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COUNTY OF ERIE

CHRIS COLLINS

COUNTY EXECUTIVE

January 5, 2011

The Honorable
Erie County Legislature
25 Delaware Avenue
Buffalo, New York 14202

**RE: Erie County Sewer District No. 8
Engineer Term Agreement – CHA
Work Order CHA-7**

Honorable Members:

Enclosed please find an accompanying memorandum from the Department of Environment and Planning pertaining to the Erie County Sewer District No. 8 Engineering Term Agreement Work Order: CHA – 7.

Should your Honorable Body require further information, I encourage you to contact the Department of Environment and Planning. Thank you for your consideration on this matter.

Sincerely,

Chris Collins
COUNTY EXECUTIVE

MEMORANDUM

To: Honorable Members of the Erie County Legislature
From: Environment and Planning
Re: Erie County Sewer District No. 8
Engineering Term Agreement
CHA – Work Order: CHA-7
Date: January 5, 2011

SUMMARY

The Erie County Legislature is requested to receive and file this communication pertaining to the Department of Environment and Planning's approval of a Work Order: CHA - 7 with CHA for Erie County Sewer District No. 8, in the amount of \$16,500.

FISCAL IMPLICATIONS

This will be no impact to the County's General Fund. The cost for the engineering work related to this communication will be paid from the Erie County Sewer District No. 8 capital account No. C.00071.

REASONS FOR RECOMMENDATION

CHA will provide a pilot study to eliminate the chlorination and dechlorination processes.

BACKGROUND INFORMATION

On November 29, 2007, the Erie County Legislature passed on a resolution authorizing a 3-year Term Agreement with CHA. At the time of the contract award, the Division of Sewerage Management committed to notifying the Honorable Legislature of Work Order issued.

The Term Agreement was approved to provide the Division of Sewerage Management with supplemental engineering services required to complete the study and design of various construction projects throughout the Erie County Sewer Districts. For this work, CHA will provide the Division of Sewerage Management with a pilot study for the use of peracetic acid for disinfection in lieu of sodium hypochlorite. If successful the chlorine residual will be obsolete.

CONSEQUENCES OF NEGATIVE ACTION

This is a receive and file item

STEPS TO FOLLOW APPROVAL

This is a receive and file item

COMPTROLLER'S OFFICE REVIEW

The proposed item has been reviewed by the Comptroller's Office and is related to an authorized capital project for which there are sufficient appropriations for the action proposed.

Signed Lorne H. Steinhart

Date 1/24/2011

Title Lorne Steinhart, Deputy Comptroller
COMPTROLLER'S OFFICE

MS


JEFFREY HART
Deputy County Executive

MAS
MAS:bs
Cc: Kathy Konst
M. Quinn/0.11.0.Legltr
M. Salah/S. Tirone/0.3.2.CHA(8-10)
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ERIE COUNTY SEWER DISTRICT NO.8
WORK ORDER NO.CHA - 7

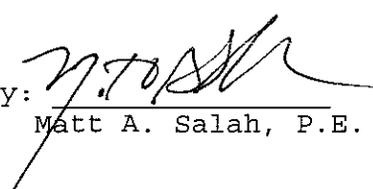
ENGINEER: CHA

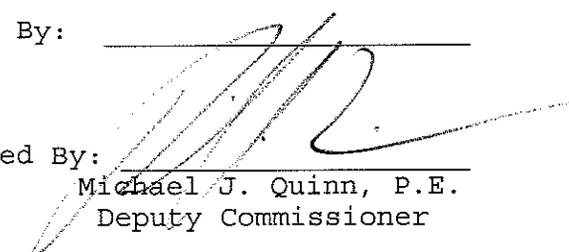
CONTRACT DATE: January 1, 2008

1. **Title of Proposal:**
East Aurora STP Peracetic Acid Pilot Study
2. **Name and Business Address of Proposer:**
CHA
2200 Main Place Tower
Buffalo, New York 14202-3722
(716) 847-6310 Fax (716) 847-0123
3. **Name, Title and Address of Principal Bearing Technical Responsibility:**
Frank A. DelSignore, P.E.
CHA
2200 Main Place Tower
Buffalo, New York 14202
(716) 847-6310
4. **Effective Dates of Proposal:**
January 5, 2011
5. **Brief Description of Work for Which Proposal is Submitted.**
The Engineer will provide an Engineer's Report to determine if Disinfection can be attained by the peracetic acid thus eliminating the chlorination and dechlorination processes.
6. **Engineering Cost:**
\$ 16,500.00 (cost plus fixed fee)
7. **Source of Funds:** Bond Account C.00071
8. **Project No.:** CHA-7
9. **Attachments:** CHA letter dated December 29, 2010 (3 pages)
10. **File:** 0.3.2.CHA 08/10

DATE: January 5, 2011

Accepted By: _____

Prepared By: 
Matt A. Salah, P.E.

Authorized By: 
Michael J. Quinn, P.E.
Deputy Commissioner

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December 29, 2010

Glenn H. Absolem, Jr.
Erie County Department of Environment and Planning
Southtowns Waste Water Treatment Plant
3690 Lake Shore Road
Buffalo, NY 14219

*Re: Erie County Department of Environment and Planning
Peracetic Acid Pilot Study*

Dear Mr. Absolem Jr.:

As discussed at our December 14, 2010 meeting, CHA is pleased to submit the following proposal for the evaluation of a three month pilot study for the use of peracetic acid (PAA) in lieu of sodium hypochlorite for disinfection at the East Aurora Wastewater Treatment Plant (WWTP).

I. PROJECT UNDERSTANDING

The Erie County Department of Environment and Planning (ECDEP) owns and operates a 3.1 million gallon per day (MGD) WWTP in the Village of East Aurora. The treatment facility is presently required to disinfect its effluent from May thru October prior to discharge into Cazenovia Creek. Disinfection is accomplished using sodium hypochlorite and the effluent is de-chlorinated after approximately seventy-five minutes of contact time.

In consideration of tentative New York State Department of Environmental Conservation (NYSDEC) regulations concerning the reduction and/or elimination of chlorine residual in WWTP effluent, the ECDEP has requested the evaluation of peracetic acid as a substitute for their present disinfection method using sodium hypochlorite.

It is proposed that a three month pilot study be performed at the East Aurora WWTP during the winter months to evaluate the advantages and disadvantages of peracetic acid as a primary disinfectant. On-site testing for total flow, fecal coliform, pH, BOD, disinfection by-products (DBP's), peracetic acid dosage, and detention time will be recorded. The testing intervals shall vary from daily, weekly or monthly depending on the results of the study. Other testing parameters may be added as agreed upon or suggested by CHA, FMC or ECDEP.

II. SCOPE OF SERVICES

CHA will complete the following tasks for the ECDEP to determine the advantages and disadvantages of the use of peracetic acid in lieu of sodium hypochlorite:

1. Attend a kickoff meeting to agree on PAA dosage testing parameters, sample points and pilot study duration.

2. Develop start-up testing procedures and frequency for conditioning the waste stream to PAA.
3. Coordinate and attend training for handling PAA to be conducted by FMC.
4. Prepare flow schematic with sampling points for the PAA pilot program.
5. Set up matrix for recording total plant flow, PAA dosage, PAA residual, detention time, fecal coliform, disinfection by-products (DBP's), pH, and BOD.
6. Make weekly site visits to review pilot plant data with ECDEP and make recommendations to improve PAA efficiency if needed.
7. Prepare monthly reports on the results of the pilot study.
8. Compare PAA results with existing data using sodium hypochlorite.
9. Submit draft copy of pilot plant study report, including technical and economical advantages and disadvantage of PAA as compared to sodium hypochlorite. This report shall also include CHA's recommendations on the use of peracetic acid at the East Aurora WWTP.
10. Review draft report with ECDEP for comments and revisions as appropriate.
11. Submit ten copies of the final report for acceptance by ECDEP.

If the PAA pilot study is successful at the East Aurora WWTP, CHA will assist the ECDEP in obtaining regulatory approval for use of PAA as their primary disinfectant with the NYSDEC as a future service. Please note that CHA is prepared to provide similar services for other PAA pilot programs ECDEP may wish to conduct at other facilities.

III. ASSUMPTIONS

- FMC Corporation, a local producer of peracetic acid, will provide the necessary chemical equipment, including a feed pump and piping for the duration of the study. Power will be supplied via existing plant electrical system.
- The cost of the chemical will be paid for by ECDEP directly to FMC Corporation.
- Costs of collection and lab testing of all samples will be paid for by FMC Corporation or ECDEP.
- FMC Corporation will provide the hazardous chemical training to the ECDEP staff.

IV. PROFESSIONAL FEE

For the Scope of Service described in this proposal, we propose to be compensated on an hourly basis in accordance with the terms and conditions of the present CHA Term Agreement with ECDEP with an estimated fee as follows:

Task 1 – Pilot Study	\$16,500
Total	\$16,500

The above includes all direct labor and sub consultant costs. ECDEP would be billed monthly based on the actual amount of work completed to date.



V. SCHEDULE

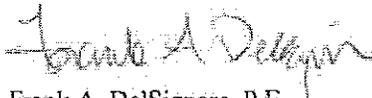
CHA is prepared to start work immediately upon ECDEP's authorization to proceed. The anticipated project schedule is as follows:

<u>Task</u>	<u>Anticipated Completion Date</u>
Pilot Study – Protocol Preparation and Field Work	within 12 weeks of Notice to Proceed
Pilot Study – Summary Report	within 16 weeks of Notice to Proceed

If this proposal meets with your approval please sign all three copies and return two executed copies to our office. The third copy is for your files.

We appreciate the opportunity to continue to work with you on this important project. Please do not hesitate to call the undersigned if you have any questions at 853-6137.

Sincerely,



Frank A. DelSignore, P.E.
Vice President

Executed by

ECDEP Representative

Date

