



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 STP				Public Notification Requirements Met? Y																
Monitoring Period: February 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	32.1	34.7	1:35 PM	0.08	0.01	0.01	1 hr													
2	31.2	34.5	2:15 AM	0.25	0.03	0.03	1 hr													
3	31.1	35.8																		
4	31.4	36.0	12:05 AM	3.25	0.14	0.04	1 hr													
5	31.4	35.2	7:35 PM	2.42	0.10	0.04	1 hr													
6	31.6	35.0																		
7	31.5	35.2	12:30 AM	3.33	0.17	0.05	1 hr													
8	31.0	34.2	2:20 PM	0.17	0.01	0.04	1 hr													
9	30.8	33.9	12:05 AM	13.83	1.08	0.13	1 hr	2:05 AM	E	2.49	E	0.38	E	2:05 AM	E	3.73	E	0.20	E	
10	30.8	36.3																		
11	30.7	34.9	12:30 AM	4.50	0.58	0.21	1 hr	3:15 AM	E	1.17	E	0.08	E	3:15 AM	E	0.52	E	0.00	E	
12	30.6	35.0																		
13	30.8	34.7																		
14	33.7	42.5																		
15	58.2	78.9	11:55 AM	5.33	0.87	0.56	1 hr	2:10 PM	E	2.07	E	0.25	E	2:10 PM	E	2.45	E	0.06	E	
16	39.4	53.4																		
17	34.8	39.2	6:10 PM	1.58	0.16	0.12	1 hr													
18	34.3	40.0	12:05 AM	0.08	0.01	0.01	1 hr													
19	56.0	80.5	12:05 AM	10.08	1.88	0.81	1 hr	5:30 AM	E	4.79	E	0.94	E	5:30 AM	E	5.69	E	0.67	E	
20	70.5	81.3	12:05 AM	19.50	5.54	0.95	1 hr	2:05 AM	E	11.58	E	3.35	E	2:05 AM	E	10.83	E	2.17	E	
21	40.8	56.2	12:05 AM	5.92	0.88	0.23	1 hr	2:05 AM	E	2.07	E	0.25	E	2:05 AM	E	2.45	E	0.06	E	
22	30.6	49.9																		
23	51.5	54.5	7:15 AM	0.83	0.15	0.15	1 hr													
24	51.0	52.3	8:35 PM	0.25	0.01	0.01	1 hr													
25	49.3	50.2	1:55 AM	0.83	0.03	0.02	1 hr													
26	48.7	49.6																		
27	49.5	50.6																		
28	48.5	49.2	4:30 AM	1.00	0.04	0.04	1 hr													
Totals:	1101.9			73.25	11.69			6	Days	24.17		5.26		6	Days	25.67		3.16		
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>													03/27/18							



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 CSO Monthly Report of Operation (CSO MRO)

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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 STP										Public Notification Requirements Met? Y															
Monitoring Period: February 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	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																				2:15 AM	E	0.34	E	0.00	E
10																									
11																									
12																									
13																									
14																									
15													1:25 PM	M	6.00	M	0.52	E							
16																									
17																									
18																									
19	12:25 PM	M	6.42	M	6.00	E	4:55 AM	E	1.91	E	0.04	E	11:50 AM	M	11.17	M	3.51	E	4:55 AM	E	5.05	E	0.11	E	
20	12:00 AM	E	11.00	E	9.62	E	2:05 AM	E	6.21	E	0.54	E	12:00 AM	M	24.00	M	20.03	E	2:05 AM	E	10.09	E	0.35	E	
21	12:00 AM	E	2.00	E	3.42	E							12:00 AM	M	12.08	M	2.22	E	2:05 AM	E	0.11	E	0.00	E	
22																									
23	12:00 AM	E	0.45	E	0.12	E																			
24																									
25																									
26																									
27																									
28																									
Totals:	4	Da ys	19.87		19.16		2	Da ys	8.12		0.58		4	Da ys	53.25		26.27		4	Da ys	15.59		0.46		

CSO-003 discharged was estimated (see note on CSO Public Notificatin page of report)



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Facility: South Bend Municipal STP										Public Notification Requirements Met? Y														
Monitoring Period: February 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. 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																								
3																								
4	2:20 AM	E	0.88	E	0.00	E																		
5																								
6																								
7	3:20 AM	E	0.88	E	0.00	E																		
8																								
9	2:15 AM	E	9.88	E	0.11	E	2:15 AM	E	5.01	E	0.12	E							2:15 AM	E	4.65	E	0.71	E
10																								
11	3:00 AM	E	4.08	E	0.03	E	3:00 AM	E	2.33	E	0.03	E							3:00 AM	E	1.97	E	0.09	E
12																								
13																								
14																								
15	2:15 PM	E	7.39	E	0.07	E	2:15 PM	E	3.92	E	0.07	E							2:15 PM	E	3.55	E	0.41	E
16																								
17	8:25 PM	E	0.00	E	0.00	E																		
18																								
19	4:55 AM	E	15.08	E	0.30	E	4:55 AM	E	10.05	E	0.35	E							4:55 AM	E	9.39	E	2.29	E
20	2:05 AM	E	21.92	E	0.91	E	2:05 AM	E	21.92	E	1.21	E	2:05 AM	E	0.89	E	0.06	E	2:05 AM	E	21.92	E	8.74	E
21	12:00 AM	E	11.63	E	0.18	E	12:00 AM	E	6.80	E	0.22	E							12:00 AM	E	6.04	E	1.26	E
22																								
23	9:20 AM	E	0.44	E	0.00	E																		
24																								
25																								
26																								
27																								
28																								
Totals:	10	Da ys	72.18		1.60		6	Da ys	50.03		2.00		1	Da ys	0.89		0.06		6	Da ys	47.52		13.50	



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Facility: South Bend Municipal STP										Public Notification Requirements Met? Y <input type="checkbox"/>														
Monitoring Period: February 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. 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																								
6																								
7																								
8																								
9	2:15 AM	E	1.09	E	0.05	E	2:15 AM	E	6.64	E	0.27	E	2:05 AM	E	1.03	E	0.02	E	2:05 AM	E	0.15	E	0.00	E
10																								
11																								
12																								
13																								
14																								
15	2:15 PM	E	0.56	E	0.03	E	2:15 PM	E	3.69	E	0.13	E	2:20 PM	E	1.84	E	0.05	E	2:20 PM	E	0.59	E	0.00	E
16																								
17																								
18																								
19	4:55 AM	E	2.73	E	0.18	E	4:55 AM	E	8.71	E	1.11	E	4:55 AM	E	2.62	E	0.17	E	4:55 AM	E	1.85	E	0.03	E
20	2:05 AM	E	6.13	E	0.91	E	2:05 AM	E	17.22	E	5.08	E	2:05 AM	E	6.09	E	0.53	E	2:05 AM	E	2.61	E	0.17	E
21	2:05 AM	E	1.03	E	0.05	E	2:05 AM	E	6.60	E	0.24	E	2:10 AM	E	0.78	E	0.01	E	2:10 AM	E	0.02	E	0.00	E
22																								
23																								
24																								
25																								
26																								
27																								
28																								
Totals:	5	Da ys	11.54		1.21		5	Da ys	42.86		6.83		5	Da ys	12.36		0.79		5	Da ys	5.22		0.21	



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Monitoring Period: February 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																									
6																									
7																									
8																									
9																				2:05 AM	E	0.87	E	0.04	E
10																									
11																									
12																									
13																									
14																									
15	1:15 PM	M	5.75	M	1.61	E																			
16																									
17																									
18																									
19	11:45 AM	M	10.25	M	3.43	E														5:00 AM	E	2.23	E	0.22	E
20	12:00 AM	M	23.25	M	16.36	E							2:05 AM	E	2.44	E	0.34	E	2:05 AM	E	3.92	E	1.71	E	
21	12:00 AM	M	7.50	M	1.72	E														2:05 AM	E	0.09	E	0.00	E
22																									
23	8:15 AM	M	0.25	M	0.00	E																			
24																									
25																									
26																									
27																									
28																									
Totals:	5	Da ys	47.00		23.12		0	Da ys	0.00		0.00		1	Da ys	2.44		0.34		4	Da ys	7.11		1.98		



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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. 028						CSO Outfall No. 029												CSO Outfall No. 031								
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																										
6																										
7																										
8																										
9	2:15 AM	E	0.10	E	0.00	E	2:15 AM	E	2.19	E	0.02	E							2:15 AM	E	5.84	E	0.72	E		
10																										
11							3:00 AM	E	0.56	E	0.00	E							3:00 AM	E	2.89	E	0.13	E		
12																										
13																										
14																										
15							2:15 PM	E	1.51	E	0.01	E							2:15 PM	E	4.54	E	0.43	E		
16																										
17																										
18																										
19	4:55 AM	E	2.26	E	0.05	E	4:55 AM	E	4.11	E	0.09	E							4:55 AM	E	12.99	E	2.18	E		
20	2:05 AM	E	3.55	E	0.94	E	2:05 AM	E	11.52	E	0.39	E							2:05 AM	E	21.92	E	6.80	E		
21	2:05 AM	E	0.03	E	0.00	E	2:05 AM	E	2.17	E	0.02	E							12:00 AM	E	7.06	E	1.14	E		
22																										
23																										
24																										
25																										
26																										
27																										
28																										
Totals:	4	Da ys	5.94		0.99		6	Da ys	22.06		0.53								6	Da ys	55.24		11.39			



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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	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4							2:20 AM	E	0.17	E	0.00	E												
5																								
6																								
7							3:20 AM	E	0.17	E	0.00	E												
8																								
9	2:15 AM	E	6.54	E	0.02	E	2:15 AM	E	9.26	E	0.14	E	2:15 AM	E	2.66	E	0.01	E						
10																								
11	3:00 AM	E	1.34	E	0.00	E	3:00 AM	E	4.56	E	0.03	E												
12																								
13																								
14																								
15	2:15 PM	E	4.20	E	0.01	E	2:15 PM	E	7.34	E	0.09	E	2:15 PM	E	1.45	E	0.01	E						
16																								
17							8:25 PM	E	0.00	E	0.00	E												
18																								
19	4:55 AM	E	12.71	E	0.08	E	4:55 AM	E	16.10	E	0.34	E	4:55 AM	E	4.52	E	0.05	E	1:10 PM	M	4.25	M	0.64	E
20	2:05 AM	E	21.92	E	0.23	E	2:05 AM	E	21.92	E	0.68	E	2:05 AM	E	13.26	E	0.22	E	12:00 AM	M	15.50	M	7.93	E
21	12:00 AM	E	8.43	E	0.09	E	12:00 AM	E	11.11	E	0.40	E	2:05 AM	E	2.61	E	0.01	E	4:10 AM	M	0.75	M	0.01	E
22																								
23							9:20 AM	E	0.08	E	0.00	E												
24																								
25																								
26																								
27																								
28																								
Totals:	6	Da ys	55.14		0.42		10	Da ys	70.71		1.67		5	Da ys	24.50		0.29		3	Da ys	20.50		8.57	



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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. 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	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9							2:05 AM	E	2.72	E	0.08	E	2:05 AM	E	0.97	E	0.02	E	2:05 AM	E	0.88	E	0.00	E
10																								
11																								
12																								
13																								
14																								
15							2:20 PM	E	3.61	E	0.15	E							2:20 PM	E	1.77	E	0.01	E
16																								
17																								
18																								
19							4:55 AM	E	5.83	E	0.34	E	5:00 AM	E	2.17	E	0.08	E	4:55 AM	E	2.63	E	0.03	E
20	2:05 AM	E	0.08	E	0.00	E	2:05 AM	E	12.41	E	0.90	E	2:05 AM	E	7.42	E	0.40	E	2:05 AM	E	4.70	E	0.13	E
21							2:10 AM	E	2.45	E	0.06	E	2:05 AM	E	0.10	E	0.00	E	2:10 AM	E	0.62	E	0.00	E
22																								
23																								
24																								
25																								
26																								
27																								
28																								
Totals:	1	Da	ys	0.08	0.00	5	Da	ys	27.02	1.54	4	Da	ys	10.66	0.50	5	Da	ys	10.60	0.17				



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 9 of 11					Permit Number: IN0024520										
Facility: South Bend Municipal STP										Public Notification Requirements Met? Y															
Monitoring Period: February 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																									
6																									
7																				2:30 AM	E	1.04	E	0.03	E
8																									
9																				2:05 AM	E	6.91	E	0.37	E
10																									
11																				2:40 AM	E	2.08	E	0.06	E
12																									
13																									
14																									
15													5:15 PM	M	1.83	M	0.17	E		2:20 PM	E	9.67	E	0.57	E
16																				12:00 AM	E	0.18	E	0.01	E
17																									
18																									
19							5:30 AM	E	0.93	E	0.02	E	1:10 PM	M	9.92	M	4.40	E	4:55 AM	E	15.45	E	1.03	E	
20	2:05 AM	E	0.32	E	0.00	E	2:05 AM	E	2.50	E	0.31	E	12:00 AM	E	11.00	E	22.42	E	2:05 AM	E	21.92	E	1.63	E	
21													12:00 AM	E	2.00	E	8.98	E	12:00 AM	E	8.21	E	0.79	E	
22																									
23													12:00 AM	E	0.45	E	25.22	E							
24																									
25																									
26																									
27																									
28																									
Totals:	1	Da	0.32		0.00		2	Da	3.43		0.33		5	Da	25.20		61.19		8	Da	65.45		4.48		

*** CSO-045 discharge was estimated (see note on CSO Public Notification page of report.)



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 STP										Public Notification Requirements Met? Y														
Monitoring Period: February 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																								
3																								
4																								
5																								
6																								
7																								
8																								
9							2:15 AM	E	8.37	E	0.01	E												
10																								
11							3:00 AM	E	4.94	E	0.00	E												
12																								
13																								
14																								
15							2:15 PM	E	7.19	E	0.01	E												
16																								
17																								
18																								
19							4:55 AM	E	12.59	E	0.05	E												
20							2:05 AM	E	21.92	E	0.98	E												
21							12:00 AM	E	10.09	E	0.09	E												
22																								
23																								
24																								
25																								
26																								
27																								
28																								
Totals:	0	Da ys	0.00		0.00		6	Da ys	65.10		1.14		0	Da ys	0.00		0.00		0	Da ys	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 STP	Public Notification Requirements Met? Y <input type="checkbox"/>	
Monitoring Period: February 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	
3	
4	Precipitation Event Observed
5	
6	
7	Precipitation Event Observed
8	
9	Precipitation Event Observed
10	
11	Precipitation Event Observed
12	
13	
14	
15	Precipitation Event Observed
16	Precipitation Event Observed
17	Precipitation Event Observed
18	
19	Precipitation Event Observed
20	Precipitation Event Observed
21	Precipitation Event Observed
22	
23	Precipitation Event Observed
24	
25	
26	
27	
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>	03/27/18

CSO Public Notification - February

Day of Month	Day of Week	Total Daily Precip. (Inches)	Notification Sent	Notes
1	Sun	0.01	Yes	
2	Mon	0.03	Yes	
3	Tue		No	
4	Wed	0.14	Yes	
5	Thu	0.10	Yes	
6	Fri		No	
7	Sat	0.17	Yes	
8	Sun	0.01	Yes	
9	Mon	1.08	Yes	
10	Tue		No	
11	Wed	0.58	Yes	
12	Thu		No	
13	Fri		No	
14	Sat		No	
15	Sun	0.87	Yes	
16	Mon		No	
17	Tue	0.16	Yes	
18	Wed	0.01	No	Computer Malfunction
19	Thu	1.88	Yes	
20	Fri	5.54	Yes	
21	Sat	0.88	Yes	
22	Sun		No	
23	Mon	0.15	Yes	
24	Tue	0.01	Yes	
25	Wed	0.03	Yes	
26	Thu		No	
27	Fri		No	
28	Tue	0.04	Yes	

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
Historical Flood	Peak design flow was not met due to record high river level and flooding February 21st - 28th

Metered CSO's

- CSO's 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.

*** Historical Flood February 18th - 21st. Record High River Level at 12' 7"

*** CSO's 3 & 45 meters were submerged under water during river flood stage in which time the flow meter was unable to calculate accurate volumes. The model was not calibrated to estimate flow under a 500 year flood event. The volume of discharge was estimated on 2/20, 2/21, 2/23/2018 by using August 2016 similar rainfall events.

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 DMR.

City of South Bend, Indiana
CSO Overflow Summary
 FEBRUARY 2018

CSO Outfall	Total Overflow Duration (Hours)	Total Overflow Volume (MG)	Number of Overflow Events¹
001	24.17	5.26	6
002	25.67	3.16	6
003	19.87	19.16	4
004	8.12	0.58	2
006	53.25	26.27	4
007	15.59	0.46	4
008	72.18	1.60	10
010	50.03	2.00	6
11A	0.89	0.06	1
11B	47.52	13.50	6
014	11.54	1.21	5
018	42.86	6.83	5
019	12.36	0.79	5
021	5.22	0.21	5
022	47.00	23.12	5
025	0.00	0.00	0
026	2.44	0.34	1
027	7.11	1.98	4
028	5.94	0.99	4
029	22.06	0.53	6
031	55.24	11.39	6
033	55.14	0.42	6
035	70.71	1.67	10
036	24.50	0.29	5
037	20.50	8.57	3
038	0.08	0.00	1
039	27.02	1.54	5
040	10.66	0.50	4
041	10.60	0.17	5
042	0.32	0.00	1
044	3.43	0.33	2
045	25.20	61.19	5
048	65.45	4.48	8
049	0.00	0.00	0
060	65.10	1.14	6
Total		199.8	

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.

Number of overflow days in February 2018 - 11 days

Precipitation Data Summary - February

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	0.01	0.00	0.00	0.00	0.00
2	Mon	0.00	0.00	0.01	0.00	0.03	0.00	0.01
3	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Wed	0.08	0.12	0.14	0.06	0.10	0.09	0.10
5	Thu	0.03	0.08	0.10	0.06	0.06	0.08	0.07
6	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Sat	0.07	0.05	0.12	0.10	0.09	0.17	0.10
8	Sun	0.00	0.00	0.01	0.00	0.01	0.00	0.00
9	Mon	0.53	0.31	0.68	0.48	1.08	0.58	0.61
10	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Wed	0.23	0.16	0.36	0.23	0.58	0.24	0.30
12	Thu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.39	0.45	0.30	0.51	0.87	0.81	0.55
16	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Tue	0.04	0.07	0.09	0.06	0.16	0.06	0.08
18	Wed	0.00	0.00	0.00	0.01	0.00	0.00	0.00
19	Thu	1.19	1.40	1.19	1.13	1.88	1.53	1.39
20	Fri	3.47	3.25	3.51	2.31	5.54	3.34	3.57
21	Sat	0.50	0.39	0.52	0.32	0.88	0.51	0.52
22	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Mon	0.06	0.05	0.08	0.04	0.15	0.07	0.07
24	Tue	0.00	0.00	0.01	0.01	0.00	0.01	0.00
25	Wed	0.01	0.02	0.03	0.03	0.02	0.02	0.02
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	Tue	0.02	0.02	0.02	0.03	0.01	0.04	0.02