

**Appendix G**

## HEC-HMS Existing Conditions Hydrologic Parameters

Waterway	Subbasin ID	Area (mi <sup>2</sup> )	CN	Clark Tc (hr)	R
67th Street Ditch	67DT-1	0.171	81	0.41	2.52
67th Street Ditch	67DT-2	0.086	78	0.24	1.47
Addison Creek	Sub 10	0.837	84	1.53	3.56
Addison Creek	Sub 20	2.867	79	1.71	4.00
Addison Creek	Sub 40	1.616	85	1.29	3.01
Addison Creek	Sub 50	0.314	93	5.18	12.09
Addison Creek	Sub 51	0.611	83	1.28	2.99
Addison Creek	Sub 52	0.393	85	1.25	2.92
Addison Creek	Sub 60	0.825	81	3.03	7.06
Addison Creek	Sub 70	0.749	84	2.45	5.72
Addison Creek	Sub 80	0.672	84	1.15	2.69
Lake and Mannheim Tributary	Sub 81	0.547	83	0.91	2.13
Addison Creek	Sub 90	0.353	84	1.60	3.74
Addison Creek	Sub 100	0.165	89	2.17	5.06
Lake and Mannheim Tributary	Sub 120	0.661	93	1.62	3.78
Lake and Mannheim Tributary	Sub 121	0.397	82	2.04	4.76
Lake and Mannheim Tributary	Sub 123	1.369	81	1.20	2.81
Lake and Mannheim Tributary	Sub 125	0.070	89	0.44	1.02
Addison Creek	Sub 130	0.520	85	4.73	11.03
Addison Creek	Sub 131	0.196	90	2.26	5.27
Addison Creek	Sub 132	0.352	88	6.22	14.51
Addison Creek	Sub 140	0.344	89	1.86	4.34
Addison Creek	Sub 145	1.009	83	1.70	6.92
Addison Creek	Sub 150	0.297	87	1.44	5.88
Addison Creek	Sub 151	0.102	89	0.96	3.92
Addison Creek	Sub 152	0.161	88	1.16	4.75
Addison Creek	Sub 153	0.083	84	1.12	4.58
Addison Creek	Sub 160	1.038	83	1.88	7.67
Addison Creek	Sub 161	1.412	83	2.06	8.42
Addison Creek	Sub 162	0.242	89	0.78	3.20
Addison Creek	Sub 170	0.723	83	2.60	10.62
Addison Creek	Sub 180	1.046	81	1.77	7.25
Addison Creek	Sub 181	1.220	81	0.74	3.02
Addison Creek	Sub 190	0.878	87	3.00	12.26
Buffalo Creek	B10	1.050	77	1.43	8.33
Buffalo Creek	B11	1.500	74	1.83	10.70
White Pine Ditch	B12	1.290	81	0.77	4.50
Buffalo Creek	B13	0.260	82	0.49	2.85
Buffalo Creek	B14	0.400	79	0.66	3.85
Buffalo Creek	B15	0.120	79	0.29	1.70
Buffalo Creek	B16	0.330	82	0.58	3.40
Buffalo Creek	B17	0.220	79	0.40	2.35
Buffalo Creek	B18	1.380	80	1.55	9.05
Buffalo Creek	B19	0.360	76	1.63	9.53
Buffalo Creek	B1A	0.520	79	0.58	3.40
Buffalo Creek	B1B	0.950	77	0.65	3.78
Buffalo Creek	B1C	1.170	75	0.72	4.23
Buffalo Creek	B1D	0.630	72	1.09	6.38
Buffalo Creek	B2	1.510	76	0.87	5.08
Buffalo Creek	B20	0.530	84	2.85	16.63
Buffalo Creek Overflow	B21	2.270	79	2.11	12.3
Buffalo Creek	B22	0.300	78	0.87	5.05
Buffalo Creek	B23	0.590	78	1.53	8.93
Buffalo Creek	B3	1.440	77	1.17	6.85
Buffalo Creek	B4	1.350	77	0.97	5.68

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## HEC-HMS Existing Conditions Hydrologic Parameters

Waterway	Subbasin ID	Area (mi <sup>2</sup> )	CN	Clark Tc (hr)	R
Buffalo Creek	B5A	0.480	75	0.73	4.28
Buffalo Creek	B5B	0.300	75	0.61	3.55
Buffalo Creek	B5C	0.420	74	0.55	3.20
Buffalo Creek	B6A	0.360	75	0.42	2.43
Buffalo Creek	B6B	0.230	76	0.40	2.33
Buffalo Creek	B7	0.790	74	0.98	5.73
Buffalo Creek Tributary A	B8A	0.168	78	0.94	5.50
Unnamed Tributary to Tributary A	B8B	0.525	77	1.46	8.53
Buffalo Creek Tributary A	B8C	2.550	76	2.12	12.38
Buffalo Creek Tributary A	B9	3.050	78	2.25	13.13
Sexton Ditch	CYCR1	0.190	83	1.26	2.95
Sexton Ditch	CYCR1A	0.160	85	1.73	4.03
Crystal Creek Tributary	CYCR2	0.080	87	1.01	2.35
Motel Tributary	CYCR3	0.135	92	0.77	1.79
Motel Tributary	CYCR4	0.134	91	1.32	3.08
Crystal Creek	CYCR5	0.360	88	1.63	3.80
Crystal Creek	CYCR6	0.056	74	0.34	0.79
O'Hare South Detention Basin	CYCR7	3.599	86	2.92	7.15
Crystal Creek	CYCR8	0.753	85	1.89	4.41
Crystal Creek Tributary	CYCR9	0.143	83	1.43	3.33
Crystal Creek	CYCR10	0.407	84	1.60	3.73
Crystal Creek Tributary	CYCR11	0.170	93	1.41	3.28
Des Plaines River	DPR1	2.960	74	1.64	11.52
Des Plaines River	DPR2	3.860	77	2.09	9.04
Des Plaines River	DPR3	4.720	76	2.26	9.76
Des Plaines River	DPR4	2.810	76	1.24	5.36
Des Plaines River	DPR5	2.070	70	1.47	6.34
Des Plaines River	DPR6	0.630	76	2.73	11.76
Des Plaines River	DPR7	1.350	81	1.75	7.53
Des Plaines River	DPR8	0.740	79	3.42	14.76
Des Plaines River	DPR9	3.180	82	1.94	8.36
Des Plaines River	DPR10	1.080	81	1.52	6.56
Des Plaines River	DPR11	4.680	80	2.36	10.18
Des Plaines River	DPR12	1.430	78	1.74	7.53
Des Plaines River	DPR13	0.124	86	0.86	3.69
Des Plaines River	DPR14	2.000	83	1.44	6.22
Des Plaines River	DPR15	0.240	84	2.69	11.59
Des Plaines River	DPR16	0.230	83	0.92	3.96
Des Plaines River	DPR17	1.500	83	2.52	10.88
Des Plaines River	DPR18	5.990	84	3.10	13.40
Des Plaines River	DPR19	3.310	80	2.20	9.52
Des Plaines River	DPR20	4.540	85	1.82	7.85
Des Plaines River	DPR21	7.720	82	2.67	11.52
Des Plaines River	DPR22	5.070	81	2.65	11.46
Des Plaines River	DPR23	8.500	81	3.38	14.59
Des Plaines River	DPR24	20.430	77	3.56	15.36
Des Plaines River	141A	11.910	76	1.96	32.24
Des Plaines River	RIND	38.060	77	4.15	38.72
Des Plaines River	21A	6.010	75	3.46	18.28
Des Plaines River Tributary A	Basin 2	1.350	80	0.85	5.12
Des Plaines River Tributary A	Basin 3	0.240	78	0.46	2.77
57th Street Ditch	Subbasin 1	0.306	82	0.66	3.24
East Avenue Ditch	Subbasin 2	0.581	81	0.69	3.39
57th Street Ditch	Subbasin 3	0.141	82	1.19	5.84
East Avenue Ditch	Subbasin 4	0.041	89	0.31	1.51

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## HEC-HMS Existing Conditions Hydrologic Parameters

Waterway	Subbasin ID	Area (mi <sup>2</sup> )	CN	Clark Tc (hr)	R
East Avenue Ditch	Subbasin 5	0.094	84	0.89	4.37
East Avenue Ditch	Subbasin 6	0.134	91	1.31	6.44
East Avenue Ditch	Subbasin 7	0.063	83	0.70	3.44
East Avenue Ditch	Subbasin 8	0.251	88	0.91	4.48
Farmers Creek	BAS101	0.058	78	0.42	0.99
Farmers Creek	BAS102	0.048	81	0.38	0.88
Farmers Creek	BAS103	0.039	84	0.40	0.94
Farmers Creek	BAS104	0.060	83	1.20	2.79
Farmers Creek	BAS105	0.023	77	0.59	1.39
Farmers Creek	BAS106	0.072	82	0.99	2.31
Farmers Creek	BAS107	0.071	83	3.69	8.62
Farmers Creek	BAS108	0.065	79	0.68	1.59
Farmers Creek	BAS109	0.033	86	0.14	0.32
Farmers Creek	BAS110	0.078	81	0.97	2.26
Farmers Creek	BAS111	0.067	84	0.93	2.18
Farmers Creek	BAS112	0.039	85	0.64	1.48
Farmers Creek	BAS113	0.094	78	2.23	5.21
Farmers Creek	BAS114	0.034	77	0.43	1.00
Farmers Creek	BAS115	0.027	87	0.75	1.75
Farmers Creek	BAS116	0.082	75	2.68	6.25
Farmers Creek	BAS117	0.097	78	1.59	3.72
Farmers Creek	BAS118	0.034	83	0.89	2.07
Farmers Creek	BAS119	0.057	83	1.38	3.23
Farmers Creek	BAS120	0.233	77	4.73	11.03
Farmers Creek	BAS121	0.068	75	0.62	1.45
Farmers Creek	BAS201	0.121	80	0.56	1.31
Farmers Creek	BAS202	0.331	83	0.84	1.96
Farmers Creek	BAS203	0.091	92	0.70	1.64
Farmers Creek	BAS204	0.153	85	0.79	1.83
Farmers Creek	BAS205	0.104	82	2.20	5.14
Farmers Creek	BAS206	0.112	77	0.75	1.74
Farmers Creek	BAS207	0.118	87	1.36	3.18
Farmers Creek	BAS208	0.085	84	0.63	1.48
Prairie Creek	BAS301	0.271	85	0.72	1.68
Prairie Creek	BAS302	0.168	85	1.37	3.19
Prairie Creek	BAS303	0.070	89	1.80	4.19
Prairie Creek	BAS304	0.263	81	1.25	2.92
Prairie Creek	BAS305	0.061	85	0.72	1.69
Prairie Creek	BAS306	0.221	85	1.02	2.38
Prairie Creek	BAS307	0.041	91	0.46	1.08
Prairie Creek	BAS308	0.023	82	1.14	2.67
Prairie Creek	BAS309	0.134	83	2.65	6.19
Prairie Creek	BAS310	0.109	82	1.00	2.33
Prairie Creek	BAS311	0.056	84	1.02	2.38
Prairie Creek	BAS312	0.034	82	0.41	0.97
Prairie Creek	BAS401	0.286	79	0.78	1.82
Prairie Creek	BAS402	0.073	89	4.53	10.56
Prairie Creek	BAS403	0.125	81	1.66	3.87
Feehanville Ditch	Subbasin-1_US	0.068	62	0.37	2.85
Feehanville Ditch	Subbasin-1_DS	0.100	74	0.40	2.05
Feehanville Ditch	Subbasin-2_US	1.880	77	2.54	12.93
Feehanville Ditch	Subbasin-3	0.659	79	1.56	7.94
59th Street Ditch	59th10	0.516	78	0.43	3.00
59th Street Ditch	59th20	0.790	80	0.69	4.85
63rd Street Ditch	63rd10	0.219	79	0.26	1.82

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HEC-HMS Existing Conditions Hydrologic Parameters

Waterway	Subbasin ID	Area (mi <sup>2</sup> )	CN	Clark Tc (hr)	R
63rd Street Ditch	63rd20	0.450	78	0.52	3.67
63rd Street Ditch	63rd30	3.407	76	1.77	12.38
79th Street Ditch	79th10	0.050	78	0.23	1.60
79th Street Ditch	79th20	0.589	81	1.24	8.68
Flagg Creek	Flagg10	0.337	69	0.17	1.16
Flagg Creek	Flagg100	0.168	80	0.32	2.22
Flagg Creek	Flagg110	0.526	79	0.64	4.47
Flagg Creek	Flagg120	0.586	80	0.70	4.88
Flagg Creek	Flagg121	0.209	79	0.23	1.59
Flagg Creek	Flagg130	0.283	79	0.70	4.87
Flagg Creek	Flagg131	0.680	79	0.39	2.70
Flagg Creek	Flagg140	0.335	80	0.46	3.25
Flagg Creek	Flagg141	0.620	80	0.45	3.15
Flagg Creek	Flagg150	2.916	79	1.63	11.38
Flagg Creek	Flagg20	0.105	62	0.23	1.60
Flagg Creek	Flagg30	0.431	69	0.09	0.66
Flagg Creek	Flagg40	0.204	73	0.31	2.18
Flagg Creek	Flagg50	0.432	78	0.30	2.07
Flagg Creek	Flagg51	0.206	78	0.22	1.57
Flagg Creek	Flagg52	0.212	81	0.33	2.29
Flagg Creek	Flagg60	0.080	83	0.17	1.21
Flagg Creek	Flagg61	0.126	84	0.30	2.11
Flagg Creek	Flagg70	0.254	79	0.15	1.02
Flagg Creek	Flagg80	0.122	80	0.17	1.20
Flagg Creek	Flagg90	0.200	77	0.18	1.26
Flagg Creek	FlaggWW	0.098	84	0.48	3.38
Plainfield Road Ditch	Plain10	0.215	79	0.25	1.72
Plainfield Road Ditch	Plain11	0.110	81	0.15	1.05
Plainfield Road Ditch	Plain20	1.363	81	1.96	13.74
Flagg Creek Tributary A	TribA10	0.110	78	0.07	0.51
Flagg Creek Tributary A	TribA20	0.096	83	0.45	3.13
Flagg Creek Tributary A	TribA30	0.365	78	0.82	5.75
Flagg Creek Tributary B	TribB10	0.062	76	0.10	0.71
Flagg Creek Tributary B	TribB11	0.191	77	0.36	2.52
Flagg Creek Tributary B	TribB20	0.184	80	0.20	1.40
Flagg Creek Tributary B	TribB30	0.176	79	0.31	2.20
Flagg Creek Tributary C	TribC10	0.247	72	0.12	0.82
Flagg Creek Tributary C	TribC11	0.230	78	0.36	2.49
Flagg Creek Tributary C	TribC20	0.159	78	0.16	1.15
Flagg Creek Tributary C	TribC30	1.123	74	1.11	7.79
Golf Course Tributary	Golf Course Trib. Area	0.556	77	1.16	5.66
Lake Arlington	LA_1	0.153	89	0.35	2.38
McDonald Creek	MC_1	1.065	78	1.48	10.15
McDonald Creek	MC_2	1.115	78	1.35	9.29
McDonald Creek	MC_3	1.309	76	1.86	12.80
McDonald Creek	MC_4	1.042	70	1.78	12.24
McDonald Creek North Branch	MC_NB1	1.167	80	0.94	6.46
McDonald Creek North Branch	MCNB_2	0.442	80	1.08	7.43
McDonald Creek South Branch	MCSB_1	1.121	82	1.31	9.00
McDonald Creek South Branch	MCSB_2	0.733	81	1.26	8.64
McDonald Creek Tributary A	MCTA_1	0.328	77	0.90	6.20
McDonald Creek Tributary A	MCTA_2	0.422	79	1.27	8.76
McDonald Creek Tributary B	MCTA_3	0.152	83	0.61	4.16
McDonald Creek Tributary B	MCTB_1	0.558	80	0.88	6.05
Salt Creek Middle Fork	Subbasin 1	0.210	73	1.59	6.11

**Appendix G**

## HEC-HMS Existing Conditions Hydrologic Parameters

Waterway	Subbasin ID	Area (mi <sup>2</sup> )	CN	Clark Tc (hr)	R
Salt Creek	Subbasin 2	2.488	78	2.36	9.07
Salt Creek South Fork	Subbasin 3	0.232	80	1.15	4.43
Salt Creek	Subbasin 8	0.580	79	2.33	8.98
Salt Creek	Subbasin 9	2.781	80	1.48	5.69
Salt Creek South Fork	Subbasin 10	0.384	75	4.10	15.78
Salt Creek	Subbasin 11	1.720	76	2.37	9.14
Salt Creek	Subbasin 13	2.469	81	2.28	8.77
Salt Creek	Subbasin 15	0.075	71	0.68	2.63
Salt Creek Middle Fork	Subbasin 16	0.270	76	4.35	16.77
Salt Creek Middle Fork	Subbasin 17	0.144	84	3.66	14.09
Salt Creek Middle Fork	Subbasin 18	0.070	81	3.04	11.69
Salt Creek Middle Fork	Subbasin 19	0.190	74	4.83	18.58
Salt Creek Middle Fork	Subbasin 20	0.070	81	2.28	8.77
Silver Creek	MP1	0.650	85	2.32	10.17
Silver Creek	MP2	0.289	83	1.82	7.98
Silver Creek	MP3	0.519	87	2.16	9.49
Silver Creek	MP4	0.327	91	1.78	7.82
Silver Creek	MP5	0.724	92	1.49	6.54
Silver Creek	FP1	0.473	86	1.85	8.12
Silver Creek	FP2	0.296	81	1.53	6.73
Silver Creek	FP3	0.307	85	1.30	5.71
Silver Creek	FP4	0.806	86	2.66	11.66
Silver Creek	FP5	0.412	85	1.03	4.54
Silver Creek	FP6	0.778	90	3.54	15.52
Silver Creek	FP7	0.127	84	0.65	2.86
Silver Creek	NL1	0.492	80	1.86	8.14
Silver Creek	LT1	0.344	85	1.15	5.05
Silver Creek	LT2	0.549	82	2.02	8.87
Silver Creek	LT3	0.258	92	1.58	6.92
Silver Creek	LT4	0.294	92	2.36	10.35
Silver Creek	CH1	0.418	85	1.63	7.13
Silver Creek	CH2	0.044	81	0.62	2.70
Silver Creek	CH3	0.266	87	1.45	6.38
Silver Creek	CH4	0.064	81	0.75	3.30
Silver Creek	CH5	0.087	89	1.74	7.62
Silver Creek	CH6	0.103	77	1.53	6.73
Silver Creek	CH7	0.041	79	1.26	5.53
Silver Creek	CH8	0.033	82	1.41	6.18
Silver Creek	CH9	0.266	84	0.29	1.26
Silver Creek	CH10	0.119	76	3.24	14.22
Silver Creek	CH11	0.125	75	3.28	14.40
Silver Creek	BS1	0.202	89	0.68	2.99
Silver Creek	BS2	0.280	85	0.50	2.18
Silver Creek	BS3	0.440	81	0.62	2.70
Silver Creek	BS4	0.414	82	0.88	3.88
Silver Creek	BS5	0.498	81	0.69	3.03
Weller Creek	Wilke-Kirchoff1	1.010	80	1.20	6.16
Weller Creek	Wilke-Kirchoff2	1.450	80	2.12	10.87
Weller Creek	WC2	4.050	80	2.81	14.41
Weller Creek	WC3	1.610	79	3.29	16.87
Weller Creek	WC4	1.629	81	1.63	8.36
Weller Creek	WC5	0.116	79	0.42	2.16
Weller Creek	WC6	0.068	79	0.41	2.09
Weller Creek	WC7	0.042	74	0.37	1.91
Weller Creek	WC8	0.869	82	2.07	10.60

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HEC-HMS Existing Conditions Hydrologic Parameters

Waterway	Subbasin ID	Area (mi <sup>2</sup> )	CN	Clark Tc (hr)	R
Weller Creek	WC9	0.308	79	0.60	3.06
Weller Creek	WC10	0.113	73	0.49	2.51
Weller Creek	WC11	0.660	79	1.18	6.05
Weller Creek	WC12	0.060	79	0.47	2.42
Weller Creek	WC13	1.106	81	2.07	10.60
Weller Creek	WC14	0.237	80	3.89	19.98
Weller Creek	WC15	0.466	81	4.24	21.73
Weller Creek	WC16	0.141	81	1.09	5.61
Weller Creek	WC17	0.455	80	0.81	4.16
Weller Creek	WC18	3.130	82	4.79	24.57
Weller Creek	WC19	0.103	80	0.46	2.33
Weller Creek	WC20	0.167	86	0.54	2.79
Weller Creek	WC21	0.103	81	1.57	8.05
Weller Creek	WC22	0.252	85	0.72	3.72
Weller Creek	WC23	0.568	85	1.65	8.45
Higgins Creek	H 10	0.254	86	0.88	4.28
Higgins Creek	H 12	0.323	73	0.48	2.32
Higgins Creek	H 21	0.181	86	0.97	4.72
Higgins Creek	H 26	0.383	84	1.42	6.92
Higgins Creek	H 27	0.167	86	0.55	2.68
Higgins Creek	H 131	0.729	88	1.85	9.05
Higgins Creek	H 133	1.065	83	3.89	18.96
Higgins Creek	H 134	0.672	86	2.52	12.27
Higgins Creek	H1701	0.240	71	0.74	3.59
Higgins Creek	H 1702	0.373	85	0.79	3.85
Higgins Creek Tributary A	HA 132	1.829	85	1.56	7.61
Higgins Creek Tributary A	HA 132-2	0.126	86	0.73	3.57
Higgins Creek Tributary B	HB 132-1	0.245	85	1.12	5.45
Willow Creek	W 34	0.522	86	2.46	12.02
Willow Creek	W 37	0.352	81	0.91	4.43
Willow Creek	W 40	0.690	82	1.33	6.46
Willow Creek	W 41	0.185	84	1.28	6.25
Willow Creek	W 120	0.263	77	2.20	10.72
Willow Creek	W 121	0.392	84	1.04	5.08
Willow Creek	W 122	0.269	76	3.64	17.74
Willow Creek	W 123	0.249	90	1.63	7.96
Willow Creek	W 124	0.413	86	1.29	6.31
Willow Creek	W 125	0.279	89	1.64	7.98
Willow Creek	W 127	0.800	84	1.46	7.13
Willow Creek	W 128	0.254	88	0.55	2.68
Willow Creek	W 129	0.331	87	1.36	6.63
Willow Creek	W 139	0.687	91	1.50	7.32
Willow Creek	W 140	0.309	86	2.06	10.07
Willow Creek	W 141	0.564	84	7.33	35.74
Willow Creek	W 143	0.303	90	1.08	5.27
Willow Creek	W 144	0.861	84	3.54	17.26
Willow Creek	WNS/100	5.402	88	2.78	13.54