



## **TOWN OF CAIRO**

### **GENERAL/REGULAR MEETING AGENDA**

**July 10, 2013 @ 4:00PM**

**Location: Town Hall, Cairo**

**Call to Order**

**Pledge of Allegiance**

**Attendance**

**Comments/Presentations: Round Top Mountain Bike Association**

**Approval of Minutes: June 26, 2013**

**Work Sessions with Departments as applicable: Code Enforcement**

**Appointments & Resolutions**

**Unfinished Business:**

- **Clean up Day**

**New Business:**

- **Board of Appeals**
- **Electrician Proposals**
- **Soccer Fields**
- **Highway Work**
- **Water & Sewer**

**Correspondence**

**Adjournment**

**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

**“Appoint Secretary to the Board of Appeals”**

Councilperson \_\_\_\_\_ offered the following resolution and moved its adoption:

BE IT RESOLVED, that the Town Board of the Town of Cairo does hereby appoint Louann Arp as Secretary to the Board of Appeals at the rate of \$10.75 per hour.

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILPERSON JOYCE	AYE	NAY
COUNCILPERSON OSTRANDER	AYE	NAY
COUNCILPERSON PUORRO	AYE	NAY
COUNCILPERSON SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_

**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

**“Appoint an Acting Chair to the Board of Appeals”**

Councilperson \_\_\_\_\_ offered the following resolution and moved its adoption:

WHEREAS, George Keinmeier is a member of the Board of Appeals;

AND WHEREAS, the Chair-Tom Baldwin requested that the Town Board designate an acting Chair in his absence; therefore,

BE IT RESOLVED, that the Town Board of the Town of Cairo does hereby appoint George Kleinmeier as the acting chair in the absence of the Chair-Tom Baldwin to be paid according to the Chairperson rate.

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILPERSON JOYCE	AYE	NAY
COUNCILPERSON OSTRANDER	AYE	NAY
COUNCILPERSON PUORRO	AYE	NAY
COUNCILPERSON SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_

**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

**AUTHORIZING THE SUPERVISOR TO EXECUTE AGREEMENT  
FOR THE EXPENDITURE OF HIGHWAY MONIES PURSUANT TO  
SECTION 284 OF THE HIGHWAY LAW**

Councilperson \_\_\_\_\_ offered the following resolution  
and moved its adoption:

WHEREAS, the Town Highway Superintendent has requested that the Town  
Board review and accept the proposed expenditure of funds for the purpose of  
repair and improvement of the town highways in accordance with the terms  
and conditions of the attached Agreement, therefore

Be it resolved, that the Supervisor of the Town of Cairo is hereby authorized to  
execute the attached Agreement for the Expenditure of Highway Monies  
Pursuant to Section 284 of the Highway Law.

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILMAN OSTRANDER	AYE	NAY
COUNCILMAN PUORRO	AYE	NAY
COUNCILMAN JOYCE	AYE	NAY
COUNCILMAN SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_

**AGREEMENT FOR THE EXPENDITURE OF HIGHWAY MONEYS**  
**Section 284 OF THE HIGHWAY LAW**

AGREEMENT between the Town Superintendent of Highways of the Town of Cairo, of Greene County, State of New York and the undersigned members of the Town Board.

Pursuant to the provisions of Section 284 of the Highway Law, we agree that moneys levied and collected in the Town for the repair and improvement of highways, the revenues from equipment rentals, reimbursement for snow and ice removal and other charges for services, the reappropriated funds, and the CHIPS and other State aid for highways, shall be expended as follows:

- 1A. GENERAL REPAIRS. All DA5110 accounts, DA5120 Bridges, DA5142 Snow Removal accounts, and DA5140 Brush & Weeds accounts in the amount of \$767,278.00 shall be set aside to be expended for basic work and general maintenance and repairs upon 91.42 miles of town highways, including sluices, drainage ditches, culverts and bridges having a span of less than five feet, tree and brush removal, board walks, sidewalks that are the responsibility of the Town, emergency activities as such are authorized by the Town Board, and other activities involved with the care, upkeep and maintenance of highways and bridges of the Town. Before any such work is undertaken, the Superintendent of Highways shall inform the Supervisor of the proposed work in order for the Supervisor to ascertain that the proposed work complies with the laws of New York and/or any Rules and Regulations relating thereto.
- 1B. PERMANENT IMPROVEMENTS – HIGHWAYS. Accounts DA5112.204 Town DA5112.205 Chips in the amount of \$356,000.00 shall be set aside to be expended for the permanent improvements of Town Highways. The Town Highways that are intended to be improved include:
- a) On the highway known as Silver Spur Road East commencing from State Route 23 and leading to State Route 32 for a distance of approximately 0.8 mile; consisting of the following work: 2 ½" hot mix asphalt approximately 20' wide.
  - b) On the highway known as McClaren Road commencing at Ross Ruland and leading to cul-de-sac, a distance of 0.27 mile; consisting of the following work: 2" hot mix asphalt approximately 20' wide.
  - c) On the highway known as Ross Ruland commencing at State Route 23 and leading to State Route 32, a distance of 0.6 mile; consisting of the following work: 2" hot mix asphalt approximately 20' wide.
  - d) On the highway known as Joseph Kollar commencing at County Route 67 and leading to County Route 67, a distance of 1.48 miles; consisting of the following work; 2" hot mix asphalt approximately 20' wide
  - e) On the highway known as Bald Hill Road North commencing at the intersection of Blackhead Mountain Rd. and leading to Jones Road for a distance of approximately 0.5 mile; consisting of the following work; 3.5" motor paving approximately 20' wide.
  - f) On the highway known as Agnes Drive commencing at County Route 31 and leading to County Route 31, a distance of 0.5 mile; consisting of the following work; 3.5" motor paving approximately 18' wide.

- g) On the highway known as Deer Run commencing at Maple Lawn Road and leading to cul-de-sac; consisting of the following work; 3" motor paving approximately 18' wide.
- h) On the highway known as Deer Park commencing at Maple Lawn Road and leading to cul-de-sac; consisting of the following work; " motor paving approximately 18' wide.

Before any such work is undertaken, the Superintendent of Highways shall inform the Supervisor of the proposed work in order for the Supervisor to ascertain that the proposed work complies with the laws of New York and/or any Rules and Regulations relating thereto.

1C. Remainder of DA5112.2 moneys to be used on various roads in the Town of Cairo.

1D. Employee benefits DA9010.8 through DA9089.83 to be spent on employee's benefits.

- 2. PERMANENT IMPROVEMENTS – BRIDGES. The sum of \$8,000.00 shall be set aside to be expended for the permanent improvements of Town Bridges. The Town Bridges that are intended to be improved include:
  - a) The bridge known as Pollys Rock, consisting of the following work: Engineer inspection and design.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Supervisor

\_\_\_\_\_  
Councilperson

\_\_\_\_\_  
Councilperson

\_\_\_\_\_  
Councilperson

\_\_\_\_\_  
Town Superintendent of Highways

\_\_\_\_\_  
Councilperson

NOTE: This Agreement should be signed in duplicate by a majority of the members of the Town Board and the Town Superintendent of Highways. One copy must be filed in the Town Clerk's Office and one copy in the Office of the County Superintendent of Highway. COPIES DO NOT HAVE TO BE FILED IN ALBANY.

**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

**“Accept Vendor Agreements from July 4<sup>th</sup> Celebration”**

Councilperson \_\_\_\_\_ offered the following resolution and moved its adoption:

BE IT RESOLVED, that the Town Board of the Town of Cairo does hereby accept the agreements the Town Supervisor signed with the following vendors for the July 4<sup>th</sup> celebration:

- C & N Amusements
- Karaoke Craig D.J. Service Inc.
- Frank Carhart DBA Jump-N-Fun

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILPERSON JOYCE	AYE	NAY
COUNCILPERSON OSTRANDER	AYE	NAY
COUNCILPERSON PUORRO	AYE	NAY
COUNCILPERSON SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_

**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

**“Board of Appeals Public Hearing Fee”**

Councilperson \_\_\_\_\_ offered the following resolution and moved its adoption:

BE IT RESOLVED, that the Town Board of the Town of Cairo does hereby institute a Board of Appeals Public Hearing Fee of \$25.00, thereby updating the fee schedule to include same. The fee will be payable prior to a Public Hearing being set.

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILPERSON JOYCE	AYE	NAY
COUNCILPERSON OSTRANDER	AYE	NAY
COUNCILPERSON PUORRO	AYE	NAY
COUNCILPERSON SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_



**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

**“Authorization to Request Proposals for Town Sidewalk Design”**

Councilperson \_\_\_\_\_ offered the following resolution and moved its adoption:

BE IT RESOLVED, that the Town Board of the Town of Cairo does hereby approve the RFP for engineering services to design and implement the Town Sidewalk Plan.

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILPERSON JOYCE	AYE	NAY
COUNCILPERSON OSTRANDER	AYE	NAY
COUNCILPERSON PUORRO	AYE	NAY
COUNCILPERSON SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_

TOWN OF CAIRO  
REQUEST FOR PROPOSALS  
FOR ENGINEERING SERVICES TO DESIGN AND IMPLEMENT  
THE TOWN SIDEWALK PLAN

INTRODUCTION

General Information

The Town of Cairo is requesting proposals from qualified firms of licensed engineers to provide engineering services to design and implement the Town sidewalk plan.

PROPOSAL REQUIREMENTS

1. Inquiries – Inquiries concerning the request for proposals and the subject of the request for proposals must be directed to:

Ted Banta, Supervisor  
Town of Cairo  
PO Box 728  
Cairo, NY 12143

Proposals must also be sent to the above address

2. Submission of Proposals – Six (6) copies of the detailed proposal are required to be received by \_\_\_\_\_ to be considered.

Proposal

1. License to Practice in New York State- an affirmative statement should be included that the firm and all assigned key professional staff are properly licensed to practice in New York State.

2. Firm qualifications and experience – The proposer should state the size of the firm and provide a statement of the firm's qualifications for governmental design and construction projects. At least two of the references should be municipalities.

3. Staff qualifications and experience- Identify the staff members who would be assigned to the engagement. Indicate whether each such person is registered or licensed to practice as a licensed engineer in New York State.

4. Specific Approach- The proposal should set forth a work plan, including and explanation of the methodology to be followed and time required for completion of the design and to perform the services required in this request for proposals.

GENERAL REQUIREMENTS

The cost of completion of design and construction over-sight and of the Town of Cairo's Sidewalk Plan and the manner in which same shall be conducted, must be provided. A copy thereof is available at the Town Supervisor's Office, Town Hall, Main Street, Cairo, NY 12413.

**TOWN OF CAIRO**

**July 10, 2013**

**RESOLUTION NO. \_\_\_\_\_**

“Authorization for Supervisor to Sign & Execute the Contract of Sale with the County of Greene for the “Soccer Field” Property”

Councilperson \_\_\_\_\_ offered the following resolution and moved its adoption:

WHEREAS, the Town of Cairo asked to purchase the property located on Mountain Ave, Tax Map parcel 101.00-6-5.1 from the County of Greene to develop Soccer Fields;

AND WHEREAS, the County of Greene offered the property for purchase-see attached Contract of Sale; therefore,

BE IT RESOLVED, that the Town Board of the Town of Cairo does hereby authorize the Town Supervisor to sign and execute the Contract of Sale with the County of Greene for the purchase of said land of approximately 4.9+/- acres, tax map parcel No. 101.00-6-5.1.

SECONDED BY COUNCILPERSON \_\_\_\_\_

COUNCILPERSON JOYCE	AYE	NAY
COUNCILPERSON OSTRANDER	AYE	NAY
COUNCILPERSON PUORRO	AYE	NAY
COUNCILPERSON SUTTMEIER	AYE	NAY
SUPERVISOR BANTA	AYE	NAY

AYE \_\_\_\_\_ NAY \_\_\_\_\_ ABSENT \_\_\_\_\_ CARRIED \_\_\_\_\_ DEFEATED \_\_\_\_\_

TOWN OF CAIRO  
Appeal to the Building and Planning Board of Appeals Form

1. I (we) hereby appeal to the Town of Cairo Building Code and Planning Board of Appeals from the decision of the Building Inspector whereby the Building Inspector granted or denied an application to \_\_\_\_\_

2. Location of affected premises: Address: \_\_\_\_\_  
 Parcel ID # \_\_\_\_\_

Located on the  N  S  E  W side of \_\_\_\_\_ Street  
\_\_\_\_\_ Feet  N  S  E  W side of \_\_\_\_\_ Street

Title of Subdivision Map \_\_\_\_\_ Lot No. \_\_\_\_\_  
Section of Town: \_\_\_\_\_ Building Zone \_\_\_\_\_ Lot No. \_\_\_\_\_

Owner: \_\_\_\_\_ Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Applicant(s): \_\_\_\_\_ Address: \_\_\_\_\_  
Phone: \_\_\_\_\_

3. Previous Appeals have been made with respect to this property as follows:  
Application No(s): \_\_\_\_\_ Dates: \_\_\_\_\_

4. This Appeal Relates To  Lot Size  Height  Road Frontage  Area  Other

Describe Briefly:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. VARIANCE of the following section(s) of the Building Code or Sub-Division Regulations is (are) requested \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Please provide a brief narrative relating to each of the standards below:

(a) whether an undesirable change will be produced in the character of the neighborhood or a detriment to nearby properties will be created by the granting of the variance: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(b) whether the benefit sought by the applicant can be achieved by some method, feasible for the applicant to pursue, other than an area variance: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(c) whether the requested variance is substantial: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(d) whether the proposed variance will have an adverse effect or impact on the physical or environmental conditions in the neighborhood or district: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(3) whether the alleged difficulty is self-created, which consideration shall be relevant to the decision of the board of appeals, but shall not necessarily preclude the granting of a variance:

\_\_\_\_\_  
\_\_\_\_\_

6. All Owners whose property bounds upon any portion of subject property including the property directly across the street and bordering it.

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

(Please additional sheet if needed)

7. \_\_\_\_\_  
Owner's Signature                      Applicant's Signature                      Agent's Signature

Contact Person's Telephone No. ( ) \_\_\_\_\_

Application fee paid \_\_\_\_\_ Receipt no. \_\_\_\_\_

I hereby submit an appeal for an alternative method or a modification of the requirements of the Building Codes of the Town of Cairo as outlined in the attached information. I hereby further acknowledge that I am submitting this appeal as the property owner or the property owner's authorized representative.

Agreed and acknowledged    Date: \_\_\_\_\_

Appellant Name                      \_\_\_\_\_

Firm Name                              \_\_\_\_\_

Appellant Address                      \_\_\_\_\_

\_\_\_\_\_

Appellant Phone                      \_\_\_\_\_

Email Address                          \_\_\_\_\_



# Delaware Engineering, PC

28 Madison Avenue Extension  
Albany, New York 12203

Tel: 518.452.1290  
Fax: 518.452.1335

DRAFT

June 18, 2013

Andrea Dzierwa P.E.  
NYSDEC-Water Division  
1130N. Westcott Rd.  
Schenectady, New York 12306-2014

Subject: Town of Cairo  
Status of Wastewater Work

Dear Ms. Dzierwa:

On behalf of the Town of Cairo we are pleased to provide the following update on the various repairs and improvements that the Town has completed over the past three years through the CWSRF funded system upgrades. The original system has been plagued by a number of problems since shortly after it was put in service. The most significant problems: lack of working filters; insufficient and inconsistent treatment of wastewater; a large amount of infiltration and inflow (I&I) and a lack of maintenance on District owned septic tanks. The Town is providing this summary of its progress at this time because the improvements are at or near completion and a moratorium still remains in effect on new sewer connections. While the Department has been helpful in granting case-by-case exceptions, the moratorium as a whole has been and remains an economic burden on the Town. We believe that past two years of operations in compliance with the permit and the current condition of the facilities demonstrate that sufficient progress has been made to warrant lifting the moratorium at this time.

#### PLANT HISTORY

The Cairo wastewater collection and treatment system was built in 1999-2000 and serves a mixture of residential and commercial properties amounting to the equivalent of approximately 600 homes. The collection system was designed as a graywater system. Each service has a septic tank, owned and maintained by the District, which flows to small diameter collection lines, typically 2-4 inches diameter. The collection piping was, by design, not free draining at all points and is intended to eventually fill and flow to pumping stations located at low points in the system.

From the start the plant had a number of problems which resulted in a DEC Consent Order in 2001. The Order was amended in 2001, 2005 and finally in 2008 at the beginning of the current upgrade program. The Consent Orders required the Town to develop, submit, and act on plans to reduce I&I, manage high wet weather flows, assess the existing filters, and repair or replace them as necessary. Under the last Order, the Town instituted a moratorium on new connections in March 2008.

At that time planning for the current upgrade program was commenced. The program was delayed for over a year by an Article 78 lawsuit filed by a group of residents opposed to the upgrades. By the time this was resolved, the original CWSRF funding offer had expired. In 2009 application was made for USDA funding, and a grant and loan package was initially offered to the Town. In 2010 USDA notified the Town there was insufficient

funding and the original offer was withdrawn. A new application was then made under the CWSRF program which was accepted and which has been the mechanism for funding these improvements.

The primary issues which the upgrade project and other concurrent work by the Town have addressed are:

1. Installation of an Operational Filtration System: The filters originally installed did not meet the design specifications and could not be made to operate for any length of time.
2. High Infiltration and Inflow (I&I): The collection system, with its 300 tanks, shallow piping, and numerous clean-outs resulted in high flows during much of the year, which in 2007-2009 was at the design capacity of the plant. Following heavy rain or snow melt, flows were often more than the hydraulic capacity of the plant and frequently washed out the activated sludge tanks upsetting the treatment process. A lack of healthy sludge, decant from the sludge tanks and the septic influent often produced filamentous problems for weeks or months at a time. During such upsets the plant was frequently out of compliance with its SPDES permit effluent requirements. Operational changes at the plant in 2008 have had much to do with correcting this problem in the interim while other improvements have been completed.
3. Septic Tank Maintenance: The District quickly fell behind in maintenance pumping of the individual septic tanks. In 2010, most tanks had not been pumped in ten years and pumping was done on an as-needed basis in response to clogged tanks.
4. Collection System Back-ups and Overflows: The small diameter piping was, during heavy rains, surcharged, causing back-ups of residential plumbing and overflows at low points or pump stations without adequate capacity.

#### UPGRADES COMPLETED

Between 2008 and 2013 a number of improvements were completed with the physical plant, its operations and system maintenance which have addressed the above issues. The principal improvements have been:

1. Filtration System Installed: In 2009 an addition was built at the plant and a package filtration system was installed. A surplus package filtration system was purchased from Ski Windham, rehabilitated and placed in service in August 2009. This effectively met the Permit requirement for filtration and improved effluent quality. In addition, the operator noted that the return of filtered activated sludge solids to the process has a positive effect in stabilizing plant performance.
2. I&I Investigation and Reduction: In 2004-08 the Town expended approximately \$175,000 in addressing flow restrictions and reducing I&I. During the present project this work continued with a CCTV inspection program completed by Precision Industrial Maintenance and the subsequent repair of nine major I&I sources by Maple Ridge Enterprises. A plot of daily flow for the years 2010-12 is shown in Figure 1. It appears that additional reductions in I&I have also been accomplished through the septic tank inventory and repair program discussed below.
3. Treatment Capacity Increase: The plant was originally designed with two SBR basins each with a capacity of 89,000-GPD. The original permitted plant capacity is 89,000-GPD which was reached in 2007-08. A third basin of equal capacity was added in 2012. With only two basins running, the plant can treat a flow of 178,000-GPD which is typical of the highest flows now received after heavy rain or snow events. Additional process controls have been added to the plant as well.
  - a. All flow passes through a flow control valve designed to take advantage of the equalization tank capacity.
  - b. The blowers have been equipped with VFDs and DO probes have been installed in the tanks to control the blowers.

- c. A flow splitter box has been installed between the control valve and the individual SBRs to balance flow evenly between the SBR units on-line.
- d. Flow meters were installed on the inlet and outlet of the equalization tanks.
- e. Plant operating and monitoring parameters have been incorporated in a plant-wide SCADA system which controls operations, issues alarms, logs data and can be accessed remotely by the operator.

The third SBR was commissioned June 14, 2013. The two existing SBRs will be sequentially taken out of service and rehabilitated with a new aeration grid, decanter drives and process monitoring. This process is expected to be complete by the end of August.

- 4. **Equalization Capacity Increase:** The original equalization tank has a capacity of 56,000-gallons and was equipped with a floating decanter. The decanter was an alternative design which did not work after start-up. Since 2001 the equalization tank has typically been kept full and allowed to overflow to the SBRs. The tank is continually pumped down with a small sump pump to provide some additional surge capacity for rain events. The plant improvements include removal of the decanter and installation of the above mentioned flow control valve, which regulates flow to the SBRs at an operator adjusted value, thus making use of the full 50,000 gallons of capacity. In addition, an equalization overflow tank of 150,000-gallons capacity was installed. On occasions where the original tank does not have adequate capacity to keep up with the excess flow, the primary overflows to the secondary or "overflow" equalization tank, which is also connected to feed the flow control valve.
- 5. **UV Treatment Capacity Increase:** A third UV unit capable of treating a flow of 108,000 GPD was added to the two existing units which each have a 100,000 GPD capacity. Intensity monitoring alarms were added to the original UV units.
- 6. **Sludge Holding Tanks:** Valves were added at each tank to allow tanks to be individually thickened and decanted, increasing the effective sludge volume and reducing sludge hauling costs.
- 7. **Septic Tank Inventory and Repair:** A comprehensive list of the tanks and maintenance schedule was developed. Approximately 120 tanks were pumped in 2012. And the operating budget has funding to complete an equal or larger number in 2013. At this schedule, the tank pump-outs will be brought current in 2014. As the tanks are being pumped, the Town Highway Department has located each tank, excavated as necessary and restored yards as needed. The Town has also begun a comprehensive file with data on each tank to facilitate future service and record any unusual circumstances or conditions. Nearly half of the tanks located have obvious I&I. So prior to closing tanks and restoring yards, the Town has been repairing all apparent sources of I&I and installing clean-outs where none were originally installed. This program will, if maintained, greatly simplify future maintenance of a regular pump-out schedule. And, given the amount of I&I sources located and sealed, it is also expected to provide a further reduction in overall I&I to the system.
- 8. **Replacement of Main East End Pump Station:** The pump station at the eastern end of the collection system was originally equipped with duplex E-One grinder pumps feeding a 1-1/2" force main. The force main in turn discharged to the main 4-inch collection line serving the school and central business district and eventually entering the Schneider pump station at the opposite end of the system from which flow was pumped back to the wastewater plant. Since construction in 1999, a significant number of homes and businesses were built and connected to this pump station. The



addition of the new McDonalds, a Pharmacy, two large convenience stores, Dunkin Donuts, car wash and 40 homes along with the existing shopping plaza severely overloaded the old pump station. This was replaced by a package 4-inch duplex pump package with stand-by power. The force main was replaced with a new 6-inch HDPE line which bypasses the Main Street area and connects directly to the force main on Lake Mills Road, where it flows directly to the plant without re-pumping.

9. Cairo Plaza Collection System Replacement: The original plaza was purchased and razed in 2012 to allow construction of a new store and plaza by Hannaford. As a condition of the building permit, the new owners were required to replace all sanitary sewers in the footprint of the new plaza. As the old lines are being abandoned in 2013, it is apparent that this is another significant source of I&I which is being removed.

In conclusion, the Town has completed significant upgrades to alleviate problems which have persisted since the plant was placed on line in 2000. Flows have been reduced to an annual average of 0.049, 0.068 and 0.050 MGD for the past three years – well below the permit limit of 0.089 MGD; in addition the high stormwater flow peaks have been reduced. The plant has been in compliance with the SPDES permit, for the past three years, the last violation being in January 2010.

The Town believes that the moratorium which it instituted in 2008 has achieved its purpose, but is now serving only as a hindrance to the very residents and businesses which the sewer district was originally built to benefit. As the final plant improvements are being put into service, the Town is proposing to lift the moratorium at the end of August 2013. The Town of Cairo would welcome the opportunity to meet with DEC to discuss this matter as well as any other issues that may still need to be resolved before the Consent Order is closed out.

Please call me at 452-1290 if you have any questions or would like to discuss the above.

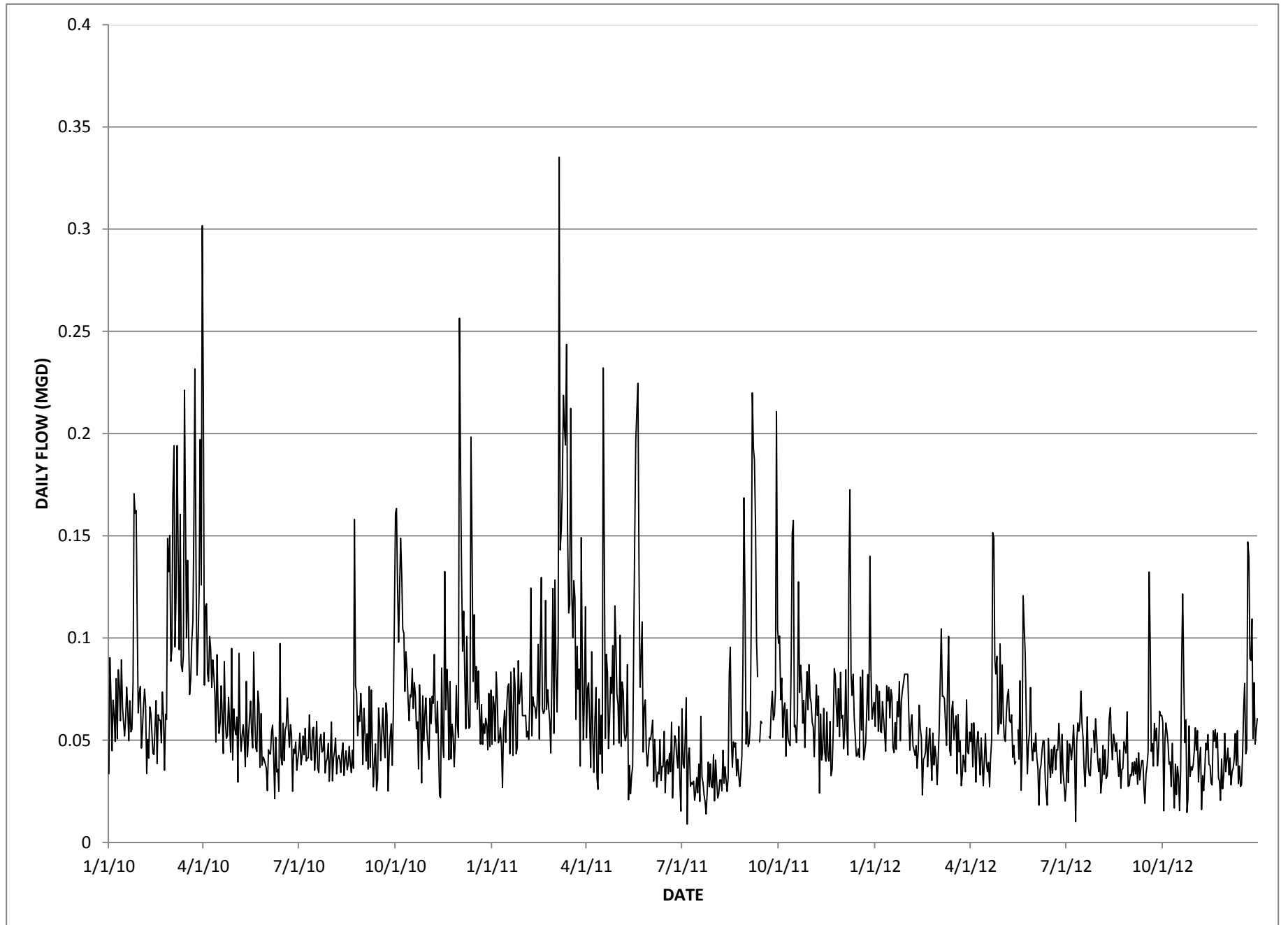
Sincerely,



Alan Tavenner, P.E.  
Senior Engineer

Enclosure

FIGURE 1. DAILY FLOW CHART 2010-12



**TABLE 1. PLANT SPDES DISCHARGE DATA (2010 - 2012)**

Sludge Hauled (Gallons)
4000
4000
4000
4000
8000
7250
7000
13300
8000
3000
3000
4000
4000
4000
12000
8000
8000
0
4000
4000
4000
0
4000
4000
4000
4000
12000
8000
8000
0
4000
4000
4000
0
4000
4000