



**ONEIDA COUNTY DEPARTMENT OF
WATER QUALITY & WATER POLLUTION CONTROL**

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Anthony J. Picente, Jr.
County Executive

Steven P. Devan, P.E.
Commissioner

July 30, 2018

Gregg Townsend, P.E.
Regional Engineer
NYS Department of Environmental Conservation
317 Washington Street
Watertown, NY 13601

UNITED PARCEL SERVICE

Carol Lamb-Lafay, P.E.
Director – Bureau of Water Permits
Division of Water
NYS Department of Environmental Conservation
625 Broadway, 4th Floor
Albany, NY 12233

Re: Oneida County Sewer District
Quarterly Progress Report – 2nd Quarter 2018

Consent Order No. R6-20060823-67

Dear Mr. Townsend and Ms. Lamb-Lafay:

On behalf of Oneida County, I am providing for your review and comment Oneida County's Quarterly Progress Report for the 2nd Quarter – 2018 as required per Section XIII – Reporting Requirements of the Consent Order. This document summarizes the status and progress of work completed between April 1, 2018 and June 30, 2018 in support of Consent Order compliance requirements.

Please feel free to contact me should you have any questions or need additional information.

Sincerely,

**THE ONEIDA COUNTY DEPARTMENT OF
WATER QUALITY & WATER POLLUTION CONTROL**

Steven P. Devan, P.E.
Commissioner

Enclosure: Quarterly Progress Report – 2nd Quarter 2018

cc: Anthony J. Picente, Jr. - Oneida County Executive
Peter M. Rayhill, Esq. – Oneida County Attorney
Karl E. Schrantz, P.E. – O'Brien & Gere Engineers, Inc.
Howard LeFever, P.E. – GHD Consulting Services, Inc.
Judy Drabicki, - NYSDEC
Joseph DiMura, P.E. - NYSDEC
Richard Coriale, P.E. – NYSDEC
Michael O'Neil, P.E. - NYSEFC

**SANITARY SEWER COLLECTION SYSTEM
QUARTERLY PROGRESS REPORT
2ND QUARTER – 2018
ONEIDA COUNTY SEWER DISTRICT**

NYSDEC Consent Order R620060823-67



Prepared for

Oneida County Department of Water Quality
& Water Pollution Control

Steven P. Devan, P.E., Commissioner
51 Leland Avenue
Utica, NY 13502

July 30, 2018



Cazenovia, NY



Syracuse, NY



Utica, NY

**Sanitary Sewer Collection System
Quarterly Progress Report
2nd Quarter - 2018
Oneida County Sewer District
NYSDEC Consent Order R620060823-67**

Prepared for:

**Oneida County Department of Water Quality &
Water Pollution Control**

Prepared by:

**O'Brien & Gere Engineers, Inc.
101 First Street
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Utica, NY 13501**

July 30, 2018

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1.0 INTRODUCTION

1.1 HISTORICAL BACKGROUND

The Oneida County Sewer District (District) was formed in 1965 through an act by the former Oneida County Board of Supervisors. It is administered by Oneida County through the Oneida County Department of Water Quality and Water Pollution Control (WQ&WPC), which is responsible for the operation of the District's facilities and personnel. District facilities include 45-miles of interceptor sewers, the Sauquoit Creek Pumping Station (SCPS), the Barnes Avenue Pumping Station, and the Water Pollution Control Plant (WPCP). The District services 15 municipalities, nine of which are within the SCPS Basin. These municipalities own and operate their own collection systems.

1.2 PURPOSE

The New York State Department of Environmental Conservation (NYSDEC) and Oneida County (County) entered a Consent Order (No. R620060823-67) due to sanitary sewer overflows (SSO) at the SCPS. In addition to the required mitigation of those SSOs, the Consent Order, with an effective date of December 12, 2011, requires the submission of Quarterly Progress Reports. The intent of this Quarterly Progress Report is to summarize the work that has been undertaken by the County between April 1, 2018 and June 30, 2018 (2nd Quarter of 2018) in support of the Consent Order compliance requirements.

2.0 ENGINEERING INVESTIGATIONS AND EVALUATIONS

During the 2nd Quarter of 2018, the County completed the following tasks related to engineering investigations and evaluations.

2.1 COLLECTION SYSTEM

2.1.1 Manhole Inspections

The manhole inspection program was completed in 2012. There were no additional manhole inspections completed during the 2nd Quarter of 2018.

2.1.2 Sanitary Sewer Televising

There are approximately 216-miles of sanitary sewer within the SCPS basin (30-miles of District interceptor sewer plus 186-miles of municipal sewer). In 2011, the County contracted with a firm (National Water Main Cleaning Co.) to perform closed circuit televising (CCTV) of these sanitary sewers. Televising data was collected electronically in the field using the nationally standardized Pipe Assessment and Certification Program (PACP) and incorporated into the County's data management software.

The 2011 initial televising contract resulted in approximately 79%, or 171-miles, of the 216-miles of sewers being televised. The remaining 21%, or 47-miles of sewers, were not inspected at that time due to: heavy debris in quantities beyond the scope of the contractual cleaning effort; small diameter pipe inhibiting effective CCTV inspections; lack of easement access to manholes and sewers; and buried manholes. These obstacles are primarily maintenance related and are being addressed through the District-wide Capacity, Management, Operations, and Maintenance (CMOM) program currently in various stages of implementation. Efforts are being made to CCTV and inspect additional sewers as a component of current and future sewer rehabilitation contracts.

During the 2nd Quarter 2018, additional televising was not performed; however, including the original CCTV contract, and subsequent CMOM and rehabilitation related CCTV, a total of approximately 193-miles of sewer, or 89% of the total sewers in the SCPS basin, have been televised.

2.1.3 Dye Testing

The dye testing program was completed in 2012. There was no additional dye testing performed during 2nd Quarter 2018.

2.2 TREATMENT FACILITIES

Investigations, evaluations, and designs have been completed. The WPCP, SCPS and New Force Main are in various stages of bid evaluation and construction. Table 2.1 summarizes how the work has been segregated, and the status of each of the various planned construction contracts. Note: Contract numbers identified for the work at the WPCP and the SCPS/Force Main (C-1 through C-8), do not correlate to the sanitary sewer rehabilitation contracts (Contracts 2-16).

Table 2.1

Oneida County Sewer District									
Summary of Contracts 2Q 2018									
Water Pollution Control Plant and Sauquoit Creek Pumping Station/Force Main									
Contract No.	Title of Contract	Components of System Addressed	Status of Design	Status of DEC Review	Status of other Agency Reviews	Estimated Advertisement	Estimated ⁽¹⁾ Construction Start	Construction Progress	Estimated Construction Complete
1	Incinerator No. 2 Demolition	Demolition of Incinerator No. 2	Final	Approved	n/a	Bidding occurred during 1Q 2016; however, due to the outcome of bids, the demolition was added to Contract 2 by addendum on May 25, 2016.			
2	WPCP Solids Handling Upgrades	2 new egg-shaped digesters, 1 secondary digester w/gas holding cover, new waste activated sludge pumps, refurbish 4 gravity thickeners, new stand-by lime stabilization system, 2 new belt filter presses	Final	Approved	n/a	Advertised April 4, 2016	Notice to Proceed September 27, 2016	General Construction is over 85% complete, with all new buildings erected and most new process equipment and piping installed. Working on startup and commissioning related items, as well as SCADA programming for new controls equipment. HVAC, Plumbing, and Electrical construction ongoing to support the work installed by the General Contractor.	April 2019
3A	Electrical Equipment Pre-Purchase (Digester 15kV)	Pre-purchase of major electrical components such as switch gears, transformers, and supporting power distribution equipment	Final	n/a	n/a	April 2017	Equipment delivery October 2017	Equipment has been installed and tested. Training has been provided to the Owner.	n/a
4	Sauquoit Creek Force Main Upgrades	New 48-inch force main and rehabilitation of the existing force main, new flow metering and flow control vaults	Final	Approved	Approved	Advertised December 15, 2017	July 2018	Bids received in March 2018. Contracts awarded to Marcellus Construction. Pre-Construction meeting held June 2018. Extensive coordination by Contractor w/CSX for site access.	March 2021

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Oneida County Sewer District									
Summary of Contracts 2Q 2018									
Water Pollution Control Plant and Sauquoit Creek Pumping Station/Force Main									
Contract No.	Title of Contract	Components of System Addressed	Status of Design	Status of DEC Review	Status of other Agency Reviews	Estimated Advertisement	Estimated ⁽¹⁾ Construction Start	Construction Progress	Estimated Construction Complete
5	Sauquoit Creek Pumping Station Upgrades	Replacement of existing pump station mechanical screen contained in a new screen building, 2 screenings washer/compactors and conveyor; replacement of existing standby generator capable of operating the station to pump peak flow during a power outage; electrical/HVAC upgrades; flow distribution structure at the WPCP	Final	Approved	n/a	November 2016	July 2017	<p><u>New Screenings Building:</u> Screenings Building exterior walls and interior floor slabs poured. Masonary construction 75% complete. New emergency generator is installed and operational (WPCP staff have been trained on its O&M).</p> <p>Huber screens/washer/compactor equipment delivered and set in place (not yet operational). On-going electrical, HVAC and plumbing;</p> <p><u>Existing Building:</u> on-going electrical, HVAC, and plumbing renovations. Limited asbestos abatement, demo of existing generator and removal from site.</p>	January 2019
5.1	Barnes Avenue Pumping Station Upgrades	Relocation of pumping station to south side of CSX Railroad right-of-way; new, smaller, sustainable pumping station sized to accommodate actual flow rates	0%	n/a	n/a	December 2018	May 2019	n/a	January 2020
6	WPCP Headworks Upgrades	New screening facility and pump station dedicated to sanitary flows from North Utica & Starch Factory Creek Interceptors; repurpose existing raw waste building for combined flow from City of Utica; new grit removal facilities; remodeling of the administrative building including new laboratory, control room, offices, training room, etc.	Final	Approved	Pending National Grid approval, Stage A submitted in February 2016	March 2017	September 2017	On-going foundation and concrete work for Influent Bldg, Grit Bldg No. 2, and Grit Bldg No. 3; installation of miscellaneous yard piping; on-going asbestos abatement and interior renovations in Administration Bldg.	May 2020
7	WPCP Primary Treatment Upgrade/Disinfection	New rectangular primary settling tanks to replace existing circular tanks; new high rate disinfection system for wet weather combined sewer flows; new HRD outfall	Final	Submitted December 9, 2016	n/a	Advertised November 28, 2017	May 2018	Bids received in February 2018. Notices of Award issued in June 2018. Preliminary demolition and steel pipe pile installation ongoing.	December 2021
8	WPCP Secondary Treatment Process Upgrades	Replacement of existing blowers with more efficient units, replacement of existing aeration tank diffusers, refurbishment of the existing final settling tanks	30%	Estimated submittal December 2018	n/a	January 2019	May 2019	n/a	December 2021

* - Estimated construction start = Notice to Proceed

3.0 MANAGEMENT PROGRAMS

3.1 COMPUTERIZED MANAGEMENT AND MAINTENANCE SYSTEM

The County purchased a Computerized Management and Maintenance System (CMMS) software system (Lucity) in 2009. This software is used to manage the sewer system data (mapping, inspections, etc.) obtained to date by the County. At the same time that the software was acquired, the County invested in computer hardware upgrades to support the CMMS. The County's Geographic Information System (GIS) Coordinator manages the system.

The County continues to utilize the CMMS for tracking and documenting sewer rehabilitation work, and uploading and managing new PACP data provided by the County's CCTV and sewer rehabilitation contractors on a regular basis.

The Consultant Team utilizes the CMMS in support of the sanitary sewer rehabilitation design efforts to identify defects and develop rehabilitation methodologies.

The County continues to maximize the use of its current CMMS software. At the same time, the County, with the assistance of the Consultant Team, continues to assess ways to optimize the CMMS with the long-term expanded asset management needs for the wastewater system. As a result, the County has begun to explore potential alternative software. It is anticipated this research of alternative software systems will continue as opportunities become available.

3.2 FLOW MONITORING PROGRAM AND HYDRAULIC MODEL

In 2010, a hydrologic (HSPF) and hydraulic (SWMM) model of the sewer collection system tributary to Sauquoit Creek Pumping Station (SCPS) was developed in order to evaluate control methods for reducing sanitary sewer overflow (SSO) at SCPS. This effort included the analysis of data from 30+ flow meters collected over a period of nine months during 2008. The model was calibrated to the flow meter data and then used to simulate flow conditions for a typical year. The results from the simulations were used to evaluate engineering alternatives. Since then, I/I removal projects have been completed in the collection system.

The County worked closely with Senator Joseph Griffo to secure an \$950,000 Economic Development Assistance Program (EDAP) funding allocation to support the extensive flow monitoring program proposed by the County, and approved by NYSDEC on August 24, 2012.

The EDAP funds were ultimately made available by DASNY to the County in March 2014. Procurement of the flow monitoring equipment was advertised in June 2014. Contract was awarded in September 2014 to ADS Environmental Services, LLC (ADS). In 2015, ADS completed the installation of 63 flow meters and five rain gauges within the collection system, at the same approximate locations the meters were installed in 2008. Two of the meters were installed to monitor flow to the County's Barnes Ave. Pumping Station. Two other meters monitor flow in two of the City of Utica's combined sewers to aid in hydraulic model calibration and confirmation. The flow meters and rain gauges have been consistently collecting flow data since their installation.

To further support the Consent Order flow data documentation and assessment requirements, the County's consultants performed an update to the original 2010 hydraulic model (completed in December 2017) utilizing 2015-2016 flow meter and rain gauge data (County rain gauges and National Weather Service gauges were used). Typical year simulations were run on both the old and new calibrated models. The results of the "pre-rehabilitation" and "post-rehabilitation" models were statistically compared and used to evaluate the effectiveness of the I/I removal projects upstream of the SCPS. The comparison showed that the I/I reduction projects completed through May 2017, have reduced the average annual SSO volume at the SCPS by 24 percent. Information was included in the 1st Quarter 2018 Progress Report.

3.3 PRIVATE PROPERTY INFLOW AND INFILTRATION REDUCTION PROGRAM

The document titled “Preliminary Planning Document – Private Property Inflow and Infiltration Reduction Program” was submitted to NYSDEC on June 29, 2012 as required by Schedule A - Section B.2 of the Consent Order. The County, working through the Steering Committee, created a working group of appropriate private property inflow and infiltration (PPII)-oriented community representatives to map out a phased implementation plan.

The full Steering Committee convened on January 25, 2018. County Executive Anthony Picente, Jr. was in attendance encouraging the group to continue implementing and working collaboratively on CMOM and PPII programs at the municipal level. He provided an update to the Committee regarding the rate increase that residents will see in April 2018. Status of progress on the various construction projects at the WPCP, SCPS, and sanitary sewer rehabilitation, as well as 2017 community outreach efforts, was provided by the consultant team.

In support of a potential future pilot project to address private property I/I, lateral CCTV has, and continues to be, performed in select locations during the on-going sewer rehabilitation projects. CCTV data is received from the sewer rehabilitation contractor and reviewed for completeness.

3.4 CAPACITY, MANAGEMENT, OPERATIONS AND MAINTENANCE PROGRAM

The document titled “Preliminary Planning Document – Proposed CMOM Framework – Sauquoit Creek Pumping Station Basin Communities” was submitted to NYSDEC on June 29, 2012 as required by Schedule A – Section B.3 of the Consent Order. The County, working through the Steering Committee, created a working group of appropriate CMOM-oriented community representatives to map out a phased implementation plan.

The full Steering Committee met on January 25, 2018. A summary of topics discussed can be found above in Section 3.3.

Fats, Oils, and Grease (FOG) Program: The OCSD and Oneida County Department of Health (OCDOH) are collaborating on the implementation of the Fats, Oils, and Grease (FOG) program. OCSD conducted a training session on June 7, 2018 for OCDOH inspectors who will be performing inspections of Food Service Establishments (FSEs) within the OCSD beginning in 3Q 2018. Topics discussed were plumbing code, common grease trap/plumbing configurations, best management practices, and record keeping. Inspectors will verify that FSEs follow the local and County sewer use ordinance in not releasing fat-laden wash water or cooking oils to the sanitary sewer system. Inspectors will look for evidence that FSEs are utilizing best management practices, tracking grease trap maintenance, and keeping grease hauling records. Information on each FSE will be entered in the County CMMS Lucity so that it can be associated with the growing collection system database.

Easement Maintenance: The County advanced a small easement maintenance contract involving cutting of trees and vegetation along the Deerfield East Interceptor Sewer easement located east of Leland Avenue, between the Canal and the NYS Thruway. The easement was overgrown and required re-establishment for future inspection and maintenance of the interceptor sewer. Work was done using low ground pressure forestry equipment and hand tools. The work was completed prior to March 31 and did not involve grading and/or filling.

Sauquoit Creek Interceptor Sewer Stabilization (Victoria Drive): The County submitted a Joint Application for Permit to the NYSDEC and Army Corps of Engineers on March 27, 2018. The Project will repair/stabilize a section of 24-inch interceptor sewer exposed in Sauquoit Creek between Victoria Drive (Utica) and NYS Route 8 (New Hartford). The planned work will include stream bank stabilization, along with grade control at the immediate downstream limits to help mitigate the existing water elevation drop, and re-establish aquatic biota passage through the reach. Floodplain Development Permit applications were submitted to the City of Utica and Town of New Hartford. The project was advertised for Bid in June 2018 with a July 12, 2018 planned bid opening.

4.0 SCHEDULE/MILESTONE DATES

4.1 APPROVED SCHEDULE

The following table represents the approved schedule as defined by the Consent Order (note that there were no changes to this schedule during the 2nd Quarter of 2018):

Description	Consent Order, Schedule "A" Date	Status
<u>Engineering Investigations and Evaluations</u>		
Dye Testing and Storm Sewer Report	June 30, 2012	Complete, Submitted June 29, 2012
Manhole Evaluation Report – Phase II	June 30, 2012	Complete, Submitted June 29, 2012
SCPS Evaluation Report	August 31, 2012	Complete, Approved November 28, 2012
WPCP Evaluation Report	August 31, 2012	Complete, Approved November 28, 2012
Treatment System Supplement (Report)	60 days after approval of WPCP Evaluation Report	Complete, Submitted January 25, 2013
Sewer CCTV Inspection Report – Phase II	April 30, 2013	Complete, Submitted April 25, 2013
Sewer CCTV Inspection Report – Phase III	April 30, 2014	Complete, Submitted April 29, 2014
Collection System Supplement (Report)	May 31, 2014 (extension granted to July 1, 2014)	Complete, Submitted June 30, 2014 Approved December 18, 2014
<u>Management Programs</u>		
Flow Monitoring Program	March 31, 2012	Complete, Approved August 24, 2012
Private Property I/I Reduction Program	June 30, 2012	Complete, Submitted June 29, 2012
CMOM Program	June 30, 2012	Complete, Submitted June 29, 2012
PPII Reduction Program Implementation	May 31, 2013	Began implementation in 4 th Quarter 2012
CMOM Implementation	May 31, 2013	Began implementation in 4 th Quarter 2012
Asset Management Plan	December 31, 2021	In development
<u>Remedial Measures</u>		
Semi-Permanent Alternative-Construction	December 31, 2016	Modified Consent Order effective 6/28/18 removed the requirement for construction of the semi- permanent alternative.
SSO Mitigation-Consent Order Compliance	December 31, 2021	In progress
<u>Reporting</u>		
Annual Work Plan	January 31, Annually	Submitted annually
Quarterly Progress Report	Quarterly	Submitted quarterly

Note: I/I – Inflow and Infiltration

4.2 MILESTONES

During the 2nd Quarter of 2018, the following milestone dates were met:

- Continuing to make progress toward compliance milestones.

5.0 SEWER REHABILITATION

Sewer rehabilitation work financed under CWSRF Project No. C6-6070-08-00, C6-6070-08-10, and C6-6071-02-00 continued to progress. Projects are being tracked by contract number. The rehabilitation contracts are being undertaken in order to reduce the amount of inflow and infiltration entering the system due to defects in interceptor sewers, mainline sewers, lateral connections and manhole structures. Work under these sewer rehabilitation contracts typically includes: a mix of cured-in-place-pipe (CIPP) lining; pipe joint and lateral grouting; open cut repairs; spot repairs; manhole repairs/replacement; and supplemental CCTV inspections. The status and details of the rehabilitation contracts to date are presented in Table 5.1.

Table 5.1

Oneida County Sewer District										
Summary of Contracts 2Q 2018										
Sewer Rehabilitation Contracts										
Contract No.*	Title of Contract	Project Location/Description	CWSRF Project No.	Status of Design	Status of DEC/EFC/COUNTY Review	Miles of Rehabilitation ⁽²⁾	Estimated I/I Reduction (gal/day)	Current Contract Amount ⁽¹⁾	Contractor	Contract Status
2	Sanitary Sewer Manhole Rehabilitation - Phase 2	<u>District-wide</u> : Rehabilitation of approximately 1,278 sanitary sewer manholes	C6-6070-08-00	Final	Approved	47	5,411,910	\$ 1,529,131.73	Green Mountain Pipeline Services	Project Complete; Closed Out
3	Sanitary Sewer Mainline Rehabilitation - Phase 1	<u>Villages of New York Mills, Oriskany, New Hartford, Whitesboro, and Yorkville; Towns of New Hartford and Whitestown</u>	C6-6070-08-00	Final	Approved	13	1,503,360	\$ 1,916,428.54	Insituform	Project Complete; Closed Out
4	Sewer Separation - Clinton/Henderson Street, NY Mills	<u>NY Mills</u> : Storm/Sanitary sewer separation	C6-6070-08-00	Final	Approved	2	264,000	\$ 155,007.51	JJ Lane Construction	Project Complete; Closed Out
5	Sewer Repairs and Rehabilitation	<u>Villages of Whitesboro, New Hartford, Yorkville, New York Mills</u> : Storm/Sanitary sewer repairs and rehabilitation; manhole replacement and UV-CIPP lining.	C6-6070-08-00	Final	Approved	1	120,000	\$ 411,841.66	Central Paving	Project Complete; Closed Out
6	Sanitary Sewer Mainline Rehabilitation - Phase 2	<u>Villages of New Hartford and Clayville; Towns of New Hartford and Paris; City of Utica</u>	C6-6070-08-00	Final	Approved	15	1,130,000	\$ 2,086,525.00	Green Mountain Pipeline Services	Project Complete; Closed out
7	Sanitary Sewer Mainline Rehabilitation - Phase 3	<u>Towns of New Hartford and Whitestown</u> : Glenhaven area (HHI-1 and WHN-31), the area west of the Whitesboro Parkway School and south of Clinton Street area (WHN-33), and Kellogg Road area (NHD-18)	C6-6070-08-00	Final	Approved	13	630,000	\$ 2,060,644.00	Green Mountain Pipeline Services	Project Complete; Closed out
8	Sanitary Sewer Mainline Rehabilitation - Phase 4	<u>Town of New Hartford</u> : Paris Road area (NHD-23)	C6-6070-08-00	Final	Approved	14	249,000	\$ 1,143,410.78	National Water Main Cleaning Co.	Project Complete: Closed Out
10	Sanitary Sewer Mainline Rehabilitation - Phase 5	<u>Town of Whitestown and Village of Whitesboro</u> : area west of Henderson St., north of Mud Creek, south of Clinton St. and east of Clinton Rd; and areas of V. of Whitesboro that have not been previously rehabbed	C6-6070-08-10	Final	Approved	17	1,120,000	\$ 3,429,370.00	Green Mountain Pipeline Services	Certificate of Substantial Completion issued. Punchlist items remain. Anticipate project closeout in 3Q 2018.

Table 5.1

Oneida County Sewer District										
Summary of Contracts 2Q 2018										
Sewer Rehabilitation Contracts										
Contract No.*	Title of Contract	Project Location/Description	CWSRF Project No.	Status of Design	Status of DEC/EFC/COUNTY Review	Miles of Rehabilitation ⁽²⁾	Estimated I/I Reduction (gal/day)	Current Contract Amount ⁽¹⁾	Contractor	Contract Status
11	Sanitary Sewer Mainline Rehabilitation - Phase 6	<u>Town of New Hartford/Hamlet of Washington Mills:</u> Chapman Rd, Higby Rd., and Mohawk St. as well as side streets in T. of New Hartford (NHD-20)	C6-6070-08-10	Final	Approved	7	260,640	\$ 632,029.26	National Water Main Cleaning Co.	Project Complete; Closed Out
12 ⁽³⁾	Sewer Rehabilitation Project	<u>Village of Yorkville:</u> areas of the Village not previously rehabbed (YKV-1)	C6-6071-02-00	Final	Approved	11	824,832	\$ 3,552,280.00	National Water Main Cleaning Co.	Contractor remobilized after winter shutdown to complete remainder of base contract work. Identifying potential additional rehab work to be funded under surplus budget.
13	Sanitary Sewer Mainline Rehabilitation - Phase 8	<u>Town of New Hartford:</u> residential subdivisions along Routes 12B and Merritt Place, situated south of Route 5B and Seneca Turnpike, and north of Sherrill Brook Park (NHD-6)	C6-6070-08-10	Final	Approved	5	280,000	\$ 802,838.50	National Water Main Cleaning Co.	Certificate of Substantial Completion issued. Punchlist items remain. Anticipate project closeout in 3Q 2018.
14	Sanitary Sewer Mainline Rehabilitation - Phase 9	<u>Town of New Hartford:</u> Commercial district along Seneca Turnpike surrounding Sangertown Square Shopping Mall, south to a residential area situated between Seneca Turnpike and Clinton Rd., and a small residential area south of Clinton Rd. along Merritt Place (NHD-9)	C6-6070-08-10	Final	Approved	7	360,000	\$ 995,407.25	National Water Main Cleaning Co.	Project is proceeding, anticipate substantial completion in 3Q 2018.
16	Sanitary Sewer Mainline Rehabilitation - Phase 10	<u>Town of Whitestown:</u> Residential area along Westmoreland Rd. and West St., south of the NYS Thruway, and north of Clinton Rd. (WHN-34, WHN-35, WHN-12 & WHN-36)	C6-6070-08-10	Final	Approved	3	270,000	\$ 386,042.00	National Water Main Cleaning Co.	Notice to Proceed was issued on June 20, 2018.

* - Contract 9 - Flow Monitoring Contract

(1) - Values are subject to change upon submission of final contractor close-out documentation. Some entries are contract bid amounts and will be updated when project closes out.

(2)- In order to estimate the manhole repairs in equivalent miles, the following calculation was used:

In the April 2012, Engineering Report, Sauquoit Creek Pumping Station Basin – Phase I-Mainline Pipe Rehabilitation – Contract No. 3, the length of line to be rehabilitated was 13-miles, and the corresponding flow to be removed is 1,503,360 gal/day, which calculates to 116,000 gpd/mile. Using the same 116,000 gpd/mile figure for Contract No. 2, an estimated 5,411,910 gal/day divided by 116,000 gpd/mile, is equivalent to 47-miles of rehabilitated sewers.

(3) - formerly Contract 12 - Sanitary Sewer Mainline Rehabilitation - Phase 7. Financed by the Village of Yorkville.

BOLD - Value represents the Engineers estimate

6.0 ASSESSMENT OF REHABILITATION EFFECTIVENESS

See Section 3.2 above for a discussion of the status of flow monitoring and hydraulic model update. Based on the completed work, and using estimated values of inflow and infiltration (I/I) removals provided in the Offset Plan and/or the approved Basis of Design engineering reports for the respective projects, the estimated reductions in I/I for each rehabilitation contract are shown in Table 5.1.

7.0 COMPLETED CAPITAL PROJECTS/FACILITY UPGRADES

Status of all capital projects and facility upgrades is provided in Table 2.1 and Table 5.1.

8.0 I/I OFFSET PROJECTS/NEW FLOWS

During the 2nd Quarter of 2018, new additions and subtractions to the I/I Offset Credit Bank were recorded by the County. All amounts are reported in gallons per day (gpd) after the application of the 5:1 offset ratio.

Community	Starting Balance	Credits Added	Location	Credits Used	Ending Balance
Town of New Hartford	1,587,181	240	40 Overland Dr. (Cherrywood) 328.000-2-26	3,040	1,584,141
		320	209 Jack's Way (Applewood) 328.000-2-1, Lot 39		
		320	211 Jack's Way (Applewood) 328.000-2-1, Lot 38		
		240	24 Hosta Ln. (Cherrywood) 328.000-2-26		
		320	28 Hosta Ln. (Cherrywood) 328.000-2-26, Site 107		
		320	310 Gracie Pl. (Applewood) 328.000-2-1, Lot 32		
		320	308 Gracie Pl. (Applewood) 328.000-2-1 Lot 31		
		320	27 Hosta Ln. (Cherrywood) 328.000-2-26, Site 110		
		320	18? Hosta Ln. (Cherrywood) 328.000-2-26, Site 93		
320	25 Hosta Ln. (Cherrywood) 328.000-2-26, Site 86				
Town of Paris	253,064	0		0	253,064
Town of Whitestown	854,274	0		0	854,274
Village of Clayville	59,069	0		0	59,069
Village of New Hartford	278,004	0		0	278,004
Village of New York Mills	166,523	0		0	166,523
Village of Oriskany	103,466	0		0	103,466
Village of Whitesboro	163,599	0		0	163,599
Village of Yorkville	160,282	0		0	160,282
Oneida County Business Park	43,027	0		0	43,027
Oneida County Sewer District	24,710	0		0	24,710
Totals	3,693,199			3,040	3,690,159

9.0 KEY PERSONNEL CHANGES

Key personnel changes, as they relate to the SSO Mitigation/Consent Order compliance project, are interpreted to be those staff members whose addition to or deletion from the project would be viewed by the County to either add resources, or be a detriment to progress. Project staff includes County, satellite community, and Consultant Team personnel. The following is a summary of changes.

9.1 COUNTY STAFF

During the 2nd Quarter of 2018, there were no changes of key personnel to report.

9.2 SATELLITE COMMUNITY STAFF

During the 2nd Quarter of 2018, there were no changes of key personnel to report.

9.3 CONSULTANT TEAM STAFF

During the 2nd Quarter of 2018, there were no changes of key personnel to report.

10.0 ADMINISTRATIVE ITEMS

10.1 WORK AUTHORIZATIONS

New work orders were not authorized during the 2nd Quarter of 2018.

10.2 PROJECT FINANCING

The following listing is from the CWSRF 2018 Final Intended Use Plan (IUP), issued in December 2017 for the County:

CWSRF PROJECT #	PROJECT NAME	TOTAL IUP AMOUNT
C6-6070-08-00 (Long-term financed)	I/I CORR [9 CONTRIBUTING COMMUNITIES] Phase 1 and 2a	⁽¹⁾ \$10,078,438 (includes \$4M Principal Forgiveness)
C6-6070-08-10 (Balance of unexpended funds from Original C6-6070-08-00 financing)	I/I CORR [9 CONTRIBUTING COMMUNITIES] Phase 1 and 2a	\$11,721,562
C6-6070-08-01 (Multi-year)	I/I CORR [SSO - 9 Contributing Communities] Phase 2b, 3, 4, 5, & 6	\$28,400,000
C6-6070-08-02 (Long-term financed)	FM, PS REHAB [DESIGN AND PERMITTING PHASE] Phase 5a	⁽¹⁾ \$2,524,071
C6-6070-08-03 (Multi-year)	I/I CORR [SSO Phase 4]	\$7,663,000
C6-6070-08-04 (Annual List - Short-term financed)	FM Rehab, PS Rehab [CONSTRUCTION PHASE] Phases 5b	\$97,000,000
C6-6070-08-04 (Annual List - Short-term financed)	FM Rehab, PS Rehab [CONSTRUCTION PHASE] Phase 5b	\$15,000,000
	Water Infrastructure Grant	\$5,000,000
C6-6070-08-05 (Annual List)	STP UP (Phases 6a)	\$43,000,000
C6-6070-08-06 (Long-term financed)	STP UP [SOLIDS HANDLING SYSTEMS DESIGN AND CONSTRUCTION]	\$35,000,000
C6-6070-08-15 (Multi-year)	STP UP	\$87,000,000

(1) - CWSRF Project Financing has closed, is no longer listed in IUP, but reflect the amount Oneida County is now repaying.

10.2.1 STP UP [Phase 6a] (CWSRF No. C6-6070-08-05 and C6-6070-08-15) - \$160 Million

Bond authorization to increase the financing amount to \$160 million was approved by the Oneida County Board of Legislators on November 22, 2017. An application for financing was prepared, discussed with representatives from NYSEFC and submitted to the Oneida County Executive’s office for signature. Closing on initial financing is anticipated in September/October 2018.

10.2.2 Water Infrastructure Improvement Grant - \$20M

Received notification on June 30, 2018 from NYSEFC that the County's previous \$5M grant award has been increased by an additional \$20M.