



**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend				Page 1 of 11				Permit Number: IN0024520												
Facility: South Bend Municipal WWTP				Public Notification Requirements Met? Y																
Monitoring Period: October 2018				Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																
Design Peak Hourly Flow (MGD):		77		Design Average Flow (MGD):		48		Measured/Metered (M) or Estimated (E) must be specified												
WWTP Influent Data			Precipitation Data				CSO Outfall No. 001				CSO Outfall No. 002									
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	
1	32.2	35.6																		
2	35.1	45.4	2:40 AM	1.58	0.28	0.24	1 hr	4:40 AM	E	0.15	E	0.01	E							
3	32.5	35.7																		
4	32.2	34.9	5:55 AM	0.08	0.01	0.01	1 hr													
5	37.9	74.3	6:40 AM	1.83	0.43	0.44	1 hr	8:40 AM	E	0.37	E	0.02	E							
6	55.4	80.4	12:10 AM	6.67	1.19	0.51	1 hr	2:10 AM	E	2.19	E	0.29	E	2:10 AM	E	2.83	E	0.10	E	
7	35.5	38.7	4:50 AM	1.67	0.17	0.15	1 hr													
8	34.4	39.2	7:00 AM	0.25	0.04	0.04	1 hr													
9	34.3	38.7																		
10	51.5	80.4	9:55 AM	8.00	1.21	0.35	1 hr	12:00 PM	E	2.41	E	0.35	E	12:00 PM	E	3.47	E	0.17	E	
11	37.2	59.4																		
12	35.1	38.4	3:55 PM	1.83	0.08	0.03	1 hr													
13	34.2	39.6																		
14	33.3	37.8																		
15	33.6	37.1	12:35 AM	2.33	0.09	0.04	1 hr													
16	32.8	37.8																		
17	32.5	35.9																		
18	29.7	49.3																		
19	31.1	36.8	3:20 PM	2.00	0.13	0.07	1 hr													
20	33.4	53.3	1:20 PM	3.08	0.19	0.13	1 hr													
21	30.3	50.5																		
22	30.3	33.6																		
23	29.5	33.4																		
24	29.2	33.7																		
25	29.5	33.3																		
26	29.2	32.1																		
27	28.7	33.1																		
28	35.9	61.0	7:05 AM	5.50	0.38	0.12	1 hr	9:15 AM	E	0.29	E	0.01	E							
29	30.0	34.5	12:55 AM	0.42	0.02	0.02	1 hr													
30	29.2	33.1																		
31	45.3	84.9	2:10 AM	5.08	0.91	0.36	1 hr	4:20 AM	E	1.30	E	0.11	E	4:20 AM	E	0.77	E	0.00	E	
Totals:	1061.1			40.33	5.13			6	Da ye	6.71		0.79		3	Da ye	7.07		0.28		
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent										Telephone										
Al Greek - Utilities Director										574-277-8515										
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																				
Signature of Principal Executive Officer or Authorized Agent															Date (mm/dd/yy)					
<i>Al Greek</i>															10-21-18					



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 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 2 of 11			Permit Number: IN0024520											
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? <input checked="" type="checkbox"/>														
Monitoring Period: October 2018										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77					Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified														
CSO Outfall No. 003			CSO Outfall No. 004			CSO Outfall No. 006			CSO Outfall No. 007															
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E						
1																								
2																								
3																								
4																								
5													9:50 AM	M	1.00	M	0.08	E						
6	1:05 AM	M	2.25	M	0.54	E	2:15 AM	E	1.36	E	0.03	E	9:50 AM	M	4.50	M	1.36	E	2:15 AM	E	4.60	E	0.08	E
7																								
8																								
9																								
10							12:00 PM	E	1.66	E	0.03	E	1:20 PM	M	5.75	M	1.24	E	12:00 PM	E	4.84	E	0.10	E
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31	5:25 AM	M	1.50	M	0.31	E							4:20 AM	M	3.50	M	1.06	E	4:15 AM	E	3.16	E	0.02	E
Totals:	2	Da ys	3.75		0.85		2	Da ys	3.02		0.06		4	Da ys	14.75		3.75		3	Da ys	12.60		0.20	



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Monitoring Period: October 2018							Design Peak Flow (Hourly) (MGD): 77							Design Flow (MGD): 48							Measured/Metered (M) or Estimated (E) must be specified						
CSO Outfall No. 008							CSO Outfall No. 010							CSO Outfall No. 11A							CSO Outfall No. 11B						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E			
1																											
2	4:45 AM	E	4.29	E	0.04	E	4:45 AM	E	2.54	E	0.03	E							4:45 AM	E	2.15	E	0.10	E			
3																											
4																											
5	10:30 AM	E	7.19	E	0.07	E	10:30 AM	E	3.83	E	0.07	E							10:30 AM	E	3.46	E	0.39	E			
6	2:15 AM	E	14.17	E	0.27	E	2:15 AM	E	9.07	E	0.31	E							2:15 AM	E	8.44	E	2.02	E			
7																											
8																											
9																											
10	12:00 PM	E	12.00	E	0.23	E	12:00 PM	E	9.61	E	0.33	E							12:00 PM	E	8.96	E	2.17	E			
11	12:00 AM	E	2.67	E	0.05	E																					
12	6:20 PM	E	0.00	E	0.00	E																					
13																											
14																											
15	6:50 AM	E	0.88	E	0.00	E																					
16																											
17																											
18																											
19	5:20 PM	E	0.88	E	0.00	E																					
20	3:25 PM	E	2.38	E	0.01	E	3:25 PM	E	0.63	E	0.01	E							3:25 PM	E	0.54	E	0.03	E			
21																											
22																											
23																											
24																											
25																											
26																											
27																											
28	9:10 AM	E	6.57	E	0.06	E	9:10 AM	E	3.58	E	0.06	E							9:10 AM	E	3.20	E	0.32	E			
29																											
30																											
31	4:15 AM	E	11.70	E	0.18	E	4:15 AM	E	6.49	E	0.20	E							4:15 AM	E	5.93	E	1.27	E			
Totals:	11	Da ys	62.73		0.91		7	Da ys	35.75		1.01		0	Da ys	0.00		0.00		7	Da ys	32.68		6.29				



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Design Peak Flow (Hourly) (MGD): 77					Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified															
CSO Outfall No. 014										CSO Outfall No. 018					CSO Outfall No. 019					CSO Outfall No. 021					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	
1																									
2																									
3																									
4																									
5	10:30 AM	E	0.52	E	0.03	E	10:30 AM	E	3.42	E	0.12	E	10:20 AM	E	0.54	E	0.01	E							
6	2:15 AM	E	2.49	E	0.15	E	2:15 AM	E	8.27	E	0.97	E	2:20 AM	E	2.13	E	0.11	E	2:20 AM	E	1.03	E	0.01	E	
7																									
8																									
9																									
10	12:00 PM	E	2.62	E	0.16	E	12:00 PM	E	8.51	E	1.04	E	11:55 AM	E	2.11	E	0.11	E	11:55 AM	E	0.99	E	0.01	E	
11																									
12																									
13																									
14																									
15																									
16																									
17																									
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19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28	9:10 AM	E	0.40	E	0.02	E	9:10 AM	E	2.63	E	0.09	E	9:15 AM	E	0.39	E	0.01	E							
29																									
30																									
31	4:15 AM	E	1.83	E	0.07	E	4:15 AM	E	7.11	E	0.58	E	4:15 AM	E	1.91	E	0.07	E	4:15 AM	E	0.70	E	0.00	E	
Totals:	5	De ys	7.86		0.42		5	De ys	29.94		2.80		5	De ys	7.08		0.30		3	De ys	2.72		0.02		



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Facility: South Bend Municipal WWTP										Public Notification Requirements Met? <input checked="" type="checkbox"/> Y														
Monitoring Period: October 2018										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77					Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified														
CSO Outfall No. 022					CSO Outfall No. 025					CSO Outfall No. 026					CSO Outfall No. 027									
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	9:30 AM	M	1.00	M	0.17	E																		
6	9:30 AM	M	2.25	M	1.75	E									2:15 AM	E	1.78	E	0.14	E				
7																								
8																								
9																								
10	1:20 PM	M	4.75	M	1.27	E									12:05 PM	E	2.27	E	0.23	E				
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31	4:30 AM	M	2.25	M	0.81	E									4:20 AM	E	1.05	E	0.05	E				
Totals:	4	Da ys	10.25		3.99		0	Da ys	0.00		0.00		0	Da ys	0.00		0.00		3	Da ys	5.10		0.42	



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Monitoring Period: October 2018										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77					Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified														
Day of Month	CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031											
	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E						
1																								
2							4:45 AM	E	0.62	E	0.00	E					4:45 AM	E	3.15	E	0.14	E		
3																								
4																								
5							10:30 AM	E	1.45	E	0.01	E					10:30 AM	E	4.46	E	0.41	E		
6	2:15 AM	E	1.92	E	0.04	E	2:15 AM	E	3.62	E	0.08	E					2:15 AM	E	12.05	E	1.94	E		
7																								
8																								
9																								
10	12:00 PM	E	2.11	E	0.05	E	12:00 PM	E	3.89	E	0.08	E					12:00 PM	E	12.00	E	1.98	E		
11																	12:00 AM	E	0.56	E	0.09	E		
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20							3:25 PM	E	0.15	E	0.00	E					3:25 PM	E	0.79	E	0.03	E		
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28							9:10 AM	E	1.27	E	0.01	E					9:10 AM	E	4.22	E	0.35	E		
29																								
30																								
31	4:15 AM	E	0.98	E	0.00	E	4:15 AM	E	2.39	E	0.05	E					4:15 AM	E	9.33	E	1.27	E		
Totals:	3	Da	5.01		0.08		7	Da	13.39		0.22		0	Da	0.00		0.00		8	Da	46.56		6.21	



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Monitoring Period: October 2018		Design Peak Flow (Hourly) (MGD): 77		Design Flow (MGD): 48																				
				Measured/Metered (M) or Estimated (E) must be specified																				
		CSO Outfall No. 033		CSO Outfall No. 035																				
		CSO Outfall No. 036		CSO Outfall No. 037																				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E						
1																								
2	4:45 AM	E	1.46	E	0.00	E	4:45 AM	E	4.95	E	0.04	E												
3																								
4																								
5	10:30 AM	E	4.01	E	0.01	E	10:30 AM	E	7.20	E	0.09	E	10:30 AM	E	1.34	E	0.01	E	9:50 AM	M	0.50	M	0.02	E
6	2:15 AM	E	11.71	E	0.07	E	2:15 AM	E	15.03	E	0.31	E	2:15 AM	E	4.20	E	0.04	E	9:50 AM	M	2.42	M	2.40	E
7																								
8																								
9																								
10	12:00 PM	E	12.00	E	0.07	E	12:00 PM	E	12.00	E	0.25	E	12:00 PM	E	4.38	E	0.04	E	1:15 PM	M	3.42	M	0.85	E
11	12:00 AM	E	0.26	E	0.00	E	12:00 AM	E	3.61	E	0.07	E												
12							6:20 PM	E	0.00	E	0.00	E												
13																								
14																								
15							6:50 AM	E	0.17	E	0.00	E												
16																								
17																								
18																								
19							5:20 PM	E	0.17	E	0.00	E												
20	3:25 PM	E	0.37	E	0.00	E	3:25 PM	E	1.49	E	0.01	E												
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28	9:10 AM	E	3.45	E	0.01	E	9:10 AM	E	6.77	E	0.08	E	9:10 AM	E	1.03	E	0.00	E						
29																								
30																								
31	4:15 AM	E	8.96	E	0.04	E	4:15 AM	E	12.08	E	0.22	E	4:15 AM	E	3.34	E	0.02	E	4:45 AM	M	1.83	M	0.44	E
Totals:	8	Da	42.22		0.19		11	Da	63.47		1.06		5	Da	14.29		0.11		4	Da	8.17		3.70	



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CSO Outfall No. 038			CSO Outfall No. 039			CSO Outfall No. 040			CSO Outfall No. 041															
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E						
1																								
2																								
3																								
4																								
5							10:20 AM	E	1.74	E	0.04	E												
6							2:20 AM	E	4.76	E	0.25	E	2:15 AM	E	1.85	E	0.05	E	2:20 AM	E	2.41	E	0.03	E
7																								
8																								
9																								
10							11:55 AM	E	4.67	E	0.24	E	12:05 PM	E	2.20	E	0.09	E	11:55 AM	E	2.36	E	0.03	E
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28							9:15 AM	E	1.26	E	0.03	E												
29																								
30																								
31							4:15 AM	E	3.89	E	0.18	E	4:20 AM	E	1.17	E	0.02	E	4:15 AM	E	1.92	E	0.01	E
Totals:	0	Da	0.00		0.00		5	Da	16.32		0.74		3	Da	5.22		0.16		3	Da	6.69		0.07	



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Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y															
Monitoring Period: October 2018										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>															
Design Peak Flow (Hourly) (MGD): 77					Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified															
CSO Outfall No. 042					CSO Outfall No. 044					CSO Outfall No. 045					CSO Outfall No. 048										
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	
1																									
2																									
3																									
4																									
5																				10:20 AM	E	4.89	E	0.23	E
6													1:55 AM	M	2.42	M	1.05	E	2:20 AM	E	13.43	E	0.85	E	
7																			7:05 AM	E	1.04	E	0.03	E	
8																									
9																									
10													2:15 PM	M	4.67	M	2.55	E	11:55 AM	E	12.08	E	0.76	E	
11																			12:00 AM	E	1.06	E	0.07	E	
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																				5:30 PM	E	0.17	E	0.00	E
20																				3:45 PM	E	1.04	E	0.03	E
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																				9:15 AM	E	4.16	E	0.18	E
29																									
30																									
31													5:40 AM	M	2.50	M	0.92	E	4:15 AM	E	10.72	E	0.64	E	
Totals:	0	Days	0.00		0.00		0	Days	0.00		0.00		3	Days	9.58		4.53		9	Days	48.59		2.81		



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
 State Form 50546 (R3 / 7-13)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 10 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: October 2018										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77					Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified														
CSO Outfall No. 049					CSO Outfall No. 060					CSO Outfall No. [#]					CSO Outfall No. [#]									
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2							4:45 AM	E	5.38	E	0.00	E												
3																								
4																								
5							10:30 AM	E	7.09	E	0.01	E												
6							2:15 AM	E	11.70	E	0.04	E												
7																								
8																								
9																								
10							12:00 PM	E	12.00	E	0.04	E												
11							12:00 AM	E	0.19	E	0.00	E												
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20							3:25 PM	E	1.35	E	0.00	E												
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28							9:10 AM	E	6.80	E	0.00	E												
29																								
30																								
31							4:15 AM	E	9.38	E	0.03	E												
Totals:	0	Da	0.00		0.00		8	Da	53.89		0.13		0	Da	0.00		0.00		0	Da	0.00		0.00	



**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input type="checkbox"/>	
Monitoring Period: October 2018	Check box if no CSO discharge occurred for the month: <input type="checkbox"/>		
Design Peak Hourly Flow (MGD): 77	Design Average Flow (MGD): 48		

Day of Month	Comments (further explanation as to why each CSO event occurred)
1	
2	Precipitation Event Observed
3	
4	
5	Precipitation Event Observed
6	Precipitation Event Observed
7	Precipitation Event Observed
8	
9	
10	Precipitation Event Observed
11	Precipitation Event Observed
12	Precipitation Event Observed
13	
14	
15	Precipitation Event Observed
16	
17	
18	
19	Precipitation Event Observed
20	Precipitation Event Observed
21	
22	
23	
24	
25	
26	
27	
28	Precipitation Event Observed
29	
30	
31	Precipitation Event Observed

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Al Greek - Utilities Director	574-277-8515

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent	Date (mm/dd/yy)
<i>Al Greek</i>	11-21-18

CSO Public Notification - October

Day of Month	Day of Week	Total Daily Precip. (inches)	Notification Sent	Notes
1	Sun		No	
2	Mon	0.28	Yes	
3	Tue		No	
4	Wed	0.01	No	No notification necessary, precipitation <0.04"
5	Thu	0.43	Yes	
6	Fri	1.19	Yes	
7	Sat	0.17	Yes	
8	Sun	0.04	Yes	Notification sent, but precipitation did not cause an overflow
9	Mon		No	
10	Tue	1.21	Yes	
11	Wed		No	
12	Thu	0.08	Yes	
13	Fri		No	
14	Sat		No	
15	Sun	0.09	Yes	
16	Mon		No	
17	Tue		No	
18	Wed		No	
19	Thu	0.13	Yes	
20	Fri	0.19	Yes	
21	Sat		No	
22	Sun		No	
23	Mon		No	
24	Tue		No	
25	Wed		No	
26	Thu		No	
27	Fri		No	
28	Sat	0.38	Yes	
29	Sun	0.02	No	No notification necessary, precipitation <0.04"
30	Mon		No	
31	Tue	0.91	Yes	

Notifications are sent out once precipitation reaches 0.04"

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD Per CSO Operation Plan the design flow is 48 MGD during construction

Metered CSO's

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.
- CSO 3's meter was out of service ≈ 3 hrs on 10/7
- CSO 22's meter was out of service ≈ 21 hrs on 10/1, 9.5 hrs on 10/2, 11 hrs on 10/3, and 8 hrs on 10/4
- CSO 37's meter was out of service ≈ 13.5 hrs on 10/1
- During times of unreliable metered data, the matrix is used to estimate volume and duration

Other CSO's

For non-metered CSO's, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR

Precipitation Data Summary - October

Day of Month	Day of Week	Daily Precipitation (in)						Average Daily Precipitation (in)
		Colfax RG1	Ethanol RG2	Vaness RG3	Southfield RG4	WWTP RG5	Ironwood RG6	
1	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Mon	0.24	0.14	0.11	0.01	0.28	0.07	0.14
3	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Wed	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	Thu	0.37	0.27	0.36	0.42	0.34	0.43	0.36
6	Fri	1.08	1.19	0.98	0.69	0.93	1.19	1.01
7	Sat	0.03	0.05	0.04	0.14	0.03	0.17	0.08
8	Sun	0.00	0.00	0.00	0.04	0.00	0.02	0.01
9	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Tue	1.14	1.05	1.21	0.65	1.04	1.16	1.04
11	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Thu	0.04	0.04	0.02	0.05	0.01	0.08	0.04
13	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Sat	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Sun	0.07	0.08	0.05	0.06	0.09	0.07	0.07
16	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	Thu	0.08	0.13	0.08	0.08	0.04	0.13	0.09
20	Fri	0.15	0.12	0.19	0.17	0.17	0.18	0.16
21	Sat	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Thu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Sat	0.34	0.33	0.29	0.36	0.33	0.38	0.34
29	Sun	0.02	0.02	0.00	0.01	0.00	0.01	0.01
30	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	Tue	0.78	0.82	0.73	0.88	0.61	0.91	0.79

City of South Bend, Indiana
 CSO Overflow Summary
 OCTOBER 2018

NUMBER OF OVERFLOW DAYS IN OCTOBER 2018 = 12 Days

CSO Outfall	Total Overflow Duration (Hours)	Total Overflow Volume (MG)	Number of Overflow Events ¹
001	6.71	0.79	6
002	7.07	0.28	3
003	3.75	0.85	2
004	3.02	0.06	2
006	14.75	3.75	4
007	12.60	0.20	3
008	62.73	0.91	11
010	35.75	1.01	7
11A	0.00	0.00	0
11B	32.68	6.29	7
014	7.86	0.42	5
018	29.94	2.80	5
019	7.08	0.30	5
021	2.72	0.02	3
022	10.25	3.99	4
025	0.00	0.00	0
026	0.00	0.00	0
027	5.10	0.42	3
028	5.01	0.08	3
029	13.39	0.22	7
031	46.56	6.21	8
033	42.22	0.19	8
035	63.47	1.06	11
036	14.29	0.11	5
037	8.17	3.70	4
038	0.00	0.00	0
039	16.32	0.74	5
040	5.22	0.16	3
041	6.69	0.07	3
042	0.00	0.00	0
044	0.00	0.00	0
045	9.58	4.53	3
048	48.59	2.81	9
049	0.00	0.00	0
060	53.89	0.13	8
Total		42.1	

¹More than one event on the same day is counted as one event. If an Overflow event is rolled over to the next day, it is still counted as one event.