

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
December 29, 2023	0.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.92	4.56	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
December 28, 2023	0.71	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	13.05	12.54	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
December 22, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.32	2.97	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
December 21, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	20.63	16.71	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

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January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
December 20, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	24.00	25.80	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
December 19, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	24.00	48.18	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	4.67	5.80	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.30	0.51	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
December 18, 2023	2.82	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	24.00	54.83	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	3.35	4.80	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	22.85	41.00	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	3.40	8.31	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	4.90	3.39	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	16.18	31.02	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	16.83	49.63	Heavy Rain/High Flow
December 17, 2023	0.56	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.23	7.35	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.20	1.20	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.72	0.03	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.42	0.42	Heavy Rain/High Flow

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Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
December 11, 2023	1.65	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	22.40	42.84	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.68	1.36	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	9.15	20.00	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.18	1.54	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	5.08	1.45	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	7.02	13.38	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	5.55	9.70	Heavy Rain/High Flow
December 10, 2023	0.64	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	5.30	10.21	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
December 03, 2023	0.71	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	7.65	8.87	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
November 22, 2023	1.48	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	14.48	24.13	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.48	0.17	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	6.30	9.40	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.42	0.19	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.63	2.16	Heavy Rain/High Flow

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January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
October 26, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.00	0.00	No Discharge
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.05	0.02	Dry Weather Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
October 22, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.98	0.21	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
October 21, 2023	0.95	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	9.23	10.43	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.33	0.10	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	5.68	6.00	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.40	0.48	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.97	0.26	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.68	0.92	Heavy Rain/High Flow
September 30, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.38	0.09	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

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Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause		
September 29, 2023	0.55	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	6.78	11.20	Heavy Rain/High Flow		
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge		
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.02	0.00	No Discharge		
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.38	0.50	Heavy Rain/High Flow		
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge		
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge		
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge		
September 25, 2023	0.29	Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.90	0.09	Heavy Rain/High Flow		
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge		
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge		
		September 20, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.18	0.99	Heavy Rain/High Flow
				Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
				Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
				West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
Read Station	CSO			42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge		
First Street	CSO			42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge		
Warren Station	CSO			42.6428	-71.30502	Concord River	0.00	0.00	No Discharge		
September 19, 2023	0.23	Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge		
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge		
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge		
		LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	23.98	27.30	Heavy Rain/High Flow		
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge		
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.70	0.22	Heavy Rain/High Flow		
		West Station	CSO	42.6525	-71.31032	Merrimack River	4.58	7.90	Heavy Rain/High Flow		
September 19, 2023	0.23	Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge		
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge		
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.37	0.29	Heavy Rain/High Flow		
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.10	0.43	Heavy Rain/High Flow		
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.90	1.84	Heavy Rain/High Flow		
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.58	3.76	Heavy Rain/High Flow		

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January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
September 18, 2023	2.43	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	11.03	19.99	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.90	0.38	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	2.87	2.72	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	7.95	20.30	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	2.40	4.39	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	4.95	2.88	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	5.03	9.73	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	5.55	14.19	Heavy Rain/High Flow
September 13, 2023	0.40	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	5.47	7.32	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.65	0.19	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
September 12, 2023	0.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.77	5.04	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
September 11, 2023	1.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.73	8.47	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	1.55	4.33	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.97	2.90	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	3.10	5.10	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.40	8.19	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	2.55	2.50	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	2.87	5.46	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	3.00	8.75	Heavy Rain/High Flow

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
September 10, 2023	0.36	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.32	6.54	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.10	0.05	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.45	0.09	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
September 08, 2023	0.35	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	5.17	5.06	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.27	0.12	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.35	0.62	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.52	0.11	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
August 30, 2023	0.47	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	10.85	9.57	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.80	0.49	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.23	1.70	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.03	0.01	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.43	1.09	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.42	0.88	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.03	1.15	Heavy Rain/High Flow
August 25, 2023	1.31	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	22.05	16.81	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.48	0.24	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.05	3.00	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.32	0.56	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.68	0.70	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.60	1.06	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.97	2.47	Heavy Rain/High Flow

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
August 19, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	1.85	0.62	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
August 18, 2023	1.75	Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	2.47	4.80	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.73	9.63	Heavy Rain/High Flow
		LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	14.03	25.85	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	1.60	4.32	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.98	2.02	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.97	5.40	Heavy Rain/High Flow
August 15, 2023	0.86	Read Station	CSO	42.6482	-71.30111	Merrimack River	0.12	0.01	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.60	0.62	Heavy Rain/High Flow
		LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	9.85	13.59	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
August 11, 2023	0.01	First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.40	0.04	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.35	0.57	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.65	2.25	Heavy Rain/High Flow
		LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	8.95	11.20	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.57	0.40	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
August 10, 2023	1.48	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	2.08	3.49	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	1.22	3.85	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.15	3.58	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.62	8.50	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.80	11.09	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	2.15	3.06	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.68	4.12	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.70	11.36	Heavy Rain/High Flow
August 08, 2023	1.68	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	10.07	14.53	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.95	3.32	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.90	2.14	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.70	5.70	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.50	7.15	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.38	1.59	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.40	3.35	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.75	8.74	Heavy Rain/High Flow
July 30, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	5.17	5.66	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
July 29, 2023	1.80	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	7.98	16.10	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	2.45	6.77	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.95	4.43	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	4.07	12.20	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.18	0.02	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	2.63	23.32	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	3.65	4.60	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	2.02	4.53	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	3.20	14.73	Heavy Rain/High Flow

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
July 25, 2023	0.11	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	1.80	0.65	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
July 22, 2023	0.01	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	6.70	7.77	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.23	0.40	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
July 21, 2023	2.02	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	5.67	10.08	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	1.93	4.96	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	2.40	6.08	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	5.72	14.10	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.60	0.25	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.98	24.32	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	3.37	3.85	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	2.42	5.33	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	3.30	11.31	Heavy Rain/High Flow
July 18, 2023	0.09	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.20	0.06	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
July 16, 2023	1.17	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	14.90	20.18	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.83	2.15	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.03	1.80	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	4.57	5.20	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.12	4.57	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.92	1.23	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.42	2.51	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.95	4.57	Heavy Rain/High Flow
July 15, 2023	0.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	2.45	0.81	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
July 14, 2023	1.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	9.85	14.34	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.98	2.93	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.83	2.42	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	2.58	4.50	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.17	0.08	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.85	6.76	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.35	1.93	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.27	2.16	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.58	4.59	Heavy Rain/High Flow
July 10, 2023	0.65	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	8.23	11.52	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
July 04, 2023	0.35	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.87	6.65	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
July 03, 2023	0.80	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	19.88	20.34	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	3.08	6.50	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.93	3.05	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.77	0.89	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	2.82	4.49	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.47	6.94	Heavy Rain/High Flow
July 02, 2023	1.53	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	11.52	16.36	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.77	1.46	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.40	1.73	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	4.52	10.60	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.70	3.00	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.62	1.58	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.82	1.15	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.65	3.24	Heavy Rain/High Flow
June 29, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	2.60	1.51	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
June 28, 2023	1.56	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	6.48	11.42	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.52	0.50	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.95	5.20	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.12	0.03	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.22	7.21	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.85	1.19	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.78	3.22	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.17	8.13	Heavy Rain/High Flow
June 27, 2023	0.67	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	7.77	7.08	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.52	0.48	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.67	0.74	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.53	1.80	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.13	0.03	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.68	4.89	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.78	1.01	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.98	1.44	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.83	1.72	Heavy Rain/High Flow
June 26, 2023	2.32	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	9.27	9.89	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.95	3.02	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	1.15	3.29	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	2.47	11.50	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.50	0.15	Heavy Rain/High Flow
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	1.80	17.18	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	2.00	3.69	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.52	3.31	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.13	11.49	Heavy Rain/High Flow
June 25, 2023	0.45	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.10	2.87	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
June 24, 2023	0.58	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	5.02	7.95	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.47	1.75	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.57	0.57	Heavy Rain/High Flow
June 17, 2023	0.26	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	1.38	0.46	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
June 15, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.90	0.33	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
June 14, 2023	0.37	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.07	3.19	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
June 09, 2023	0.48	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.87	6.98	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.42	0.22	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.68	0.65	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.33	0.70	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.43	1.11	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.78	0.90	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.35	0.47	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.72	1.20	Heavy Rain/High Flow
June 03, 2023	0.01	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.63	0.03	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
June 02, 2023	0.30	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	6.50	5.32	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.83	2.57	Heavy Rain/High Flow
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.15	0.05	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
May 24, 2023	0.30	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.37	4.80	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
May 21, 2023	0.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.85	5.68	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
May 20, 2023	1.29	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	9.33	20.57	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.50	0.16	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	1.75	2.70	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.42	0.37	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.77	0.21	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.33	1.78	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	1.75	2.37	Heavy Rain/High Flow
May 02, 2023	0.49	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	14.63	12.90	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.23	0.17	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
May 01, 2023	0.46	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	15.57	17.00	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.55	0.14	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	3.18	5.90	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.68	1.35	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.47	0.61	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.55	2.02	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.05	4.05	Heavy Rain/High Flow

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
April 30, 2023	1.53	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	11.63	17.02	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.70	2.40	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.77	0.15	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.52	0.85	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.02	3.96	Heavy Rain/High Flow
April 23, 2023	1.98	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	18.90	29.35	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.90	0.26	Heavy Rain/High Flow
		West Station	CSO	42.6525	-71.31032	Merrimack River	2.07	4.10	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.50	0.67	Heavy Rain/High Flow
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	1.77	0.37	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	1.93	2.69	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	2.72	3.30	Heavy Rain/High Flow
April 01, 2023	0.50	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.13	5.15	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
March 18, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	3.50	0.75	Snow Melt/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
March 17, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	21.62	9.93	Snow Melt/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
March 16, 2023	0.00	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	24.00	13.45	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
March 15, 2023	0.73	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	21.35	18.11	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
March 14, 2023	1.90	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	24.00	36.50	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	3.42	5.00	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.93	0.15	Heavy Rain/High Flow
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	3.87	6.55	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	3.95	4.73	Heavy Rain/High Flow

Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
March 13, 2023	0.16	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	0.40	0.26	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
March 02, 2023	0.37	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	4.90	2.81	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
January 27, 2023	0.84	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	1.40	0.58	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
January 26, 2023	0.84	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	24.00	33.22	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	7.42	11.30	Heavy Rain/High Flow
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	3.32	5.22	Heavy Rain/High Flow
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	3.47	3.26	Heavy Rain/High Flow

**Lowell Regional Wastewater Utility
Combined Sewer Overflows
January 01, 2023 - December 31, 2023**

Date	Rain (inches)	Location	Type	Latitude	Longitude	Receiving Water	Duration (Hours)	Volume (MG)	Overflow Cause
January 25, 2023	0.56	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	1.68	1.51	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
January 23, 2023	0.88	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	12.10	13.90	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
January 20, 2023	0.07	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	2.65	0.33	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge
January 19, 2023	0.30	LRWWU	Blended Wastewater	42.6452	-71.28881	Merrimack River	2.08	0.75	Heavy Rain/High Flow
		Walker Station	CSO	42.6462	-71.33407	Merrimack River	0.00	0.00	No Discharge
		Beaver Brook	CSO	42.6593	-71.31925	Beaver Brook	0.00	0.00	No Discharge
		West Station	CSO	42.6525	-71.31032	Merrimack River	0.00	0.00	No Discharge
		Read Station	CSO	42.6482	-71.30111	Merrimack River	0.00	0.00	No Discharge
		First Street	CSO	42.6525	-71.29086	Merrimack River	0.00	0.00	No Discharge
		Warren Station	CSO	42.6428	-71.30502	Concord River	0.00	0.00	No Discharge
		Tilden Station	CSO	42.6507	-71.31152	Merrimack River	0.00	0.00	No Discharge
		Barasford Station	CSO	42.6453	-71.28841	Merrimack River	0.00	0.00	No Discharge
		Merrimack Station	CSO	42.6452	-71.28841	Merrimack River	0.00	0.00	No Discharge

