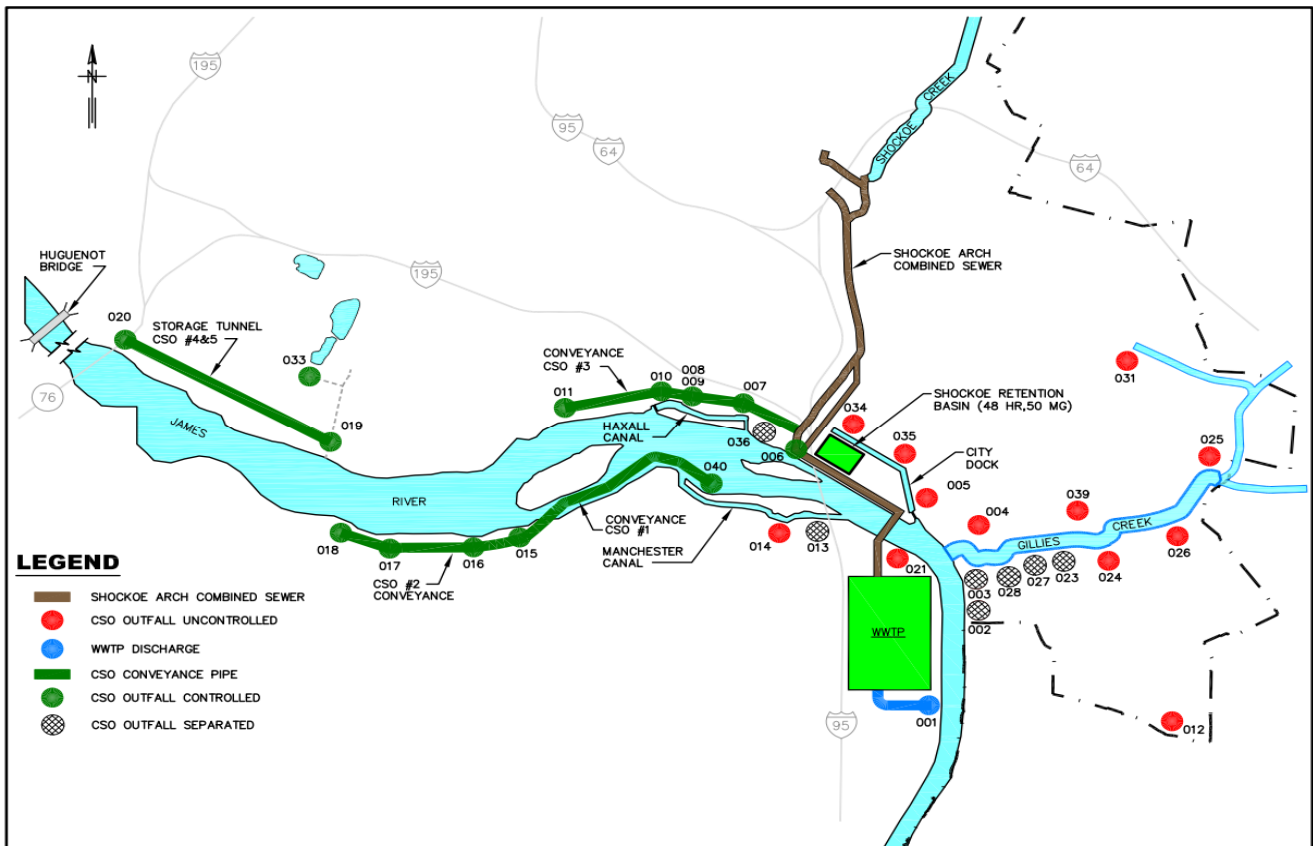


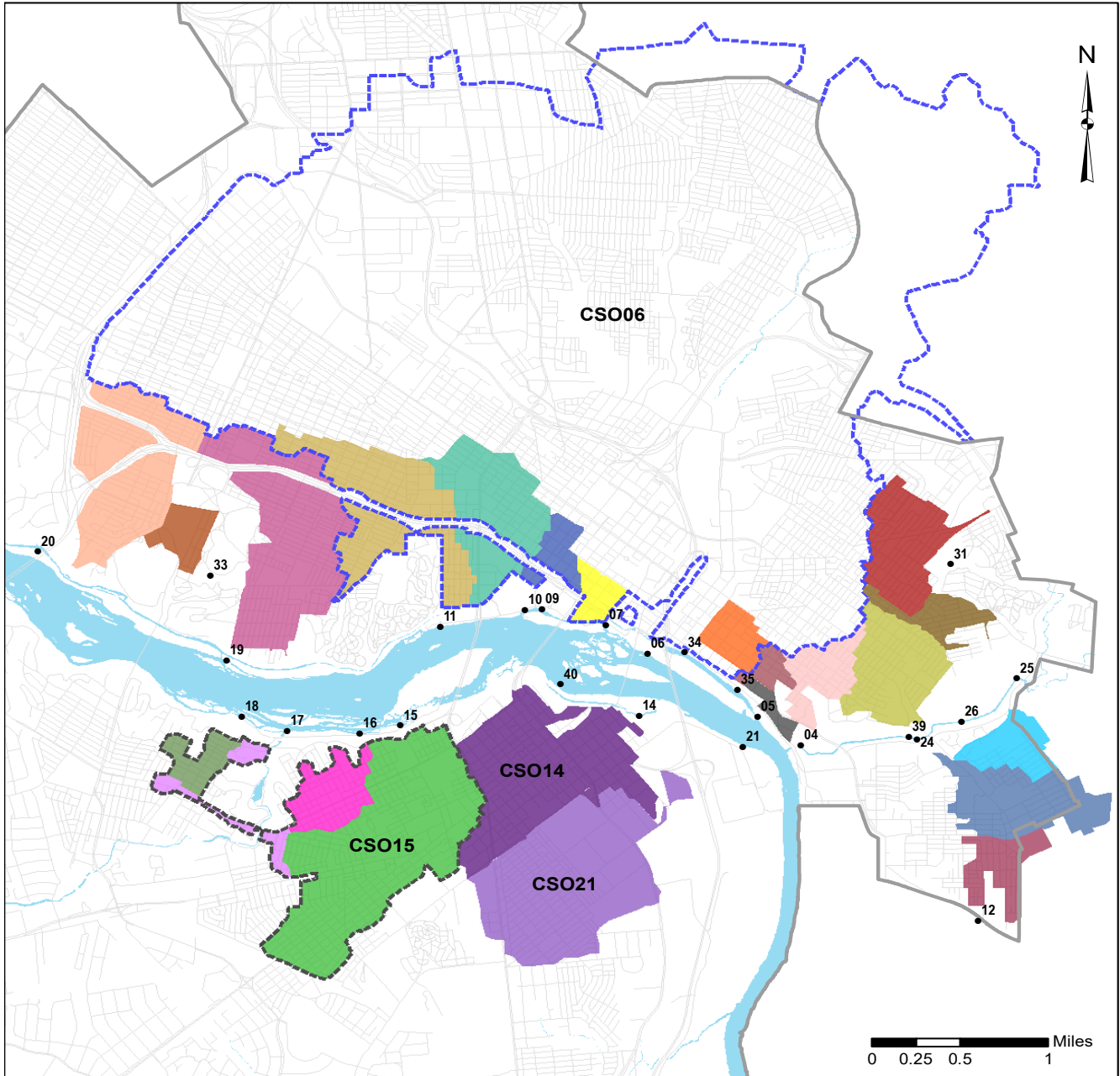
CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

Combined Sewer Overflow Monthly Report

February, 2020



Combined Sewer System Drainage Area Map



Legend

City Limit	CSO04	CSO09	CSO14	CSO18	CSO24	CSO33	CSO40
CSO05	CSO10	CSO15	CSO19	CSO25	CSO34		
CSO06	CSO11	CSO16	CSO20	CSO26	CSO35		
CSO07	CSO12	CSO17	CSO21	CSO31	CSO39		

**CSO04 - Bloody Run
 Overflow Model Summary
 Current Month: February 2020**

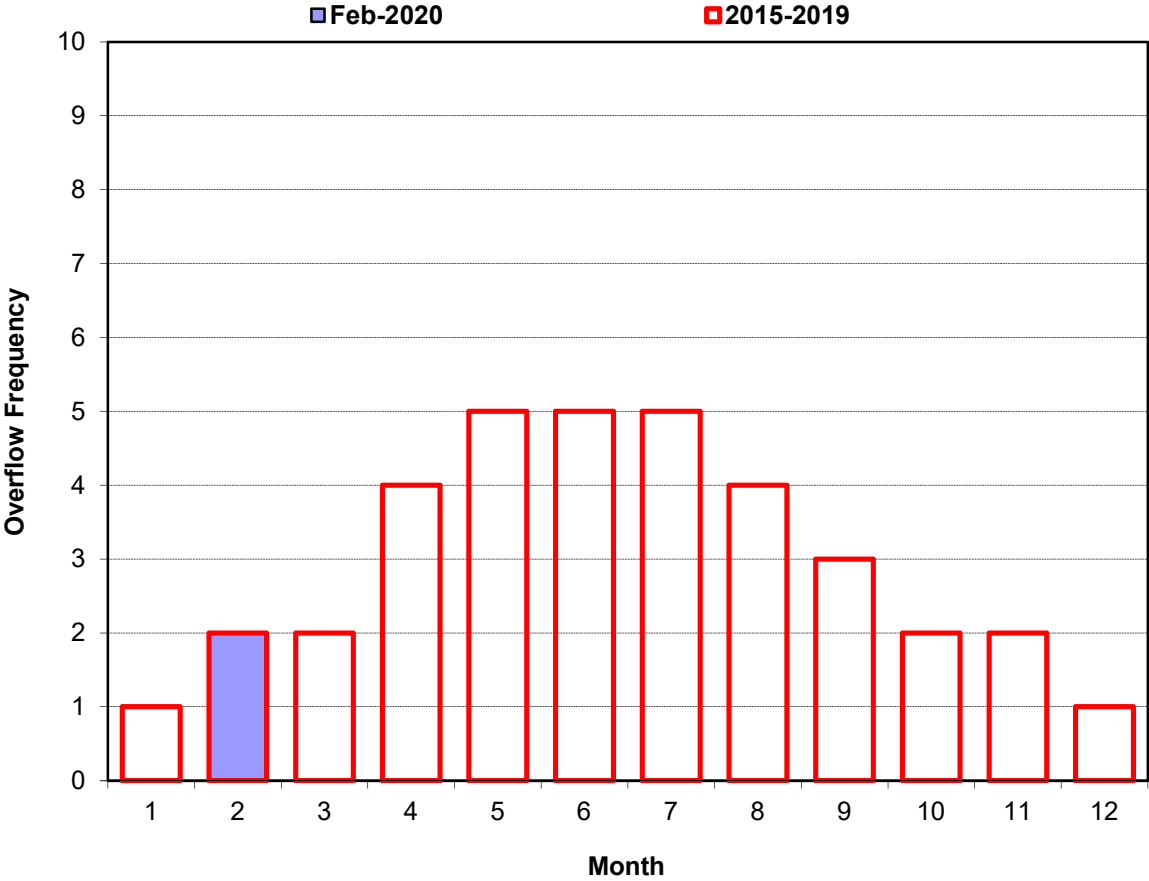
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	0.19	6.83
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	0.05	1.08
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	0.24	7.92

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



**CSO05 - Peach Street
 Overflow Model Summary
 Current Month: February 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1 ⁽³⁾	1.59	7.08	1.32	0.59	8.83
2/7/20		0.22	1.25	0.24	0.19	3.92
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	0.39	4.08
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

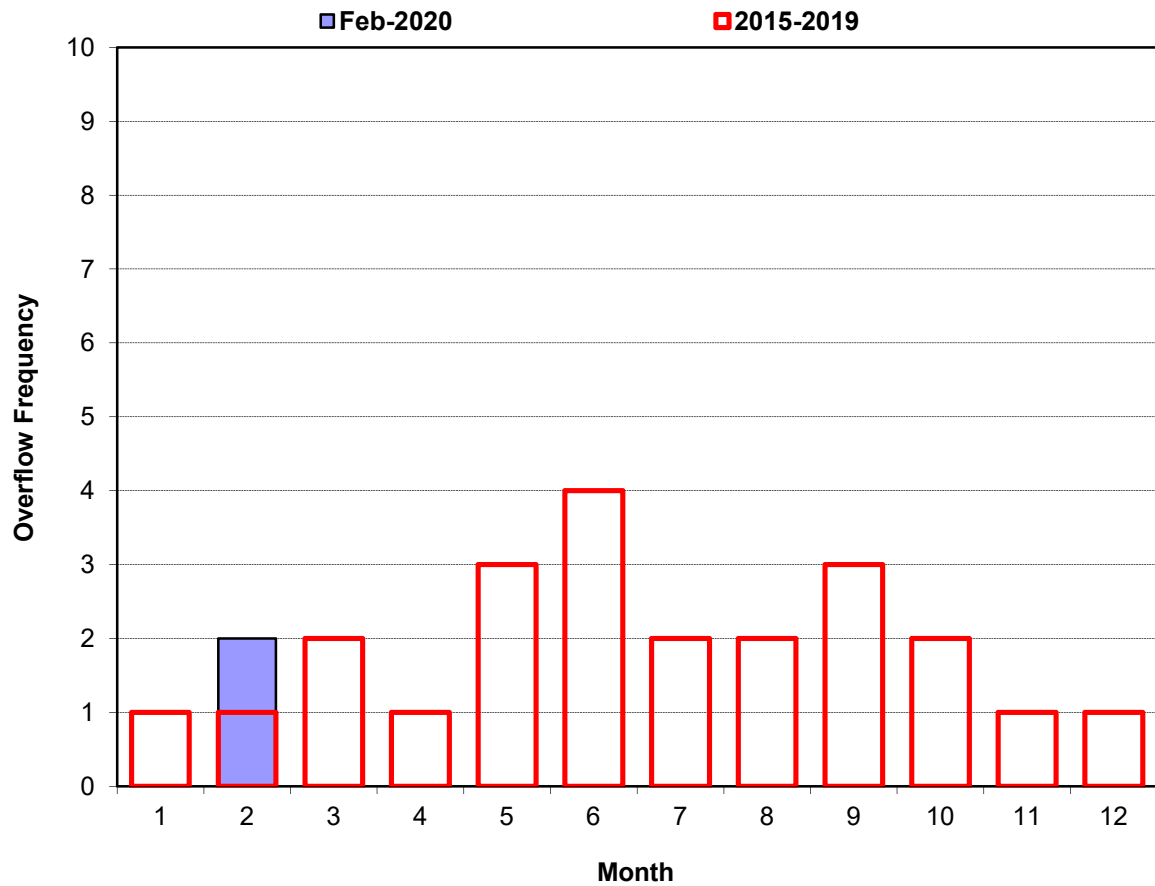
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	1.20	16.83

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



CSO06 - Shockoe
Overflow Model Summary[†]
Current Month: February 2020

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1 ⁽³⁾	1.59	7.08	1.32	102	9.00
2/7/20		0.22	1.25	0.24	38.1	10.08
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	63.9	12.25
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

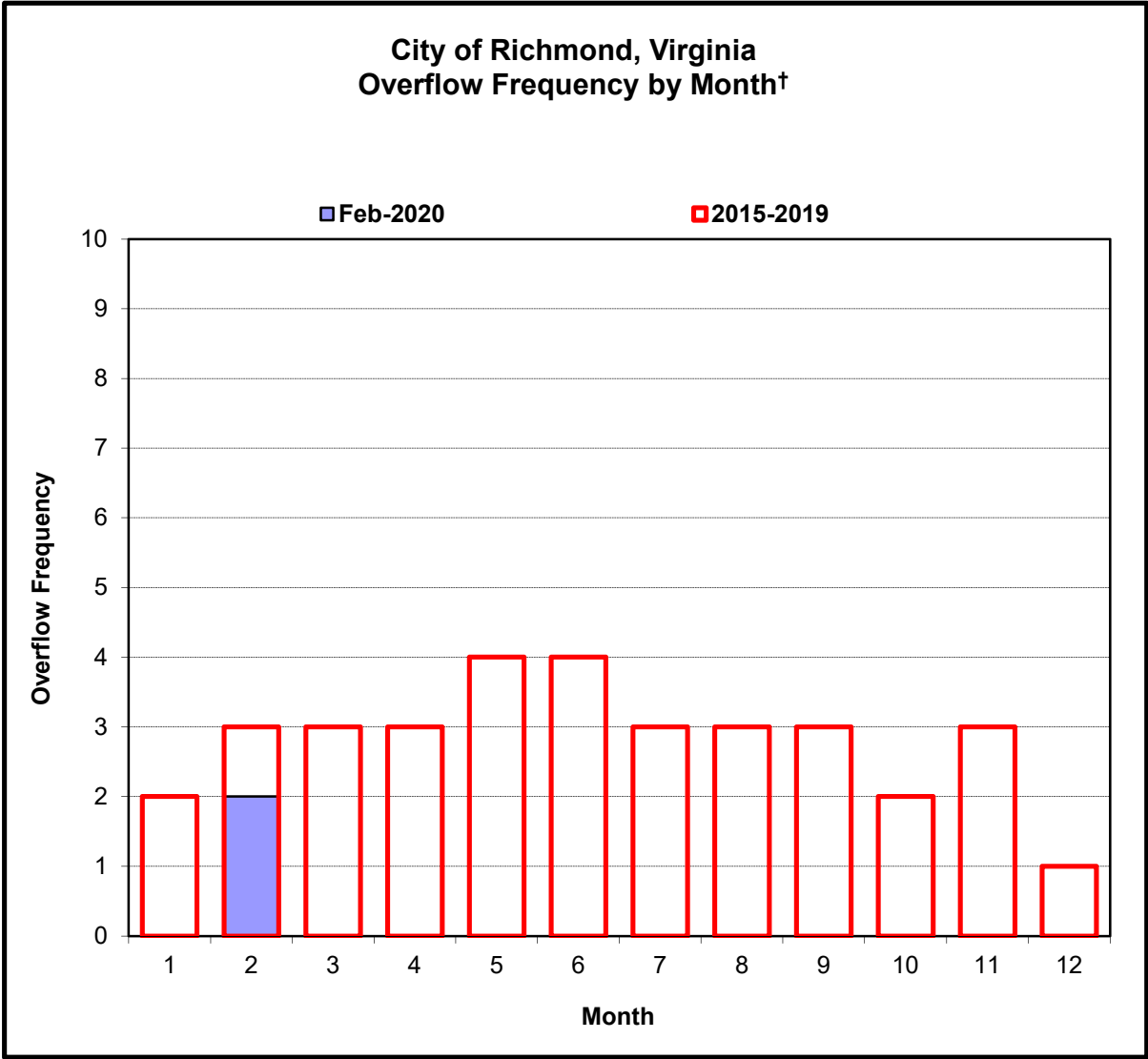
Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	204.00	31.33

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

[†] Permitted discharge when the capacity of CSO retention facilities are fully utilized.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month[†]



[†] Permitted discharge when the capacity of CSO retention facilities are fully utilized per SOP.

**CSO07 - Byrd
Overflow Model Summary
Current Month: February 2020**

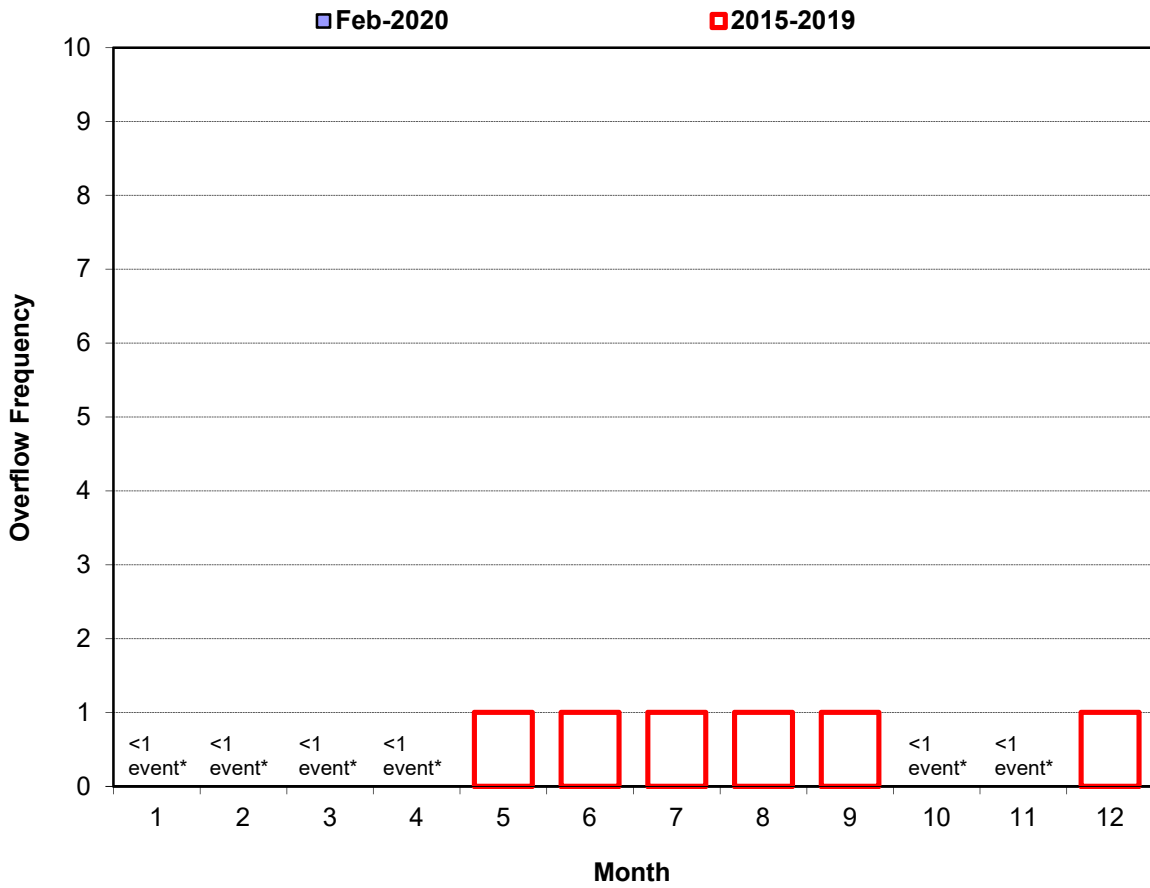
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO09 - 7th Street
Overflow Model Summary
Current Month: February 2020**

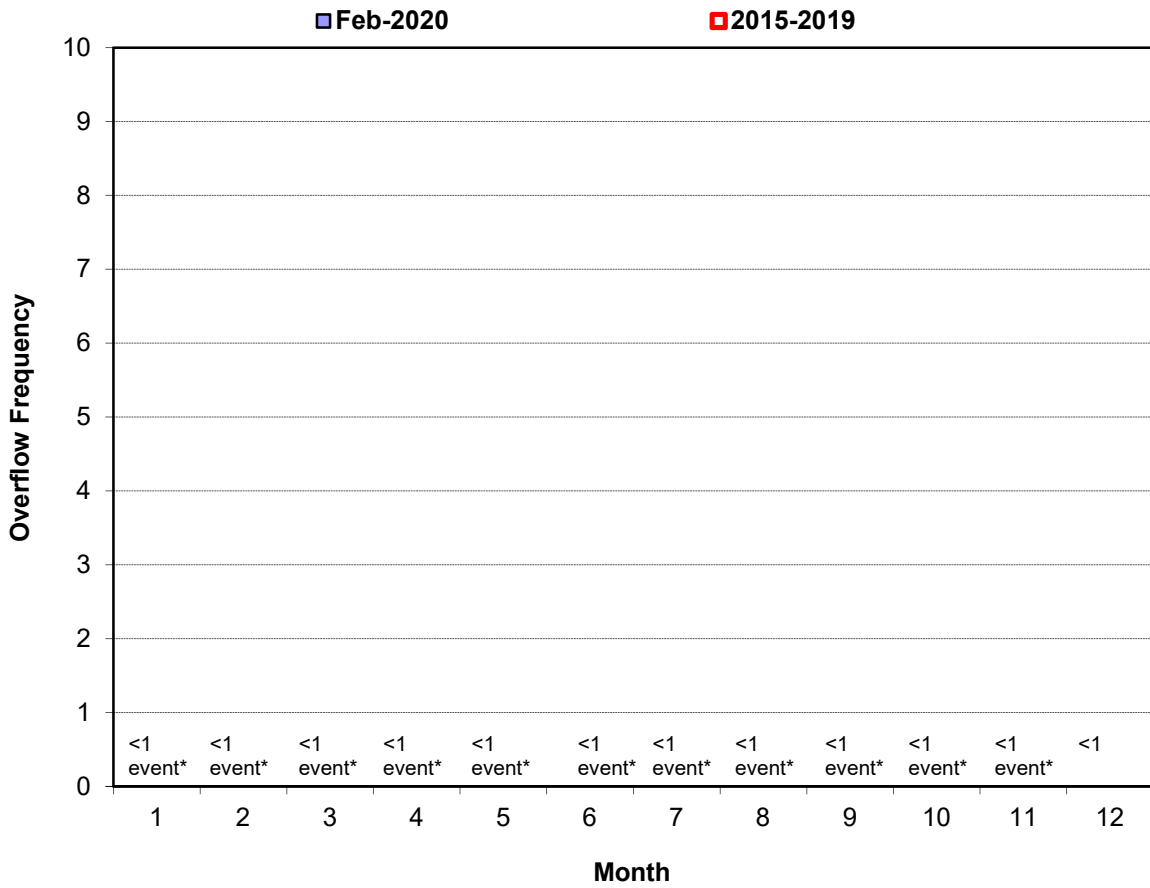
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO10 - Gambles Hill
 Overflow Model Summary
 Current Month: February 2020**

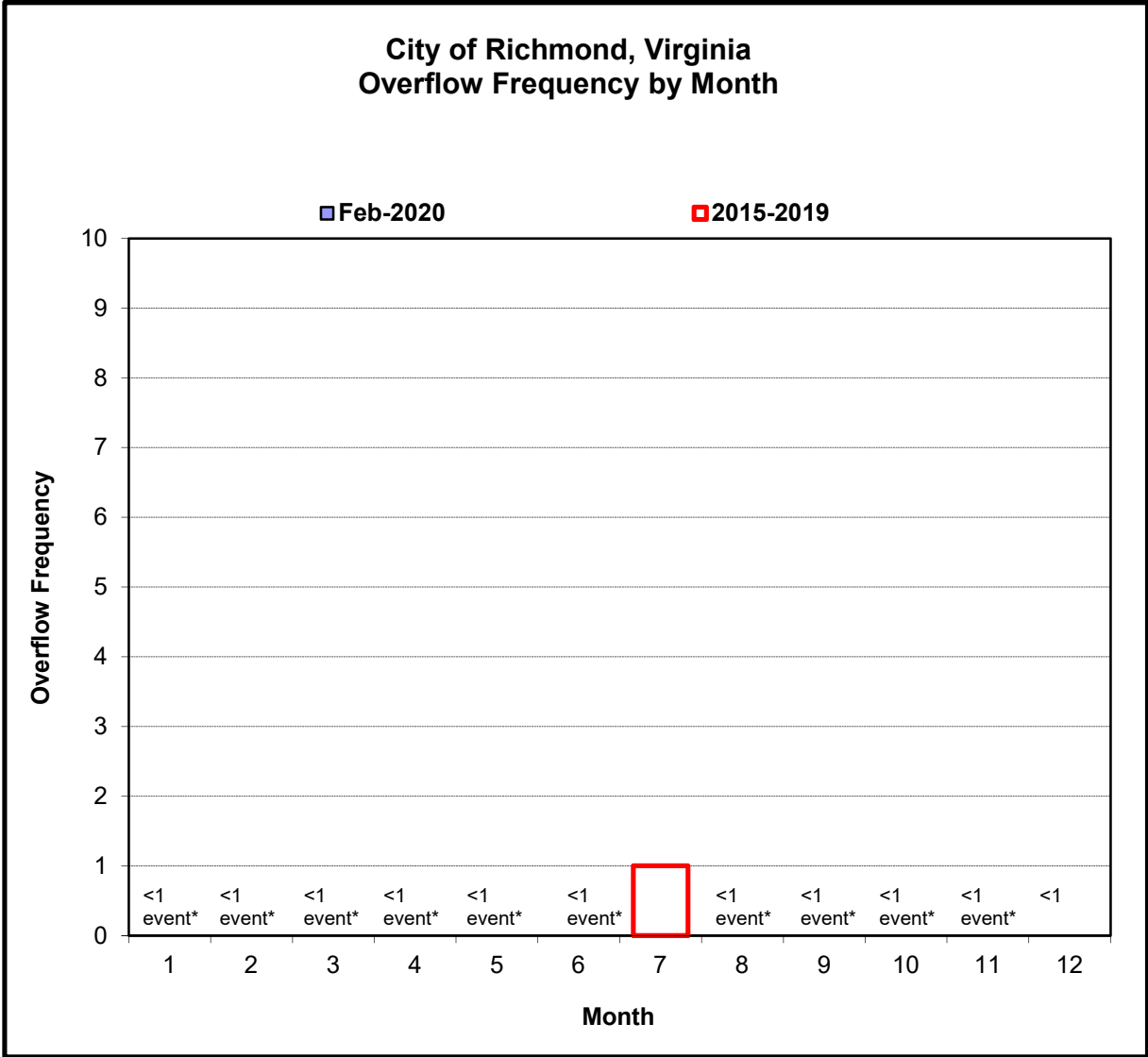
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO11 - Park Hydro
Overflow Model Summary
Current Month: February 2020**

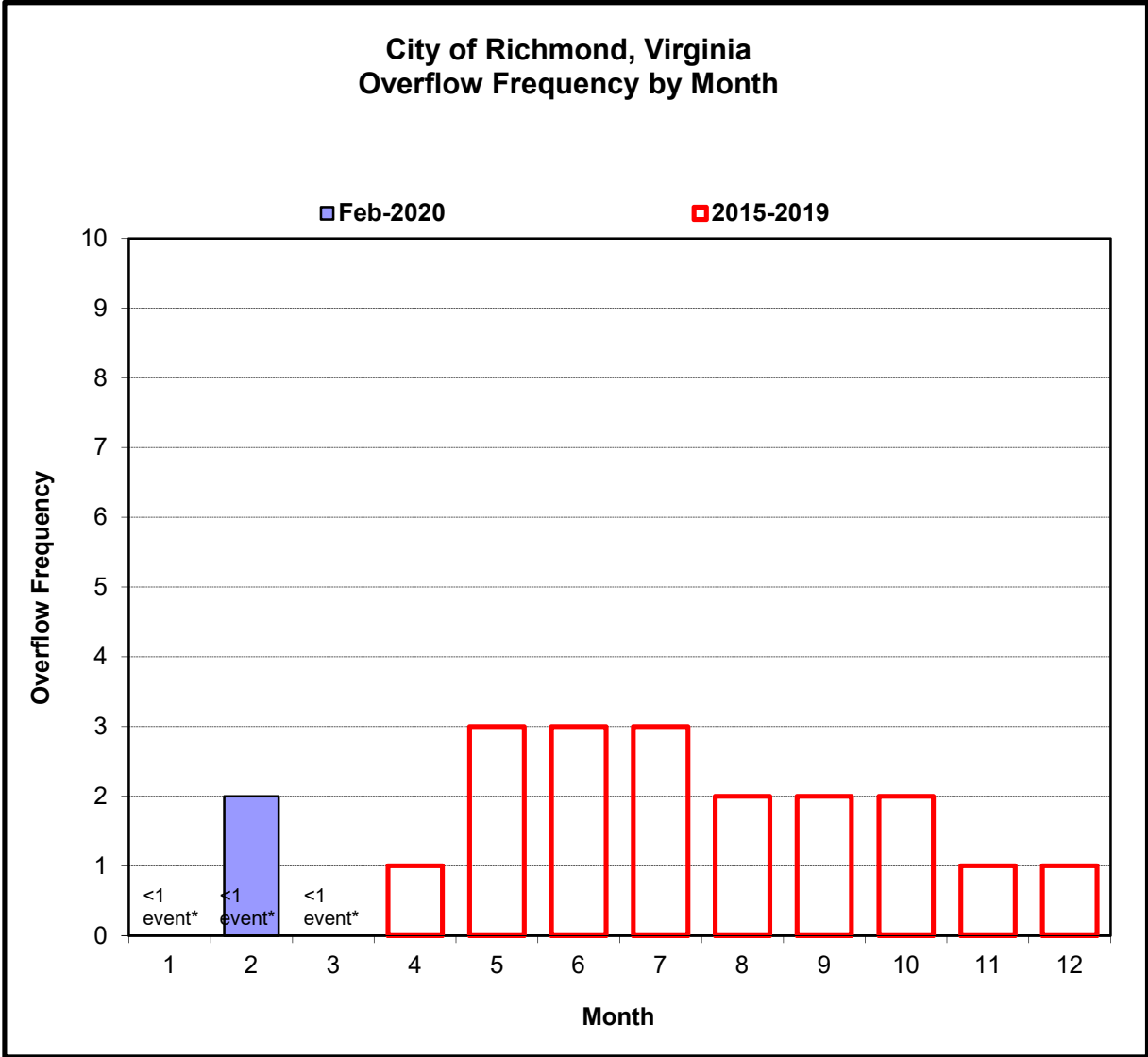
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	2.7	1.33
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	2.3	0.83
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	5.00	2.17

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO12 - Hilton Street
 Overflow Model Summary
 Current Month: February 2020**

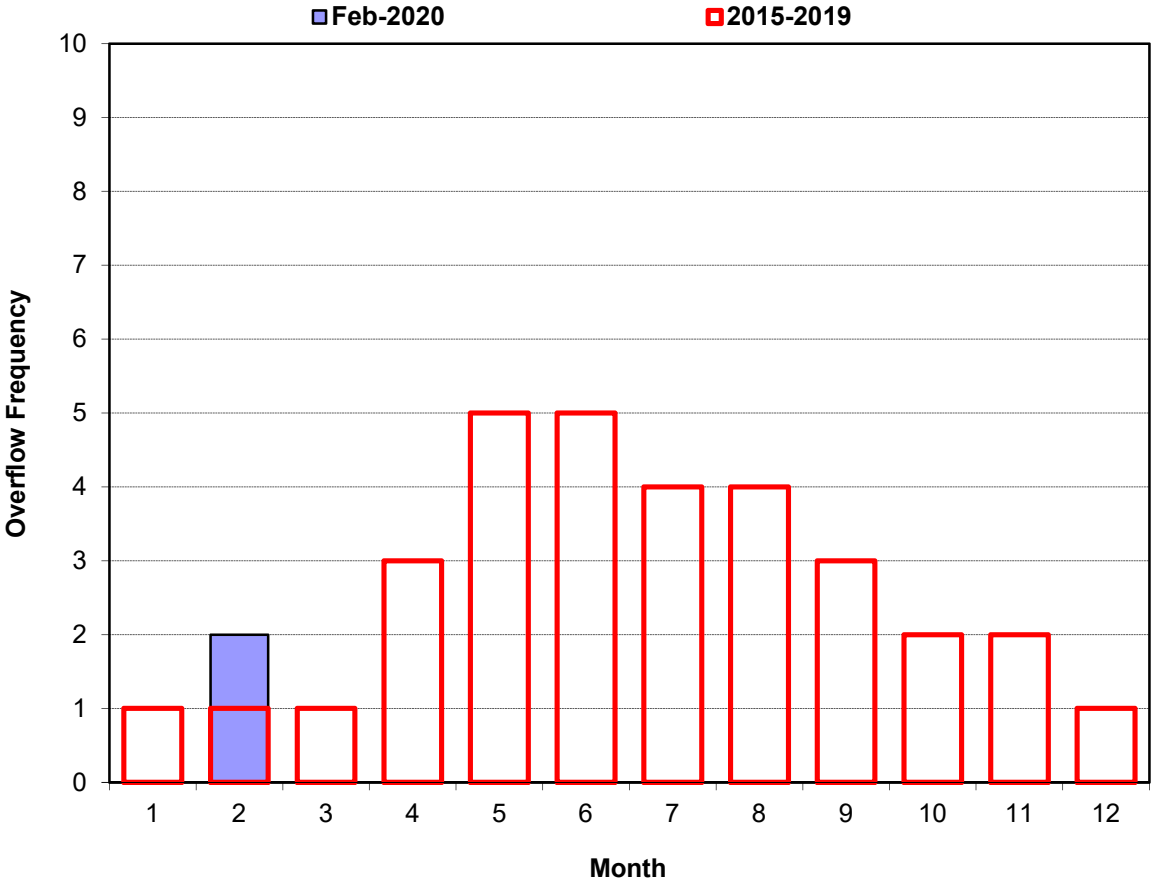
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	0.19	7.67
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	0.04	0.75
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	0.23	8.42

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia
Overflow Frequency by Month



**CSO14 - Stockton
Overflow Model Summary
Current Month: February 2020**

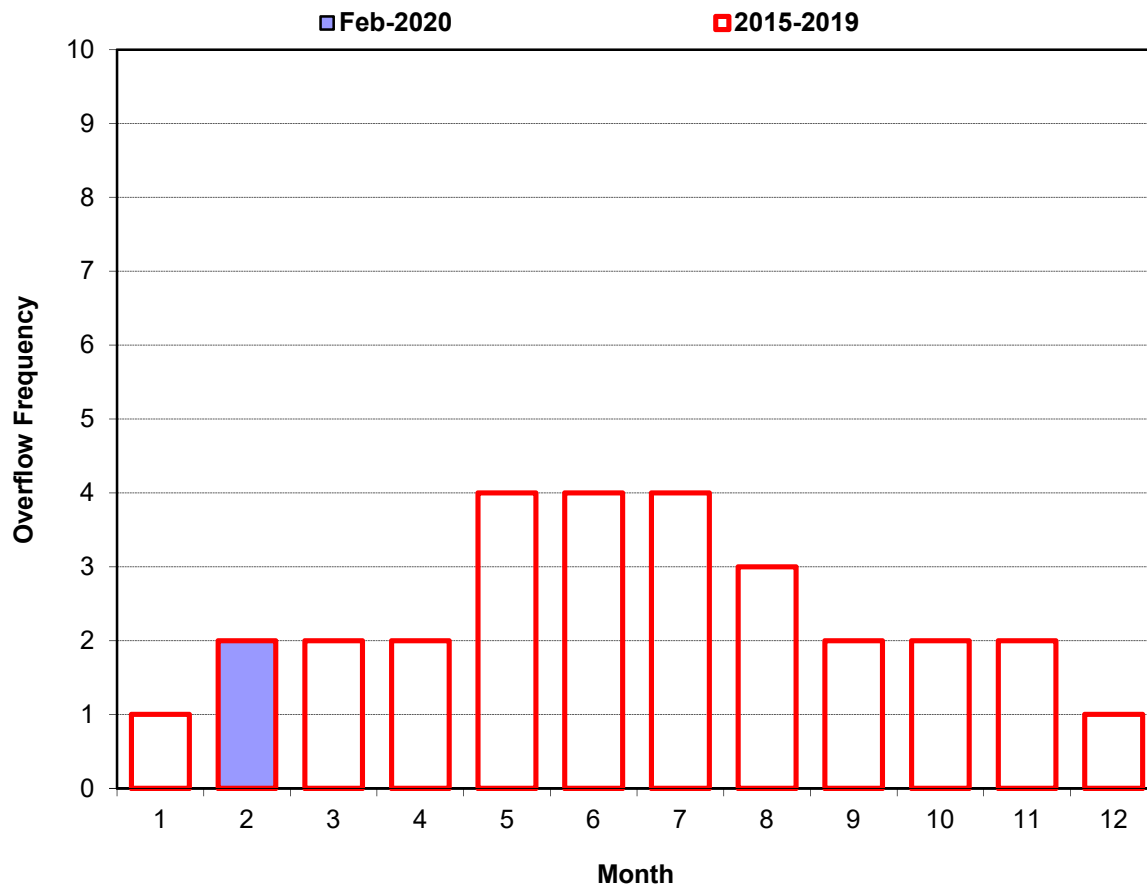
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	2.1	7.67
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	0.72	1.42
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	2.80	9.08

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



**CSO15 - Canoe Run
Overflow Model Summary
Current Month: February 2020**

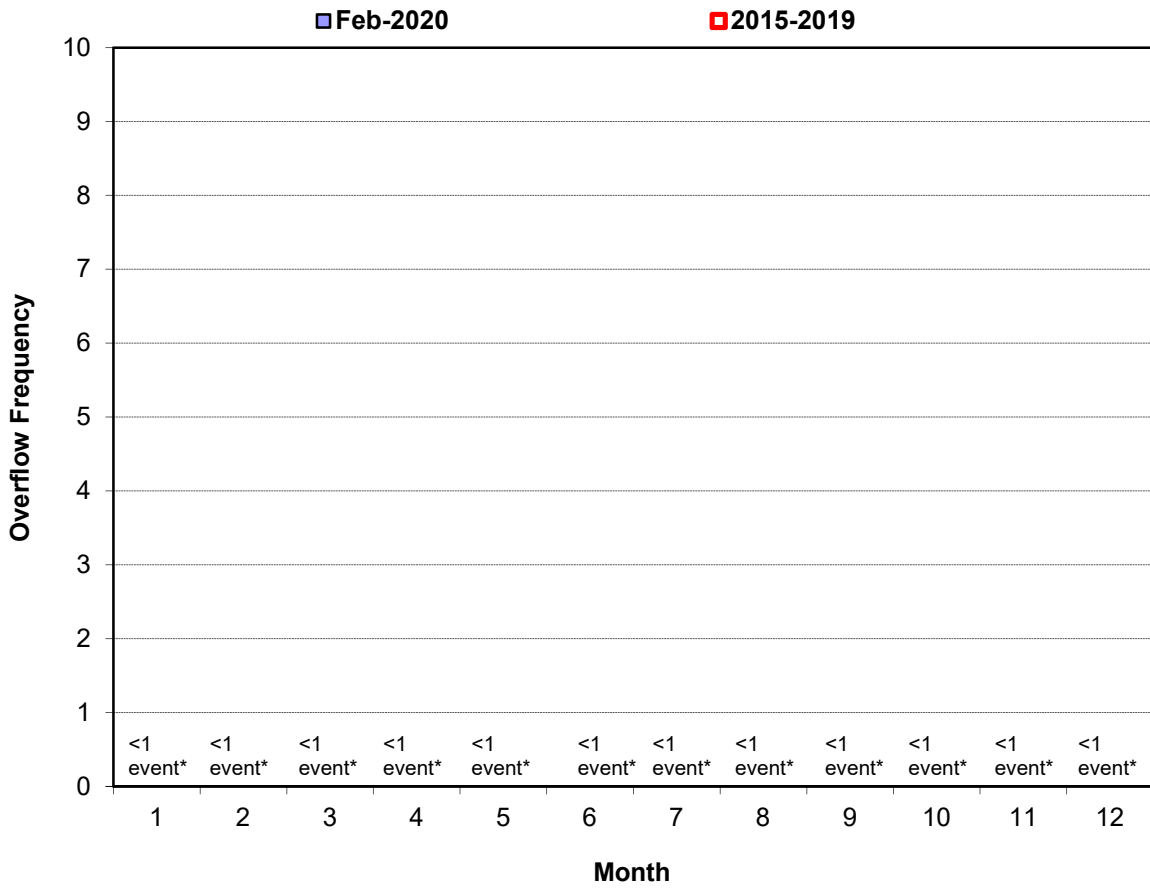
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO16 - Woodland
Overflow Model Summary
Current Month: February 2020**

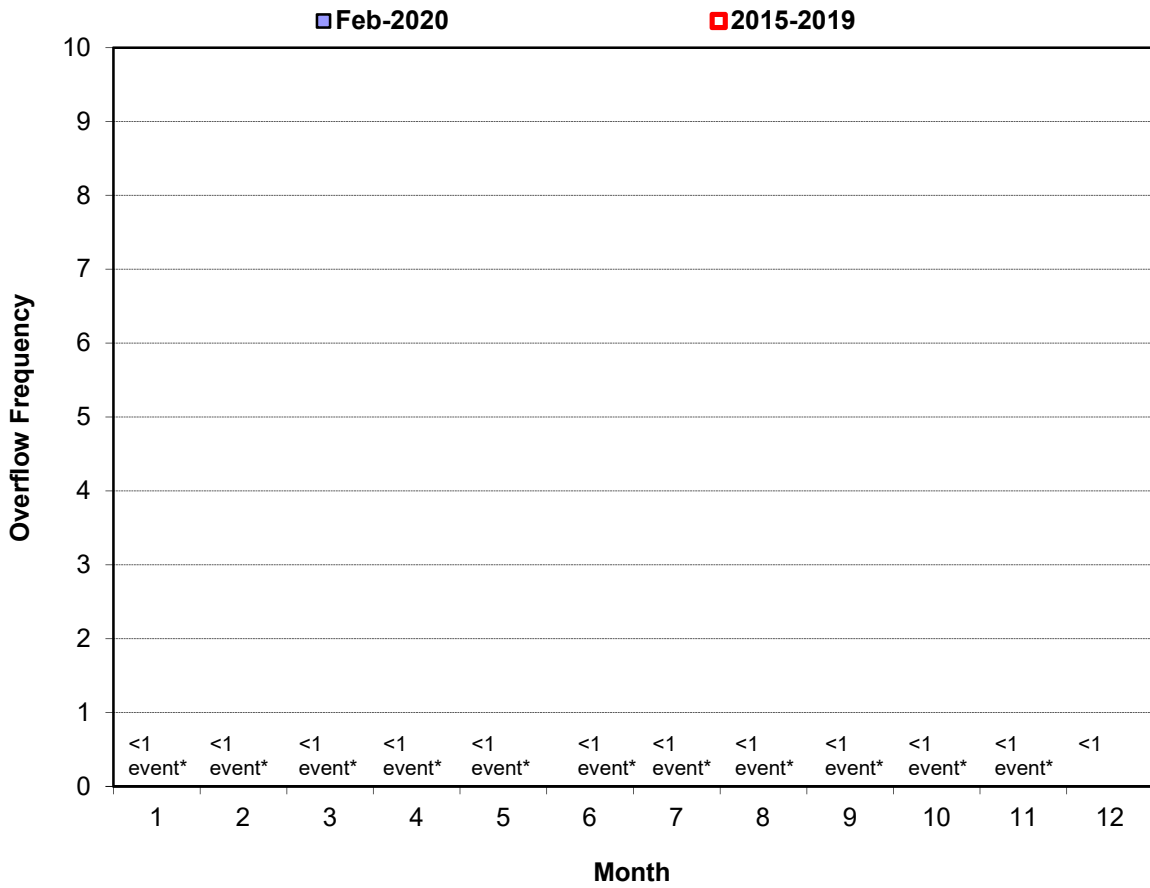
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO17 - Reedy Creek
 Overflow Model Summary
 Current Month: February 2020**

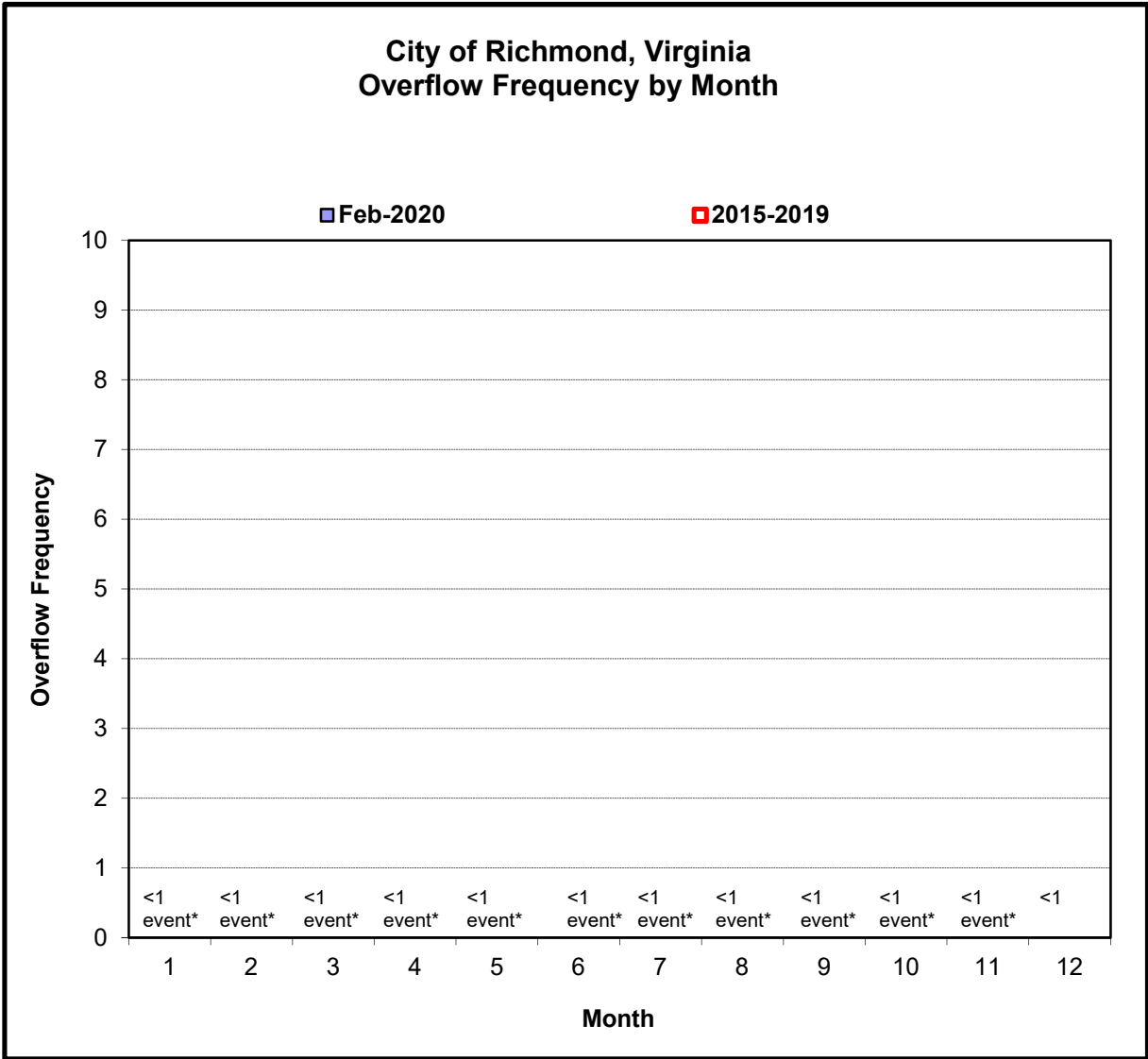
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO18 - 42nd Street
 Overflow Model Summary
 Current Month: February 2020**

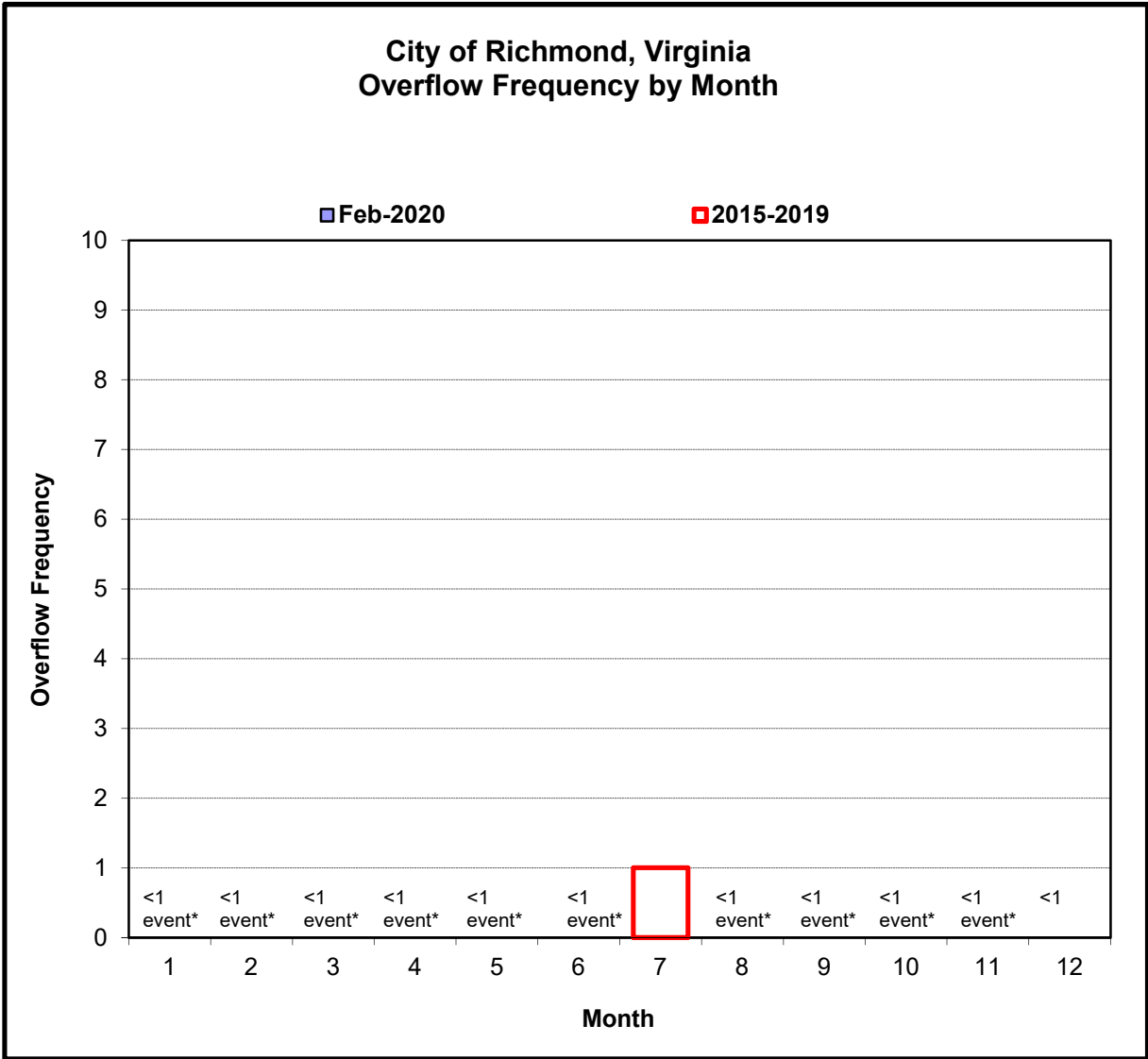
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO19 - Hampton
Overflow Model Summary
Current Month: February 2020**

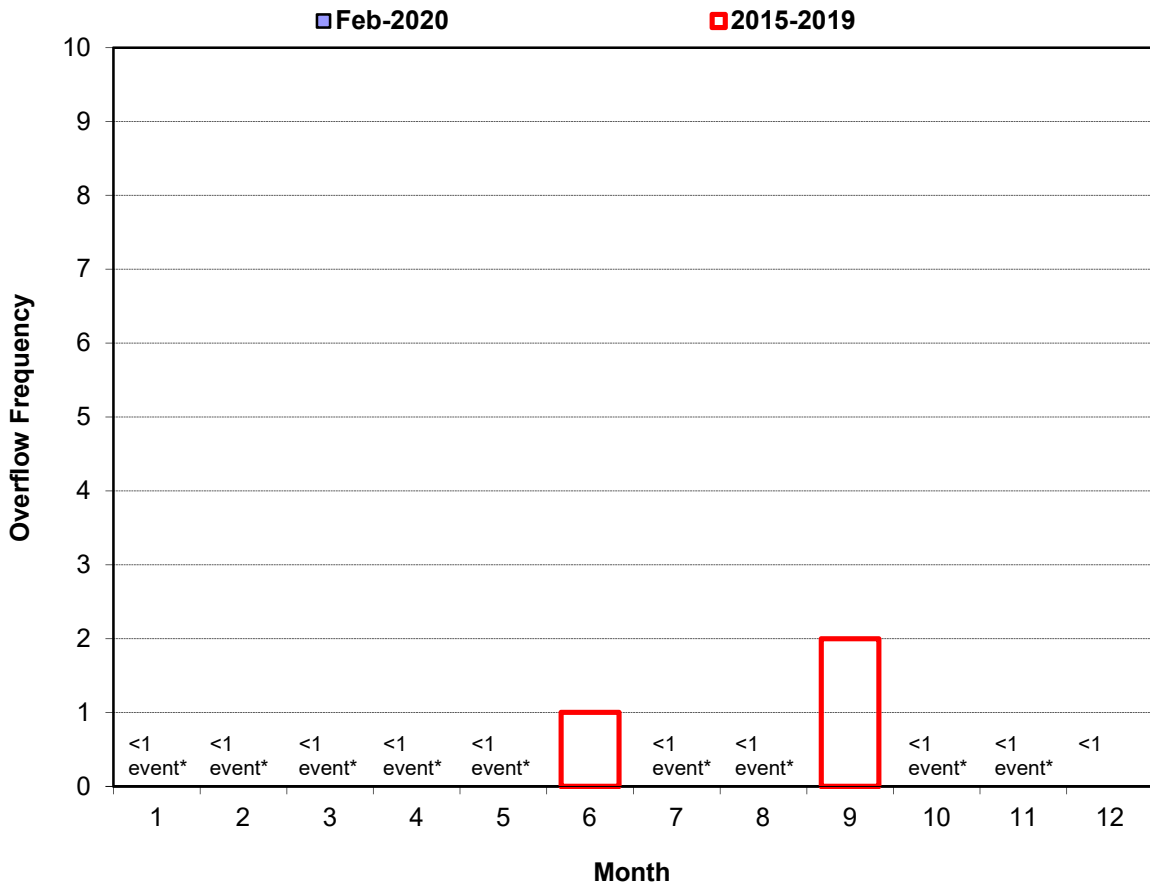
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.120	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

CSO20 - Mc Cloy
Overflow Model Summary
Current Month: February 2020

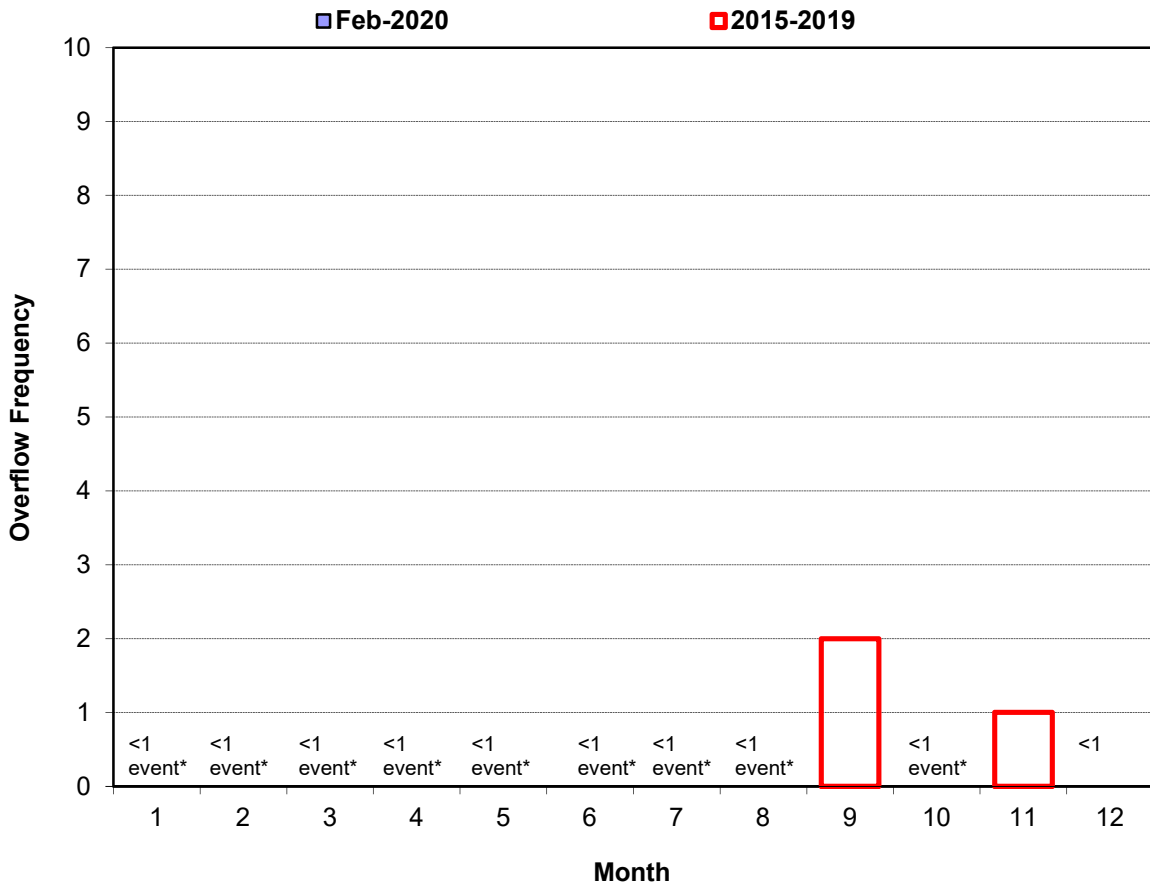
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO21 - Gordon Ave
Overflow Model Summary
Current Month: February 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1 ⁽³⁾	1.59	7.08	1.32	9.90	9.17
2/7/20		0.22	1.25	0.24	2.20	3.50
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	4.30	3.17
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

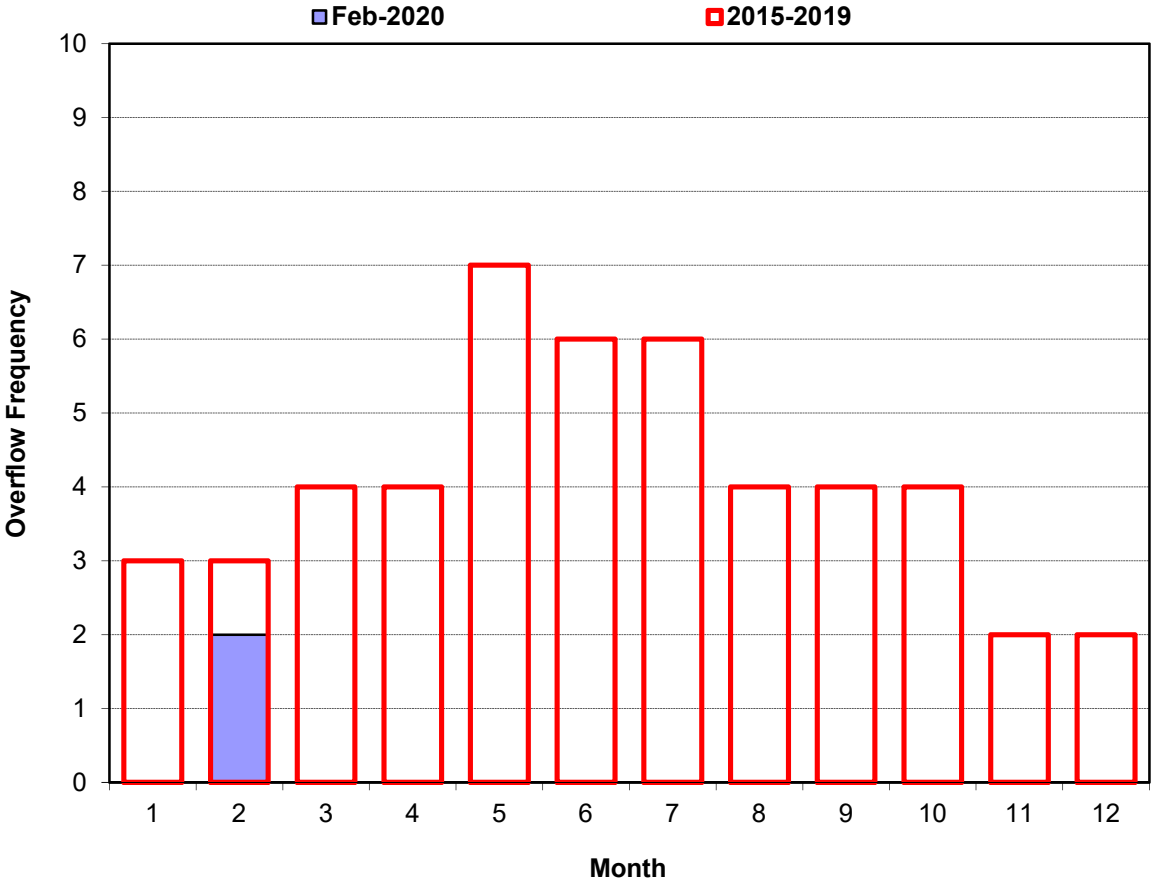
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	16.40	15.83

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia
Overflow Frequency by Month



**CSO24 - Gillies & Varina
 Overflow Model Summary
 Current Month: February 2020**

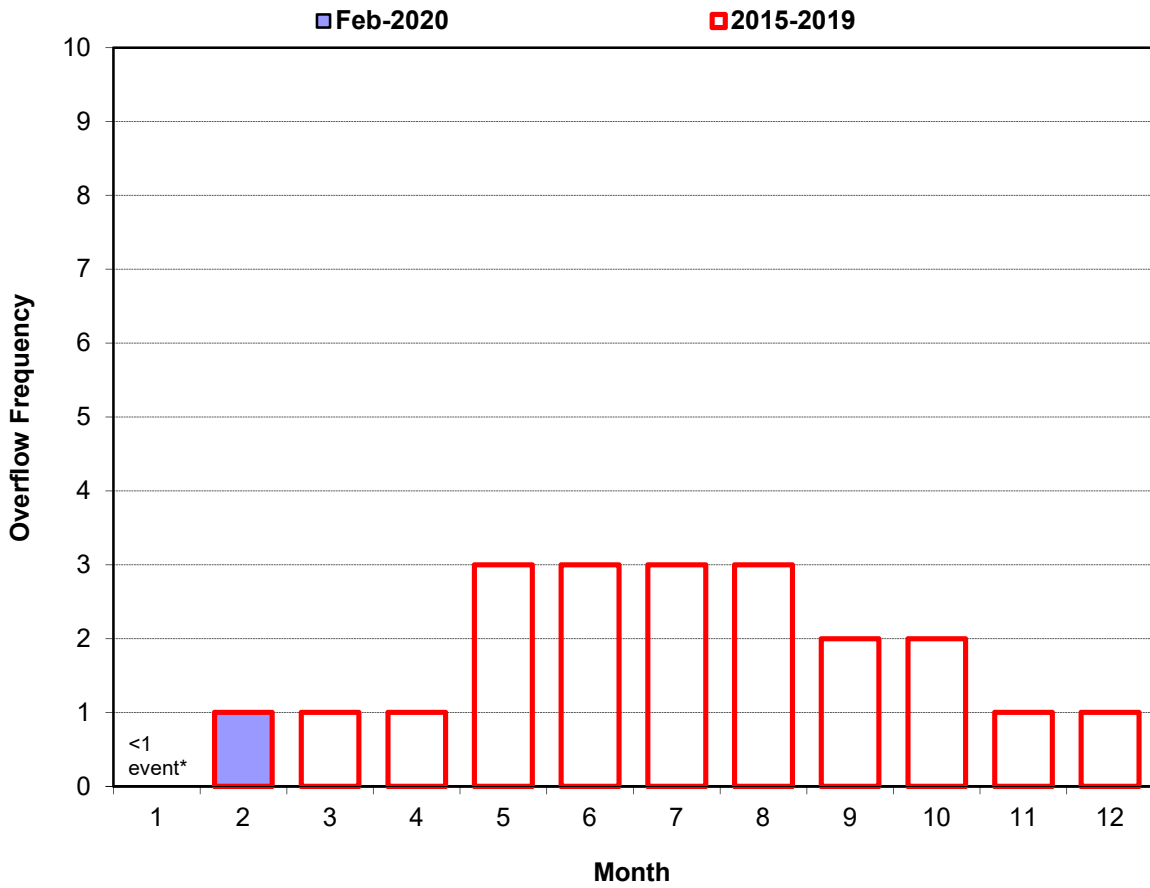
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	0.009	0.25
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
1	3.58	18.58	1.32	0.01	0.25

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO25 - Briel & Gillies Cr
 Overflow Model Summary
 Current Month: February 2020**

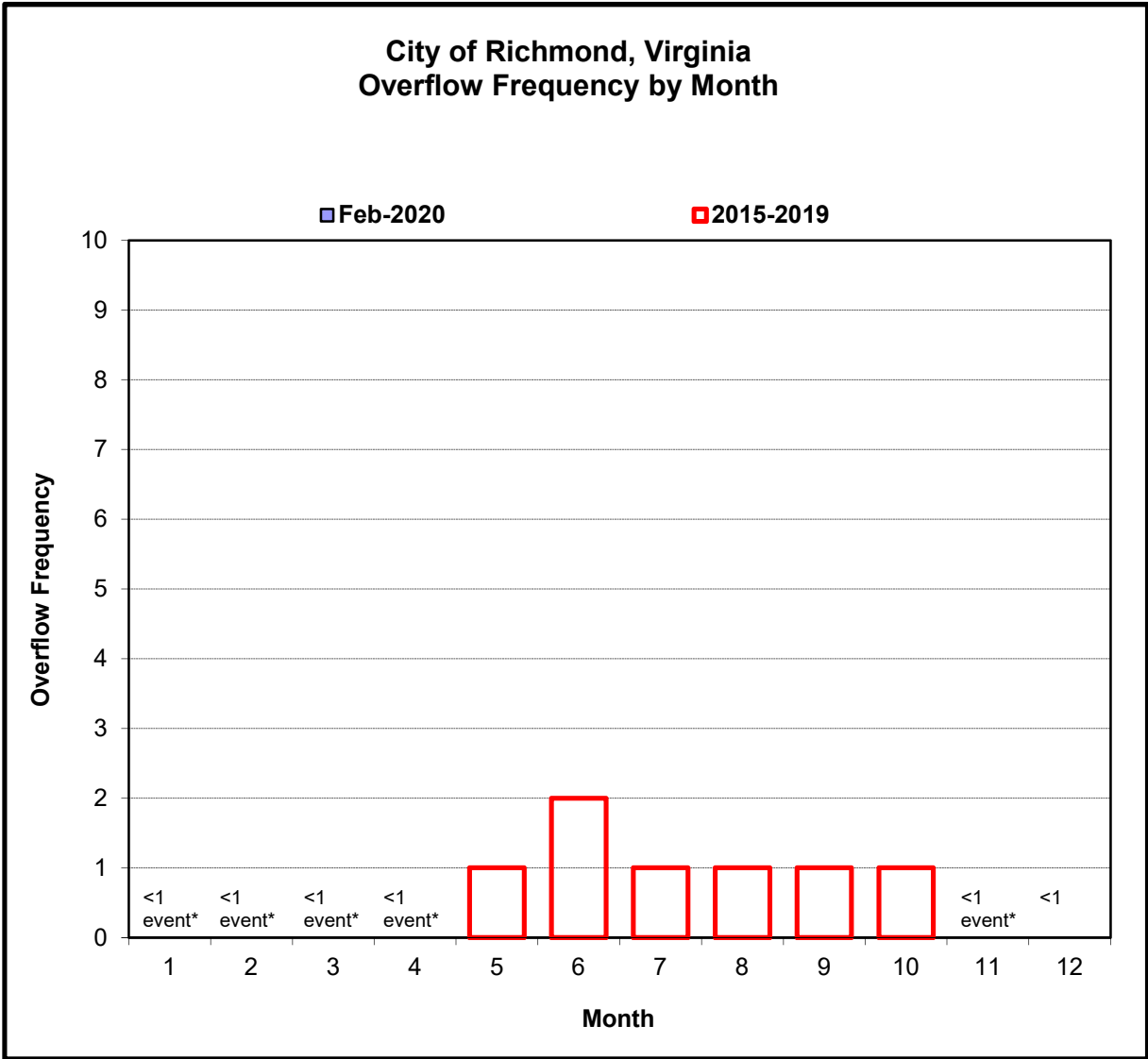
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO26 - Govt Road & NSRR
 Overflow Model Summary
 Current Month: February 2020**

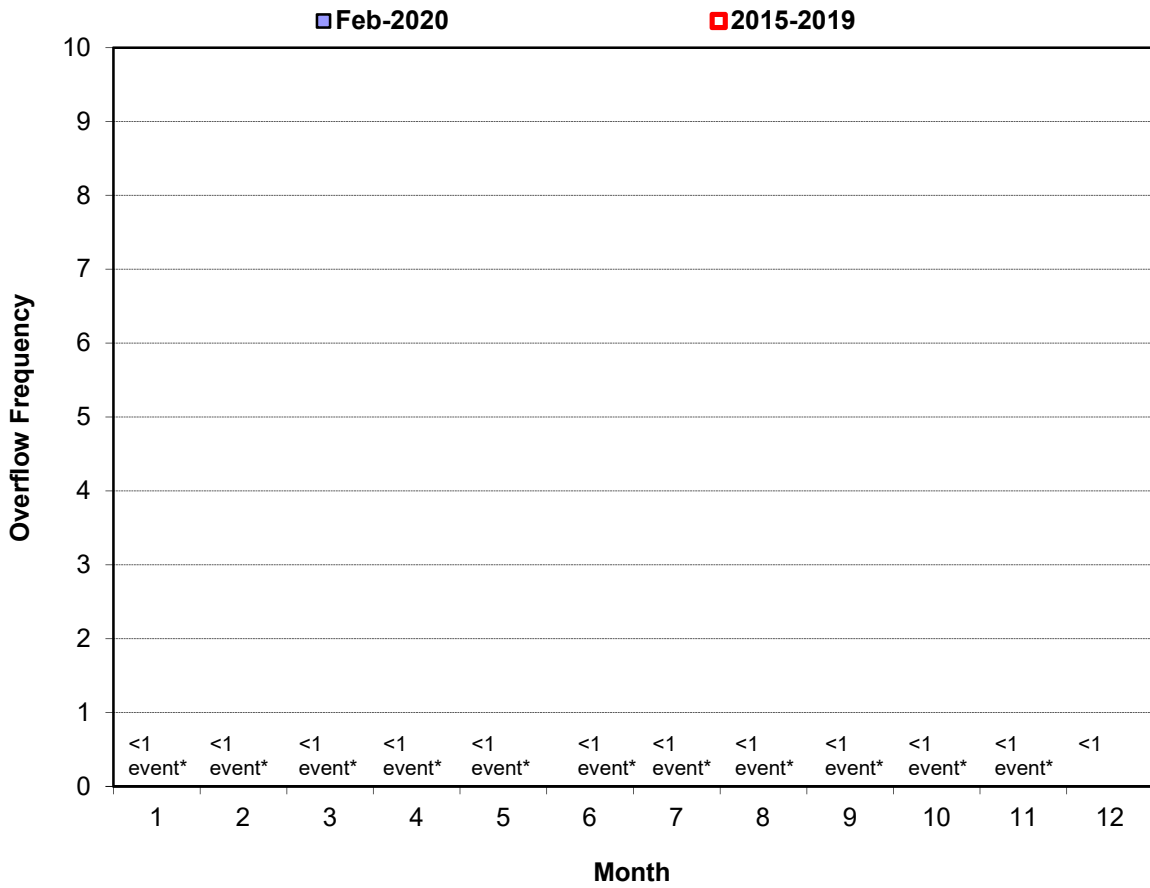
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO31 - Oakwood Cem
Overflow Model Summary
Current Month: February 2020**

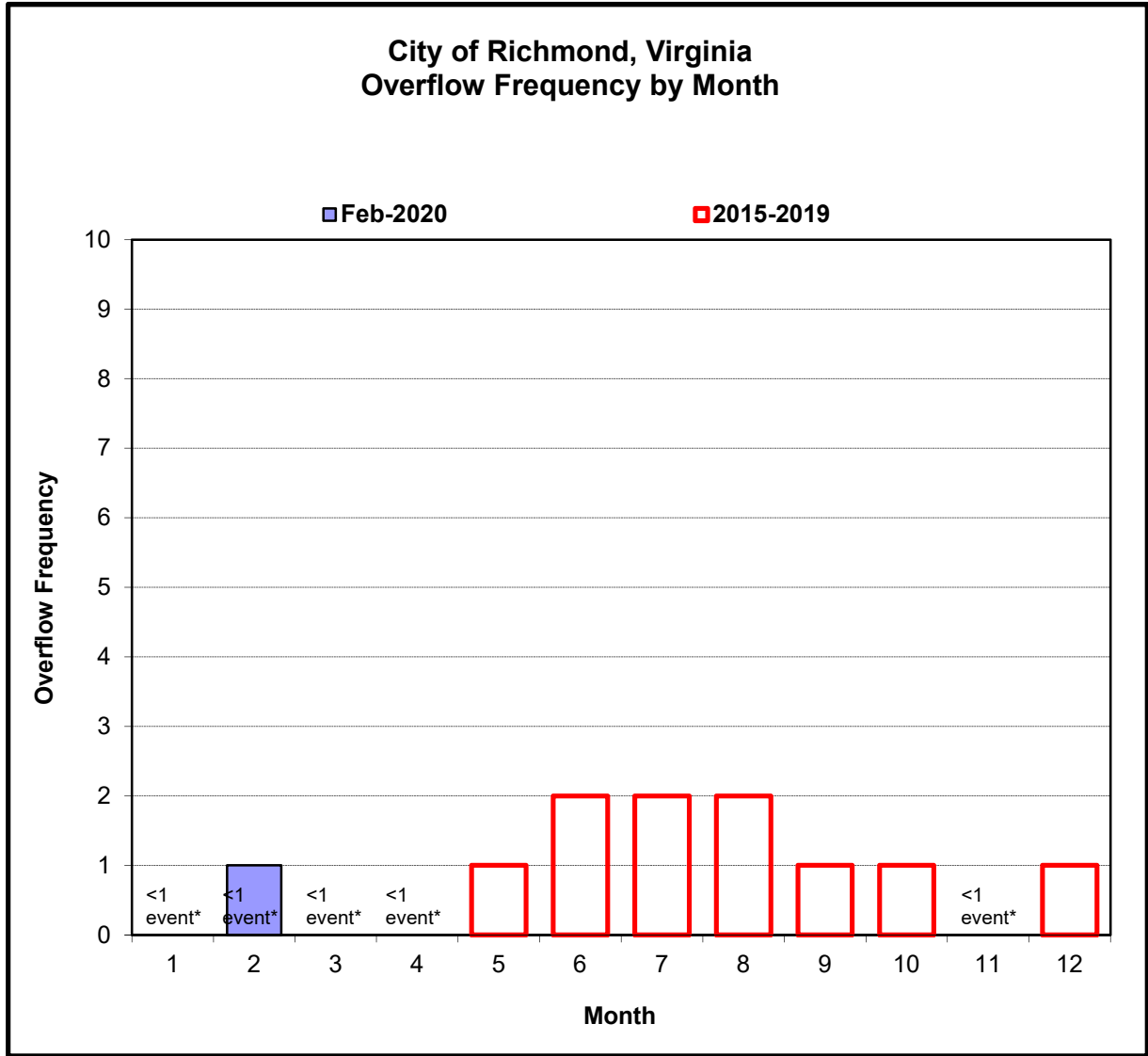
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	0.02	0.17
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
1	3.58	18.58	1.32	0.02	0.17

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO33 - Shields Lake
Overflow Model Summary
Current Month: February 2020**

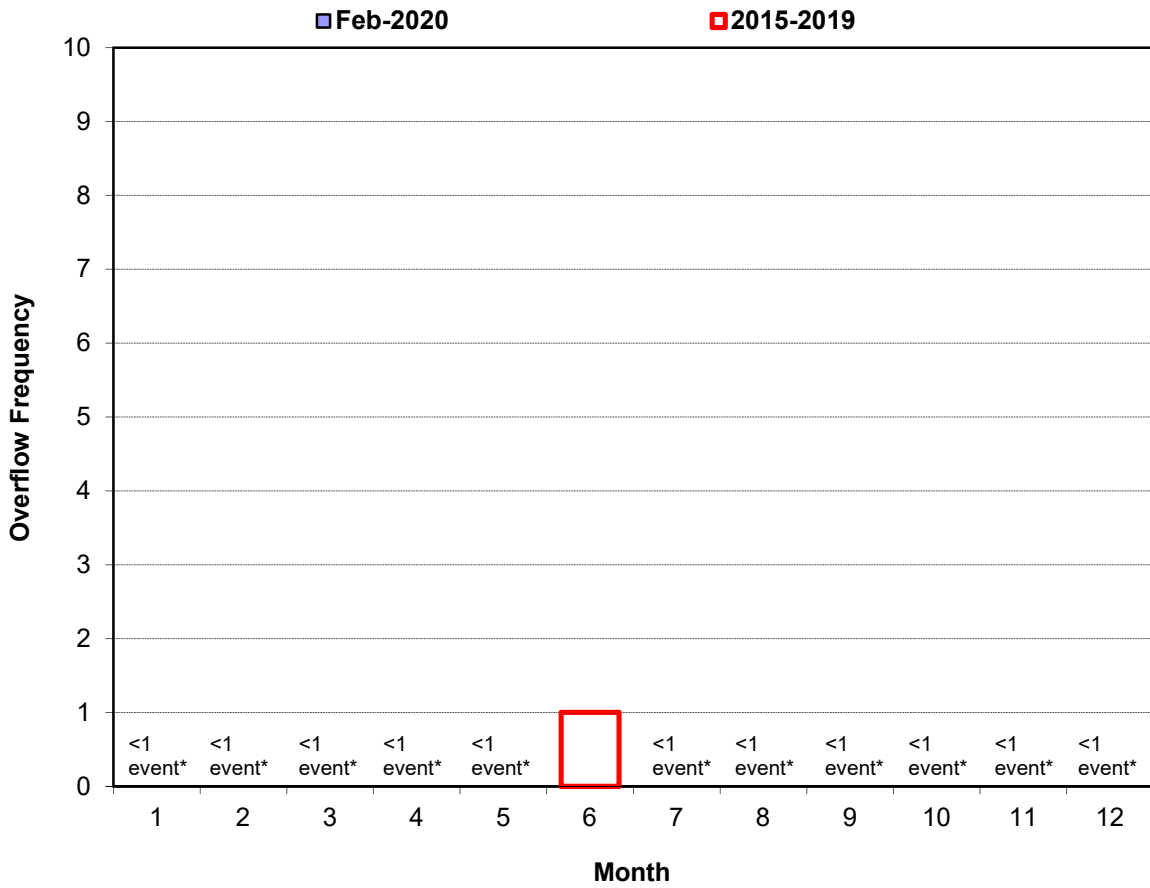
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO34 - 19th & Dock
 Overflow Model Summary
 Current Month: February 2020**

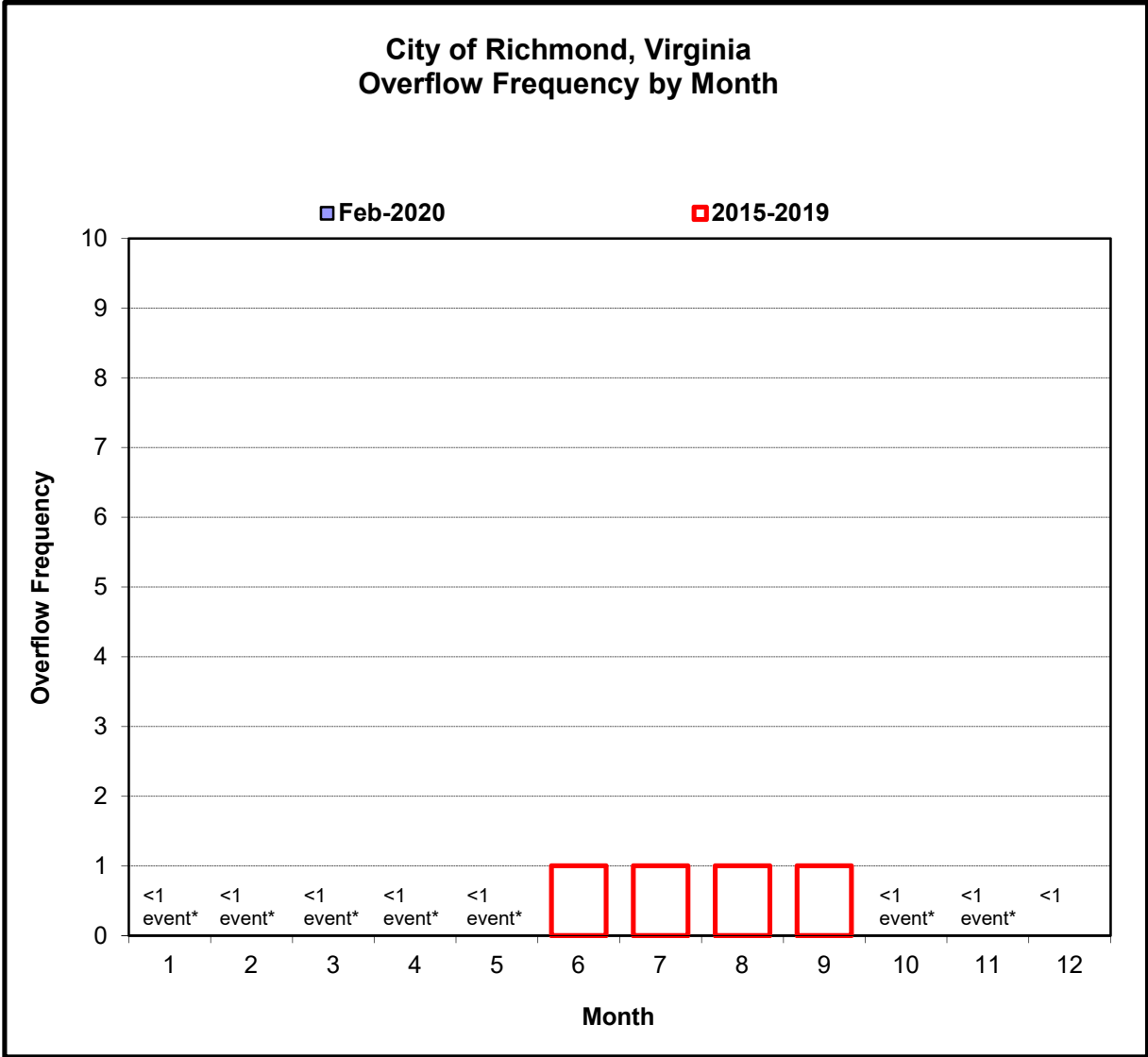
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO35 - 29th & Dock
 Overflow Model Summary
 Current Month: February 2020**

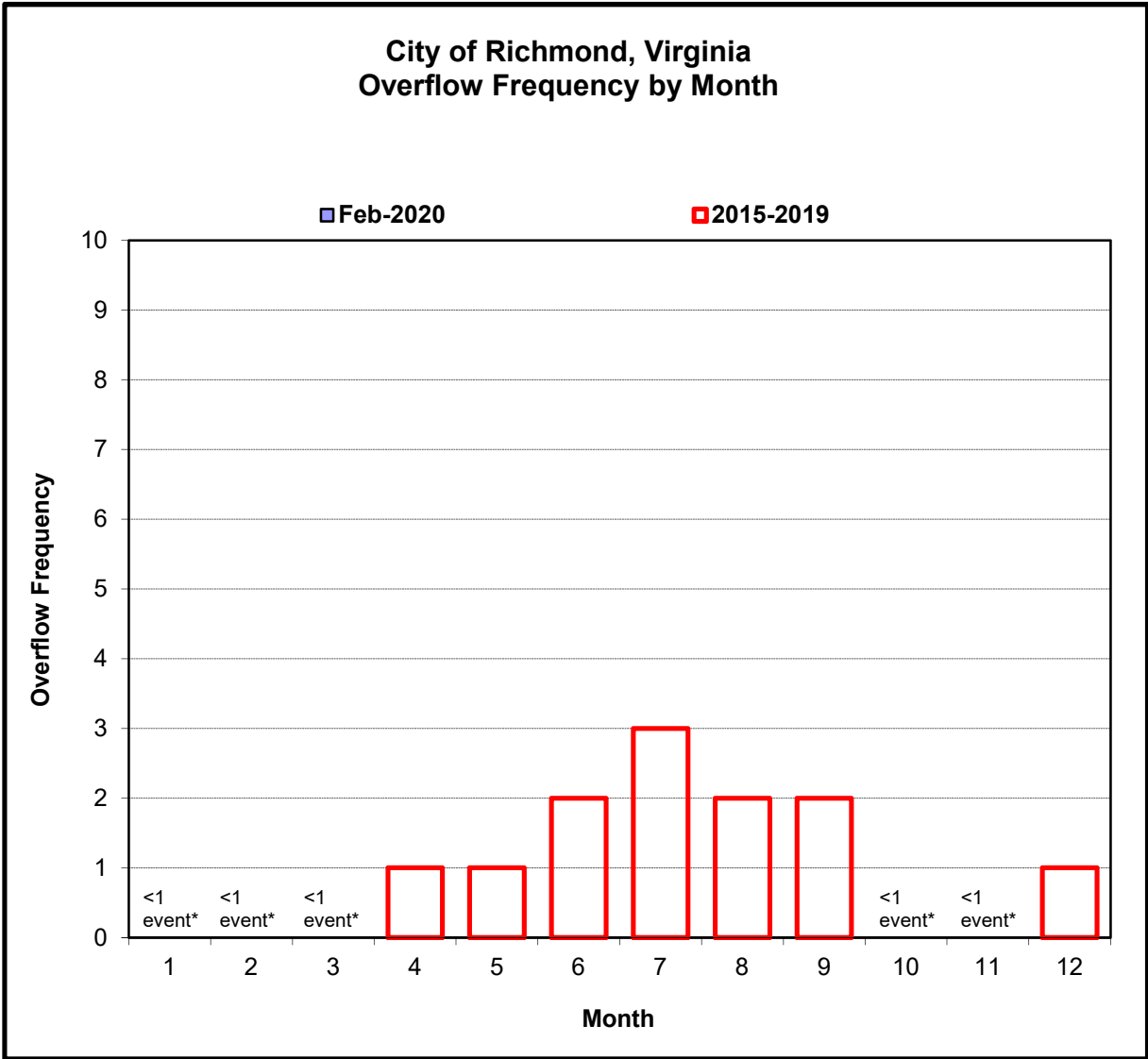
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20		1.59	7.08	1.32		
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20		0.74	3.50	0.60		
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	3.58	18.58	1.32	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO39 - Govt Road & Gillies
 Overflow Model Summary
 Current Month: February 2020**

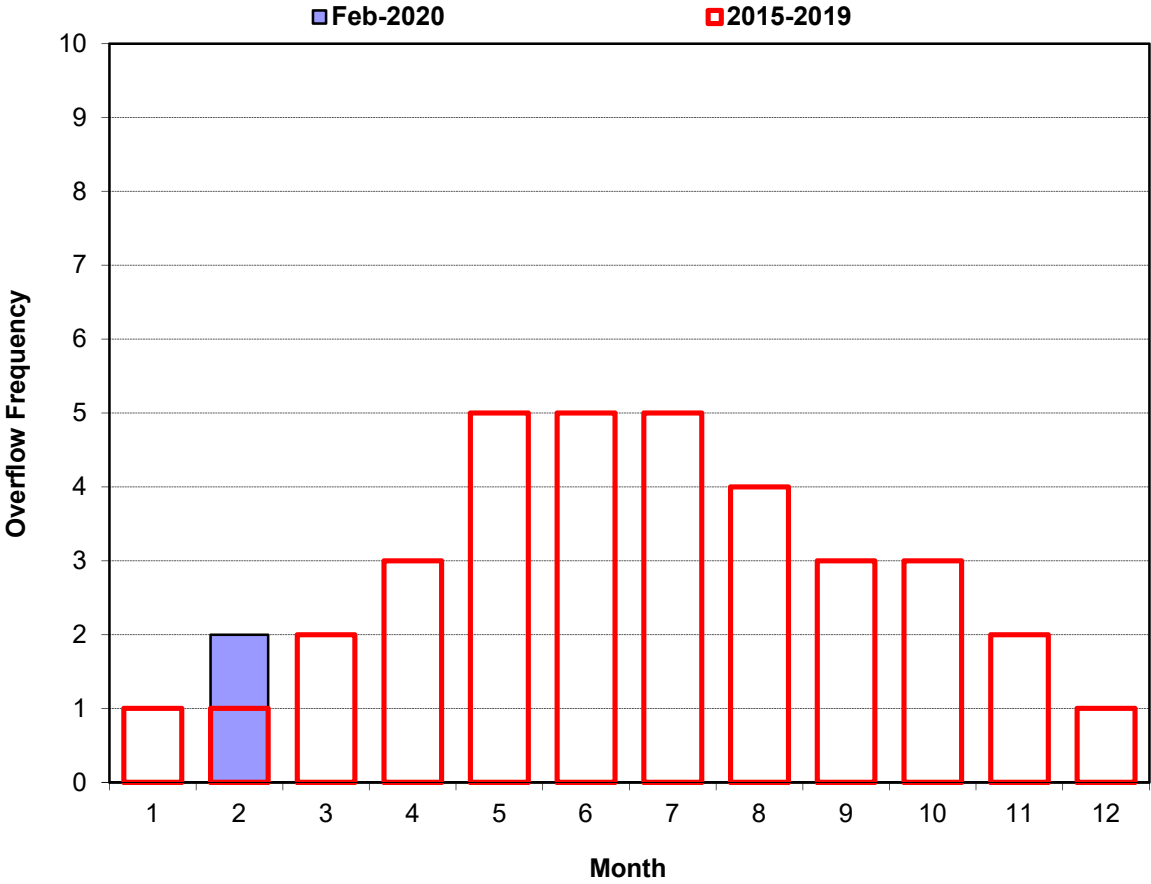
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	0.21	7.25
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	0.04	0.67
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	0.25	7.92

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



CSO40 - Diff User
Overflow Model Summary
Current Month: February 2020

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
2/1/20		0.01	0.08	0.12		
2/2/20						
2/3/20						
2/4/20						
2/5/20		0.14	1.08	0.24		
2/6/20	1	1.59	7.08	1.32	0.74	2.58
2/7/20		0.22	1.25	0.24		
2/8/20						
2/9/20						
2/10/20		0.17	1.17	0.24		
2/11/20	1	0.74	3.50	0.60	0.04	0.33
2/12/20						
2/13/20		0.10	0.75	0.24		
2/14/20						
2/15/20						
2/16/20						
2/17/20						
2/18/20						
2/19/20		0.12	0.83	0.36		
2/20/20		0.07	0.42	0.24		
2/21/20						
2/22/20						
2/23/20						
2/24/20		0.04	0.17	0.24		
2/25/20		0.38	2.25	0.48		
2/26/20						
2/27/20						
2/28/20						
2/29/20						

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	3.58	18.58	1.32	0.79	2.92

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month

