[CITY OF]
OTTUMWA

January 3, 2019
20

RECEIVED
JAN 06 2020
DNR FO6

Jeff Thomann
DNR Field Office 6
1023 W. Madison
Washington, IA 52353

RE: Ottumwa, Iowa 2019 Annual Report- CSO Separation Projects

Dear Jeff,

The following is a condensed report on the progress the City of Ottumwa continues to make in its efforts to meet water quality standards.

Feel free to contact us with any questions regarding this report.

Sincerely,

Larry Seals

Larry Seals
Director of Public Works
City of Ottumwa
641-683-0680

Enclosures

Cc: Terry Kirschenman, Iowa DNR
John Crotty, Iowa DNR

2019 STORMWATER REPORT

Projects listed in the Administrative Consent Order

(See previous report for past projects)

PHASE 8, BLAKE'S BRANCH SEPARATION (Est. completion of Dec. 31, 2025)
The major item currently under way designated by the Long Tern Control Plan is the Blakes Branch, Phase 8 Sewer Separation. See attached **Figure 1**. The preliminary cost estimate for all of Phase 8 is $35 to $40 million. Planning and Design for Phase 8 has begun. The project has been divided into four phases for funding and constructability. Phase 8 Division I design services has been awarded to V&K Engineering (May 5th 2018). The design has been completed for Phase 8 Division I with a planned letting of late January/early February 2020 pending permitting requirments.

This work will be split into 4 Divisions of construction as depicted on **Figure 2**. An approximate timeline is shown below. We are currently working on funding options and constructability timelines.

Division I Letting	Jan/Feb	2020	Construction 20/21
Division II Design	July	20/21	Construction 22/23
Division III Design	July	21/22	Construction 22/23
Division IV Design	July	21/25	Construction 22/25

Estimated costs of the Phase 8 Sewer Separation Project is depicted on **Figure 3**

Projects related to compliance but not individually listed in the Administrative Consent Order.

MAIN STREET RECONSTRUCTION (JEFFERSON TO VINE)
This project included the separation on Main Street from Vine to Jefferson. This project was designed to later connect the storm sewer to a storm sewer being installed with a second, Downtown Main Street project. This project has been completed with only punch list items to be completed.

DOWNTOWN MAIN STREET RECONSTRUCTION (JEFFERSON TO COURT)
This project is a second Main Street reconstruction project abutting the project listed above. This project includes the installation of a separate storm system in the downtown. A Storm sewer from Green Street will be run to Jefferson Street, tying into the previous Main Street projects storm sewer. The Storm system is also designed to allow for future separation projects at the Green Street intersection by the installation of a pressure pipe system to the river. The Green Street system will serve as the backbone Storm Sewer in this basin. In addition to separation, this project is a streetscape project that includes BMP such as permeable paver, bioswales and tree plantings.

JEFFERSON STREET RECONSTRUCTION (6TH TO GARA)

During the 2019 construction season, the City separated 880 lf of Jefferson Street (from 6th Street to Gara) in preparation of the Phase 8 sewer separation project. The Phase 8 Separation Project will tie the newly installed sanitary sewer on Jefferson into the Blakes Branch parallel sanitary line in either Division II or Division III.

REMOVAL OF PUMP STATION

The Milner Street and Finley Avenue pump station removal project was awarded in January 2019. This project was completed in May 2019. This eliminates the need for backup power in 30 minutes or the installation of a generator.

NINE MINIMUM CONTROLS

City crews continued its efforts to clean and maintain the sewer system. During 2019, the City cleaned 143,175.5 LF of sewers removing approximately 125.4 tons of material. In addition, 543 catch basins were cleaned removing approximately 35 tons of material. The street sweepers cleaned 5083 lane miles (collecting approximately 3481 tons of material.

The City had 1 public side sewer back-up, down from a high of 52 in 2008. Public Works crews made 34 sewer spot repairs, repaired or replaced 20 manholes and repaired or replaced 21 catch basins.

CROSS COUNTRY SEWER EASEMENT CLEARING

The City has under taken City wide cross county sewer easement clearing. We are in our six year of clearing with an additional **.30 miles cleared in 2019. In total, we have cleared 3.09** miles of cross country sewer. While completing this work, crews have raised buried manholes and added armor in exposed creek crossings. This allows for routine inspection and access for cleaning.

Figures referred to in this report and for general informational purposes:

Figure 1- Sewer Separation Map: This map offers an overview of the various phases of sewer separation that have taken place and that are planned, within the City of Ottumwa.

Figure 2- Phase 8 Divisions: This map offers an overview of the various divisions that the Phase 8 sewer separation project has been split into.

Figure 3- Phase 8 Estimated costs: This spreadsheet shows the quantities of sanitary and storm sewer installed during each separation project.

City of Ottumwa, Engineering Department
105 East Third Street, Ottumwa, Iowa 52501
Telephone 641-683-0680 Fax 641-683-0692