



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: January 2018					Check box if no CSO discharge occurred for the month: <input type="checkbox"/>															
Design Peak Hourly Flow (MGD): 77					Design 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	27.3	30.4			0.01	0.01	1 hr													
2	27.9	31.6																		
3	28.6	31.6	6:20 PM	0.42	0.03	0.01	1 hr													
4	28.8	32.3	12:15 AM	0.67	0.03	0.02	1 hr													
5	28.9	32.6	12:05 AM	1.33	0.05	0.02	1 hr													
6	28.6	32.3	3:00 AM	0.25	0.02	0.01	1 hr													
7	28.3	31.7	10:35 PM	0.25	0.01	0.02	1 hr													
8	30.1	35.7	12:05 AM	1.67	0.08	0.04	1 hr													
9	29.1	32.5																		
10	40.4	66.3																		
11	52.0	65.6	5:10 AM	3.33	0.25	0.11	1 hr	9:30 AM	E	0.04	E	0.00	E							
12	35.1	48.6	1:05 AM	2.33	0.15	0.06	1 hr													
13	32.1	36.0																		
14	32.4	37.6	11:40 PM	0.08	0.01	0.02	1 hr													
15	32.7	36.8	12:00 AM	1.17	0.08	0.02	1 hr													
16	32.0	35.4																		
17	32.5	35.3																		
18	32.3	35.7																		
19	32.7	36.6																		
20	33.7	42.7																		
21	34.1	42.1																		
22	47.9	71.4	2:20 AM	5.00	0.46	0.18	1 hr	4:40 AM	E	0.62	E	0.03	E							
23	35.6	43.9	5:20 AM	1.75	0.10	0.06	1 hr													
24	32.7	35.5	12:40 PM	0.17	0.01	0.01	1 hr													
25	32.8	36.5																		
26	32.9	36.4																		
27	33.2	38.8																		
28	32.8	38.0																		
29	32.1	38.3																		
30	32.1	35.7																		
31	32.6	35.4																		
Totals:	1024.4			18.50	1.29			2	Days	0.66		0.03		0	Days	0.00		0.00		
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>													02/20/18							



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 2 of 11					Permit Number: IN0024520										
Facility: South Bend Municipal STP										Public Notification Requirements Met? Y															
Monitoring Period: January 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	
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22													5:35 AM	M	2.50	M	0.13	E							
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Totals:	0	De	0.00		0.00		0	De	0.00		0.00		1	De	2.50		0.13		0	De	0.00		0.00		



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Facility: South Bend Municipal STP		Public Notification Requirements Met? Y																						
Monitoring Period: January 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						
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8	3:15 AM	E	0.00	E	0.00	E																		
9																								
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11	11:15 AM	E	1.96	E	0.00	E	11:15 AM	E	0.21	E	0.00	E			11:15 AM	E	0.18	E	0.01	E				
12	3:35 AM	E	1.53	E	0.00	E																		
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22	4:30 AM	E	8.43	E	0.09	E	4:30 AM	E	4.33	E	0.09	E			4:30 AM	E	3.98	E	0.51	E				
23	10:00 AM	E	0.88	E	0.00	E																		
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Totals:	5	Da ys	12.80		0.09		2	Da ys	4.54		0.09		0	Da ys	0.00		0.00		2	Da ys	4.16		0.52	



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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	
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22	4:30 AM	E	0.76	E	0.04	E	4:30 AM	E	5.00	E	0.17	E	4:25 AM	E	0.54	E	0.01	E							
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Totals:	1	Days	0.76		0.04		1	Days	5.00		0.17		1	Days	0.54		0.01		0	Days	0.00		0.00		



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Monitoring Period: January 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	
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Totals:		0	Da	0.00		0.00	0	Da	0.00		0.00		0	Da	0.00		0.00		0	Da	0.00		0.00		



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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.					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	
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22							4:30 AM	E	1.81	E	0.02	E								4:30 AM	E	4.94	E	0.53	E
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Totals:	0	Da ys	0.00		0.00		2	Da ys	1.86		0.02		0	Da ys	0.00		0.00		2	Da ys	5.20		0.54		



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Facility: South Bend Municipal STP										Public Notification Requirements Met? Y															
Monitoring Period: January 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. 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	
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11	11:15 AM	E	0.12	E	0.00	E	11:15 AM	E	0.72	E	0.00	E													
12							3:35 AM	E	0.29	E	0.00	E													
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22	4:30 AM	E	5.13	E	0.02	E	4:30 AM	E	8.06	E	0.11	E	4:30 AM	E	1.96	E	0.01	E							
23							10:00 AM	E	0.17	E	0.00	E													
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Totals:	2	Da ys	5.25		0.02		5	Da ys	9.24		0.11		1	Da ys	1.96		0.01		0	Da ys	0.00		0.00		



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City: City of South Bend										Page 8 of 11					Permit Number: IN0024620										
Facility: South Bend Municipal STP										Public Notification Requirements Met? Y															
Monitoring Period: January 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. 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	
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Monitoring Period: January 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		
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12																				3:05 AM	E	0.52	E	0.01	E	
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22																				4:25 AM	E	4.89	E	0.23	E	
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30																										
31																										
Totals:	0	Days	0.00		0.00		0	Days	0.00		0.00		0	Days	0.00		0.00		3	Days	5.41		0.25			



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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. 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	
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22							4:30 AM	E	7.67	E	0.01	E													
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28																									
29																									
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31																									
Totals:	0	Da ys	0.00		0.00		2	Da ys	8.12		0.01		0	Da ys	0.00		0.00		0	Da ys	0.00		0.00		0.00



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Facility: South Bend Municipal STP	Public Notification Requirements Met? Y <input type="checkbox"/>	
Monitoring Period: January Year: 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	
5	
6	
7	
8	Precipitation Event Observed
9	
10	
11	Precipitation Event Observed
12	Precipitation Event Observed
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14	
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21	
22	Precipitation Event Observed
23	Precipitation Event Observed
24	
25	
26	
27	
28	
29	
30	
31	

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>	02/20/18

CSO Public Notification - January

Day of Month	Day of Week	Total Daily Precip. (Inches)	Notification Sent	Notes
1	Mon	0.01	Yes	
2	Tue		No	
3	Wed	0.03	Yes	
4	Thu	0.03	Yes	
5	Fri	0.05	Yes	
6	Sat	0.02	Yes	
7	Sun	0.01	Yes	
8	Mon	0.08	Yes	
9	Tue		No	
10	Wed		No	
11	Thu	0.25	Yes	
12	Fri	0.15	Yes	
13	Sat		No	
14	Sun	0.01	Yes	
15	Mon	0.08	Yes	
16	Tue		No	
17	Wed		Yes	Rain Gauge Inspection
18	Thu		No	
19	Fri		Yes	Rain Gauge Inspection
20	Sat		No	
21	Sun		No	
22	Mon	0.46	Yes	
23	Tue	0.10	Yes	
24	Wed	0.01	Yes	
25	Thu		No	
26	Fri		No	
27	Sat		No	
28	Sun		No	
29	Mon		No	
30	Tue		No	
31	Wed		No	

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

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.

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

Rain Gauge Meter

Ethanol Rain Gauge out of service from Jan 1 to 19 - Colfax gauge substituted.
 CSO 037 meter was operating intermittently in the month of January.

Overflows less than 10,000 gallons are reported as 0.00 MG on the DMR.

City of South Bend, Indiana
CSO Overflow Summary
JANUARY 2018

CSO Outfall	Total Overflow Duration (Hours)	Total Overflow Volume (MG)	Number of Overflow Events¹
001	0.66	0.03	2
002	0.00	0.00	0
003	0.00	0.00	0
004	0.00	0.00	0
006	2.50	0.13	1
007	0.00	0.00	0
008	12.80	0.09	5
010	4.54	0.09	2
11A	0.00	0.00	0
11B	4.16	0.52	2
014	0.76	0.04	1
018	5.00	0.17	1
019	0.54	0.01	1
021	0.00	0.00	0
022	0.00	0.00	0
025	0.00	0.00	0
026	0.00	0.00	0
027	0.00	0.00	0
028	0.00	0.00	0
029	1.86	0.02	2
031	5.20	0.54	2
033	5.25	0.02	2
035	9.24	0.11	5
036	1.96	0.01	1
037	0.00	0.00	0
038	0.00	0.00	0
039	1.74	0.04	1
040	0.00	0.00	0
041	0.00	0.00	0
042	0.00	0.00	0
044	0.00	0.00	0
045	0.00	0.00	0
048	5.41	0.25	3
049	0.00	0.00	0
060	8.12	0.01	2
Total		2.1	

Number of Overflow Days In January 2018 = 5 days

This tab summarizes the total overflow volume, total overflow duration and number of overflow days for every CSO in January

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.