

CITY OF SPOKANE, WASHINGTON

CSO FLOW MONITORING PROJECT

FLOW, FREQUENCY AND DURATION

SEWER MAINTENANCE

**Monthly Report
July 2025**

August 20, 2025
CSOMonthly2025-07.docx

OVERFLOW EVENTS

Table 1 – Flow-Frequency-Duration, provides a summary of the flow volume calculated for the overflow pipes at each site for each event recorded. The flow calculations are based on flow monitor recorded level and velocity measurements.

Table 1 – Flow-Frequency-Duration

Line No.	Regulator Location	CSO No.	Freq.	Date of event ¹	Estimated Total Flow (Gallons) ²	Event Duration (Min. of Overflow)	Comments
1	AL Parkway Storage (West)	2	None				
2	NW Blvd @ Kiernan Ave	6	None				
3	Columbia @ Downriver	7	None				
4	Cochran @ York	10	None				Missing data 07/11 11:20 to 07/13 10:20 Missing data 07/13 13:35 to 07/14 02:05 Missing data 07/14 02:35 to 07/14 08:50 Missing data 07/14 08:55 to 07/15 06:50 Missing data 07/30 08:35 to 07/30 08:55
5	Pettet Dr & Mansfield	12	None				
6	Sherwood @ Summit	14	None				
7	Nettleton @ Ohio	15	None				
8	Clarke @ Riverside	16	None				
9	7th @ Inland Empire	19	None				Missing data 07/18 07:25 to 07/18 07:30 Missing data 07/18 09:30 to 07/18 09:35
10	Cedar St @ Summit	23-1	None				Missing data 07/25 06:50 to 07/25 06:55
11	Sprague @ Adams	24-1	None				
12	Cedar @ Main	25	None				
13	Lincoln @ Spokane Falls	26	None				Missing data 07/09 08:35 to 07/09 08:40 Missing data 07/28 08:50 to 07/28 08:55

¹ Designation as an event means that both a level and velocity reading were recorded concurrently. Not all level and velocity readings that were coincident are included in this report, however. The level and velocity readings that appear to be “background noise” from the electronic equipment are not included in the table.

² The flows presented in this column are calculated from measurements of velocity and depth of flow by electronic devices inserted in the water stream. These measurements are subject to singular and possibly cumulative errors. These errors result from limitations inherent in the measuring devices and from the introduction of a measuring device into the physical flow stream. Also, error in velocity and depth measurements may be and typically are introduced by the physical conditions of each site. The flow numbers presented in this table are estimates only.

14	Liberty Park (west end)	33-1	None				
15	Sprague Ave west of Sprague Wy	33-2	None				Missing data 07/02 11:50 to 07/02 12:05 Missing data 07/02 12:40 to 07/02 12:55 Missing data 07/11 08:05 to 07/11 08:10
16	Riverside @ Crestline	34	None				Missing data 07/21 08:40 to 07/21 08:45
17	S. Riverton @ Magnolia	38-1	None				
18	Rebecca @ Upriver	41	None				
19	Surro west of Waterworks	42	None				
20	RPWRF CSO-Related Bypass	N/A	None				Permit Section S13.H
	Monthly Total		0		0	0	No Dry Weather Overflows No RPWRF CSO-Related Bypasses

Table 2 – Rainfall Summary³

	343	344	Shadle	Hartson	CityHall	RkwdVsta	Station8	W_Drive	Nora&Pet	Lincoln	Northeast	Crest&Hoff	Flett	GEG			NWS			SFF
Date	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Rain	Snow	Depth	Rain	Snow	Depth	Rain
07/01/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/02/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/03/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/04/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	-	-	-
07/05/25	-	-	0.01	-	0.01	-	0.01	0.01	0.01	0.01	-	-	0.01	T	-	-	0.04	-	-	0.01
07/06/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/07/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/08/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/09/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	-	-	-
07/10/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/11/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/12/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/13/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/14/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/15/25	-	-	-	-	-	-	-	0P	-	-	-	-	-	-	-	-	-	-	-	-
07/16/25	-	-	-	-	-	-	-	0P	-	-	-	-	-	-	-	-	-	-	-	-
07/17/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/18/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	M	M	-
07/19/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	M	-
07/20/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	M	-
07/21/25	-	-	0.01	-	0.02	-	-	0.03	0.02	0.02	0.01	-	0.03	0.05	-	-	T	M	M	0.01
07/22/25	-	-	0.29	-	-	0.01	0.01	-	0.15	0.04	0.03	0.06	0.57	0.02	-	-	0.56	M	M	0.02
07/23/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	M	-
07/24/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	M	-
07/25/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/26/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/27/25	-	-	-	-	-	-	-	0P	-	-	-	-	-	-	-	-	-	-	-	-
07/28/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/29/25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/30/25	0.03	-	-	-	-	-	0.01	0.07	-	-	0.45	0.03	0.01	T	-	-	-	-	-	T
07/31/25	-	-	-	-	-	-	-	0P	-	-	-	-	-	-	-	-	-	-	-	-
Total	0.03	0.00	0.31	0.00	0.03	0.01	0.03	0.11P	0.18	0.07	0.49	0.09	0.62	0.07	0.00		1.20	0.00M		0.04

E – Erroneous Data (Over/Under Count)

M – Missing Data (Whole Day)

P – Partial Missing Data (Less Than 1 Day)

T – Trace of Rain/Snow

³ Some rain gauges are heated. Consequently, they will tend to record snow melt immediately as rain. The rain gauges that are not heated will typically register snow melt when it melts.

Table 3 – Rain Gauges

343	23 rd & Ray
344	Division & Manito
Shadle	Shadle Water Tower (was 345)
Hartson	Ray & Hartson (was 346)
CityHall	City Hall (was 347)
RkwdVsta	Rockwood Vista
Station8	Fire Station 8, Rebecca & Mission
W_Drive	West Drive Reservoir
Nora&Pet	Nora & Pettet
Lincoln	Lincoln Rd Lift Station
Northeast	Northeast Lift Station
Crest&Hoff	Crestline & Hoffman
Flett	Flett Middle School (Near old Joe Albi monitor)
GEG	Spokane Airport
NWS	National Weather Service – Spokane
SFF	Spokane Felts Field