

Newburgh Wastewater Treatment Facilities 2018 Bypass/Overflow Incident Report

	Location Of SSO	Date SSO Began	Time SSO Began	Date SSO Ended	Time SSO Ended	Overflowed To (Location):	Overflow Volume (mg)	SSO Volume (Est/Act)	WWTP Flow During SSO (mgd)	Aquatic life Killed (Yes or No)	Reason For SSO	Precipitation (Inches)	Details Of SSO (As Described by the Incident Report)	Actions Taken (As Described by the Incident Report)	Additional Information / Additional Action Required / Current Status of Projects (As of March , 2019 Review)
1	Manhole 23-120 at 2422 Briar Cliff	2/23/18	4:15 AM	2/23/18	4:30 AM	Private Property	0.0005	Est	15.3	No	Equipment Failure		Pump station failure. Pump Number 2 at the Blue Lake Lift Station became clogged with rags/sanitary wipes during a rain event with high flow conditions. A manhole upstream of the lift station overflowed approximately 500 gallons into a private lake.	Pump Number 2 was pulled up, and the rags/sanitary wipes were removed from the pump impeller and volute. The pump was placed back in served. E coli warning signs will be placed around the lake, and the lake will be tested for E coli. The warning signs will remain in place until the E coli levels have returned to normal. No action needed.	Complete. No further action needed.
2	Manhole 11-242, Bell Rd & Birch Dr	2/24/18	8:19 PM	2/25/18	12:26 AM	Private Property	0.015	Est	18	No	Precipitation	5.26	Hydraulic Overload. The sanitary sewer system became hydraulically overloaded due to a 5.26 inch rain event coupled with a antecedent Ohio River stage which was more than 10 feet above flood stage.	Called in 2 vacuum tank trucks to relieve the system and transport sewage to the plant. This was a force majeure event.	In 2017 Newburgh completed a system wide flow meter study. In 2018 Newburgh completed the following: *Targeted smoke testing as determined by flow meter study and *Inspected manholes in targeted basins as determined by the flow meter study. Our Engineers are currently developing I&I removal projects based the findings of the above.
3	Manhole 11-197 at 8477 Sycamore Dr	2/24/18	8:19 PM	2/24/18	11:35 PM	Private Property	0.007	Est	18	No	Precipitation	5.26	Hydraulic Overload. The sanitary sewer system became hydraulically overloaded due to a 5.26 inch rain event coupled with a antecedent Ohio River stage which was more than 10 feet above flood stage.	Had to wait for rain to subside. This was a force majeure event.	In 2017 Newburgh completed a system wide flow meter study. In 2018 Newburgh completed the following: *Targeted smoke testing as determined by flow meter study and *Inspected manholes in targeted basins as determined by the flow meter study. Our Engineers are currently developing I&I removal projects based the findings of the above.
4	Manhole 23-120 at 2422 Briar Cliff	2/24/18	7:55 PM	2/24/18	10:15 PM	Private Property	0.008	Est	21.5	No	Precipitation	5.26	Hydraulic Overload. The sanitary sewer system became hydraulically overloaded due to a 5.26 inch rain event coupled with a antecedent Ohio River stage which was more than 10 feet above flow stage.	Called in 2 vacuum tank trucks to relieve the system and transport sewage to the plant. This was a force majeure event.	In 2017 Newburgh completed a system wide flow meter study. In 2018 Newburgh completed the following: *Targeted smoke testing as determined by flow meter study and *Inspected manholes in targeted basins as determined by the flow meter study. Our Engineers are currently developing I&I removal projects based the findings of the above.
5	Manhole 13-203	2/24/18	8:50 PM	2/24/18	11:30 PM	Private Property	0.075	Est	22.2	No	Precipitation	5.26	Hydraulic Overload. The sanitary sewer system became hydraulically overloaded due to a 5.26 inch rain event coupled with a antecedent Ohio River stage which was more than 10 feet above flow stage.	Called in 5 vacuum tank trucks to relieve the system and transport sewage to the plant. This was a force majeure event.	In 2017 Newburgh completed a system wide flow meter study. In 2018 Newburgh completed the following: *Targeted smoke testing as determined by flow meter study and *Inspected manholes in targeted basins as determined by the flow meter study. Our Engineers are currently developing I&I removal projects based the findings of the above.
6	Manhole 13-203	2/25/18	6:41 AM	2/25/18	9:05 AM		0.18	Est	11	No	Power Failure Equipment Failure Precipitation	5.26	A power failure occurred at Lift Station Number 2. Our back up generator started and 2 pumps came online. However, our high storm flow diesel pump would not prime. This coupled with the storm event and the antecedent Ohio River stage which was more than 10 feet above flood stage created the overflow.	Called in 5 vacuum tank trucks to relieve the system and transport sewage to the plant. A valve obstruction was removed which prevented the diesel pump from priming. The pump was placed back online. No further action needed.	Complete. No further action needed.

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7	Clean out 09-06 at 300 W Jennings St	3/23/18	11:59 AM	3/23/18	12:22 PM	Private Property	0.0001	Est	3.09	No	Line Blockage		Pipe failure. The main line clogged with sanitary wipes and grease.	Removed blockage and clean-up debris. The line will be TV inspected and any defect will be repaired as soon as possible.	A pipe defect will be corrected via a construction project scheduled for early spring 2019.
8	3922 Wethers Rd Victoria LS ARV #3	3/27/18	9:37 AM	3/27/18	9:59 AM	Reached receiving water; Cypress Creek	0.0008	Est	4.4	No	Equipment Failure		Air relief valve. The overflow was caused by a malfunctioning air relief valve.	Used a vacuum truck to vacuum up sewage. Repaired the air relief valve. No further actions needed.	Complete. No further action needed.
9	Manhole 23-120 at 2422 Briar Cliff	6/12/18	5:25 PM	6/12/18	6:45 PM	Private Property	0.0016	Est	13.4	No	Precipitation	1.16	Manhole and Lift Station Hydraulic Overload. The Blue Lake Lift Station became hydraulically overloaded due to an intense rain event coupled with a missing manhole cover discovered in a low lying area next to a ditch. The intense rainfall created very high storm water flows in the area ditches which then entered Manhole 23-125. This created the overflow.	The manhole cover was replaced. We will replace the manhole frame and lid with a bolt down unit which cannot be easily removed.	Complete. No further action needed.
10	Lift Station No.1. Air release valve at 21 Julianna Ct	8/23/18	5:45 PM	8/23/18	6:20 PM	Private Property	0.00001	Est	1.95	No	Equipment Failure		Air relief valve. There was a same leak out of an air relief valve (ARV) on the lift station No.1 force main.	Clean-up debris. The ARV manhole was vacuumed out to a tank truck, the ARV was repaired, and pooled wastewater was vacuumed from the ground in the area of the release. The wastewater vacuumed up was transported to the WWTP for disposal. The ARV is inspected periodically for problems. No other action required.	Complete. No further action needed.
11	Master Lift Station at 3513 Libert Road	11/5/18	Discovered at 9:45 AM	11/5/18	10:00 AM	Private Property	0.001	Est	3.3	No	Equipment Failure		Hydro-gritter vent line. The Master Lift Station provides preliminary treatment of wastewater prior to pumping the waste to the WWTP. The preliminary treatment includes screening and grit removal. The grit removal system is a Hydro-gritter. The overflow occurred when the discharge piping (gravity line) out of the hydro-gritter clogged which forced wastewater to backup the vent line on the roof which allowed the sewage to drain through the gutters to the parking lot and an adjacent agricultural field.	Removed blockage and clean-up debris. The discharge piping will need to be increased in size and oriented to prevent back pressure.	Complete. No further action needed.

Total Overflow Volume: 0.289 mgd

Total Treated Flow: 1,217.30 mgd

Volume: 0.024 %