# 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: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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 | 35.8 | 39.4 | | | - | | | | | | | | | | | | | | |
| 2 | 35.4 | 39.2 | | | - | | | | | | | | | | | | | | |
| 3 | 34.9 | 38.3 | | | - | | | | | | | | | | | | | | |
| 4 | 34.8 | 37.9 | | | - | | | | | | | | | | | | | | |
| 5 | 34.2 | 37.1 | | | - | | | | | | | | | | | | | | |
| 6 | 34.7 | 38.3 | | | - | | | | | | | | | | | | | | |
| 7 | 34.8 | 37.5 | | | - | | | | | | | | | | | | | | |
| 8 | 34.8 | 39.1 | | | - | | | | | | | | | | | | | | |
| 9 | 45.3 | 80.3 | 3:40 PM | 4.33 | 0.63 | 0.22 | 1 hr | 5:50 PM | E | 1.14 | E | 0.08 | E | 5:50 PM | E | 0.45 | E | 0.00 | E |
| 10 | 38.7 | 73.2 | 1:00 AM | 0.17 | 0.01 | 0.01 | 1 hr | | | | | | | | | | | | |
| 11 | 34.9 | 38.8 | | | - | | | | | | | | | | | | | | |
| 12 | 34.7 | 38.9 | | | - | | | | | | | | | | | | | | |
| 13 | 35.7 | 43.4 | 6:25 AM | 2.33 | 0.10 | 0.05 | 1 hr | | | | | | | | | | | | |
| 14 | 44.6 | 74.1 | 1:40 AM | 4.25 | 0.51 | 0.27 | 1 hr | 3:45 AM | E | 0.84 | E | 0.04 | E | | | | | | |
| 15 | 39.1 | 51.4 | 8:15 AM | 3.58 | 0.16 | 0.04 | 1 hr | | | | | | | | | | | | |
| 16 | 35.2 | 39.3 | | | - | | | | | | | | | | | | | | |
| 17 | 34.4 | 37.5 | 11:45 AM | 0.08 | 0.01 | 0.01 | 1 hr | | | | | | | | | | | | |
| 18 | 34.8 | 38.4 | | | - | | | | | | | | | | | | | | |
| 19 | 34.9 | 37.8 | | | - | | | | | | | | | | | | | | |
| 20 | 41.5 | 67.1 | 9:25 AM | 4.50 | 0.31 | 0.13 | 1 hr | 11:45 AM | E | 0.04 | E | 0.00 | E | | | | | | |
| 21 | 37.4 | 40.4 | 1:45 AM | 1.42 | 0.11 | 0.10 | 1 hr | | | | | | | | | | | | |
| 22 | 35.6 | 39.2 | | | - | | | | | | | | | | | | | | |
| 23 | 35.0 | 40.3 | | | - | | | | | | | | | | | | | | |
| 24 | 36.3 | 49.1 | 6:35 PM | 3.67 | 0.21 | 0.10 | 1 hr | | | | | | | | | | | | |
| 25 | 37.0 | 48.2 | 4:10 AM | 0.08 | 0.01 | 0.01 | 1 hr | | | | | | | | | | | | |
| 26 | 35.3 | 39.1 | | | - | | | | | | | | | | | | | | |
| 27 | 35.5 | 39.6 | | | - | | | | | | | | | | | | | | |
| 28 | 36.0 | 39.0 | 1:40 AM | 1.00 | 0.05 | 0.05 | 1 hr | | | | | | | | | | | | |
| 29 | 35.7 | 39.0 | 1:55 AM | 2.42 | 0.23 | 0.21 | 1 hr | | | | | | | | | | | | |
| 30 | 56.7 | 78.5 | 12:00 AM | 8.33 | 0.71 | 0.19 | 1 hr | 2:00 AM | E | 1.21 | E | 0.09 | E | 2:00 AM | E | 0.58 | E | 0.00 | E |
| 31 | 36.1 | 39.2 | | | - | | | | | | | | | | | | | | |
| Totals: | 1149.6 | | | 36.17 | 3.05 | | | 4 | Days | 3.23 | | 0.21 | | 2 | Days | 1.03 | | 0.01 | |

| Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent | Telephone |
|---|---|
| Al Greek , Director of Utilities | 574-271-4210 |

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) |
|---|---|
| Al Greek | 04/16/19 |

**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 WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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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| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 8:05 PM | M | 1.50 | M | 0.60 | E | | | | | | | 4:50 PM | M | 4.50 | M | 0.98 | E | 5:45 PM | E | 1.47 | E | 0.01 | E |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | 5:20 PM | M | 0.50 | M | 0.01 | E | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | 12:35 AM | M | 3.75 | M | 0.16 | E | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 1 | Days | 1.50 | | 0.60 | | 0 | Days | | | 0.00 | | 3 | Days | 8.75 | | 1.16 | | 1 | Days | 1.47 | | 0.01 | |

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

| | | | |
|---|---|---|---|
| City: City of South Bend | | Page 3 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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 |
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| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 5:45 PM | E | 6.25 | E | 0.08 | E | 5:45 PM | E | 5.60 | E | 0.15 | E | | | | | | | 5:45 PM | E | 5.16 | E | 0.93 | E |
| 10 | 12:00 AM | E | 4.36 | E | 0.06 | E | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 8:40 AM | E | 0.88 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 14 | 3:45 AM | E | 7.81 | E | 0.08 | E | 3:45 AM | E | 4.08 | E | 0.08 | E | | | | | | | 3:45 AM | E | 3.72 | E | 0.45 | E |
| 15 | 11:40 AM | E | 1.31 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 11:45 AM | E | 3.65 | E | 0.03 | E | 11:45 AM | E | 1.90 | E | 0.02 | E | | | | | | | 11:45 AM | E | 1.62 | E | 0.08 | E |
| 21 | 3:55 AM | E | 0.22 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 8:35 PM | E | 3.02 | E | 0.02 | E | 8:35 PM | E | 1.27 | E | 0.01 | E | | | | | | | 8:35 PM | E | 1.08 | E | 0.05 | E |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 3:40 AM | E | 0.22 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 29 | 6:25 AM | E | 2.60 | E | 0.01 | E | 6:25 AM | E | 0.85 | E | 0.01 | E | | | | | | | 6:25 AM | E | 0.72 | E | 0.03 | E |
| 30 | 2:05 AM | E | 9.46 | E | 0.10 | E | 2:05 AM | E | 4.75 | E | 0.11 | E | | | | | | | 2:05 AM | E | 4.41 | E | 0.62 | E |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 11 | Days | 39.78 | | 0.37 | | 6 | Days | 18.45 | | 0.38 | | 0 | Days | | | 0.00 | | 6 | Days | 16.71 | | 2.16 | |

**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 4 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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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| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 5:45 PM | E | 1.38 | E | 0.06 | E | 5:45 PM | E | 6.25 | E | 0.36 | E | 5:45 PM | E | 1.06 | E | 0.02 | E | 5:45 PM | E | 0.17 | E | 0.00 | E |
| 10 | | | | | | | 12:00 AM | E | 0.58 | E | 0.03 | E | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 3:45 AM | E | 0.64 | E | 0.03 | E | 3:45 AM | E | 4.21 | E | 0.15 | E | 3:40 AM | E | 0.39 | E | 0.01 | E | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | | 11:45 AM | E | 0.06 | E | 0.00 | E | | | | | | |
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| 30 | 2:05 AM | E | 0.96 | E | 0.05 | E | 2:05 AM | E | 6.32 | E | 0.22 | E | 2:00 AM | E | 1.41 | E | 0.03 | E | 2:00 AM | E | 0.36 | E | 0.00 | E |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 3 | Days | 2.98 | | 0.14 | | 4 | Days | 17.36 | | 0.76 | | 4 | Days | 2.92 | | 0.06 | | 2 | Days | 0.53 | | 0.00 | |

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| City: City of South Bend | | Page 5 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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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| 9 | 4:30 PM | M | 3.00 | M | 1.39 | E | | | | | | | | | | | | | 5:50 PM | E | 0.59 | E | 0.03 | E |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 14 | 5:05 PM | M | 0.75 | M | 0.16 | E | | | | | | | | | | | | | 3:45 AM | E | 0.05 | E | 0.00 | E |
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| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 2:45 AM | M | 2.00 | M | 0.44 | E | | | | | | | | | | | | | 2:00 AM | E | 0.96 | E | 0.05 | E |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 3 | Days | 5.75 | | 1.99 | | 0 | Days | | | 0.00 | | 0 | Days | | | 0.00 | | 3 | Days | 1.60 | | 0.08 | |

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| | | | |
|---|---|---|---|
| City: City of South Bend | | Page 6 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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 | | | | | | CSO Outfall No. 033 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 5:45 PM | E | 0.45 | E | 0.00 | E | 5:45 PM | E | 2.27 | E | 0.03 | E | 5:45 PM | E | 6.25 | E | 0.81 | E | 5:45 PM | E | 6.25 | E | 0.02 | E |
| 10 | | | | | | | | | | | | | 12:00 AM | E | 0.98 | E | 0.13 | E | 12:00 AM | E | 1.26 | E | 0.00 | E |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | 3:45 AM | E | 1.63 | E | 0.01 | E | 3:45 AM | E | 4.70 | E | 0.47 | E | 3:45 AM | E | 4.57 | E | 0.01 | E |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | 9:15 PM | E | 2.75 | E | 0.01 | E | | | | | | |
| 17 | | | | | | | | | | | | | 12:00 AM | E | 11.00 | E | 0.05 | E | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | 11:45 AM | E | 0.46 | E | 0.00 | E | 11:45 AM | E | 2.37 | E | 0.10 | E | 11:45 AM | E | 1.10 | E | 0.00 | E |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | 8:35 PM | E | 0.31 | E | 0.00 | E | 8:35 PM | E | 1.58 | E | 0.07 | E | 8:35 PM | E | 0.73 | E | 0.00 | E |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | 6:25 AM | E | 0.21 | E | 0.00 | E | 6:25 AM | E | 1.05 | E | 0.05 | E | 6:25 AM | E | 0.49 | E | 0.00 | E |
| 30 | | | | | | | 2:05 AM | E | 2.11 | E | 0.02 | E | 2:05 AM | E | 5.34 | E | 0.63 | E | 2:05 AM | E | 6.06 | E | 0.02 | E |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 1 | Days | 0.45 | | 0.00 | | 6 | Days | 6.99 | | 0.06 | | 9 | Days | 36.02 | | 2.32 | | 7 | Days | 20.46 | | 0.06 | |

CSO 31 DWO 3/16-3/17 due to partial blockage in line restricting flow

**National Pollutant Discharge Elimination System (NPDES)**
**CSO Monthly Report of Operation (CSO MRO)**
State Form 55046 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

| | | | |
|---|---|---|---|
| City: City of South Bend | | Page 7 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| Design Peak Flow (Hourly) (MGD): 77 | Design Flow (MGD): 48 | Measured/Metered (M) or Estimated (E) must be specified | |

| | CSO Outfall No. 035 | | | | | | CSO Outfall No. 036 | | | | | | CSO Outfall No. 037 | | | | | | CSO Outfall No. 038 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 5:45 PM | E | 6.25 | E | 0.10 | E | 5:45 PM | E | 2.93 | E | 0.01 | E | 7:05 PM | M | 0.67 | M | 0.01 | E | | | | | | |
| 10 | 12:00 AM | E | 4.13 | E | 0.07 | E | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 8:40 AM | E | 0.17 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 14 | 3:45 AM | E | 7.63 | E | 0.10 | E | 3:45 AM | E | 1.65 | E | 0.01 | E | 5:15 PM | M | 0.42 | M | 0.00 | E | | | | | | |
| 15 | 11:40 AM | E | 0.25 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 11:45 AM | E | 3.79 | E | 0.03 | E | | | | | | | | | | | | | | | | | | |
| 21 | 3:55 AM | E | 0.04 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 8:35 PM | E | 2.64 | E | 0.02 | E | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 3:40 AM | E | 0.04 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 29 | 6:25 AM | E | 1.87 | E | 0.01 | E | | | | | | | | | | | | | | | | | | |
| 30 | 2:05 AM | E | 8.77 | E | 0.13 | E | 2:05 AM | E | 2.48 | E | 0.01 | E | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 11 | Days | 35.58 | | 0.45 | | 3 | Days | 7.06 | | 0.03 | | 2 | Days | 1.08 | | 0.02 | | 0 | Days | | | 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 8 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| Design Peak Flow (Hourly) (MGD): 77 | Design Flow (MGD): 48 | Measured/Metered (M) or Estimated (E) must be specified | |

| | CSO Outfall No. 039 | | | | | | CSO Outfall No. 040 | | | | | | CSO Outfall No. 041 | | | | | | CSO Outfall No. 042 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 5:45 PM | E | 2.76 | E | 0.09 | E | 5:50 PM | E | 0.66 | E | 0.01 | E | 5:45 PM | E | 0.92 | E | 0.00 | E | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 3:40 AM | E | 1.26 | E | 0.03 | E | 3:45 AM | E | 0.05 | E | 0.00 | E | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 11:45 AM | E | 0.19 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 2:00 AM | E | 3.13 | E | 0.12 | E | 2:00 AM | E | 1.07 | E | 0.02 | E | 2:00 AM | E | 1.30 | E | 0.01 | E | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 4 | Days | 7.34 | | 0.24 | | 3 | Days | 1.78 | | 0.03 | | 2 | Days | 2.22 | | 0.01 | | 0 | Days | | | 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 9 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| Design Peak Flow (Hourly) (MGD): 77 | Design Flow (MGD): 48 | Measured/Metered (M) or Estimated (E) must be specified | |

| | CSO Outfall No. 044 | | | | | | CSO Outfall No. 045 | | | | | | CSO Outfall No. 048 | | | | | | CSO Outfall No. 049 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | | 7:35 PM | M | 2.92 | M | 1.26 | M | 5:45 PM | E | 6.25 | E | 0.34 | E | | | | | | |
| 10 | | | | | | | | | | | | | 12:00 AM | E | 0.78 | E | 0.04 | E | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | 3:40 AM | E | 4.16 | E | 0.18 | E | | | | | | |
| 15 | | | | | | | | | | | | | 10:15 AM | E | 0.69 | E | 0.02 | E | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | 11:45 AM | E | 2.54 | E | 0.08 | E | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | 8:55 PM | E | 0.52 | E | 0.01 | E | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | 6:40 AM | E | 0.69 | E | 0.02 | E | | | | | | |
| 30 | | | | | | | 3:05 AM | M | 1.58 | M | 0.34 | M | 2:00 AM | E | 8.27 | E | 0.47 | E | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 0 | Days | | | 0.00 | | 2 | Days | 4.50 | | 1.60 | | 8 | Days | 23.90 | | 1.16 | | 0 | Days | | | 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 10 of 11 | Permit Number: IN0024520 |
| Facility: South Bend Municipal WWTP | | Public Notification Requirements Met? Y | |
| Monitoring Period: March 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| Design Peak Flow (Hourly) (MGD): 77 | Design Flow (MGD): 48 | Measured/Metered (M) or Estimated (E) must be specified | |

| | CSO Outfall No. 060 | | | | | | CSO Outfall No. | | | | | | 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 | 5:45 PM | E | 6.25 | E | 0.01 | E | | | | | | | | | | | | | | | | | | |
| 10 | 12:00 AM | E | 2.52 | E | 0.01 | E | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 3:45 AM | E | 7.38 | E | 0.01 | E | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 11:45 AM | E | 4.04 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 8:35 PM | E | 2.69 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 6:25 AM | E | 1.79 | E | 0.00 | E | | | | | | | | | | | | | | | | | | |
| 30 | 2:05 AM | E | 8.15 | E | 0.01 | E | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 7 | Days | 32.82 | | 0.03 | | 0 | Days | | | 0.00 | | 0 | Days | | | 0.00 | | 0 | Days | | | 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 | |
| Monitoring Period: March Year: 2019 | | Check box if no CSO discharge occurred for the month: ☐ | |
| 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 | |
| 9 | Precipitation Event Observed |
| 10 | Event on the 9th continued into this day |
| 11 | |
| 12 | |
| 13 | Precipitation Event Observed |
| 14 | Precipitation Event Observed |
| 15 | Precipitation Event Observed |
| 16 | DWO due to partial blockage in line restricting flow |
| 17 | DWO on 16th continued into this day |
| 18 | |
| 19 | |
| 20 | Precipitation Event Observed |
| 21 | Precipitation Event Observed |
| 22 | |
| 23 | |
| 24 | Precipitation Event Observed |
| 25 | |
| 26 | |
| 27 | |
| 28 | Precipitation Event Observed |
| 29 | Precipitation Event Observed |
| 30 | Precipitation Event Observed |
| 31 | |

| Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent | Telephone |
|---|---|
| Al Greek , Director of Utilities | 574-271-4210 |

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) |
|---|---|
| Al Greek | 07/16/19 |

# CSO Public Notification - March

| Day of Month | Day of Week | Total Daily Precip. (inches) | Total Daily CSO Discharge Volume (MG) | Notification Sent | Notes |
|---|---|---|---|---|---|
| 1 | Fri | - | - | | |
| 2 | Sat | - | - | | |
| 3 | Sun | - | - | | |
| 4 | Mon | - | - | | |
| 5 | Tue | - | - | | |
| 6 | Wed | - | - | | |
| 7 | Thu | - | - | | |
| 8 | Fri | - | - | | |
| 9 | Sat | 0.63 | 7.41 | Yes | |
| 10 | Sun | 0.01 | 0.34 | | Overflow event from 9th continued into the 10th |
| 11 | Mon | - | - | | |
| 12 | Tue | - | - | | |
| 13 | Wed | 0.10 | 0.00 | Yes | Estimated <10,000 gallons of overflow |
| 14 | Thu | 0.51 | 1.83 | Yes | |
| 15 | Fri | 0.16 | 0.02 | Yes | |
| 16 | Sat | - | 0.01 | Yes | DWO at CSO 31 due to partial blockage restricting flow |
| 17 | Sun | 0.01 | 0.05 | | DWO event from 16th continued into the17th |
| 18 | Mon | - | - | | |
| 19 | Tue | - | - | | |
| 20 | Wed | 0.31 | 0.34 | Yes | |
| 21 | Thu | 0.11 | 0.00 | Yes | Estimated <10,000 gallons of overflow |
| 22 | Fri | - | - | | |
| 23 | Sat | - | - | | |
| 24 | Sun | 0.21 | 0.18 | Yes | |
| 25 | Mon | 0.01 | 0.00 | | |
| 26 | Tue | - | - | | |
| 27 | Wed | - | - | | |
| 28 | Thu | 0.05 | 0.00 | Yes | Estimated <10,000 gallons of overflow |
| 29 | Fri | 0.23 | 0.13 | Yes | |
| 30 | Sat | 0.71 | 3.63 | Yes | |
| 31 | Sun | - | - | | |

**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 CSOs**

- 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.

**Other CSOs**

For non-metered CSOs, 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 Gauges**

Used data from the following rain gauges in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

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 - March

| 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 | Fri | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | Sat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | Sun | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | Mon | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | Tue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | Wed | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | Thu | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | Fri | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | Sat | 0.63 | 0.42 | 0.63 | 0.62 | 0.57 | 0.59 | 0.58 |
| 10 | Sun | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | Mon | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | Tue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | Wed | 0.07 | 0.07 | 0.10 | 0.10 | 0.10 | 0.07 | 0.08 |
| 14 | Thu | 0.41 | 0.26 | 0.51 | 0.36 | 0.48 | 0.37 | 0.40 |
| 15 | Fri | 0.10 | 0.11 | 0.07 | 0.11 | 0.12 | 0.16 | 0.11 |
| 16 | Sat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | Sun | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 18 | Mon | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | Tue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | Wed | 0.21 | 0.23 | 0.23 | 0.31 | 0.25 | 0.27 | 0.25 |
| 21 | Thu | 0.05 | 0.05 | 0.04 | 0.08 | 0.05 | 0.11 | 0.06 |
| 22 | Fri | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | Sat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | Sun | 0.17 | 0.16 | 0.21 | 0.19 | 0.20 | 0.15 | 0.18 |
| 25 | Mon | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | Tue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | Wed | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | Thu | 0.05 | 0.05 | 0.04 | 0.04 | 0.02 | 0.04 | 0.04 |
| 29 | Fri | 0.16 | 0.11 | 0.23 | 0.18 | 0.22 | 0.16 | 0.18 |
| 30 | Sat | 0.49 | 0.63 | 0.71 | 0.66 | 0.59 | 0.68 | 0.63 |
| 31 | Sun | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**City of South Bend, Indiana**
**CSO Overflow Summary**
MARCH 2019

**NUMBER OF OVERFLOW EVENTS IN MARCH 2019 =** **11**

| CSO Outfall | Total Overflow Duration (Hours) | Total Overflow Volume (MG) | Number of Overflow Events[1] |
|---|---|---|---|
| 001 | 3.23 | 0.21 | 4 |
| 002 | 1.03 | 0.01 | 2 |
| 003 | 1.50 | 0.60 | 1 |
| 004 | | | 0 |
| 006 | 8.75 | 1.16 | 3 |
| 007 | 1.47 | 0.01 | 1 |
| 008 | 39.78 | 0.37 | 10 |
| 010 | 18.45 | 0.38 | 6 |
| 11A | | | 0 |
| 11B | 16.71 | 2.16 | 6 |
| 014 | 2.98 | 0.14 | 3 |
| 018 | 17.36 | 0.76 | 3 |
| 019 | 2.92 | 0.06 | 4 |
| 021 | 0.53 | 0.00 | 2 |
| 022 | 5.75 | 1.99 | 3 |
| 025 | | | 0 |
| 026 | | | 0 |
| 027 | 1.60 | 0.08 | 3 |
| 028 | 0.45 | 0.00 | 1 |
| 029 | 6.99 | 0.06 | 6 |
| 031 | 36.02 | 2.32 | 7 |
| 033 | 20.46 | 0.06 | 6 |
| 035 | 35.58 | 0.45 | 10 |
| 036 | 7.06 | 0.03 | 3 |
| 037 | 1.08 | 0.02 | 2 |
| 038 | | | 0 |
| 039 | 7.34 | 0.24 | 4 |
| 040 | 1.78 | 0.03 | 3 |
| 041 | 2.22 | 0.01 | 2 |
| 042 | | | 0 |
| 044 | | | 0 |
| 045 | 4.50 | 1.60 | 2 |
| 048 | 23.90 | 1.16 | 7 |
| 049 | | | 0 |
| 060 | 32.82 | 0.03 | 6 |
| **Total** | | **13.9** | |

This tab summarizes the total overflow volume, total overflow duration and number of overflow events for every CSO for that particular month.

[1]More 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.