



**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

October 30, 2012

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

By Electronic and First Class Mail

Koon Tang, 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 – 3rd Quarter 2012

Consent Order No. R6-20060823-67

Dear Mr. Townsend and Mr. Tang:

On behalf of Oneida County, I am providing for your review and comment Oneida County's Quarterly Progress Report for the 3rd Quarter – 2012 as required per Section XIII – Reporting Requirements of the Consent Order. This document summarizes the status and progress of work completed between July 1, 2012 and September 30, 2012 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**

A handwritten signature in black ink, appearing to read "Steven P. Devan", written over a horizontal line.

Steven P. Devan, P.E.
Commissioner

Enclosure: Quarterly Progress Report – 3rd Quarter 2012 (dated October 30, 2012)

ecc: Anthony J. Picente, Jr. - Oneida County Executive
Karl E. Schrantz, P.E. - Shumaker Engineering
Peter M. Rayhill, Esq. - Martin and Rayhill
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ONEIDA COUNTY SEWER DISTRICT

QUARTERLY PROGRESS REPORT

3RD QUARTER – 2012

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

SCE Project No. 07060.C7

October 30, 2012



Utica, NY



Cazenovia, NY

BROWN AND
CALDWELL

Liverpool, NY

QUARTERLY PROGRESS REPORT
3RD QUARTER-2012

SANITARY SEWER COLLECTION SYSTEM

ONEIDA COUNTY SEWER DISTRICT

NYSDEC CONSENT ORDER R620060823-67

Prepared for

Oneida County Department of Water Quality
& Water Pollution Control

SCE Project No. 07060.C7

October 30, 2012

Prepared by

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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 and the Barnes Avenue Pumping Station, and the Water Pollution Control Plant. The District services 15 municipalities, nine of which are within the Sauquoit Creek Pumping Station (SCPS) Basin. These municipalities own and operate their own collection systems.

1.2 CONSENT ORDER

The New York State Department of Environmental Conservation (NYSDEC) and Oneida County (County) entered into a Consent Order No. R620060823-67) due to sanitary sewer overflows (SSO) at the Sauquoit Creek Pumping Station. 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 July 1, 2012 and September 30, 2012 (third quarter of 2012) in support of the Consent Order compliance requirements.

2.0 ENGINEERING INVESTIGATIONS AND EVALUATIONS

During the third quarter of 2012, the County completed the following tasks related to engineering investigations and evaluations.

2.1 COLLECTION SYSTEM

2.1.1 Manhole Inspections

There were no manhole inspections completed during the third quarter of 2012.

2.1.2 Sanitary Sewer Televising

There are approximately 216 miles of sanitary sewer within the SCPS basin (30 miles of District sewer plus 186 miles of municipal sewer). The County has contracted with a firm to perform closed circuit televising (CCTV) of these sanitary sewers. During the third quarter of 2012, approximately 11 miles of municipal sewers have been televised. CCTV of the municipal sewers will continue through 2012. Televising data is being collected electronically in the field using the nationally standardized Pipe Assessment and Certification Program (PACP) and incorporated into the County's data management software. In addition to the televising of municipal sewers, approximately 4 miles of district-owned interceptor sewers were televised during the third quarter. Including interceptor sewers, approximately 156 miles of sewer have been televised through the end of the third quarter.

2.1.3 Dye Testing

There was no dye testing performed during the third quarter of 2012.

2.2 WATER POLLUTION CONTROL PLANT

During the third quarter of 2012, Oneida County and its Engineering Consultants completed the detailed engineering study of the existing Water Pollution Control Plant (WPCP) and the SCPS and forcemain. The document “Water Pollution Control Plant and Sauquoit Creek Pump Station Evaluation” (Evaluation) report was hand delivered and presented to NYSDEC at a meeting in Oneida County on August 27, 2012. This document is currently under review by NYSDEC.

3.0 MANAGEMENT PROGRAMS

3.1 COMPUTERIZED MANAGEMENT AND MAINTENANCE SYSTEM (CMMS)

The County purchased a CMMS software system (Lucity – formerly GBA Master Series) 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 system. The County’s GIS Coordinator manages the system.

During the third quarter of 2012, the County continued to utilize the CMMS for Work Order development and for tracking sewer rehabilitation work.

3.2 FLOW MONITORING PROGRAM

A proposed flow monitoring program was developed during the first quarter and submitted on March 27, 2012 to NYSDEC in accordance with Schedule A – Section B.1 of the Consent Order with the intended goal of tracking the progress of inflow/infiltration reduction as a result of sewer rehabilitation projects within the SCPS basin. NYSDEC comments on this program were received by the County on July 10, 2012. The program was modified based on those comments, and the program was resubmitted to NYSDEC on August 13, 2012. NYSDEC provided written approval (dated August 24, 2012) of the program.

3.3 PRIVATE PROPERTY I/I REDUCTION PROGRAM

During the third quarter of 2012, a proposed outline of a program to address private property I/I (PPII) sources from the sanitary sewer system in the SCPS basin was prepared in accordance with Schedule A – Section B.2 of the Consent Order. A document titled “Preliminary Planning Document – Private Property Inflow and Infiltration Reduction Program” was submitted to

NYSDEC on June 29, 2012 for review and comment. No additional work was done on this plan during the third quarter of 2012 as the document was still under review by NYSDEC.

3.4 CAPACITY, MANAGEMENT, OPERATIONS, AND MAINTENANCE (CMOM) PROGRAM

During the third quarter of 2012, a proposed outline for a CMOM program that includes the Satellite Municipalities within the Sauquoit Creek Pump Station basin was prepared in accordance with Schedule A – Section B.3 of the Consent Order. Submission of a document titled “Preliminary Planning Document – Proposed CMOM Framework – Sauquoit Creek Pumping Station Basin Communities” was submitted to NYSDEC on June 29, 2012 for review and comment. No additional work was done on this plan during the third quarter of 2012 as the document was still under review by NYSDEC.

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 third quarter of 2012):

DESCRIPTION	CONSENT ORDER, SCHEDULE 'A' DATE
<u>Engineering Investigations and Evaluations</u>	
Dye Testing and Storm Sewer Report	June 30, 2012
Manhole Evaluation Report-Phase II	June 30, 2012
Sewer CCTV Inspection Report-Phase II	April 30, 2012
SCPS Evaluation Report	August 31, 2012
WPCP Evaluation Report	August 31, 2012
Treatment System Supplement (Report)	60 days after approval of WPCP Evaluation Report
Sewer CCTV Inspection Report-Phase III	April 30, 2014
Collection System Supplement (Report)	May 31, 2014
<u>Management Programs</u>	
Flow Monitoring Program	March 31, 2012
Private Property I/I Reduction Program	June 30, 2012
CMOM Program	June 30, 2012
PPII Reduction Program Implementation	May 31, 2013
CMOM Implementation	May 31, 2013
Asset Management Plan	December 31, 2021
<u>Remedial Measures</u>	
Semi-Permanent Alternative-Construction	December 31, 2016
SSO Mitigation-Consent Order Compliance	December 31, 2021
<u>Reporting</u>	
Annual Work Plan	January 31, annually
Quarterly Progress Report	Quarterly

4.2 MILESTONES

During the third quarter of 2012, the following milestone dates were met:

- “Water Pollution Control Plant and Sauquoit Creek Pump Station Evaluation” was submitted to NYSDEC on August 27, 2012. This document combines the two reports that were due to NYSDEC on August 31, 2012.

5.0 SEWER REHABILITATION

Design and construction for initial projects is being financed under CWSRF Project No. C6-6070-08-00. Projects will be tracked by contract number. The following is a status update of the current sewer rehabilitation contracts.

5.1 CONTRACT 2 – SANITARY SEWER MANHOLE REHABILITATION – PHASE 2

Green Mountain Pipeline Services (GMPS) and their sub-contractor continued work during the third quarter of 2012. Rehabilitation was initiated and/or completed at approximately 650 manholes. Due to favorable pricing afforded by GMPS bid prices, a change order was executed September 4, 2012 that added approximately 340 manholes to the contract and extended the completion date through June of 2013. Including the change order, this project will rehabilitate approximately 1,200 sanitary manholes. The majority of the work is expected to be completed by December 2012, but it is likely that inclement weather will impact the schedule and some work will have to be completed in the spring of 2013.

5.2 CONTRACT 3 – SANITARY SEWER MAINLINE REHABILITATION – PHASE 1

A pre-construction meeting was held with the Contractor, Insituform Technologies, LLC (ITI) on August 14, 2012. Shop Drawings/Submittals were received and reviewed by the Engineering Team during September of 2012. Work includes approximately 13 miles of sewer rehabilitation using cured in place pipe (CIPP) lining. Work will continue into the first quarter of 2013.

5.3 CONTRACT 4 – SEWER SEPARATION – CLINTON/HENDERSON STREET, NY MILLS

A contract was awarded to Joseph J. Lane Construction, Inc. (JJ Lane) on July 24, 2012. A Notice to Proceed was issued to JJ Lane September 21, 2012 and a pre-construction meeting was held September 26, 2012. Work includes the separation of a short section of combined sewer, reconnection of sanitary laterals, and construction of a short section of storm sewer with an outfall to Sauquoit Creek through Pietryka Park. The construction work is anticipated to be completed during October of 2012.

5.4 CONTRACT 5 – SEWER SPOT REPAIRS – PHASE 1

Project is currently under design. Work includes storm sewer and sanitary sewer repairs for the purpose of removing inflow (both direct and indirect) sources from the sanitary sewer system as determined from the results of dye testing (see Section 2.1.3). Repairs are planned for 15 separate locations throughout the SCPS tributary area. A construction schedule has not yet been formalized.

6.0 ASSESSMENT OF REHABILITATION EFFECTIVENESS

During the third quarter of 2012, there was no mechanism (flow monitoring) in place to measure the effectiveness of sewer rehabilitation. See Section 3.2, above for a discussion of the status of flow monitoring.

7.0 COMPLETED CAPITAL PROJECTS/FACILITY UPGRADES

During the third quarter of 2012, there were no capital projects or facility upgrades completed, although several sewer rehabilitation construction projects are ongoing.

8.0 I/I OFFSET PROJECTS/NEW FLOWS

During the third quarter of 2012, the following 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		CREDITS USED		ENDING BALANCE
Town of New Hartford	59,207		0	24 Overland Dr. 111 Pebble Creek Ln. 37 Overland Dr. 4630 Commercial Dr. (Moe's) 10 Dogwood Ln. 20 Buttonwood Dr. 12 Dogwood Ln. McDonalds, Route 5	320 380 320 3,290 320 320 320 476	53,461
Town of Paris	2,077		0		0	2,077
Town of Whitestown	5,037		0		0	5,037
Village of Clayville	0		0		0	0
Village of New Hartford	17,582		0		0	17,582
Village of New York Mills	364		0		0	364
Village of Oriskany	1,243		0		0	1,243
Village of Whitesboro	16,345		0		0	16,345
Village of Yorkville	316		0		0	316
Totals	102,171		0		5,746	96,425

9.0 KEY PERSONNEL CHANGES

Key personnel changes, as they relate to the SSO Mitigation/Consent Order compliance project, is 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 third quarter of 2012, there were no changes of key personnel to report.

9.2 SATELLITE COMMUNITY STAFF

During the third quarter of 2012, there were no changes of key personnel to report.

9.3 CONSULTANT TEAM STAFF

In July of 2012, John LaGorga, PE took a temporary reassignment to GHD's New Zealand offices. This reassignment is expected to last six months. During his absence, Mr. LaGorga's duties have been assumed by Jon Putnam, Project Manager.

10.0 ADMINISTRATIVE ITEMS

10.1 WORK AUTHORIZATIONS

10.1.1 Work Order 21 (Amendment 1) – Sewer Rehabilitation 2011-Design and Construction

This amendment was approved by Oneida County on September 13, 2012. It expanded the scope of construction observation and administration services, to include additional manhours for an extended construction duration and increased effort required to manage the County's CMMS.

10.1.2 Work Order 22 (Amendment 1) – Manhole Rehabilitation 2011-Design and Construction

This amendment was approved by Oneida County on September 13, 2012. It expanded the scope of construction observation and administration services, to include additional manhours for an extended construction duration and increased effort required to manage the County's CMMS.

10.2 FUNDING APPLICATIONS

10.2.1 Phase 5a – Pump Station and Forcemain Upgrades – Design and Permitting (CWSRF No. C6-6070-08-02)

On September 20, 2012, a report titled "Engineering Report-Sanitary Sewer Overflow Mitigation Program Phase 5A-Pump Station and Forcemain Upgrades-Design and Permitting" was submitted to NYSDEC, in support of this funding application. The amount of financing requested is \$3.0 million. The scope of the proposed work is limited to engineering and environmental services for the design and permitting of the proposed upgrades to the Sauquoit Creek Pumping Station and the addition of a second forcemain extending from the pump station to the WPCP.