.0	76.4
11	43.165	40.578	-0.135	0.0	82.7
12	43.171	40.578	-0.129	0.0	86.6
13	43.175	40.578	-0.125	0.0	88.8
14	43.179	40.578	-0.121	0.0	90.5
15	43.184	40.578	-0.116	0.0	92.1
16	43.191	40.578	-0.109	0.0	94.2
17	43.205	40.578	-0.095	0.0	97.8
18	43.223	40.578	-0.077	0.0	103.1
19	43.251	40.578	-0.049	0.0	110.1
20	43.292	40.578	-0.008	0.0	118.4
21	43.340	40.578	0.040	0.0	122.2
22	43.397	40.578	0.097	0.0	124.3
23	43.454	40.578	0.154	0.0	126.0
24	43.517	40.578	0.217	0.0	127.2
25	43.585	40.578	0.285	0.0	128.0
26	43.661	40.578	0.361	0.0	128.4
27	43.740	40.578	0.440	0.0	128.4
28	43.826	40.578	0.526	0.0	127.9
29	43.917	40.578	0.617	0.0	127.2
30	43.999	40.578	0.699	0.0	126.2
31	44.301	40.578	1.001	0.0	124.3
32	44.772	40.578	1.472	0.0	117.0
33	45.302	40.578	2.002	0.0	119.8
34	45.334	40.578	2.034	0.0	128.6
35	45.384	40.578	2.084	0.0	129.9
36	45.435	40.578	2.135	0.0	131.1
37	45.485	40.578	2.185	0.0	132.4
38	45.532	40.578	2.232	0.0	133.7
39	45.574	40.578	2.274	0.0	134.8
40	45.611	40.578	2.311	0.0	135.8
41	45.636	40.578	2.336	0.0	136.6
42	45.654	40.578	2.354	0.0	137.1
43	45.666	40.578	2.366	0.0	137.5
44	45.676	40.578	2.376	0.0	137.8
45	45.682	40.578	2.382	0.0	138.0
46	45.687	40.578	2.387	0.0	138.1
47	45.689	40.578	2.389	0.0	138.2
48	45.690	40.578	2.390	0.0	138.3
49	45.689	40.578	2.389	0.0	138.3
50	45.688	40.578	2.388	0.0	138.3
51	45.686	40.578	2.386	0.0	138.2
52	45.683	40.578	2.383	0.0	138.2
53	45.680	40.578	2.380	0.0	138.1
54	45.676	40.578	2.376	0.0	138.0
55	45.673	40.578	2.373	0.0	137.9

Water level above  
cover of MHS10  
and therefore  
within POS

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56	45.669	40.578	2.369	0.0	137.8
57	45.665	40.578	2.365	0.0	137.8
58	45.660	40.578	2.360	0.0	137.7
59	45.655	40.578	2.355	0.0	137.5
60	45.649	40.578	2.349	0.0	137.4
61	45.641	40.578	2.341	0.0	137.2
62	45.631	40.578	2.331	0.0	137.0
63	45.618	40.578	2.318	0.0	136.8
64	45.601	40.578	2.301	0.0	136.4
65	45.581	40.578	2.281	0.0	136.0
66	45.560	40.578	2.260	0.0	135.5
67	45.539	40.578	2.239	0.0	135.0
68	45.517	40.578	2.217	0.0	134.5
69	45.495	40.578	2.195	0.0	134.0
70	45.473	40.578	2.173	0.0	133.4
71	45.451	40.578	2.151	0.0	132.9
72	45.429	40.578	2.129	0.0	132.3
73	45.407	40.578	2.107	0.0	131.8
74	45.385	40.578	2.085	0.0	131.2
75	45.363	40.578	2.063	0.0	130.7
76	45.340	40.578	2.040	0.0	130.1
77	45.318	40.578	2.018	0.0	129.6
78	45.120	40.578	1.820	0.0	128.9
79	44.548	40.578	1.248	0.0	118.5
80	44.275	40.578	0.975	0.0	113.5
81	44.370	40.578	1.070	0.0	119.6
82	44.367	40.578	1.067	0.0	117.1
83	44.277	40.578	0.977	0.0	117.8
84	44.105	40.578	0.805	0.0	121.2
85	43.899	40.578	0.599	0.0	124.8
86	43.731	40.578	0.431	0.0	127.2
87	43.635	40.578	0.335	0.0	128.3
88	43.527	40.578	0.227	0.0	128.4
89	43.429	40.578	0.129	0.0	127.6
90	43.379	40.578	0.079	0.0	126.0
91	43.396	40.578	0.096	0.0	125.2
92	43.448	40.578	0.148	0.0	126.0
93	43.501	40.578	0.201	0.0	127.1
94	43.557	40.578	0.257	0.0	127.9
95	43.619	40.578	0.319	0.0	128.3
96	43.635	40.578	0.335	0.0	128.5
97	43.606	40.578	0.306	0.0	128.5
98	43.553	40.578	0.253	0.0	128.4
99	43.486	40.578	0.186	0.0	128.0
100	43.426	40.578	0.126	0.0	127.2
101	43.383	40.578	0.083	0.0	126.0
102	43.362	40.578	0.062	0.0	125.2
103	43.279	40.578	-0.021	0.0	123.4
104	43.180	40.578	-0.120	0.0	115.4
105	43.065	40.578	-0.235	0.0	78.6
106	42.970	40.578	-0.330	0.0	36.8
107	42.907	40.578	-0.393	0.0	12.2
108	42.885	40.578	-0.415	0.0	3.2
109	42.875	40.578	-0.425	0.0	1.3
110	42.870	40.578	-0.430	0.0	0.7

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<b>Time (mins)</b>	<b>Upstream Level (m)</b>	<b>Downstream Level (m)</b>	<b>Surcharged Depth (m)</b>	<b>Total O/F (l/s)</b>	<b>Pipe Flow (l/s)</b>
111	42.867	40.578	-0.433	0.0	0.5
112	42.865	40.578	-0.435	0.0	0.3
113	42.864	40.578	-0.436	0.0	0.2
114	42.862	40.578	-0.438	0.0	0.2
115	42.861	40.578	-0.439	0.0	0.2
116	42.860	40.578	-0.440	0.0	0.1
117	42.859	40.578	-0.441	0.0	0.1
118	42.858	40.578	-0.442	0.0	0.1
119	42.857	40.578	-0.443	0.0	0.1
120	42.857	40.578	-0.443	0.0	0.1