



Gallatin Public Utilities

Water ♦ Sewer ♦ Natural Gas

April 20, 2016

Manager, Enforcement and Compliance Section
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
312 Rosa L. Parks Avenue
Tennessee Tower – 11th Floor
Nashville, TN 37243

Manager, Nashville Environmental Field Office
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
711 R.S. Gass Boulevard
Nashville, TN 37243

Re: Agreed Order - Case No. WPC11-0066
Docket No. 04.30-116140A
Item No. 9 - Submittal of Annual Report
Sumner County, Tennessee

Ladies and Gentlemen:

In accordance with the provisions of the Agreed Order, referenced above, Item Number 9 – Annual Report submittal, below is the annual report for your review and approval. A copy of this annual report is also being placed on our website in the Public Document Repository.

Sanitary Sewer Overflow Response Plan (SSORP):

Our Sanitary Sewer Overflow Response Plan was approved by the Tennessee Department of Environment and Conservation (TDEC) on November 7, 2013, and fully implemented as of January 27, 2014.

We experienced a total of 12 sanitary sewer overflows during 2015. Of these overflows, 9 were rainfall related, 2 were pump station mechanical failures (power or controls), and 1 was due to a force main break.

Corrective Action Plan/Engineering Report (CAP/ER):

A draft Corrective Action Plan/Engineering Report (CAP/ER) was submitted to the Tennessee Department of Environment and Conservation (TDEC) for review and approval on November 13, 2012. The CAP/ER was approved by the Department on December 13, 2012. As indicated in the CAP/ER there are currently several projects in the various stages of design and construction, these include the following:

Contract 212 – 2012 Sewer System Rehabilitation – Phase 1, Phase 2, Phase 3

Construction has been completed on Phase 1 (\$1,700,000.00) and Phase 2 (\$400,000.00) of the project. Construction continues on Phase 3 (\$500,000.00) that was added as extensions to the original contract. Construction of these phases is scheduled for completion in the summer of 2016. To date this project has – replaced approximately 49,282 linear feet of 6" to 24" gravity sewer main with HDPE pipe, replaced 452 sanitary sewer services, replaced approximately 10,904 linear feet of sewer service pipe, rehabilitated and epoxy coated 1,553 vertical feet of sanitary sewer manholes.

Bull's Creek Lift Station

Our engineering firm (James C. Hailey and Associates) has completed the design of a replacement for the Bull's Creek Lift Station. This project is being designed as an upgrade to the lift station to increase capacity and to eliminate rainfall related sanitary sewer overflows at this location. The new station has a design capacity of 4.5 MGD (current station's capacity is 1.5 MGD); and will include: a wet pit/dry pit design, 3 – 125 HP pumps, VFD controls, a JWC Environmental Grinder Unit, an emergency stand-by generator with automatic transfer switch, and a second 18" diameter ductile iron force main. This project is tentatively scheduled to bid in the summer of 2016, once we receive approval documents from the US Army Corp of Engineers.

Number 1 Lift Station

Construction is underway on the upgrades for the Number 1 Lift Station (\$720,000.00). The construction and upgrades will include the following:

1. Replacement of two communitors with a high capacity JWC Environmental Grinder Unit
2. Replacement of the automatic transfer switch for the emergency generator and a comprehensive upgrade to the electrical and control systems
3. Installation of a wet well aeration and odor control system
4. Other modifications to improve the reliability and capacity of the station.

Construction is scheduled for completion in June 2016.

Projects Completed

Since 1990 we have completed 6 major sanitary sewer rehabilitation projects totaling over \$5,859,670.00. These projects have replaced over 85,492 linear feet (16.2 miles) of aging sanitary sewer mains, 822 sanitary sewer services (over 20,719 linear feet of sewer service), 169 manholes, and 1,522 vertical feet of manhole rehabilitation. This is in addition to the \$29,772,935.00 for upgrades to the Gallatin Wastewater Treatment Plant; and over 6,217,000.00 in sanitary sewer pump station upgrades and replacements.

Capacity, Management, Operations, and Maintenance (CMOM) Plan:

A draft Capacity, Management, Operations, and Maintenance (CMOM) plan was submitted to the Tennessee Department of Environment and Conservation for review and approval on January 15, 2013. We continue to work on the evaluation of our sanitary sewer collection system pending final approval of this plan.

We have in place a system to monitor and evaluate sanitary sewer system flows utilizing a network of 13 permanent flow monitors. This network of flow monitors, strategically located throughout our sanitary sewer collection system (see attached map), provides us with the ability to monitor flows in our collection system on a "near" real time basis; while also providing a monthly report of the wastewater flows in the collection system. This information is utilized to identify areas of the sanitary sewer collection system with flow volumes that warrant additional inspection and evaluation. The data is also utilized to evaluate the effectiveness of our on-going sanitary sewer system modernization and rehabilitation efforts.

As of the end of 2015 we have hydraulically cleaned in excess of 138.7 miles (732,247 feet) or approximately 73% of our collection system. Our crews have also completed the CCTV inspection of approximately 200 miles (1,056,199 feet) or approximately 91% of our collection system. We have performed approximately 3,582 manhole inspections, with 702 manhole inspection conducted in 2015. Our crews have cleared in excess of 119 miles (629,082 feet) of right-of-way, with 4.1 miles (21,882 feet) cleared in 2015, and plan to continue right-of-way clearing this summer.

Please do not hesitate to contact me should you have any questions or require any additional information.

Sincerely,



David T. Kellogg
Assistant Superintendent
Gallatin Public Utilities