



HBL ASSOCIATES LIMITED
Brook House,
Weybrook Rd
Stockport, M19 2QD

File: FW and SW Drainage Model (Public SW Sewer).l
Network: Private - Storm Network
Adam Prince
03/11/2021

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12 No. Apartments

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	200.0
Additional Flow (%)	40	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
IC01	0.008	5.00	30.500	450	382811.834	392852.429	0.962
IC02	0.012	5.00	30.500	450	382798.452	392865.182	1.147
IC03	0.004	5.00	30.237	450	382808.154	392875.363	1.025
MH01			30.385	1200	382818.524	392870.540	1.362
MH02	0.023	5.00	30.310	1200	382821.302	392873.316	2.085
ATTENUATION TANK	0.017	5.00	30.467	1500	382832.999	392861.683	2.350
IC04	0.009	5.00	30.500	450	382827.494	392861.599	1.050
IC06	0.026	5.00	30.124	450	382813.658	392880.953	1.050
IC07	0.020	5.00	30.098	450	382830.846	392882.855	1.050
MH03			30.500	1200	382830.056	392846.444	2.538
8805			30.500		382832.313	392844.885	2.565



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Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	IC01	IC02	18.486	0.600	29.538	29.353	0.185	100.0	150	5.31	134.2
1.001	IC02	IC03	14.063	0.600	29.353	29.212	0.141	100.0	150	5.54	132.0
1.002	IC03	MH01	11.437	0.600	29.212	29.098	0.114	100.0	150	5.73	130.2
1.003	MH01	MH02	3.927	0.600	29.023	29.000	0.023	170.7	225	5.75	130.0
1.004	MH02	ATTENUATION TANK	16.497	0.600	28.225	28.117	0.108	152.8	225	6.01	127.7
2.000	IC04	MH01	12.665	0.600	29.450	29.098	0.352	36.0	150	5.13	136.0
4.000	IC06	MH02	10.805	0.600	29.074	28.900	0.174	62.1	150	5.18	135.4
3.000	IC07	MH02	13.494	0.600	29.048	28.900	0.148	91.2	150	5.18	135.5
1.005	ATTENUATION TANK	MH03	15.510	0.600	28.117	27.962	0.155	100.1	150	6.45	124.1
1.006	MH03	8805	2.743	0.600	27.962	27.935	0.027	101.6	150	6.50	123.7

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	1.005	17.8	4.1	0.812	0.997	0.008	0.0
1.001	1.005	17.8	10.0	0.997	0.875	0.020	0.0
1.002	1.005	17.8	11.9	0.875	1.137	0.024	0.0
1.003	0.997	39.7	16.3	1.137	1.085	0.033	0.0
1.004	1.055	42.0	49.4	1.860	2.125	0.102	0.0
2.000	1.683	29.7	4.6	0.900	1.137	0.009	0.0
4.000	1.278	22.6	13.4	0.900	1.260	0.026	0.0
3.000	1.053	18.6	10.3	0.900	1.260	0.020	0.0
1.005	1.004	17.7	56.0	2.200	2.388	0.119	0.0
1.006	0.997	17.6	55.9	2.388	2.415	0.119	0.0



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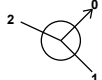
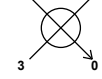
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Pipeline Schedule

	Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)	
	1.000	18.486	100.0	150	Circular	30.500	29.538	0.812	30.500	29.353	0.997	
	1.001	14.063	100.0	150	Circular	30.500	29.353	0.997	30.237	29.212	0.875	
	1.002	11.437	100.0	150	Circular	30.237	29.212	0.875	30.385	29.098	1.137	
	1.003	3.927	170.7	225	Circular	30.385	29.023	1.137	30.310	29.000	1.085	
	1.004	16.497	152.8	225	Circular	30.310	28.225	1.860	30.467	28.117	2.125	
	2.000	12.665	36.0	150	Circular	30.500	29.450	0.900	30.385	29.098	1.137	
	4.000	10.805	62.1	150	Circular	30.124	29.074	0.900	30.310	28.900	1.260	
	3.000	13.494	91.2	150	Circular	30.098	29.048	0.900	30.310	28.900	1.260	
	1.005	15.510	100.1	150	Circular	30.467	28.117	2.200	30.500	27.962	2.388	
	1.006	2.743	101.6	150	Circular	30.500	27.962	2.388	30.500	27.935	2.415	
	Link	US Node		Dia (mm)	Node Type	MH Type		DS Node		Dia (mm)	Node Type	MH Type
	1.000	IC01		450	Manhole	Adoptable		IC02		450	Manhole	Adoptable
	1.001	IC02		450	Manhole	Adoptable		IC03		450	Manhole	Adoptable
	1.002	IC03		450	Manhole	Adoptable		MH01		1200	Manhole	Adoptable
	1.003	MH01		1200	Manhole	Adoptable		MH02		1200	Manhole	Adoptable
	1.004	MH02		1200	Manhole	Adoptable		ATTENUATION TANK		1500	Manhole	Private
	2.000	IC04		450	Manhole	Adoptable		MH01		1200	Manhole	Adoptable
	4.000	IC06		450	Manhole	Adoptable		MH02		1200	Manhole	Adoptable
	3.000	IC07		450	Manhole	Adoptable		MH02		1200	Manhole	Adoptable
	1.005	ATTENUATION TANK		1500	Manhole	Private		MH03		1200	Manhole	Adoptable
	1.006	MH03		1200	Manhole	Adoptable		8805			Junction	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
IC01	382811.834	392852.429	30.500	0.962	450		0	1.000	29.538	150
IC02	382798.452	392865.182	30.500	1.147	450		1	1.000	29.353	150
IC03	382808.154	392875.363	30.237	1.025	450		0	1.001	29.353	150
MH01	382818.524	392870.540	30.385	1.362	1200		1	1.001	29.212	150
MH02	382821.302	392873.316	30.310	2.085	1200		0	1.002	29.212	150
ATTENUATION TANK	382832.999	392861.683	30.467	2.350	1500		1	1.002	29.023	225
IC04	382827.494	392861.599	30.500	1.050	450		1	4.000	28.900	150
IC06	382813.658	392880.953	30.124	1.050	450		2	3.000	28.900	150
							3	1.003	29.000	225
							0	1.004	28.225	225
							1	1.004	28.117	225
							0	1.005	28.117	150
							0	2.000	29.450	150
							0	4.000	29.074	150



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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
IC07	382830.846	392882.855	30.098	1.050	450		0	3.000	29.048	150
MH03	382830.056	392846.444	30.500	2.538	1200		1	1.005	27.962	150
							0	1.006	27.962	150
8805	382832.313	392844.885	30.500	2.565			1	1.006	27.935	150

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal	30 year (l/s)	5.0
FSR Region	England and Wales	Skip Steady State	x	100 year (l/s)	5.0
M5-60 (mm)	17.000	Drain Down Time (mins)	240	Check Discharge Volume	✓
Ratio-R	0.400	Additional Storage (m ³ /ha)	20.0	100 year 360 minute (m ³)	105
Summer CV	0.750	Check Discharge Rate(s)	✓		
Winter CV	0.840	2 year (l/s)	5.0		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

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	100	40	0	0
30	0	0	0				



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Pre-development Discharge Rate

Site Makeup	Greenfield	Soil Index	1	Growth Factor 30 year	1.95	Q 1 year (l/s)
Greenfield Method	IH124	SPR	0.10	Growth Factor 100 year	2.48	Q 30 year (l/s)
Positively Drained Area (ha)		Region	1	Betterment (%)	0	Q 100 year (l/s)
SAAR (mm)		Growth Factor 1 year	0.85	QBar		

Pre-development Discharge Volume

Site Makeup	Greenfield	Soil Index	1	Return Period (years)	100	Betterment (%)	0
Greenfield Method	FSR/FEH	SPR	0.10	Climate Change (%)	0	PR	
Positively Drained Area (ha)		CWI		Storm Duration (mins)	360	Runoff Volume (m³)	

Node ATTENUATION TANK Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	28.117	Product Number	CTL-SHE-0106-5000-1000-5000
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node ATTENUATION TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	28.117
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	59

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	36.0	0.0	1.000	36.0	0.0	1.001	0.0	0.0



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Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	119.760	33.888	2 year 7200 minute summer	1.568	0.400
2 year 15 minute winter	84.042	33.888	2 year 7200 minute winter	1.012	0.400
2 year 30 minute summer	77.518	21.935	2 year 8640 minute summer	1.368	0.349
2 year 30 minute winter	54.399	21.935	2 year 8640 minute winter	0.883	0.349
2 year 60 minute summer	51.720	13.668	2 year 10080 minute summer	1.219	0.311
2 year 60 minute winter	34.361	13.668	2 year 10080 minute winter	0.787	0.311
2 year 120 minute summer	31.549	8.338	30 year 15 minute summer	226.195	64.005
2 year 120 minute winter	20.961	8.338	30 year 15 minute winter	158.733	64.005
2 year 180 minute summer	24.133	6.210	30 year 30 minute summer	147.452	41.724
2 year 180 minute winter	15.687	6.210	30 year 30 minute winter	103.475	41.724
2 year 240 minute summer	19.039	5.032	30 year 60 minute summer	98.615	26.061
2 year 240 minute winter	12.649	5.032	30 year 60 minute winter	65.517	26.061
2 year 360 minute summer	14.516	3.735	30 year 120 minute summer	59.946	15.842
2 year 360 minute winter	9.436	3.735	30 year 120 minute winter	39.827	15.842
2 year 480 minute summer	11.436	3.022	30 year 180 minute summer	45.598	11.734
2 year 480 minute winter	7.598	3.022	30 year 180 minute winter	29.640	11.734
2 year 600 minute summer	9.363	2.561	30 year 240 minute summer	35.759	9.450
2 year 600 minute winter	6.398	2.561	30 year 240 minute winter	23.758	9.450
2 year 720 minute summer	8.339	2.235	30 year 360 minute summer	26.939	6.932
2 year 720 minute winter	5.605	2.235	30 year 360 minute winter	17.511	6.932
2 year 960 minute summer	6.846	1.803	30 year 480 minute summer	20.981	5.545
2 year 960 minute winter	4.535	1.803	30 year 480 minute winter	13.940	5.545
2 year 1440 minute summer	4.967	1.331	30 year 600 minute summer	17.039	4.661
2 year 1440 minute winter	3.338	1.331	30 year 600 minute winter	11.642	4.661
2 year 2160 minute summer	3.558	0.983	30 year 720 minute summer	15.093	4.045
2 year 2160 minute winter	2.451	0.983	30 year 720 minute winter	10.143	4.045
2 year 2880 minute summer	2.959	0.793	30 year 960 minute summer	12.278	3.233
2 year 2880 minute winter	1.989	0.793	30 year 960 minute winter	8.133	3.233
2 year 4320 minute summer	2.241	0.586	30 year 1440 minute summer	8.788	2.355
2 year 4320 minute winter	1.476	0.586	30 year 1440 minute winter	5.906	2.355
2 year 5760 minute summer	1.846	0.473	30 year 2160 minute summer	6.201	1.714
2 year 5760 minute winter	1.195	0.473	30 year 2160 minute winter	4.273	1.714



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Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 2880 minute summer	5.100	1.367	100 year +40% CC 360 minute winter	32.092	12.705
30 year 2880 minute winter	3.428	1.367	100 year +40% CC 480 minute summer	38.291	10.119
30 year 4320 minute summer	3.798	0.993	100 year +40% CC 480 minute winter	25.439	10.119
30 year 4320 minute winter	2.501	0.993	100 year +40% CC 600 minute summer	30.992	8.477
30 year 5760 minute summer	3.090	0.791	100 year +40% CC 600 minute winter	21.176	8.477
30 year 5760 minute winter	2.000	0.791	100 year +40% CC 720 minute summer	27.387	7.340
30 year 7200 minute summer	2.598	0.663	100 year +40% CC 720 minute winter	18.406	7.340
30 year 7200 minute winter	1.677	0.663	100 year +40% CC 960 minute summer	22.191	5.844
30 year 8640 minute summer	2.248	0.574	100 year +40% CC 960 minute winter	14.700	5.844
30 year 8640 minute winter	1.451	0.574	100 year +40% CC 1440 minute summer	15.789	4.232
30 year 10080 minute summer	1.989	0.507	100 year +40% CC 1440 minute winter	10.611	4.232
30 year 10080 minute winter	1.284	0.507	100 year +40% CC 2160 minute summer	11.070	3.059
100 year +40% CC 15 minute summer	408.473	115.584	100 year +40% CC 2160 minute winter	7.628	3.059
100 year +40% CC 15 minute winter	286.647	115.584	100 year +40% CC 2880 minute summer	9.060	2.428
100 year +40% CC 30 minute summer	268.775	76.054	100 year +40% CC 2880 minute winter	6.089	2.428
100 year +40% CC 30 minute winter	188.614	76.054	100 year +40% CC 4320 minute summer	6.697	1.751
100 year +40% CC 60 minute summer	180.954	47.821	100 year +40% CC 4320 minute winter	4.410	1.751
100 year +40% CC 60 minute winter	120.222	47.821	100 year +40% CC 5760 minute summer	5.418	1.387
100 year +40% CC 120 minute summer	110.370	29.168	100 year +40% CC 5760 minute winter	3.507	1.387
100 year +40% CC 120 minute winter	73.327	29.168	100 year +40% CC 7200 minute summer	4.536	1.157
100 year +40% CC 180 minute summer	83.953	21.604	100 year +40% CC 7200 minute winter	2.928	1.157
100 year +40% CC 180 minute winter	54.572	21.604	100 year +40% CC 8640 minute summer	3.910	0.998
100 year +40% CC 240 minute summer	65.765	17.380	100 year +40% CC 8640 minute winter	2.524	0.998
100 year +40% CC 240 minute winter	43.693	17.380	100 year +40% CC 10080 minute summer	3.448	0.880
100 year +40% CC 360 minute summer	49.370	12.705	100 year +40% CC 10080 minute winter	2.226	0.880



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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	IC01	11	29.564	0.026	1.2	0.0086	0.0000	OK
15 minute winter	IC02	10	29.396	0.043	3.1	0.0159	0.0000	OK
15 minute winter	IC03	11	29.262	0.050	3.6	0.0117	0.0000	OK
15 minute winter	MH01	11	29.087	0.064	4.9	0.0726	0.0000	OK
15 minute winter	MH02	11	28.327	0.102	15.1	0.1374	0.0000	OK
30 minute winter	ATTENUATION TANK	25	28.285	0.168	14.1	6.3512	0.0000	SURCHARGED
15 minute winter	IC04	10	29.472	0.022	1.4	0.0074	0.0000	OK
15 minute winter	IC06	10	29.119	0.045	4.0	0.0293	0.0000	OK
15 minute winter	IC07	10	29.091	0.043	3.1	0.0230	0.0000	OK
30 minute winter	MH03	25	28.020	0.058	4.7	0.0660	0.0000	OK
30 minute winter	8805	25	27.988	0.053	4.7	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC01	1.000	IC02	1.2	0.393	0.068	0.0578	
15 minute winter	IC02	1.001	IC03	3.0	0.660	0.169	0.0646	
15 minute winter	IC03	1.002	MH01	3.6	0.750	0.203	0.0550	
15 minute winter	MH01	1.003	MH02	4.9	0.601	0.125	0.0324	
15 minute winter	MH02	1.004	ATTENUATION TANK	15.1	1.167	0.360	0.3092	
30 minute winter	ATTENUATION TANK	Hydro-Brake®	MH03	4.7				
15 minute winter	IC04	2.000	MH01	1.4	0.845	0.046	0.0205	
15 minute winter	IC06	4.000	MH02	3.9	0.930	0.175	0.0459	
15 minute winter	IC07	3.000	MH02	3.0	0.757	0.163	0.0539	
30 minute winter	MH03	1.006	8805	4.7	0.794	0.268	0.0163	10.8



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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	IC01	10	29.574	0.036	2.3	0.0118	0.0000	OK
15 minute winter	IC02	10	29.415	0.062	5.8	0.0227	0.0000	OK
15 minute winter	IC03	11	29.284	0.072	6.8	0.0170	0.0000	OK
15 minute winter	MH01	11	29.116	0.093	9.3	0.1048	0.0000	OK
60 minute winter	MH02	47	28.491	0.266	15.2	0.3598	0.0000	SURCHARGED
60 minute winter	ATTENUATION TANK	48	28.490	0.373	16.8	14.1274	0.0000	SURCHARGED
15 minute winter	IC04	10	29.481	0.031	2.6	0.0102	0.0000	OK
15 minute winter	IC06	10	29.138	0.064	7.6	0.0421	0.0000	OK
15 minute winter	IC07	10	29.108	0.060	5.8	0.0326	0.0000	OK
15 minute winter	MH03	15	28.022	0.060	5.0	0.0681	0.0000	OK
15 minute winter	8805	15	27.989	0.054	5.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC01	1.000	IC02	2.3	0.455	0.128	0.0932	
15 minute winter	IC02	1.001	IC03	5.6	0.753	0.318	0.1060	
15 minute winter	IC03	1.002	MH01	6.8	0.877	0.384	0.0888	
15 minute winter	MH01	1.003	MH02	9.4	0.702	0.236	0.0525	
15 minute winter	MH02	1.004	ATTENUATION TANK	28.5	1.226	0.679	0.6371	
15 minute winter	ATTENUATION TANK	Hydro-Brake®	MH03	5.0				
15 minute winter	IC04	2.000	MH01	2.6	1.013	0.087	0.0322	
15 minute winter	IC06	4.000	MH02	7.5	1.093	0.332	0.0740	
15 minute winter	IC07	3.000	MH02	5.7	0.895	0.307	0.0861	
15 minute winter	MH03	1.006	8805	5.0	0.805	0.282	0.0170	15.8



HBL ASSOCIATES LIMITED
 Brook House,
 Weybrook Rd
 Stockport, M19 2QD

File: FW and SW Drainage Model (Public SW Sewer).l
 Network: Private - Storm Network
 Adam Prince
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 Nell Lane, Chorlton
 12 No. Apartments

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	IC01	10	29.587	0.049	4.2	0.0160	0.0000	OK
15 minute winter	IC02	10	29.443	0.090	10.4	0.0331	0.0000	OK
15 minute winter	IC03	11	29.319	0.107	12.3	0.0254	0.0000	OK
15 minute winter	MH01	11	29.156	0.133	16.8	0.1507	0.0000	OK
60 minute winter	MH02	59	28.984	0.759	27.9	1.0263	0.0000	SURCHARGED
60 minute winter	ATTENUATION TANK	59	28.983	0.866	31.7	32.8217	0.0000	SURCHARGED
15 minute winter	IC04	9	29.490	0.040	4.7	0.0133	0.0000	OK
15 minute winter	IC06	10	29.168	0.094	13.7	0.0614	0.0000	OK
15 minute winter	IC07	10	29.135	0.087	10.5	0.0469	0.0000	OK
15 minute summer	MH03	54	28.022	0.060	5.0	0.0681	0.0000	OK
15 minute summer	8805	54	27.989	0.054	5.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC01	1.000	IC02	4.2	0.518	0.234	0.1485	
15 minute winter	IC02	1.001	IC03	10.2	0.844	0.577	0.1707	
15 minute winter	IC03	1.002	MH01	12.3	0.994	0.693	0.1414	
15 minute winter	MH01	1.003	MH02	16.9	0.807	0.426	0.0822	
15 minute winter	MH02	1.004	ATTENUATION TANK	50.0	1.304	1.191	0.6561	
15 minute summer	ATTENUATION TANK	Hydro-Brake®	MH03	5.0				
15 minute winter	IC04	2.000	MH01	4.7	1.109	0.157	0.0635	
15 minute winter	IC06	4.000	MH02	13.5	1.249	0.599	0.1170	
15 minute winter	IC07	3.000	MH02	10.3	1.030	0.556	0.1354	
15 minute summer	MH03	1.006	8805	5.0	0.805	0.282	0.0170	25.5