Lowell Wastewater Utility
High Flow Management Operational Data
2022

Date	Clean Water Discharge			River's Edge Precipitation				Duck Island Precipitation				Warren Station Precipitation				Averaged Precipitation				Treated High Flow			Barasford Street			Beaver Brook			Merrimack Street			Read Street			Tilden Street			Walker Street			Warren Street			West Street			All Diversions		
	Flow (MG)	Peak Hour (MGD)	Event Peak (MGD)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)
1/1/2022	27.05	44.12		1	0.14	0.04		1	0.12	0.04		1	0.15	0.04		1	0.14	0.04																															
1/2/2022	30.55	40.23		1	0.20	0.07		1	0.17	0.05		1	0.19	0.05		1	0.19	0.06																															
1/3/2022	25.56	34.23																																															
1/4/2022	25.08	33.53																																															
1/5/2022	29.14	50.33		1	0.17	0.07		1	0.16	0.06		1	0.20	0.06		1	0.18	0.06																															
1/6/2022	25.67	34.18																																															
1/7/2022	24.95	34.45																																															
1/8/2022	23.61	33.80						1	0.01	0.01						1	0.01	0.01																															
1/9/2022	26.98	40.34		1	0.34	0.08		1	0.29	0.17		1	0.45	0.08		1	0.36	0.11																															
1/10/2022	24.81	32.62		1	0.01	0.01										1	0.01	0.01																															
1/11/2022	23.05	32.25																																															
1/12/2022	23.74	31.93																																															
1/13/2022	23.92	32.21																																															
1/14/2022	23.66	30.90																																															
1/15/2022	21.90	32.33																																															
1/16/2022	22.14	32.75																																															
1/17/2022	40.88	63.96	63.96	1	1.12	0.53	0.53	1	1.18	0.52	0.52	1	1.37	0.73	0.73	1	1.22	0.59	0.59	1	9.93	3.06	1	5.68	7.87	1	2.67	2.39	1	5.20	15.16				1	2.93	1.72	1	1.90	0.54	1	2.52	5.32	1	7.23	18.40	1	7.23	51.40
1/18/2022	28.28	48.33																																															
1/19/2022	26.58	34.22																																															
1/20/2022	26.58	33.48		1	0.06	0.03		1	0.04	0.03		1	0.06	0.03		1	0.05	0.03																															
1/21/2022	23.97	31.82																																															
1/22/2022	23.85	34.13																																															
1/23/2022	24.54	34.83																																															
1/24/2022	23.25	32.53																																															
1/25/2022	23.98	31.42		1	0.05	0.04		1	0.04	0.03		1	0.04	0.04		1	0.04	0.04																															
1/26/2022	22.21	30.64																																															
1/27/2022	21.56	30.89																																															
1/28/2022	21.93	29.01																																															
1/29/2022	21.11	30.75																																															
1/30/2022	21.53	32.36										1	0.03	0.01		1	0.01	0.01																															
1/31/2022	21.08	30.53		1	0.06	0.04		1	0.11	0.07						1	0.06	0.04																															
2/1/2022	21.28	30.20																																															
2/2/2022	22.71	31.89						1	0.02	0.02		1	0.17	0.07		1	0.06	0.03																															
2/3/2022	41.19	103.14		1	0.51	0.10		1	0.52	0.10		1	0.58	0.11		1	0.54	0.10		1	5.53	9.35																											
2/4/2022	71.73	107.55	107.55	1	0.79	0.15	0.15	1	0.72	0.13	0.13	1	0.80	0.15	0.15	1	0.77	0.14	0.14	1	16.83	28.31	1	4.00	5.37	1	0.25	0.02	1	4.45	4.48													1	5.15	8.30	1	5.15	18.17
2/5/2022	29.49	39.99										1	0.02	0.02		1	0.01	0.01																															
2/6/2022	27.41	37.82		1	0.13	0.06		1	0.10	0.04						1	0.08	0.03																															
2/7/2022	30.61	60.81		1	0.82	0.10		1	0.68	0.10		1	0.62	0.10		1	0.71	0.10		1	1.87	1.10																											
2/8/2022	69.35	86.44		1	0.34	0.09		1	0.42	0.10		1	0.63	0.08		1	0.46	0.09		1	23.82	31.53																											
2/9/2022	33.78	45.53																																															
2/10/2022	35.88	53.77										1	0.01	0.01		1	0.01	0.01																															
2/11/2022	33.58	47.54																																															
2/12/2022	36.39	55.46																																															
2/13/2022	31.51	41.96		1	0.01	0.01										1	0.01	0.01																															
2/14/2022	29.18	37.50																																															
2/15/2022	27.87	37.38																																															
2/16/2022	27.94	37.24		1	0.04	0.04		1	0.01	0.01		1	0.05	0.05		1	0.03	0.03																															
2/17/2022	34.28	47.01		1	0.01	0.01		1	0.01	0.01						1	0.01	0.01																															
2/18/2022	47.06	87.85		1	0.35	0.14		1	0.30	0.15		1	0.37	0.20		1	0.34	0.16		1	4.52	3.34																											
2/19/2022	33.12	43.92																																															
2/20/2022	31.38	41.29																																															
2/21/2022	31.53	40.18																																															
2/22/2022	38.40	103.50	103.50	1	0.59	0.15	0.15	1	0.56	0.13	0.13	1	0.61	0.14	0.14	1	0.59	0.14	0.14	1	2.25	3.68							1	0.42	0.37																1	0.42	0.37
2/23/2022	41.37	94.29																		1	2.25	2.29																											
2/24/2022	32.06	39.74																																															
2/25/2022	31.74	40.35																																															
2/26/2022	31.69	42.63		1	0.28	0.15		1	0.10	0.06		1	0.02	0.02		1	0.13	0.08																															
2/27/2022	31.83	42.27		1	0.08	0.03		1	0.11	0.04		1	0.23	0.10		1	0.14	0.06																															
2/28/2022	29.66	37.82		1	0.01	0.01										1	0.01	0.01																															
3/1/2022	29.67	38.19		1	0.18	0.05		1	0.10	0.03		1	0.12	0.04		1	0.13	0.04																															
3/2/2022	31.16	38.44										1	0.01	0.01		1	0.01	0.01																															
3/3/2022	29.55	37.38		1	0.03	0.03		1	0.02	0.02		1	0.02	0.02		1	0.02	0.02																															
3/4/2022	27.99	35.48																																															
3/5/2022	28.29	38.60																																															
3/6/2022	32.55	48.14																																															
3/7/2022	35.03	87.17		1	0.22	0.16		1	0.21	0.16		1	0.22	0.17		1	0.22	0.16		1	1.27	1.63																											
3/8/2022	33.96	80.99																		1	0.55	0.27																											
3/9/2022	31.95	41.62																																															
3/10/2022	32.77	44.04		1	0.31	0.31		1	0.28	0.20		1	0.32	0.32		1	0.30	0.28																															
3/11/2022	31.13	37.98																																															
3/12/2022	38.81	83.33		1	0.36	0.17		1	0.32	0.16		1	0.37	0.17		1	0.35	0.17		1	4.08	3.08																											
3/13/2022	30.21	41.30										1	0.01	0.01		1	0.01	0.01																															
3/14/2022	30.87	39.33																																															
3/15/2022	30.68	38.91																																															
3/16/2022	29.97	37.98		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																															
3/17/2022	29.82	37.73																																															
3/18/2022	27.89	36.80		1	0.01	0.01										1	0.01	0.01																															
3/19/2022	33.72	70.79		1	0.40	0.14		1	0.39	0.15		1	0.39	0.16		1	0.39	0.15		1	2.82	1.50																											
3/20/2022	32.19	50.85						1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																															
3/21/2022	28.52	37.99																																															
3/22/2022	27.70	37.94																																															
3/23/2022	26.59	37.46																																															
3/24/2022	35.45	52.29		1	0.46	0.08		1	0.49	0.09		1	0.56	0.10		1	0.50	0.09																															
3/25/2022	44.54	89.63		1	0.52	0.25		1	0.46	0.23		1	0.50	0.23		1	0.49	0.24		1	5.62	5.81																											
3/26/2022	30.97	41.82		1	0.01	0.01		1	0.02	0.02		1	0.01	0.01		1	0.01	0.01																															
3/27/2022	30.46	41.56																																															
3/28/2022	28.16	38.32										1	0.01	0.01		1	0.01	0.01																															
3/29/2022	27.45	55.78																																															
3/30/2022	27.73	37.73																																															
3/31/2022	27.93	43.95		1	0.10	0.07		1	0.11	0.06		1	0.13	0.07		1	0.11	0.07																															
4/1/2022	37.04	68.95		1	0.37	0.18		1	0.30	0.15		1	0.34	0.15		1	0.34	0.16		1	2.67	1.30																											
4/2/2022	27.37	39.43																																															
4/3/2022	27.86	38.24																																															
4/4/2022	26.91	36.28		1	0.02	0.02		1	0.02	0.01		1	0.02	0.01		1	0.02	0.01																															
4/5/2022	26.17	35.55																																															
4/6/2022	26.32	35.29		1	0.01	0.01										1	0.01	0.01																															
4/7/2022	25.86	34.64		1	0.01	0.01		1	0.02	0.01		1	0.02	0.02		1	0.02	0.01																															
4/8/2022	41.66	96.73	96.73	1	0.59	0.26	0.26	1	0.56	0.24	0.24	1	0.62	0.25	0.25	1	0.59	0.25	0.25	1	5.93	5.97													1	0.10	0.02												1	0.10	0.02
4/9/2022	36.29	91.29		1	0.39	0.23		1	0.33	0.19		1	0.35	0.22		1	0.36	0.21		1	4.35	4.90																											
4/10/2022	29.42	39.02																																															
4/11/2022	27.70	37.52		1	0.38	0.38		1	0.19	0.19						1	0.19	0.19																															
4/12/2022	27.38	37.83		1	0.06	0.03		1	0.05	0.02		1	0.05	0.02		1	0.05	0.02																															
4/13/2022	26.09	35.54																																															
4/14/2022	26.61	38.94		1	0.09	0.03		1	0.07	0.02		1	0.09	0.03		1	0.08	0.03																															
4/15/2022	25.63	34.70		1	0.01	0.01		1	0.01	0.01						1	0.01	0.01																															
4/16/2022	27.65	54.52		1	0.37	0.12		1	0.34	0.10		1	0.40	0.13		1	0.37	0.12																															
4/17/2022	31.38	54.49																																															
4/18/2022	25.36	35.17																																															
4/19/2022	50.63	106.99	106.99	1	1.10	0.43	0.43	1	1.08	0.43	0.43	1	1.21	0.47	0.47	1	1.13	0.44	0.44	1	6.95	13.84	1	1.85	2.67	1	1.08	0.80	1	2.02	2.54				1	2.10	0.99	1	0.30	0.02	1	1.37	2.26	1	2.70	5.70	1	2.70	14.98
4/20/2022	29.82	38.51																																															
4/21/2022	28.86	38.06																																															
4/22/2022	27.91	37.35										1	0.36	0.35		1	0.12	0.12																															
4/23/2022	27.16	38.02																																															
4/24/2022	27.15	38.04																																															
4/25/2022	26.59	37.15																																															

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Date	Clean Water Discharge			River's Edge Precipitation				Duck Island Precipitation				Warren Station Precipitation				Averaged Precipitation				Treated High Flow			Barasford Street			Beaver Brook			Merrimack Street			Read Street			Tilden Street			Walker Street			Warren Street			West Street			All Diversions		
	Flow (MG)	Peak Hour (MGD)	Event Peak (MGD)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)
4/26/2022	29.46	49.84		1	0.37	0.19		1	0.25	0.11		1	0.27	0.12		1	0.30	0.14																																
4/27/2022	29.63	41.65		1	0.12	0.06		1	0.07	0.04		1	0.08	0.04		1	0.09	0.05																																
4/28/2022	27.66	37.03																																															
4/29/2022	26.23	34.24																																															
4/30/2022	25.51	37.44																																															
5/1/2022	25.17	35.73																																															
5/2/2022	25.56	37.05		1	0.04	0.02		1	0.04	0.02		1	0.05	0.03		1	0.04	0.02																																
5/3/2022	25.91	34.13		1	0.09	0.03		1	0.06	0.02		1	0.08	0.03		1	0.08	0.03																																
5/4/2022	29.18	54.04		1	0.24	0.10		1	0.21	0.09		1	0.23	0.10		1	0.23	0.10																																
5/5/2022	24.78	33.08																																															
5/6/2022	24.26	32.32																																															
5/7/2022	24.29	33.59																																															
5/8/2022	23.93	34.08																																															
5/9/2022	23.80	33.29																																															
5/10/2022	23.56	33.18																																															
5/11/2022	23.05	32.13																																															
5/12/2022	22.58	31.79																																															
5/13/2022	22.57	30.46																																															
5/14/2022	22.20	32.54																																															
5/15/2022	23.13	44.34		1	0.24	0.23		1	0.08	0.07		1	0.07	0.06		1	0.13	0.12																																
5/16/2022	33.67	105.36	105.36	1	0.91	0.83	0.83	1	0.48	0.40	0.40	1	0.55	0.44	0.44	1	0.65	0.56	0.56	1	3.85	6.92				1	0.30	0.10					0.02		1	0.47	0.59				1	0.53	2.71				1	0.53	3.40
5/17/2022	23.09	32.16		1	0.01	0.01										1	0.01	0.01																																
5/18/2022	23.25	31.86																																															
5/19/2022	24.30	44.20		1	0.09	0.05		1	0.08	0.05		1	0.10	0.05		1	0.09	0.05																																
5/20/2022	24.45	29.59						1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																
5/21/2022	22.15	33.11		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																
5/22/2022	22.25	39.26		1	0.17	0.16		1	0.09	0.08		1	0.11	0.10		1	0.12	0.11																																
5/23/2022	22.69	37.96																																															
5/24/2022	22.83	29.86																																															
5/25/2022	20.25	29.16																																															
5/26/2022	20.03	29.10																																															
5/27/2022	20.81	29.81																																															
5/28/2022	31.41	82.38	82.38	1	0.57	0.35	0.35	1	0.57	0.42	0.42	1	0.66	0.50	0.50	1	0.60	0.42	0.42	1	4.70	8.84				1	0.65	0.44	1	2.02	2.34				1	0.63	0.84	1	0.37	0.13	1	0.62	1.84	1	0.95	2.10	1	2.02	7.69
5/29/2022	31.56	31.28																																															
5/30/2022	20.66	30.73																																															
5/31/2022	20.89	30.02																																															
6/1/2022	25.27	64.69	64.69	1	0.26	0.22	0.22	1	0.22	0.19	0.19	1	0.26	0.23	0.23	1	0.25	0.21	0.21	1	3.15	1.76							1	0.43	0.59																	1	0.43	0.59
6/2/2022	25.42	41.19		1	0.11	0.05		1	0.11	0.10		1	0.13	0.11		1	0.12	0.09																																
6/3/2022	23.00	27.90		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																
6/4/2022	20.49	30.35																																															
6/5/2022	20.19	30.86																																															
6/6/2022	20.33	29.70																																															
6/7/2022	19.87	29.14		1	0.04	0.02		1	0.03	0.02		1	0.04	0.03		1	0.04	0.02																																
6/8/2022	22.75	36.88		1	0.20	0.08		1	0.18	0.06		1	0.18	0.06		1	0.19	0.07																																
6/9/2022	33.60	94.57	94.57	1	0.70	0.37	0.37	1	0.67	0.37	0.37	1	0.76	0.40	0.40	1	0.71	0.38	0.38	1	9.35	10.92	1	0.60	1.01	1	0.95	0.78	1	0.97	1.27				1	1.33	0.56				1	0.68	0.85	1	1.08	2.10	1	1.33	6.57
6/10/2022	33.74	28.17																																															
6/11/2022	20.92	31.67																																															
6/12/2022	21.06	31.38																																															
6/13/2022	20.51	28.54																																															
6/14/2022	19.88	28.13																																															
6/15/2022	19.53	28.11																																															
6/16/2022	19.20	27.43																																															
6/17/2022	19.19	26.82																																															
6/18/2022	18.92	28.46																																															
6/19/2022	20.15	28.94		1	0.16	0.06		1	0.13	0.06		1	0.17	0.07		1	0.15	0.06																																
6/20/2022	20.29	27.75																																															
6/21/2022	18.88	27.80																																															
6/22/2022	18.90	26.83																																															
6/23/2022	18.42	26.71																																															
6/24/2022	18.36	26.07																																															
6/25/2022	17.98	27.88																																															
6/26/2022	18.03	28.04																																															
6/27/2022	19.86	34.70		1	0.16	0.09		1	0.12	0.06		1	0.11	0.07		1	0.13	0.07																																
6/28/2022	20.00	26.55																																															
6/29/2022	21.53	90.34	90.34	1	0.22	0.22	0.22	1	0.37	0.37	0.37	1	0.32	0.32	0.32	1	0.30	0.30	0.30	1	1.53	2.92				1	0.28	0.11							1	0.48	0.20				1	0.38	0.71				1	0.48	1.02
6/30/2022	22.08	89.04		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01		1	1.93	3.22																												
7/1/2022	21.92	25.69																																															
7/2/2022	18.06	26.80		1	0.07	0.06		1	0.06	0.05		1	0.07	0.05		1	0.07	0.05																																
7/3/2022	17.86	25.55																																															
7/4/2022	16.61	25.82																																															
7/5/2022	17.56	38.37		1	0.19	0.14		1	0.10	0.06		1	0.12	0.08		1	0.14	0.09																																
7/6/2022	18.98	37.04		1	0.11	0.11		1	0.09	0.09		1	0.10	0.09		1	0.10	0.10																																
7/7/2022	19.13	27.47																																															
7/8/2022	18.78	25.52																																															
7/9/2022	17.31	27.14																																															
7/10/2022	16.80	26.71																																															
7/11/2022	17.27	26.36																																															
7/12/2022	17.42	25.90																																															
7/13/2022	17.48	25.56																																															
7/14/2022	19.56	34.18		1	0.40	0.24		1	0.25	0.15		1	0.23	0.12		1	0.29	0.17																																
7/15/2022	19.71	24.57																																															
7/16/2022	16.92	26.27																																															
7/17/2022	16.87	26.11																																															
7/18/2022	18.82	32.97		1	0.16	0.09		1	0.17	0.09		1	0.19	0.11		1	0.17	0.10																																
7/19/2022	27.08	84.63	84.63	1	0.57	0.56	0.56	1	0.42	0.42	0.42	1	0.49	0.47	0.47	1	0.49	0.48	0.48	1	4.35	5.85	1	0.18	0.29	1	0.58	0.49	1	0.82	2.28	1	0.08	0.01	1	0.73	1.26	1	0.60	0.65	1	0.78	4.23	1	0.55	1.80	1	0.82	11.01
7/20/2022	27.23	25.64																																															
7/21/2022	17.52	25.18																																															
7/22/2022	17.67	24.52																																															
7/23/2022	16.97	26.19																																															
7/24/2022	16.61	25.97																																															
7/25/2022	17.87	27.65																																															
7/26/2022	18.02	25.44																																															
7/27/2022	16.68	24.97																																															
7/28/2022	23.88	86.03	86.03	1	0.60	0.58	0.58	1	0.76	0.51	0.51	1	0.73	0.49	0.49	1	0.70	0.53	0.53	1	2.53	5.13	1	0.80	0.99	1	0.68	0.65	1	0.75	1.68	1	0.10	0.01	1	0.78	1.06	1	0.38	0.24	1	0.60	3.46	1	0.45	1.30	1	0.80	9.39
7/29/2022	24.54	84.10																		1	2.02	1.88																												
7/30/2022	20.30	25.60																																															
7/31/2022	16.32	25.85																																															
8/1/2022	16.54	24.97																																															
8/2/2022	18.23	25.72										1	0.02	0.02		1	0.01	0.01																																
8/3/2022	18.38	24.95																																															
8/4/2022	16.24	24.55																																															
8/5/2022	20.75	88.26		1	0.21	0.21		1	0.14	0.10		1	0.15	0.15		1	0.17	0.15		1	2.73	2.98																												
8/6/2022	20.90	25.95																																															
8/7/2022	16.88	31.03		1	0.05	0.05						1	0.01	0.01		1	0.02	0.02																																
8/8/2022	17.03	25.23		1	0.01	0.01						1	0.01	0.01		1	0.01	0.01																																
8/9/2022	21.17	43.51		1	0.10	0.09		1	0.16	0.16		1	0.20	0.19		1	0.15	0.15																																
8/10/2022	21.33	24.50																																															
8/11/2022	16.02	24.25																																															
8/12/2022	15.71	24.56																																															
8/13/2022	15.39	25.94																																															
8/14/2022	15.36	26.07																																															
8/15/2022	15.98	24.96																																															
8/16/2022	16.13	24.95																																															
8/17/2022	15.98	24.74																																															
8/18/2022	15.77	23.65						1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																

Lowell Wastewater Utility
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Date	Clean Water Discharge			River's Edge Precipitation				Duck Island Precipitation				Warren Station Precipitation				Averaged Precipitation				Treated High Flow			Barasford Street			Beaver Brook			Merrimack Street			Read Street			Tilden Street			Walker Street			Warren Street			West Street			All Diversions		
	Flow (MG)	Peak Hour (MGD)	Event Peak (MGD)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)
8/19/2022	15.55	25.10																																																
8/20/2022	14.95	25.28																																																
8/21/2022	15.31	25.51																																																
8/22/2022	16.86	31.92		1	0.17	0.06		1	0.16	0.07		1	0.16	0.06		1	0.16	0.06																																
8/23/2022	17.04	29.57		1	0.05	0.04		1	0.05	0.03		1	0.06	0.04		1	0.05	0.04																																
8/24/2022	16.46	24.34						1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																
8/25/2022	16.37	23.85																																																
8/26/2022	16.59	36.94		1	0.03	0.03		1	0.06	0.06		1	0.08	0.08		1	0.06	0.06																																
8/27/2022	16.75	24.70																																																
8/28/2022	15.69	25.51																																																
8/29/2022	16.47	26.56																																																
8/30/2022	16.96	26.50																																																
8/31/2022	17.13	25.68		1	0.09	0.04		1	0.08	0.04		1	0.10	0.05		1	0.09	0.04																																
9/1/2022	16.45	25.07																																																
9/2/2022	15.37	24.79																																																
9/3/2022	15.16	26.02																																																
9/4/2022	14.70	26.04																																																
9/5/2022	61.96	109.86	109.86	1	3.59	0.89	0.89	1	2.31	0.43	0.43	1	2.79	0.63	0.63	1	2.90	0.65	0.65	1	14.38	36.27	1	4.95	7.91	1	2.15	2.49	1	3.42	4.43				1	3.33	3.51	1	1.88	5.06	1	2.68	9.90	1	1.73	4.20	1	4.95	37.50
9/6/2022	62.30	68.85		1	0.72	0.08		1	0.72	0.08		1	0.73	0.09		1	0.72	0.08		1	5.45	2.87																												
9/7/2022	34.03	27.75																																																
9/8/2022	18.89	28.94																																																
9/9/2022	19.10	26.14																																																
9/10/2022	18.25	26.93																																																
9/11/2022	17.64	27.18																																																
9/12/2022	17.82	26.91																																																
9/13/2022	20.63	88.23	88.23	1	0.24	0.23	0.23	1	0.18	0.09	0.09	1	0.35	0.33	0.33	1	0.26	0.22	0.22	1	2.03	3.61													1	0.48	0.18											1	0.48	0.18
9/14/2022	21.15	70.33						1	0.10	0.06						1	0.03	0.02		1	0.55	0.29																												
9/15/2022	18.38	25.85																																																
9/16/2022	16.66	24.40																																																
9/17/2022	16.83	27.07																																																
9/18/2022	17.09	27.04																																																
9/19/2022	26.47	97.57	97.57	1	0.82	0.36	0.36	1	0.25	0.07	0.07	1	0.88	0.45	0.45	1	0.65	0.29	0.29	1	3.42	7.58	1	1.65	2.50	1	0.92	1.51	1	0.80	1.08				1	1.70	1.91	1	0.92	0.60	1	0.82	1.19	1	0.97	3.90	1	1.70	12.69
9/20/2022	27.20	82.58		1	0.01	0.01		1	0.43	0.07		1	0.01	0.01		1	0.15	0.03		1	2.22	1.89																												
9/21/2022	22.74	26.67						1	0.04	0.02						1	0.01	0.01																																
9/22/2022	40.03	106.85	106.85	1	1.02	0.31	0.31	1	0.99	0.76	0.76	1	0.99	0.34	0.34	1	1.00	0.47	0.47	1	8.38	16.07	1	0.82	1.12	1	0.30	0.11	1	0.52	0.07				1	0.87	0.25				1	0.38	0.29	1	0.30	0.60	1	0.87	2.44
9/23/2022	40.25	27.94																																																
9/24/2022	19.75	27.39																																																
9/25/2022	18.58	28.15		1	0.02	0.01		1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																
9/26/2022	18.78	28.59		1	0.06	0.03		1	0.03	0.01		1	0.04	0.02		1	0.04	0.02																																
9/27/2022	18.55	26.80																																																
9/28/2022	18.21	27.10																																																
9/29/2022	18.41	26.09																																																
9/30/2022	17.22	24.97																																																
10/1/2022	17.61	26.55		1	0.02	0.01		1	0.02	0.01		1	0.02	0.01		1	0.02	0.01																																
10/2/2022	17.79	27.20																																																
10/3/2022	17.97	26.30																																																
10/4/2022	17.70	29.30		1	0.09	0.04		1	0.07	0.02		1	0.07	0.04		1	0.08	0.03																																
10/5/2022	18.55	33.74		1	0.15	0.04		1	0.12	0.01		1	0.16	0.04		1	0.14	0.03																																
10/6/2022	18.77	25.57		1	0.01	0.01		1	0.02	0.01		1	0.01	0.01		1	0.01	0.01																																
10/7/2022	17.57	24.49																																																
10/8/2022	17.30	25.94																																																
10/9/2022	16.54	26.95																																																
10/10/2022	17.08	26.19																																																
10/11/2022	17.27	25.52																																																
10/12/2022	16.83	25.36																																																
10/13/2022	21.36	63.81		1	0.59	0.17		1	0.14	0.02		1	0.57	0.15		1	0.43	0.11		1	1.37	1.15																												
10/14/2022	46.88	99.06	99.06	1	1.19	0.48	0.48	1	1.61	0.38	0.38	1	1.19	0.49	0.49	1	1.33	0.45	0.45	1	10.93	16.64	1	0.58	0.78	1	0.17	0.06	1	0.82	1.96				1	0.93	0.85				1	0.63	1.99	1	1.42	2.10	1	1.42	7.74
10/15/2022	47.10	29.77																																																
10/16/2022	19.45	28.92																																																
10/17/2022	21.29	80.49	80.49	1	0.64	0.42	0.42	1	0.10	0.05	0.05	1	0.57	0.35	0.35	1	0.44	0.27	0.27	1	1.23	1.02				1	0.25	0.37							1	0.20	0.26	1	0.20	0.21	1	0.23	0.56				1	0.25	1.40
10/18/2022	32.70	97.15	97.15	1	0.16	0.04	0.04	1	0.42	0.05	0.05	1	0.21	0.04	0.04	1	0.26	0.04	0.04	1	2.95	4.76	1	0.32	0.43	1	0.57	0.21	1	0.58	0.68				1	0.65	0.06	1	0.45	0.02	1	0.37	0.03	1	0.47	1.20	1	0.65	2.63
10/19/2022	32.92	28.81																																																
10/20/2022	19.89	28.46																																																
10/21/2022	19.45	27.30																																																
10/22/2022	18.46	29.12																																																
10/23/2022	19.07	29.31		1	0.05	0.02		1	0.04	0.01		1	0.04	0.02		1	0.04	0.02																																
10/24/2022	22.15	49.83		1	0.35	0.26		1	0.21	0.02		1	0.19	0.08		1	0.25	0.12																																
10/25/2022	22.37	45.18		1	0.22	0.09		1	0.14	0.02		1	0.24	0.10		1	0.20	0.07																																
10/26/2022	21.89	47.68		1	0.04	0.02		1	0.18	0.02		1	0.05	0.03		1	0.09	0.02																																
10/27/2022	22.11	27.92						1	0.01	0.01		1	0.01	0.01		1	0.01	0.01																																
10/28/2022	18.82	26.83																																																
10/29/2022	18.68	28.81																																																
10/30/2022	19.08	30.04																																																
10/31/2022	19.28	26.87																																																
11/1/2022	19.19	28.06		1	0.02	0.01		1	0.02	0.01		1	0.03	0.02		1	0.02	0.01																																
11/2/2022	19.39	28.22																																																
11/3/2022	18.05	27.31																																																
11/4/2022	18.11	26.17																																																
11/5/2022	17.62	28.24																																																
11/6/2022	19.16	29.76																																																
11/7/2022	17.53	26.32		1	0.03	0.03		1	0.02	0.01		1	0.04	0.02		1	0.03	0.02																																
11/8/2022	16.91	26.02																																																
11/9/2022	16.26	26.31																																																
11/10/2022	16.42	25.10																																																
11/11/2022	21.61	67.74	67.74	1	0.50	0.21	0.21	1	0.11	0.03	0.03	1	0.59	0.23	0.23	1	0.40	0.16	0.16	1	3.47	1.26	1	1.63	2.20				1	1.78	1.65				1	0.73	0.09							1	0.37	0.80	1	1.78	4.74
11/12/2022	26.66	44.42		1	0.07	0.04		1	0.36	0.05		1	0.11	0.07		1	0.18	0.05																																
11/13/2022	23.36	52.03		1	0.38	0.11		1	0.12	0.01		1	0.28	0.09		1	0.26	0.07																																
11/14/2022	18.77	27.51						1	0.07	0.01						1	0.02	0.01																																
11/15/2022	17.19	32.69		1	0.02	0.01		1	0.19	0.06		1	0.04	0.03		1	0.08	0.03																																
11/16/2022	35.85	54.71	54.71	1	0.91	0.12	0.12	1	0.85	0.17	0.17	1	0.93	0.12	0.12	1	0.90	0.14	0.14	1	0.15	0.11	1	2.77	4.52				1	2.38	1.85																		1	2.77	6.37
11/17/2022	20.38	48.54											0.01	0.01		1	0.01	0.01																																
11/18/2022	19.75	27.43																																																
11/19/2022	19.47	30.50																																																
11/20/2022	19.83	30.61																																																
11/21/2022	18.85	28.83																																																
11/22/2022	18.98	28.46																																																
11/23/2022	19.22	28.19																																																
11/24/2022	18.95	33.07																																																
11/25/2022	18.25	28.14																																																
11/26/2022	18.36	29.75																																																
11/27/2022	25.27	62.39		1	0.58	0.14		1	0.42	0.07		1	0.54	0.14		1	0.51	0.12		1	3.17	1.65																												
11/28/2022	25.70	48.82		1	0.01	0.01		1	0.08	0.07		1	0.02	0.02		1	0.04	0.03																																
11/29/2022	19.20	29.88																																																
11/30/2022	29.33	91.11		1	0.53	0.14		1	0.44	0.06		1	0.51	0.15		1	0.49	0.12		1	2.82	4.63																												
12/1/2022	21.78	39.37						1	0.02	0.01						1	0.01	0.01																																
12/2/2022	20.11	27.65																																																
12/3/2022	24.83	52.21		1	0.23	0.08		1	0.21	0.05		1	0.24	0.08		1	0.23	0.07																																
12/4/2022	20.88	30.44																																																
12/5/2022	20.07	28.54																																																
12/6/2022	19.92	30.45		1	0.06	0.03		1	0.05	0.01		1	0.06	0.03		1	0.06	0.02																																
12/7/2022	38.34	88.01		1	0.75	0.17		1	0.66	0.05		1	0.64	0.16		1	0.68	0.13		1	7.10	6.04																												
12/8/2022	21.88	30.42										1	0.01	0.01		1	0.01	0.01																																
12/9/2022	21.45	28.96																																																
12/10/2022	20.81	30.64																																																
12/11/2022	20.40	31.21																																																

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2022

Date	Clean Water Discharge			River's Edge Precipitation				Duck Island Precipitation				Warren Station Precipitation				Averaged Precipitation			
	Flow (MG)	Peak Hour (MGD)	Event Peak (MGD)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)
12/12/2022	20.07	29.17		1	0.02	0.01		1	0.04	0.02		1	0.01	0.01		1	0.02	0.01	
12/13/2022	19.89	28.87		1	0.01	0.01										1	0.01	0.01	
12/14/2022	19.39	27.98										1	0.01	0.01		1	0.01	0.01	
12/15/2022	20.28	36.97		1	0.11	0.04		1	0.09	0.02		1	0.13	0.05		1	0.11	0.04	
12/16/2022	59.53	101.79	101.79	1	1.42	0.15	0.15	1	0.78	0.05	0.05	1	1.52	0.15	0.15	1	1.24	0.12	0.12
12/17/2022	33.67	60.77		1	0.28	0.05		1	0.77	0.08		1	0.21	0.04		1	0.42	0.06	
12/18/2022	25.71	34.73						1	0.09	0.03						1	0.03	0.01	
12/19/2022	24.56	32.61																	
12/20/2022	23.82	31.92																	
12/21/2022	23.08	31.01																	
12/22/2022	24.31	71.63		1	0.30	0.09		1	0.24	0.09		1	0.30	0.09		1	0.28	0.09	
12/23/2022	83.36	110.04	110.04	1	2.17	0.37	0.37	1	2.10	0.27	0.27	1	2.20	0.30	0.30	1	2.16	0.31	0.31
12/24/2022	38.16	49.62																	
12/25/2022	33.44	43.75																	
12/26/2022	32.30	50.40																	
12/27/2022	31.11	40.66																	
12/28/2022	29.55	38.23																	
12/29/2022	27.98	37.47																	
12/30/2022	27.28	36.20																	
12/31/2022	28.11	47.04		1	0.23	0.05		1	0.19	0.05		1	0.24	0.06		1	0.22	0.05	

Date	Treated High Flow			Barasford Street			Beaver Brook			Merrimack Street			Read Street			Tilden Street			Walker Street			Warren Street			West Street			All Diversions		
	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)
12/12/2022																														
12/13/2022																														
12/14/2022																														
12/15/2022																														
12/16/2022	1	16.97	25.78							1	6.65	0.90																1	6.65	0.90
12/17/2022	1	0.43	0.79																											
12/18/2022																														
12/19/2022																														
12/20/2022																														
12/21/2022																														
12/22/2022	1	1.30	0.68																											
12/23/2022	1	23.30	44.94	1	3.35	5.99	1	0.30	0.02	1	5.20	7.23				1	2.72	0.42				1	0.35	0.45	1	7.85	13.50	1	7.85	27.61
12/24/2022																														
12/25/2022																														
12/26/2022																														
12/27/2022																														
12/28/2022																														
12/29/2022																														
12/30/2022																														
12/31/2022																														

Date	Plant Effluent			River's Edge Precipitation				Duck Island Precipitation				Warren Precipitation				Averaged Precipitation			
No. Days 365	Flow (MG)	Peak Hour (MGD)	Event Peak (MGD)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)	Precip Days (No.)	Daily Total (Inches)	Peak Hour (Inches)	Event Peak hour (Inches)
Total/Max	8,972.42	110.04	110.04	124	38.28	0.89	0.89	127	33.44	0.76	0.76	129	37.50	0.73	0.73	147	36.54	0.65	0.65
Average	24.58	39.74	91.31		0.31	0.13	0.36		0.26	0.10	0.28		0.29	0.12	0.35		0.25	0.10	0.33

Date	Treated High Flow			Barasford Street			Beaver Brook			Merrimack Street			Read Street			Tilden Street			Walker Street			Warren Street			West Street			All Diversions		
No. Days 365	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)	Event (No.)	Duration (Hours)	Volume (MG)
Total/Max	47	249.00	349.41	14	29.18	43.65	16	12.10	10.55	18	39.22	50.56	2	0.20	0.02	18	21.18	14.77	9	7.00	7.47	15	12.95	35.79	14	31.22	66.00	23	51.38	228.81
Average		5.30	7.43		2.08	3.12		0.76	0.66		2.18	2.81		0.10	0.01		1.18	0.82		0.78	0.83		0.86	2.39		2.23	4.71		2.23	9.95