



**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

January 31, 2013

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

UNITED PARCEL SERVICE

Koon Tang, P.E., Director  
Bureau of Water Permits  
Division of Water  
NYS Department of Environmental Conservation  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233

Re: Oneida County Sewer District  
Quarterly Progress Report – 4th 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 4th Quarter – 2012 as required per Section XIII – Reporting Requirements of the Consent Order. This document summarizes the status and progress of work completed between October 1, 2012 and December 31, 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".

Steven P. Devan, P.E.  
Commissioner

Enclosure: Quarterly Progress Report – 4th Quarter 2012 (dated January 14, 2013)

cc: Anthony J. Picente, Jr. - Oneida County Executive  
Karl E. Schrantz, P.E. - Shumaker Engineering  
Peter M. Rayhill, Esq. - Martin and Rayhill  
Judy Drabicki, - NYSDEC  
Joseph DiMura, P.E. – NYSDEC  
Matthew Duffany, P.E. - NYSDEC  
Michael O'Neil, P.E. - NYSEFC

**ONEIDA COUNTY SEWER DISTRICT**

**QUARTERLY PROGRESS REPORT  
4<sup>th</sup> 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

January 14, 2013



Utica, NY



Cazenovia, NY

BROWN AND  
CALDWELL

Liverpool, NY

QUARTERLY PROGRESS REPORT  
4<sup>th</sup> 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

January 14, 2013

Prepared by

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**TABLE OF CONTENTS**

1.0 INTRODUCTION ..... 1-1

    1.1 HISTORICAL BACKGROUND..... 1-1

    1.2 CONSENT ORDER..... 1-1

2.0 ENGINEERING INVESTIGATIONS AND EVALUATIONS ..... 2-1

    2.1 COLLECTION SYSTEM..... 2-1

        2.1.1 Manhole Inspections ..... 2-1

        2.1.2 Sanitary Sewer Televising ..... 2-1

        2.1.3 Dye Testing..... 2-1

    2.2 WATER POLLUTION CONTROL PLANT ..... 2-2

3.0 MANAGEMENT PROGRAMS..... 3-1

    3.1 COMPUTERIZED MANAGEMENT AND MAINTENANCE SYSTEM..... 3-1

    3.2 FLOW MONITORING PROGRAM..... 3-1

    3.3 PRIVATE PROPERTY I/I REDUCTION PROGRAM ..... 3-1

    3.4 CAPACITY, MANAGEMENT, OPERATIONS, AND MAINTENANCE PROGRAM..... 3-2

4.0 SCHEDULE/MILESTONE DATES ..... 4-1

    4.1 APPROVED SCHEDULE..... 4-1

    4.2 MILESTONES..... 4-2

5.0 SEWER REHABILITATION ..... 5-1

    5.1 CONTRACT 2 – SANITARY SEWER MANHOLE REHABILITATION – PHASE 2..... 5-1

    5.2 CONTRACT 3 – SANITARY SEWER MAINLINE REHABILITATION – PHASE 1 ..... 5-1

5.3	CONTRACT 4 – SEWER SEPARATION – CLINTON/HENDERSON STREET, NY MILLS .....	5-2
5.4	CONTRACT 5 – SEWER SPOT REPAIRS – PHASE 1 .....	5-2
6.0	ASSESSMENT OF REHABILITATION EFFECTIVENESS .....	6-1
7.0	COMPLETED CAPITAL PROJECTS/FACILITY UPGRADES .....	7-1
8.0	I/I OFFSET PROJECTS/NEW FLOWS .....	8-1
9.0	KEY PERSONNEL CHANGES .....	9-1
9.1	COUNTY STAFF.....	9-1
9.2	SATELLITE COMMUNITY STAFF .....	9-1
9.3	CONSULTANT TEAM STAFF.....	9-1
10.0	ADMINISTRATIVE ITEMS .....	10-1
10.1	WORK AUTHORIZATIONS .....	10-1
10.2	FUNDING APPLICATIONS .....	10-1
10.2.1	Phase 5a – Pump Station and Forcemain Upgrades – Design and Permitting (CWSRF No. C6-6070-08-02).....	10-1

## **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 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 October 1, 2012 and December 31, 2012 (4<sup>th</sup> quarter of 2012) in support of the Consent Order compliance requirements.

## **2.0 ENGINEERING INVESTIGATIONS AND EVALUATIONS**

During the 4<sup>th</sup> 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 4<sup>th</sup> 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 interceptor sewer plus 186 miles of municipal sewer). The County has contracted with a firm (National Water Main Cleaning Co.) to perform closed circuit televising (CCTV) of these sanitary sewers. CCTV of the municipal sewers will continue through the spring of 2013. 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. During the 4<sup>th</sup> quarter of 2012, approximately 2.5 miles of municipal sewers were televised. In addition to the televising of municipal sewers, approximately 7 miles of district-owned interceptor sewers were televised during the 4<sup>th</sup> quarter. Including interceptor sewers, approximately 166 miles (cumulative) of sewer have been televised through the end of the 4<sup>th</sup> quarter 2012.

#### **2.1.3 Dye Testing**

There was no dye testing performed during the 4<sup>th</sup> quarter of 2012.

## **2.2 WATER POLLUTION CONTROL PLANT**

As noted in the 3<sup>rd</sup> Quarter Progress Report (2012), Oneida County submitted a report titled “Water Pollution Control Plant and Sauquoit Creek Pump Station Evaluation” to NYSDEC. On October 23, 2012, NYSDEC provided comments to the County, to which the County responded with Addendum No. 1 on November 16, 2012 which addressed those comments. NYSDEC subsequently issued a written approval of the report and Addendum No. 1 on November 28, 2012.



### **3.0 MANAGEMENT PROGRAMS**

#### **3.1 COMPUTERIZED MANAGEMENT AND MAINTENANCE SYSTEM**

The County purchased a Computerized Management and Maintenance System (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 4<sup>th</sup> quarter of 2012, the County continued to utilize the CMMS for tracking and documenting sewer rehabilitation work, and for verifying installed quantities on Contractor payment applications.

#### **3.2 FLOW MONITORING PROGRAM**

A proposed flow monitoring program was developed during the 1<sup>st</sup> quarter and submitted on March 27, 2012 to NYSDEC in accordance with Schedule A – Section B.1 of the Consent Order. NYSDEC provided written approval of the program on August 24, 2012. During the 4<sup>th</sup> quarter of 2012, the County continued to work with DASNY to finalize the funding request (\$950,000) for the capital equipment procurement portion of the program. Additionally, the County incorporated funding in its 2013 District Operating Budget for the yearly maintenance, data hosting, and data analysis and reporting costs associated with the flow monitoring program.

#### **3.3 PRIVATE PROPERTY I/I REDUCTION PROGRAM**

During the 3<sup>rd</sup> 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. Absent NYSDEC acknowledgement of the June 29, 2012 submission, the County will establish a working group of appropriate PPII-oriented community representatives to map out a phased implementation plan.

### **3.4 CAPACITY, MANAGEMENT, OPERATIONS, AND MAINTENANCE PROGRAM**

During the 3<sup>rd</sup> quarter of 2012, a proposed outline for a Capacity, Management, Operations, and Maintenance (CMOM) Program that includes the Satellite Municipalities within the SCPS 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. Absent NYSDEC acknowledgement of the June 29, 2012 submission, the County will establish a working group of appropriate CMOM-oriented community representatives to map out a phased implementation plan.

## 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 4<sup>th</sup> 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 4<sup>th</sup> quarter of 2012, the following milestone dates were met:

- No specific schedule milestones were required to be met during the 4<sup>th</sup> quarter of 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 4<sup>th</sup> quarter of 2012. Due to favorable pricing afforded by GMPS bid prices, a construction change order was executed between the County and GMPS on September 4, 2012 that added 336 manholes to the original contract of 942 manholes. The completion date was extended through June 2013 in order to complete the additional work. Including the change order, this project will rehabilitate approximately 1,278 sanitary sewer manholes. Rehabilitation was initiated and/or completed at approximately 1,100 manholes through December 31, 2012, but winter weather conditions have impacted the schedule and the remainder of the work will have to be completed in the spring of 2013.

### **5.2 CONTRACT 3 – SANITARY SEWER MAINLINE REHABILITATION – PHASE 1**

The County's Contractor, Insituform Technologies, LLC (ITI) mobilized and began work in mid-October 2012. Work includes approximately 13 miles of sewer rehabilitation using cured in place pipe (CIPP) lining, open cut repairs, sewer joint grouting, CIPP short liners, and lateral grouting. Open-cut repairs began on October 12, 2012 and CIPP lining began on October 15, 2012. Through the end of 2012, all of the open-cut repairs, approximately 6.5 miles of CIPP lining, and most of the short liners and joint grouting were complete. Winter weather conditions have impacted the schedule, and as a result, construction productivity will be limited. However, CIPP work will continue through the winter as weather conditions permit. A change

order to the Construction Contract has been issued which extends the construction completion date through April 2013. Note that this time extension will have no impact on new construction contracts that will be issued in 2013.

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

The County's Contractor, Joseph J. Lane Construction, Inc. (JJ Lane) mobilized and began work in the beginning of October 2012. The project was substantially complete on October 19, 2012. Work included the separation of a short section of combined sewer, reconnection of sanitary laterals, and conversion of an abandoned sanitary sewer to a storm sewer with construction of a short extension of storm sewer with an outfall to Sauquoit Creek through Pietryka Park.

The project resulted in the removal of approximately 264,000 gallons per day (measured) of wet weather flow from the sanitary sewer system at a final contract cost of \$162,938. As of the end of 2012, several punch list items, mostly related to site restoration, remain and will be completed upon the return of favorable weather and drier working conditions in the spring of 2013.

### **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 approximately 15 separate locations throughout the SCPS tributary area. A construction schedule has not yet been formalized, but work is anticipated to be performed in 2013.

## **6.0 ASSESSMENT OF REHABILITATION EFFECTIVENESS**

During the 4<sup>th</sup> 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. However, visual observations of the construction activities associated with Construction Contracts 2 and 3 note obvious removals of I/I sources. Additionally, and as noted in Section 5.3, approximately 264,000 gpd of measured inflow and infiltration is being removed continually through the new outfall at Sauquoit Creek.

## **7.0 COMPLETED CAPITAL PROJECTS/FACILITY UPGRADES**

During the 4<sup>th</sup> quarter of 2012, there were no capital projects or facility upgrades completed, although several sewer rehabilitation construction projects are ongoing. However, as noted in Section 5.3, the work associated with Contract 4 – Sewer Separation, Clinton Street New York Mills is substantially complete, minus punch list items related to surface restoration.



## 8.0 I/I OFFSET PROJECTS/NEW FLOWS

During the 4<sup>th</sup> 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	53,461		0	55 Overland Drive 3300 Mohawk Street 13 Florence Court 8 Dogwood Lane	240 320 320 320	52,261
Town of Paris	2,077		0	2982 Oneida Street	150	1,927
Town of Whitestown	5,037		0		0	5,037
Village of Clayville	0		0		0	0
Village of New Hartford	17,582		0	44 Oxford Road	148	17,434
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
<b>Totals</b>	<b>96,425</b>		<b>0</b>		<b>1,498</b>	<b>94,927</b>

## **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 4<sup>th</sup> quarter of 2012, there were no changes of key personnel to report.

### **9.2 SATELLITE COMMUNITY STAFF**

During the 4<sup>th</sup> quarter of 2012, there were no changes of key personnel to report.

### **9.3 CONSULTANT TEAM STAFF**

During the 4<sup>th</sup> quarter of 2012, there were no changes of key personnel to report.

## **10.0 ADMINISTRATIVE ITEMS**

### **10.1 WORK AUTHORIZATIONS**

No authorizations for additional engineering work were acted upon by the County during the 4<sup>th</sup> quarter of 2012.

### **10.2 FUNDING APPLICATIONS**

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

A Public Hearing was held on December 12, 2012 for the purpose of a \$3 Million bond authorization for this CWSRF financing. The Board of Legislators ultimately approved the bond authorization on this date.