

Gallatin Public Utilities

Water ♦ Sewer ♦ Natural Gas

April 30, 2015

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 23 sanitary sewer overflows during 2014. Of these overflows, 19 were rainfall related, 2 were pump station mechanical failures (power or controls), 1 was caused by a blockage, 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 was completed on Phase 1 (\$1,700,000.00) of this project in the Fall of 2014, with approximately 20,200 linear feet of 8" to 24" sanitary sewer main having been replaced with HDPE pipe by pipe-bursting, along with approximately 150 replacement sanitary sewer services, 9 replacement manholes, and approximately 500 vertical feet of manholes were rehabilitated and epoxy lined. Construction continues on Phase 2 (\$400,000.00) and Phase 3 (\$500,000.00) that were added as extensions to the original contract. These phase added in excess of 15,000 linear feet of sanitary sewer main replacement along with additional manhole rehabilitation. Construction of these phases is tentatively scheduled for completion in the summer of 2015.

To date this project has – replaced approximately 36,370 linear feet of gravity sewer main with HDPE pipe, replaced 288 sanitary sewer services, rehabilitated and epoxy line 1,150 vertical feet of manholes. A series of before/after photographs are attached to this report as examples of the issues corrected and work performed during this project.

Bull's Creek Lift Station

Our engineering firm (James C. Hailey and Associates) is in the final phase of 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, and a second 18" diameter ductile iron force main. This project is tentatively scheduled to bid in the Fall/Winter of 2015.

Number 1 Lift Station

Our engineering firm (James C. Hailey and Associates) is in the final phase of the design of upgrades for the Number 1 Lift Station. These upgrades include: replacement of two communitors with a high capacity JWC Environmental Grinder Unit, upgrades to the electrical systems and controls, installation of a wet well aeration and odor control system, and other modifications to improve the reliability and capacity of the station.

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 continue 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 2014 we have hydraulically cleaned in excess of 101.6 miles (536,448 feet) or approximately 48% of our collection system. Our crews have also completed the CCTV inspection of approximately 177.5 miles (937,200 feet) or approximately 85% of our collection system. We have performed approximately 2,800 manhole inspections, with 395 manhole inspection conducted in 2014. Our crews have cleared in excess of 115 miles (607,200 feet) of right-of-way, 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,



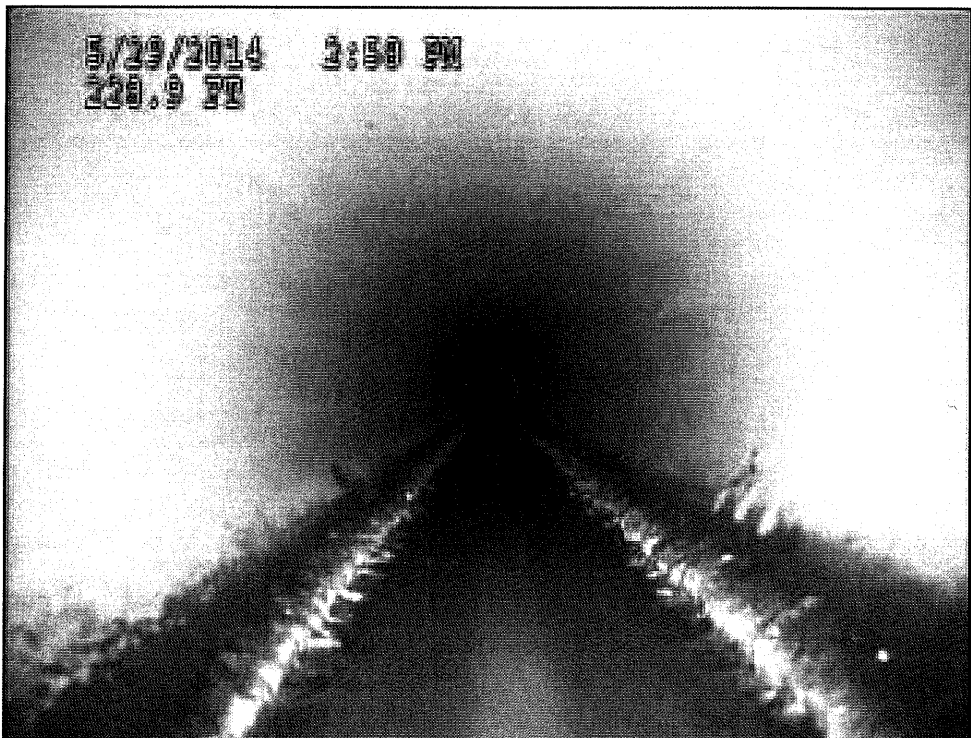
David T. Kellogg
Assistant Superintendent
Gallatin Public Utilities

CAIRO ROAD SEWER MAIN REPLACEMENT (PIPE BURSTING)

BEFORE



AFTER

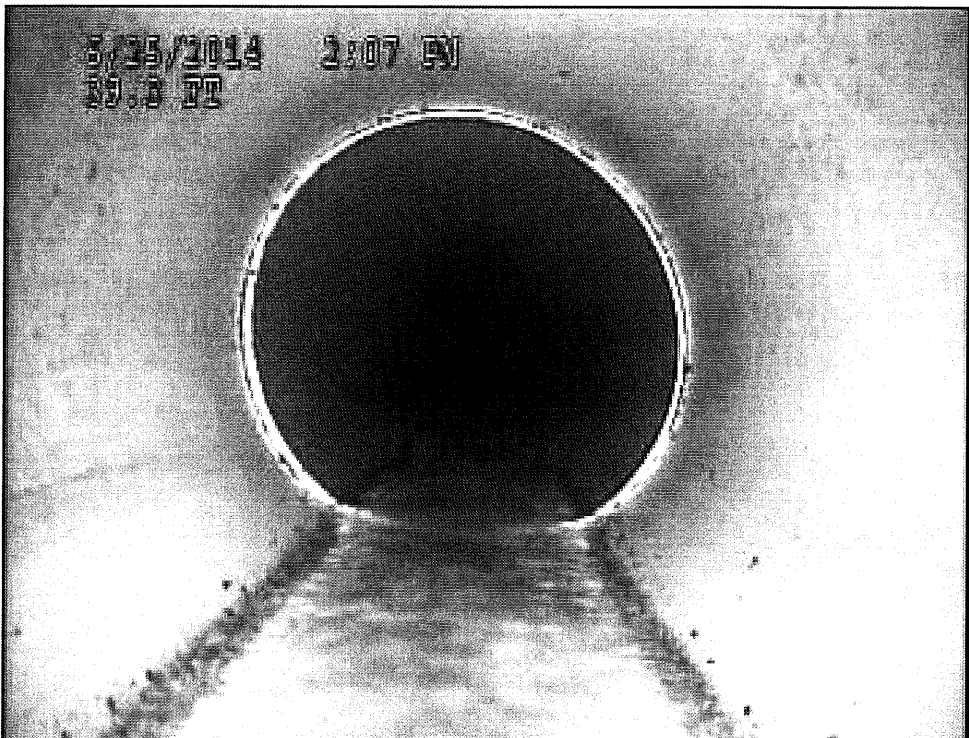


FACTORY STREET SEWER MAIN REPLACEMENT (PIPE BURSTING)

BEFORE



AFTER



**EAST BROADWAY SEWER MAIN REPLACEMENT
(PIPE BURSTING)**

BEFORE



AFTER



