SIEMENS

December 27, 2007

Ari B. Pollack, Esq.
Gallagher, Callahan & Gartrell, PA
214 N. Main Street, PO Box 1415
Concord, New Hampshire 03302-1415

Re: Pruven Aggregates, Inc.

Dear Mr. Pollack:

Pruven Aggregates, Inc has asked that Siemens Water Technologies Corp. prepare an equipment and budgeting proposal for a water treatment system to filter and disinfect surface water withdrawals from the Bellamy River in Dover, New Hampshire.

In designing the proposed system, we received water sampling data from the Bellamy River obtained by Pruven. We also received a copy of correspondence from the New Hampshire Attorney General addressed to Ari B Pollack, Esquire dated May 31, 2007. Under the heading "Water Quality and Surface Water Treatment Requirements", the AG's letter references certain purification standards, filtration requirements and monitoring minimums for bottled water produced in New Hampshire.

To best comply with the recommended standards, Siemens has proposed that Pruven incorporate use of an ultraviolet disinfection system as a component of our Trimite Package Water Treatment System. Assuming this UV component is incorporated, the Trimite System can be designed to filter and disinfect water from the Bellamy River (assuming the samples are representative of water quality) to produce a system capable of meeting current US/EPA drinking water standards. Further, consistent with the AG's letter, Siemens likewise recommends post-installation monitoring and adjusting to confirm that the facility achieves the purification standards.

A number of Siemens systems are installed at drinking water plants around New Hampshire These systems achieve drinking water standards by incorporating disinfection as a part of the complete treatment process. The closest facilities to Concord are located in Salem (Canobie Lake), Laconia, Meredith, Wolfeboro and Woodsville, New Hampshire.

We look forward to working with you as you review Pruven's submissions In the meantime, we would encourage you to visit some of the Siemens treatment plants in the area to observe our technology in operation.

The Microfloc TriMite Packaged Water Treatment System utilize an upflow adsorption clarifier followed by a mixed media filter bed. Coagulant and or polymer is added to the unit which assists the adsorption clarifier in turbidity reduction. Once the adsorption clarifier reaches a set headloss, the system is stopped and the clarifier is flushed to waste using air and raw water. The mixed media filter further polishes the clarifier effluent and similarly when the headloss across the filter reaches a set headloss it is backwash with finished water and returned to service.

Please review this information and let me know if we can be of further assistance

Kind Regards

Richard Ross, PE
Technical Sales Manager-EAST

CC: Richard L. Proulx, Jr at Pruven Aggregates, Inc, Dave Lucey, Siemens Water Technologies

Siemens Water Technologies Corp. 100 Highpoint Drive, Suite 101 Chalfont, PA 18914 Tel: 215-712-7040 Fax: 215-996-1156

SIEMENS

November 29, 2007

Dover Sand and Gravel, Inc.
PO Box 85
Dover, NH03820
Attn: Mr. Ric Pruven

Reference: Dover Gravel WTS
Dover, NH
Equipment: ½TR-210A, TR-210A,
TM-350A, 2TM-350A
Quote #: 08PS4045MFM

Dear Mr. Pruven:

Per your request, we are pleased to present you with the following budget pricing for the above-referenced project. Since you requested several options for this application, this budget letter is arranged to provide budget pricing and information for each of four possible equipment solutions. ~~The four equipment solutions are the Trident package water treatment system in 350 and 700 gpm capacities, and~~ the Trimite package water treatment system in 350 and 700 gpm capacities.

This letter contains short descriptions of what is included with each system. Please refer to the drawings, technical sheets, and brochure that are included with this budget package for more information on each system.

Trident Package Water Treatment System

The Microfloc Trident system is a package water treatment system that provides the same water quality as conventional treatment plants at a fraction of the cost and size. Since its introduction in 1983, the Trident system has been installed in hundreds of facilities worldwide and has treated over 8 billion gallons of water. Trident systems require very little pre-engineering, but do require assembly at the job site. For more information on the Trident system, please see the brochure and technical data provided with this budget package.

The Trident Package Water Treatment System includes:

- Tanks finish painted inside and primed on the exterior
- Two chemical feed packages, normally alum and polyelectrolyte
- AQUARITROL III chemical dosage control system
- One effluent turbidimeter per tank
- Clarifier media retainer screens and holdowns
- Two blowers, one used for adsorption clarifier flush and both used for the filter backwash
- MULTIBLOCK filter underdrain system with Laser Shield™ direct media retention system
- Influent FIC control loop for each tank for operator adjustable set-point flow control
- all tank internals, including clarifier buoyant media and Mixed Media filter materials
- Automatic valves for influent flow control, effluent flow, backwash, air scour inlet and filter-to waste
- PLC for controlling filtering mode and backwash cycles
- Technical Direction and freight to within 1,005 miles of Ames, Iowa
- Siemens Water Technologies standard product offering and Terms and Conditions

Siemens Water Technologies Corp.
333 South Street, Suite 300
Shrewsbury, MA 01545-4197
Tel: 508-849-4600
Fax: 508-849-4601

The following is the budgetary pricing for the ½TR-210A and the TR-210A.

Unit	Capacity	Budget Price
½TR-210A	350 gpm	[redacted]
TR-210A	700 gpm	[redacted]

Price Additions:

- A streaming current monitor may be added for [redacted]
- A raw water turbidimeter (HACH 1720-E) may be added for [redacted]
- A Process Performance Guarantee may be added for [redacted] This includes 3 days and 1 trip of on-site service to conduct the test. For a Bonded Process Performance Guarantee consult factory.
- Additional service for training is available – consult factory.

Estimated Delivery: 12-14 weeks after receipt of approval drawings

Trimite Package Water Treatment System

The Microfloc Trimite package treatment plants are based on the original Trident technologies, but come fully pre-assembled and require very little pre-engineering or installation. These systems are perfect for new designs with future expansion in mind. The future additional tank would share the control panel, turbidimeter, blower and backwash pump of the first tank. Trimite systems include several components that are not included with the Trident system and come finish painted. Please see the included materials for more information.

The Trimite Package Water Treatment System includes:

- Adsorption clarifier and Mixed Media filter materials, shipped for field installation.
- Three chemical feed packages
- Automatic controls, including programmable controller and Basic AQUARITROL PLC program (for chemical dosage control)
- Electric Valves
- Effluent pump
- Backwash pump
- Motor starters
- Effluent turbidimeter
- Air blower, used for adsorption clarifier flush and for the filter backwash
- Technical Direction and freight to within 1,005 miles of Ames, Iowa
- Siemens Water Technologies standard product offering and Terms and Conditions.

The following is the budgetary pricing for the TM-350A and the 2TM-350A.

Unit	Capacity	Budget Price
TM-350A	350 gpm	[redacted]
2TM-350A	700 gpm	[redacted]

Price Additions:

- A Process Performance Guarantee may be added for [redacted] This includes 3 days and 1 trip of on-site service to conduct the test. For a Bonded Process Performance Guarantee consult factory.
- Additional service for training is available – consult factory.

Estimated Delivery: 12-14 weeks after receipt of approval drawings

Items Not Furnished by Siemens:

- Installation/supervision of equipment
- Unloading of equipment from delivering carrier
- Protected storage of equipment at jobsite
- All interconnecting piping
- Pipe supports and hangers
- All motor starters and disconnects
- All electrical wiring and conduit
- Finished water storage
- Plant operating and start-up lubricants
- Laboratory test equipment
- All items not specifically listed in this proposal
- Taxes, duties, etc.

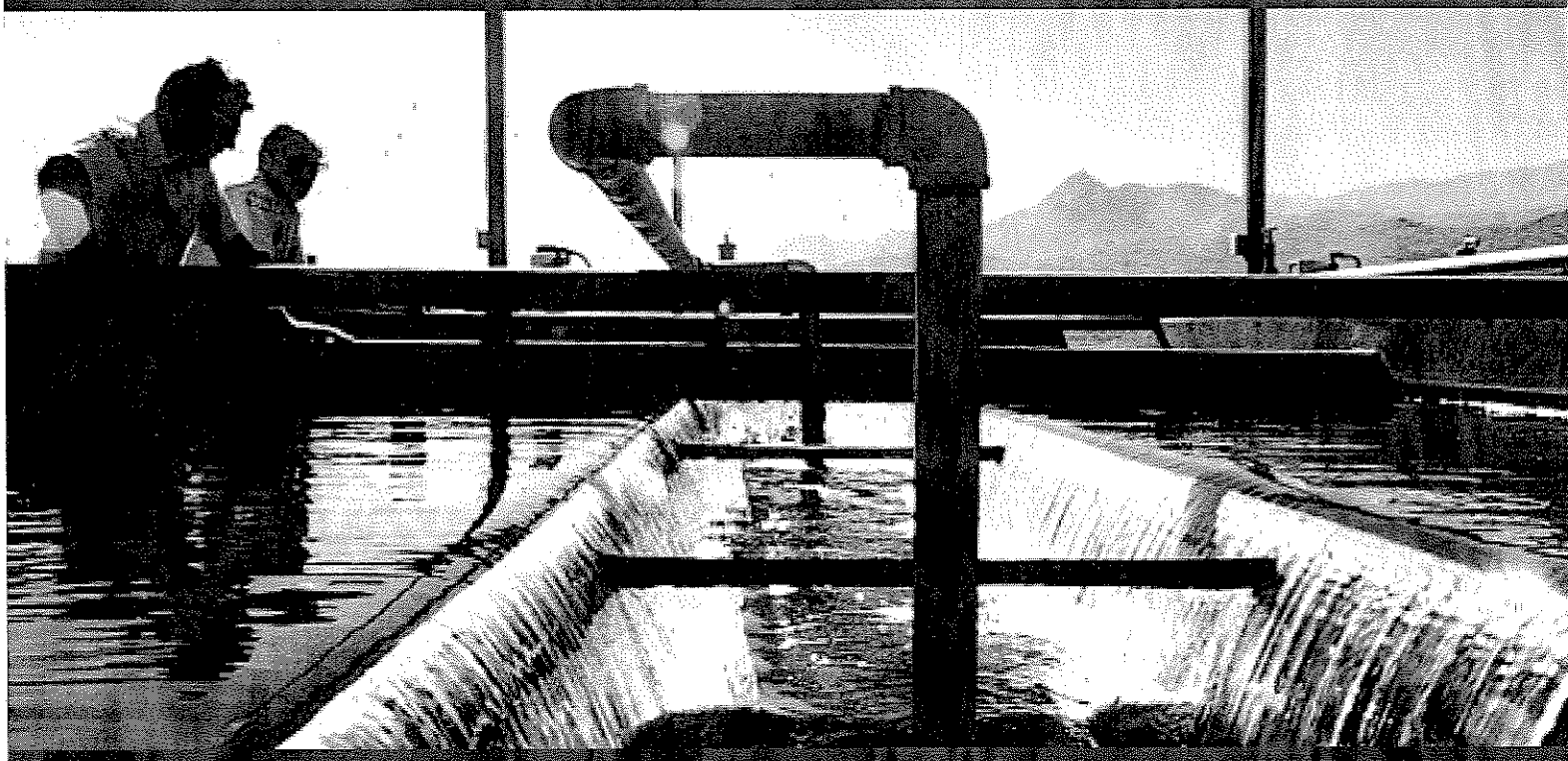
We appreciate the opportunity to serve you on this important project. Should you have any questions or require further information, please contact me at this office (508)849-4720.

Kind Regards,

David Lucey
Proposals Manager – East

Attachments: Installation lists, sales drawings, technical data sheets, and brochure.

cc: Ari B. Pollack, Esq., Gallagher, Callahan & Gartrell, PA
Michael Sullivan, David F. Sullivan & Associates, Inc.
Rich Ross, P.E., Siemens Water Technologies



USFilter

MICROFLOC® TRIDENT®

WATER TREATMENT

SYSTEMS.

THE INNOVATION

CONTINUES.

When Microfloc® Trident® technology was first introduced, it represented a significant advance in water and wastewater treatment. Not only did it remove turbidity, suspended solids, color, iron, manganese, odor, taste and parasites such as Giardia lamblia and Cryptosporidium, but it did so at a lower capital cost than conventional systems, in a smaller space and at higher flow rates per unit area. Today, more than 400 Trident technology systems, large and small, are at work all across North America and the world. Our Trident systems continue to evolve as we constantly strive to find ways to produce even higher quality treated water at higher flow rates per unit area and ways to further reduce installation and operating costs. Our development efforts focus on the three main elements of the Trident system: adsorption, clarification and filtration.

THE ADSORPTION CLARIFIER™ IS A TWO-IN-ONE TREATMENT PROCESS

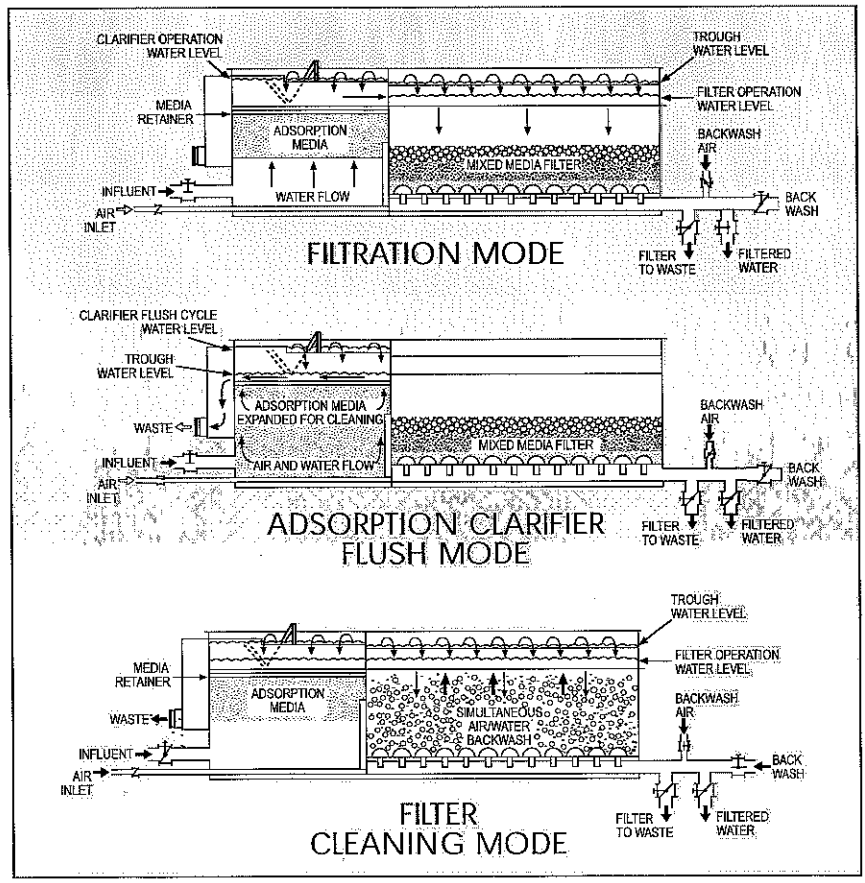
In the first stage of treatment, chemically dosed raw water enters the Adsorption Clarifier, where an upflow treatment process combines flocculation and clarification in a single unit occupying less than 20% of the floor space normally required for these functions in a conventional system.

This space – and cost – saving is made possible in part by the nature and placement of the adsorption media. Conventional clarifier systems and clarifiers with tube settlers or plate settlers, require a larger "footprint" to allow enough time for floc to settle. Instead, the Adsorption Clarifier uses special, naturally buoyant media which is rolled and scarified and held in place by a screen at the top of the clarifier tank. In normal operation, the natural buoyancy of the media and the upward process flow hold the media firmly in place against the top screen.

In many cases, especially if color or algae is the major treatment issue, Trident can use less coagulant and polymer than conventional settling type clarifiers, because with the Trident Adsorption Clarifier it is not necessary to form a settleable floc, which means settling time is not a factor.

If maintenance is required within the Adsorption Clarifier for any reason, access is easy. Just remove a top screen panel and temporarily float the clarifier media onto the filter for the maintenance period.

There are Adsorption Clarifier units designed to operate at flow rates that range from 5 to 15 gpm/ft^2, generally achieving turbidity removal levels of 75-95%. In pilot studies, Adsorption Clarifier units have performed satisfactorily at rates as high as 25 gpm/ft^2.

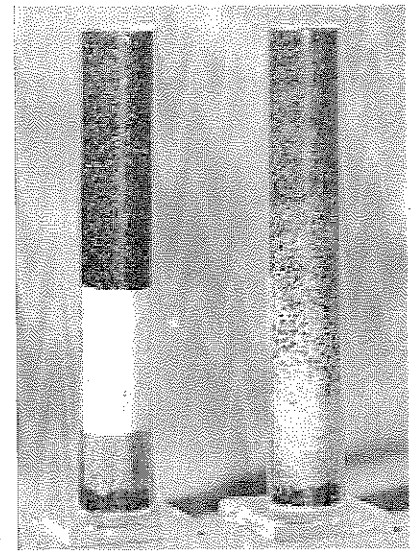


OUR NEW STANDARD IN FILTRATION: MIXED MEDIA AND THE MICROFLOC® TRITON™ UNDERDRAIN

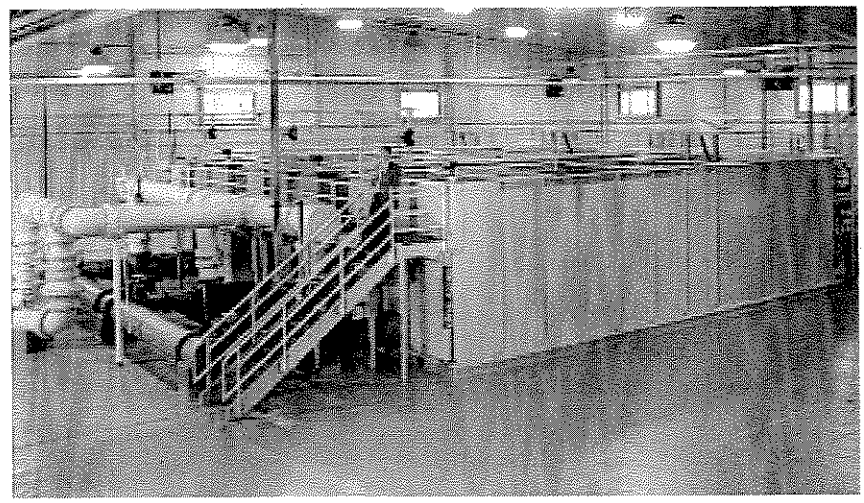
From the Adsorption Clarifier™, flow passes through the Trident Mixed Media filtration chamber, after which it is collected by our Microfloc® Triton underdrain. We pioneered Mixed Media technology, which has become the industry filtration standard. Now we have coupled it with our Triton direct retention underdrain, which affords all the benefits of simultaneous air/water backwash while eliminating the need for support gravel.

Our Mixed Media filter media design uses three or more granular materials of differing size and specific gravity layered to produce a filter that is coarse near the top of the bed and becomes progressively finer toward the bottom. Process flow is from the top down and solids removal is progressive throughout the entire bed depth. The bottom layer, being very fine, heavy-density media, creates superior quality finished water. Its fine particle and pore sizes are factors which contribute to the bed's excellent ability to resist breakthrough by *Cryptosporidium* and *Giardia lamblia*.

The approach of using progressively finer media from top to bottom is in accord with the filtration theory which holds that the removal efficiency of a filter depends upon the opportunity for particulates to attach to the surfaces of the filtration media grains. Using the Mixed Media design allows placement of a high specific surface area bed in a compact filter area. This "coarse to fine" design with high specific surface area ensures optimum particle capture for production of high-quality drinking water.

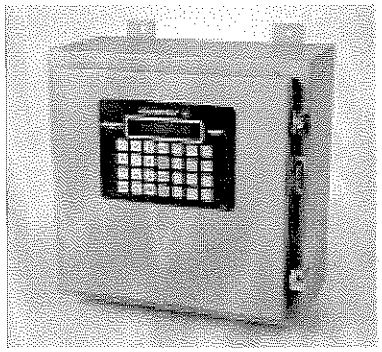


Downflow Mixed Media filtration uses differing materials to produce a filter which becomes progressively finer toward the bottom. Shown above left, as installed and at right, after backwash.



A 6 MGD capacity Trident pre-engineered system is installed in Laconia, New Hampshire.

MICROFLOC® AQUARITROL® III CONTROLS SYSTEM PERFORMANCE



The Aquaritrol III provides continuous control over chemical dosage to maintain a desired level of effluent turbidity even when raw water quality is rapidly changing.

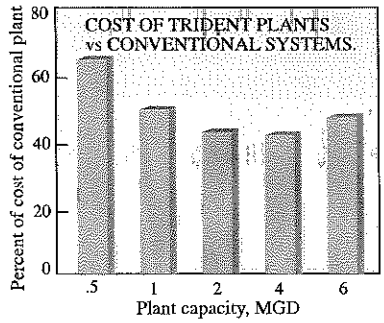
Changes in raw water characteristics and flow rate are automatically detected by our Microfloc® Aquaritrol® III solid state controller, which monitors filter effluent quality and continually evaluates and changes chemical feed to maintain desired (or preset) water quality parameters.

In the raw water version, the Aquaritrol III maintains specified effluent turbidity by controlling chemical dosage up or down based on departures from specified filter effluent turbidity (and, optionally, pH) setpoints and the rate of change in raw water turbidity versus time.

In the streaming current option, continuous monitoring of filter effluent turbidity permits selection of a streaming current set point that is continually readjusted to allow fast response to changing filter effluent water quality resulting from changes in raw water conditions. The streaming current version is also capable of controlling your Trident system based on filter effluent turbidity or streaming current alone. This redundant control system helps optimize the Aquaritrol III maintenance of preset effluent quality parameters.

Either version of the Microfloc Aquaritrol III can run your Trident system at optimum chemical costs for selected effluent quality parameters.

MICROFLOC® TRIDENT® TECHNOLOGY HAS BEEN APPLIED TO SYSTEMS UP TO 40 MGD



Compared to conventional treatment systems, the Trident systems can cut capital cost by 50% or more.

There are three basic configurations for the Microfloc® Trident® technology, based on required treatment capacity.

The smallest of these, the Microfloc® **Tri-Mite™**, is designed for flows from 50 to 700 gpm (0.072 to 1.0 MGD). These units are factory-assembled single tank systems ready to go. They take up limited floor space and are easy to install and operate.

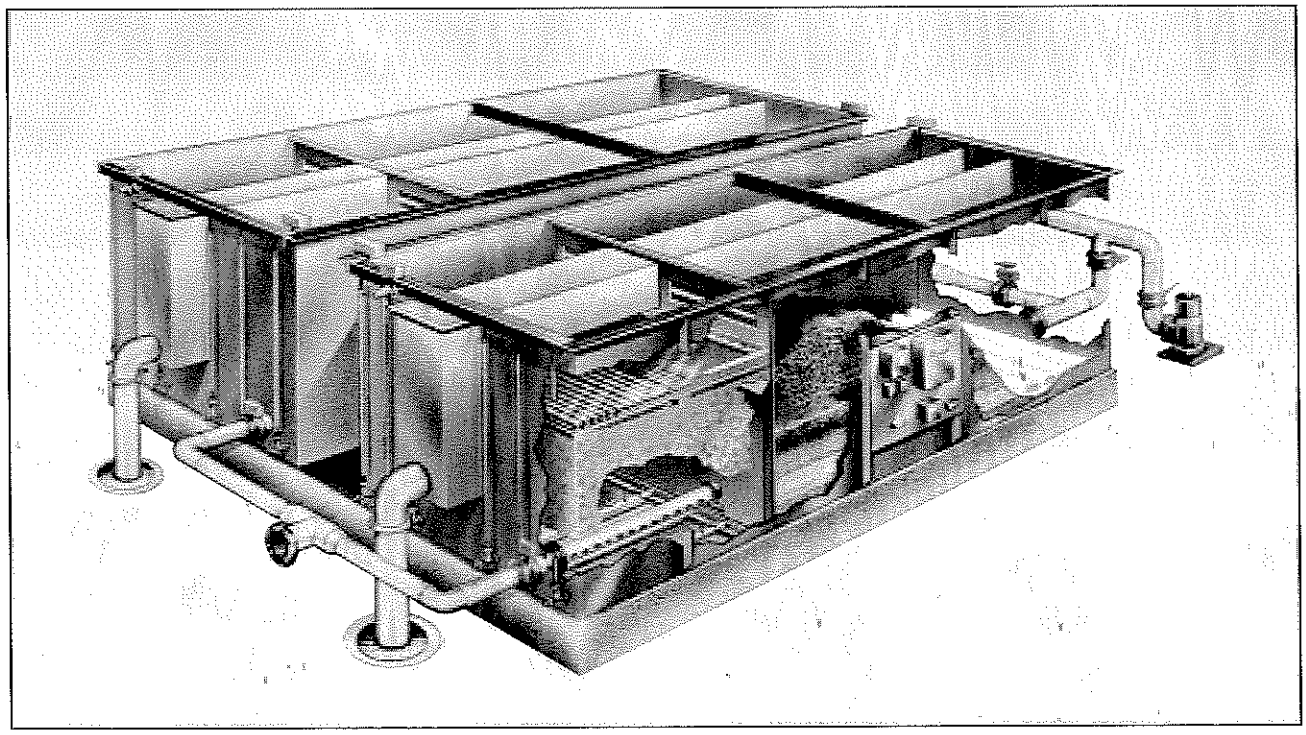
Our modular Microfloc® **Trident®** systems are used for flows from 350 gpm (0.5 MGD) and up. The largest single steel tank module can treat 2.0 MGD and can be shipped on an ordinary trailer truck. Shipping by truck allows each factory-built module to be sent direct to the job site, which simplifies and shortens on-site construction.

For larger capacities, our Microfloc® **Tricon™** design uses prefabricated Trident modules placed in economical concrete basins. Because it is modular, this design can accommodate any system capacity. Tricon can also be custom-designed for your exact needs, even for the largest of treatment capacities, whether you are designing a new plant or renovating an older one.

Before plant design work begins, we can perform a professional, on-site pilot study with our mobile pilot plant. Based on the findings, we can establish the chemical parameters and design requirements for a Trident system. Among the applications we can evaluate in such a pilot study are turbidity, algae, color, taste and odor removal, *Giardia lamblia* and *Cryptosporidium* removal, and iron and manganese removal. We can also use the pilot plant to assess the feasibility of tertiary wastewater treatment and industrial applications such as pre-treatment to RO, filtration, phosphorus reduction and boiler water pretreatment. We have performed hundreds of pilot studies and have an extensive database. After completion of a pilot study, we can offer a bonded process performance guarantee. In fact, in many cases after reviewing your detailed water analysis, we can design a Trident system and offer this performance guarantee without piloting. Ask us for details.

MICROFLOC® TRIDENT™ AND TRIDENT LP WATER SYSTEMS MEET YOUR NEEDS COST-EFFECTIVELY

Microfloc® Trident® systems are working in hundreds of water plants across the country, treating source waters with a wide range of influent conditions utilizing a variety of treatment solutions. The combination of our Adsorption Clarifier™ and Mixed Media filter delivers excellent finished water with predictable, cost-effective results. Now, we've further refined the Trident system to reduce its physical size and cost. The Microfloc Trident LP design offers cost savings while providing all the benefits of a Trident system for moderate quality (up to 30 NTU) raw water sources. Among the features in the new Trident LP line are lower overall tank height, a smaller foot print and incorporation of our Triton™ underdrain to increase the flow collection area and allow direct retention and air/water backwash of the filter media *without* support gravel.



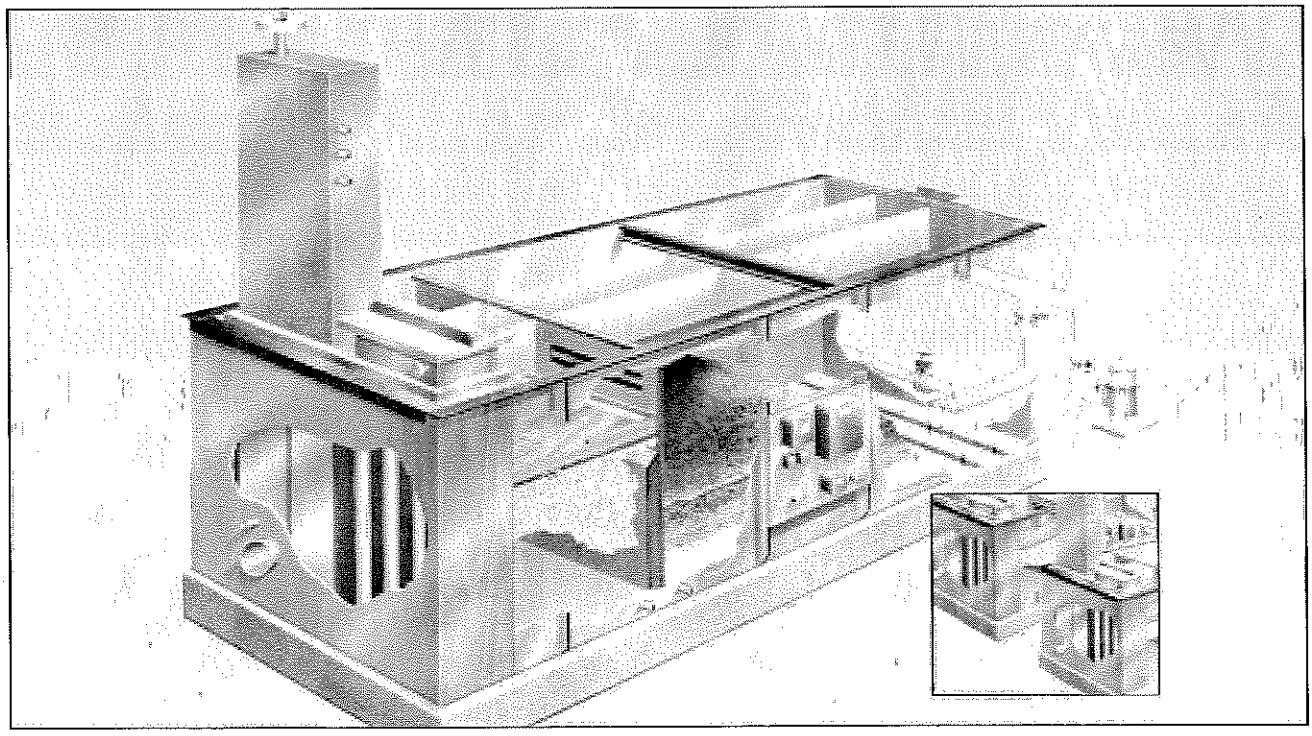
MODEL		TR-105A	TR-210A	TR-420A	TR-840A	TR-105-LP	TR-210-LP	TR-420-LP	TR-840-LP
Typical Design Flow	GPM*	350	700	1400	2800	350	700	1400	2800
Dimensions (each tank)	Length	10' 1"	14' 5 1/2"	27' 10"	39' 10"	9' 1"	12' 11 1/2"	24' 9"	35' 6"
	Width	6' 11"	8' 11"	8' 11"	11' 11"	6' 11"	8' 11"	8' 11"	11' 11"
	Height	8' 5"	8' 5"	8' 5"	10' 1"	7' 6"	7' 6"	7' 6"	8' 6"

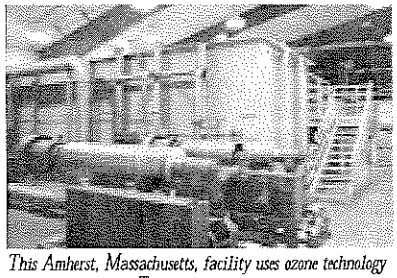
* Design flow is for a two-tank system. Being modular allows us to provide a (1 1/2) TR-210A to treat 1050 gpm with 3 tanks, or a (2) TR-840A for 5,600 gpm, etc.

MICROFLOC® TRIZONE™ PROVIDES CHLORINE-FREE PREOXIDATION

Our newest innovation, Microfloc® TriZone™, combines Trident technology with ozone in a compact, modular treatment plant. This new system produces quality treated water by using ozone in lieu of chlorine for preoxidation. This approach provides effective control for taste, color, odor, manganese and moderate levels of iron in surface waters. It prevents formation during pretreatment of halogenated compounds, such as trihalomethanes and haloacetic acids, and reduces overall chlorine demand. In so doing, it makes it easier to comply – now and into the future – with the Disinfection and Disinfection Byproducts Rule which makes chlorine undesirable for many oxidizing applications.

The integrated ozone-Trident combination – only slightly larger than the Trident LP unit alone – also saves space, allows control of all the process functions and, in some cases, improves coagulation. Ozone may also be generated for downstream disinfection.





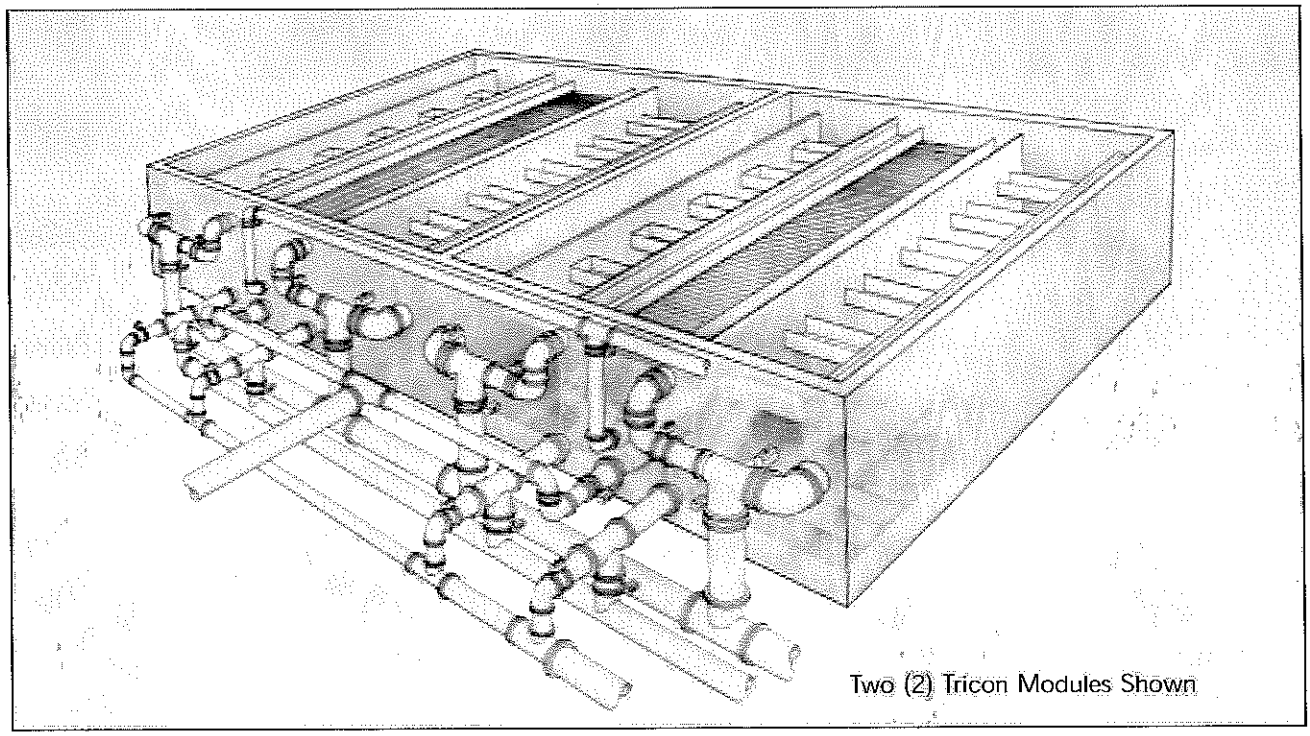
This Amherst, Massachusetts, facility uses ozone technology in conjunction with Trident plants.

	MODEL	TZ-105	TZ-210	TZ-420	TZ-840
Typical Design Flow	GPM*	350	700	1,400	2,800
Dimensions (each tank)	Length	10' 11½"	14' 10"	26' 7½"	38' 2½"
	Width	6' 11"	8' 11"	8' 11"	11' 11"
	Height	7' 6"	7' 6"	7' 6"	8' 6"
Ozone System	Capacity Range	0.5-3.0 mg/l	0.5-3.0 mg/l	0.5-3.0 mg/l	0.5-3.0 mg/l
	*Contactor Height	16' 0"	16' 0"	16' 0"	16' 0"

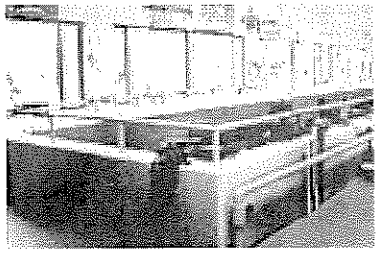
*Design flow is for a two-tank system. Being modular allows us to provide a (1½) TZ-210 to treat 1050 gpm with 3 tanks, or a (2) TZ-840 for 5,600 gpm, etc.

MICROFLOC® TRICON™ BRINGS TRIDENT® TECHNOLOGY TO LARGE CAPACITY SYSTEMS

The same high efficiency that makes our Microfloc® Trident units the choice of hundreds of customers for water systems in the 0.5 to 40 MGD range is available in systems of virtually any size. Called Tricon, it places factory-built Trident internals into concrete basins, producing an extremely effective – and economical – large capacity system. Stainless steel construction of insert module structural materials provides durability while eliminating costly and complex concrete forming, such as for troughs and headers. We can custom-design a Tricon system to serve your particular site or flow requirements.



Two (2) Tricon Modules Shown



Trident treatment modules are installed in concrete basins to create the Tricon – an economical solution to high-capacity treatment needs.

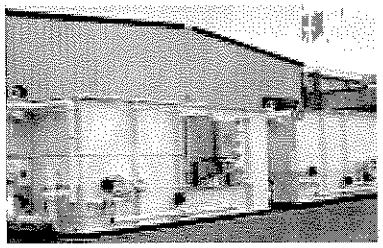
Model		CT-3	CT-4	CT-5	CT-6
Typical Design Flow	MGD*	3	4	5	6
Overall Dimensions (inside)	Length	20' 5"	27' 2½"	34' 0"	40' 10"
	Width	30' 7½"	30' 7½"	30' 7½"	30' 7½"
	Height	11' 2"	11' 2"	11' 2"	11' 2"
Insert Module	Width	10" 2½"	10" 2½"	10" 2½"	10" 2½"

* Single module design.

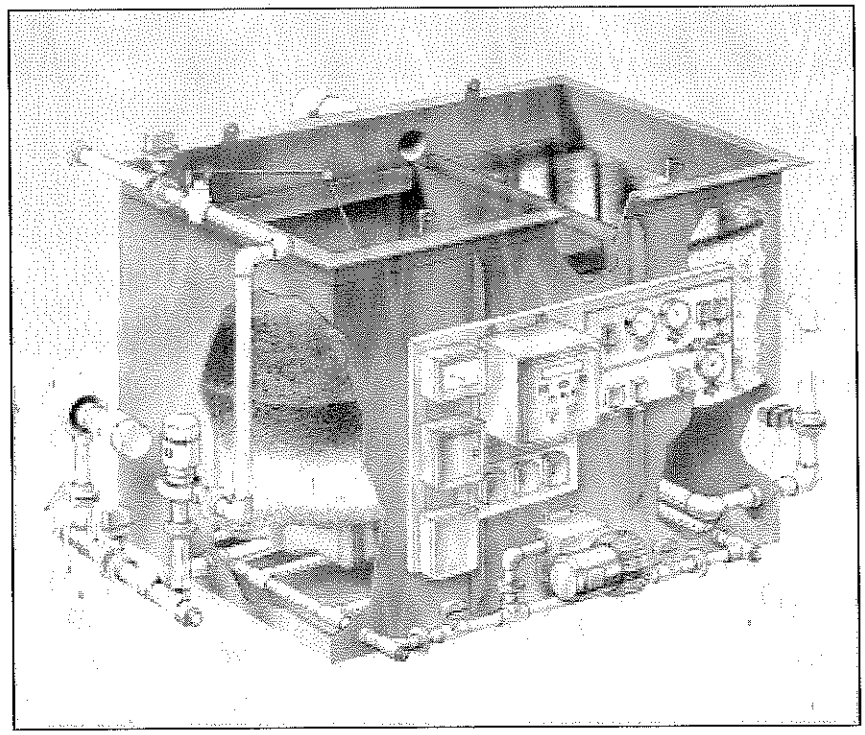
MICROFLOC® TRIMITE™: BIG PLANT

PERFORMANCE IN A SMALL WATER SYSTEM

The Microfloc® Trimite™ is factory assembled. The first stage is the Adsorption Clarifier™, which is designed to generally remove 75% to 95% of the raw water turbidity before sending the flow to the Mixed Media filter for finishing. The Trimite is available in five standard sizes as single units from 50 gpm to 350 gpm (0.072 MGD to 0.5 MGD) and as a two-unit system up to 700 gpm (1.0 MGD) capacity. For flows less than 50 gpm, a single unit can be operated on an intermittent or reduced flow basis. These systems are perfect for new designs with future expansion in mind. The future additional tank would share the control panel, turbidimeter, blower and backwash pump of the first tank. Options include streaming current monitor coagulation control and filter-to-waste valve and controls for use after filter backwash. Ask us for more details.



Two (2) TM-350 Trimite dual-unit systems are ready for shipment and installation.



MODEL		TM-50A	TM-75A	TM-100A	TM-175A	TM-350A
Typical Design Flow	GPM*	50	75	100	175	350
Shipping Dimensions	Length	9' 4"	9' 3"	10' 11"	13' 5"	22' 6"
	Width	6' 10"	8' 2"	8' 0"	10' 4"	10' 10"
	Height	9' 0"	9' 1"	8' 11"	9' 4"	9' 4"

*Single tank design

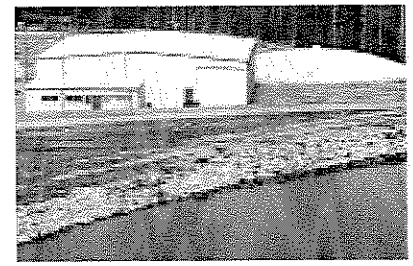
MICROFLOC® TRIDENT® SYSTEMS CAN HANDLE A WIDE RANGE OF APPLICATIONS

The combination of the Adsorption Clarifier™, Mixed Media filtration and gravel-free Triton™ air/water wash underdrains produces excellent water quality in a wide variety of applications and system sizes.

TURBIDITY REMOVAL

The Adsorption Clarifier is designed to generally remove 75-95% of the raw water turbidity – a level better than that of many conventional flocculation and settling processes – and Trident commonly produces finished drinking water with turbidity levels of 0.1 to 0.3 NTU, and if desired, can be adjusted to produce turbidity levels less than 0.1 NTU. By removing so much of the solids in the raw water, the Adsorption Clarifier extends the Mixed Media filter's run and increases overall net production.

Trident systems typically use alum and a polymeric flocculant or filter aid. Ferric salts, sodium aluminate or cationic polymers can also be used as a primary coagulant.



A 4 MGD Trident plant in Georgia produced 0.18 NTU effluent during an influent spike of 820 NTU.

IRON AND MANGANESE REDUCTION

Adsorption clarification of oxidized solids followed by Mixed Media filtration effectively reduces iron and manganese concentrations down to acceptable levels.

In many applications, direct filtration cannot economically treat surface water supplies with higher levels of these minerals because of its short run times. The Adsorption Clarifier removes a large percentage of solids, allowing longer filter runs in iron and manganese reduction applications.

In some iron and manganese reduction applications, the Adsorption Clarifier media must be cleaned periodically to prevent a reduction in its effectiveness that could otherwise occur over time. We have developed and implemented an effective procedure for use in such instances.

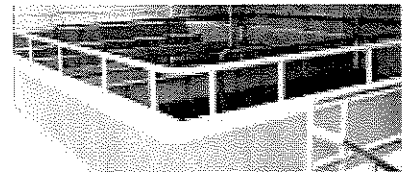
A 9.0 MGD Trident plant in Kokomo, Indiana, reduces iron and manganese levels.

GIARDIA LAMBLIA AND *CRYPTOSPORIDIUM* REMOVAL

Trident systems use coagulation, clarification and filtration to remove both of these troublesome parasites. Trident pilot studies have demonstrated that Trident can provide greater than 2.5-log removal, and, in some instances, as high as 4-log removal of *Cryptosporidium* and *Giardia lamblia* size particles.

COLOR REMOVAL

Organic color in surface waters is often caused by humic and fulvic acids which are best removed by precipitation with metal salt coagulants, like alum or ferric salts. The resulting lightweight floc is then quickly removed in the Trident process, which adsorbs and strains lightweight flocs in a rapid, upflow process. Conventional systems depend entirely on a slow, downward settling process.

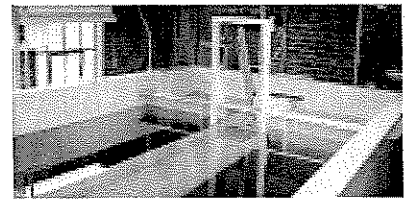


This Somersworth, N.H., Tricon™ plant treated river water to reduce color levels from an average of 100 color units to less than 5 color units, using only polymers as primary and secondary coagulants.

WASTEWATER REUSE & INDUSTRIAL APPLICATIONS

Reclaiming wastewater by conventional treatment systems is expensive in many applications. The efficiency of the Adsorption Clarifier and Mixed Media filter make tertiary wastewater filtration cost-effective.

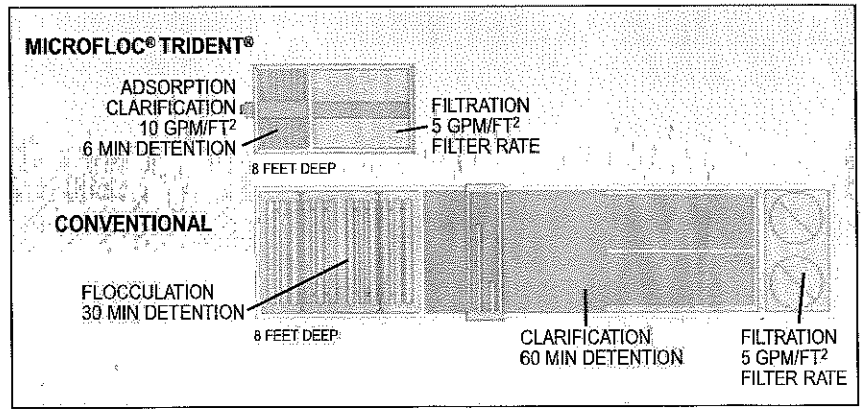
Trident technology can also cost-effectively perform boiler water pretreatment, process water treatment and phosphorus removal by alum precipitation.



By reducing river water's colloidal silica, a Trident system prevents excess plating of silica on turbine blades in a Pennsylvania power plant.

MORE TRIDENT SYSTEMS ARE AT WORK THAN EVER BEFORE

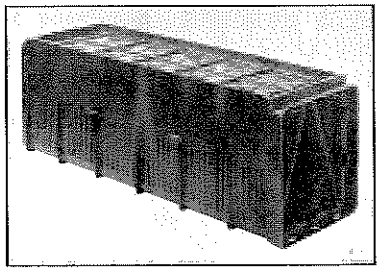
When water treatment systems are evaluated for efficiency, adaptability, ease of operation, initial and operating costs, and dependable performance results – Trident systems rise to the top. Look at how water plants incorporating Trident technology have dealt with all kinds of water quality and operating conditions. Ask about our Trident pilot plant program. Read our case histories describing how we've solved the very problems you may be facing. At the end of the day, we're confident that you'll look to the constantly improving Microfloc Trident family of technologies for high-quality, cost-effective water treatment.



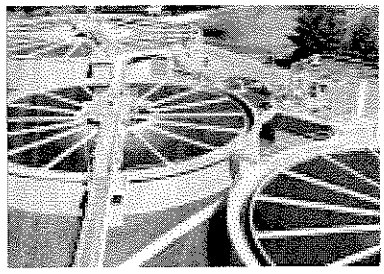
A Trident water system saves 82% of the floor space required by a 0.5 MGD conventional treatment system.

If it's in the water, our engineered processes and equipment can take it out, economically and dependably. Our comprehensive line includes solutions to simple and complex water treatment and conditioning needs, all backed by working installations and years of experience. Our line includes:

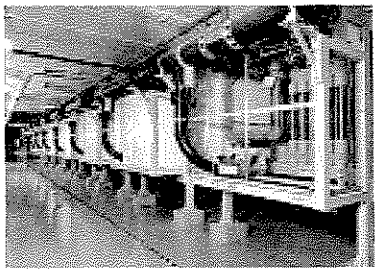
- Adsorption Clarifiers™
- CONTRAFLO® solids contact clarifiers
- SPIRACONE® sludge blanket clarifiers
- Sludge Sucker™ sludge removal system
- Sludge thickeners
- Vertical and horizontal pressure filters
- Aerators
- AERALATER® packaged treatment
- Microfloc® Trident® packaged water treatment
- MULTIWASH® Filtration Process
- Gravity filtration equipment
- MULTICRETE II™ monolithic underdrain system
- ESSD™ filter washtroughs and launder systems
- Memcor CMF Microfiltration System



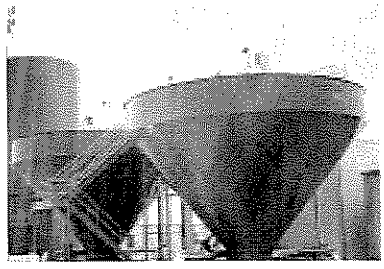
SCUBA underdrain system



CONTRAFLO



Memcor CMF Microfiltration system



SPIRACONE

USFilter products and processes for water and wastewater treatment are protected by patents issued and pending in the United States and other countries.

To find out more about how to put USFilter to work for you, contact us at

USFilter

Memcor, Microfloc, and
General Filter Products
600 Arrasmith Trail
Ames, IA 50010
515.232.4121 *phone*
515.232.2571 *fax*

441 Main Street
P.O. Box 36
Sturbridge, MA 01566
508.347.7344 *phone*
508.347.7049 *fax*

2118 Greenspring Drive
Second Floor
Timonium, MD 21093
1.800.MEMCOR4 phone
410.308.2944 *phone*
410.561.3017 *fax*

For more information, visit our web site at

www.water.usfilter.com

MF-TD-BR-0400

Ari Pollack

From: Ross, Richard R (WT) [Richard.Ross@siemens.com]
Sent: Thursday, December 20, 2007 1:47 PM
To: pruven@comcast.net; Ari Pollack
Cc: mikesullivan@davidfsullivan.com; Lucey, David (WT)
Subject: FW: Dover, NH UV system

Ric, Ari,

Mike Sullivan asked that I forward this information regarding the proposed UV system that would be included with the Trimite 2TM350 Packaged Treatment units

For Equipment List (Scope)

Ultraviolet Disinfection Unit: one (1) per tank, for placement in filtered water line, Siemens Water Technologies Wallace & Tiernan Barrier® M design. Includes flanged reaction chamber, medium pressure lamps, and control panel. Control panel includes ballasts in a painted steel NEMA 12 enclosure.

For the Specification under WORK INCLUDED add:

Final treatment of the filtered water shall be accomplished with an UV reactor designed to provide a minimum of 2.5 log inactivation credit for *cryptosporidium* and *giardia*.

For the Specification under PRODUCT add:

I. Ultraviolet Disinfection System

1. The effluent pipe from each treatment tank shall be fitted with an ultraviolet (UV) disinfection system. The UV system shall be self contained and include flanged connects as shown on the drawings.

2. The UV system operation shall be controlled by a dedicated control panel for each unit. The control panel shall be NEMA 12 painted steel construction. Each panel shall include alarms and lamp status indication.

3. Operation of the UV system will occur only while water is treated to effluent. The UV control panel shall be interconnected to the treatment unit control panel to control operation.

4. To ensure proper operation one or more UV sensors shall be mounted in the UV chamber. The sensor shall send a 4-20 mA signal to the UV control panel for indication of lamp status.

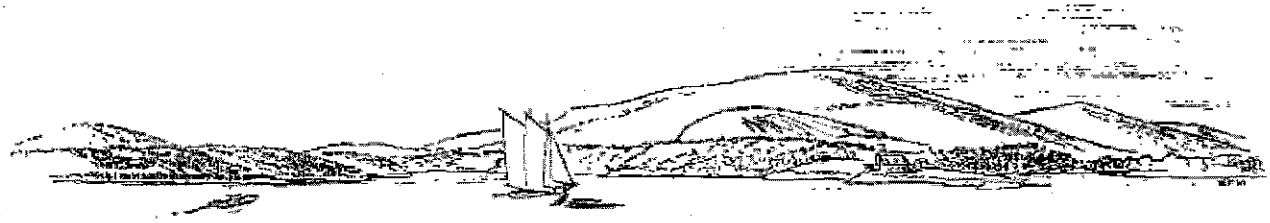
5. Sizing of the UV system shall be based on 90% UV transmittance.

6. UV system shall be Barrier® M as manufactured by Siemens Water Technologies Wallace & Tiernan.

Click here to see the Trident® HS system, the latest in package water treatment technology.

Regards,

Richard Ross, PE
Technical Sales Manager, East
Microfloc, & General Filter Products
Siemens Water Technologies Corporation
100 Highpoint Dr, .Suite 101
Chalfont, PA, 18914
email: Richard.Ross@siemens.com
phone: +1 (215) 712-7040
fax: +1 (215) 996-1156
Mobile: +1 (443) 255-5973
www.siemens.com/water



Sullivan Associates P.O. Box 514, E. Boothbay, ME 04544 207-633-3111 FAX # 207-633-7894

December 18, 2007

Mr. Richard Proulx
Pruven Concrete
Mast Road
Dover, NH 03820

REF: Request for Chlorination Cost Estimate

Dear Rick,

The following quotation covers equipment necessary for the storage – injection and control of Sodium Hypochlorite when used as a disinfectant on potable water. The quotation is based on our understanding of your proposed process and is subject to change as more information becomes available regarding pathogen removal requirements.

I will break down the proposal into 4 general categories:

Storage, Bulk and Day Tank
Chemical Feed
Residual Control
Instruments for Flow & Turbidity Measurement

Storage

1- 1000 Gal Capacity cross linked Polyethylene Double wall Storage tank with all required fittings.
Dimensions 6'5" OD x 6'7" Tall Price: $9,700.00
1- Force Flow "spill safe" Day Tank/ scale & secondary containment Price: $3,400.00
1- Transfer Pump Price: $1,500.00
1- Miscellaneous Piping & Labor for storage Price: $4,000.00

Chemical Feed

2 - Siemens/ Premia Metering Pumps and accessories, 0-5 GPH (or less if required by dose requirements) for Sodium Hypochlorite Price: $3,800.00

Residual Control

2 – ATI Free Residual Analyzers. Before storage – after storage.
($2,500.00 each) Price: $5,000.00
1 – Moore Industries Model 555 Compound loop residual controller.
Price: $1,800.00
1-4" Komax PVC Static Mixer Price: $1,200.00

Instruments for Flow and Turbidity Measurement

1 - Krohne 4" magnetic flowmeter. 150 lb connection and an

IFC 100 converter, Hard rubber liner, NSF approved. Price: $3,400.00

*If required ATI pH Monitors Price: $1,500 ea system

2- ATI A15/76-2-2-2 White light (EPA approved) turbidity monitor Price: $2,400.00

Red Lion Data Station Plus with G-310. Operator Interface terminal for data storage of all operating parameters and control of hypo system. Price: $4,400.00

Labor for System, Design, hardware layout, control logic, installation, startup, training, project management will be based on the final equipment requirements.

As mentioned earlier if Crypto and Giardia are issues for the disinfection system other disinfection products would be required. We will have that discussion at a later date.

For now, this list gives you a sense of what it will take to "dose" the river water with Hypo.

Yes, there are a few loose ends here but most of the major pieces of equipment are here.

Please let me know if we can help further.

Regards,

Peter Williams
President

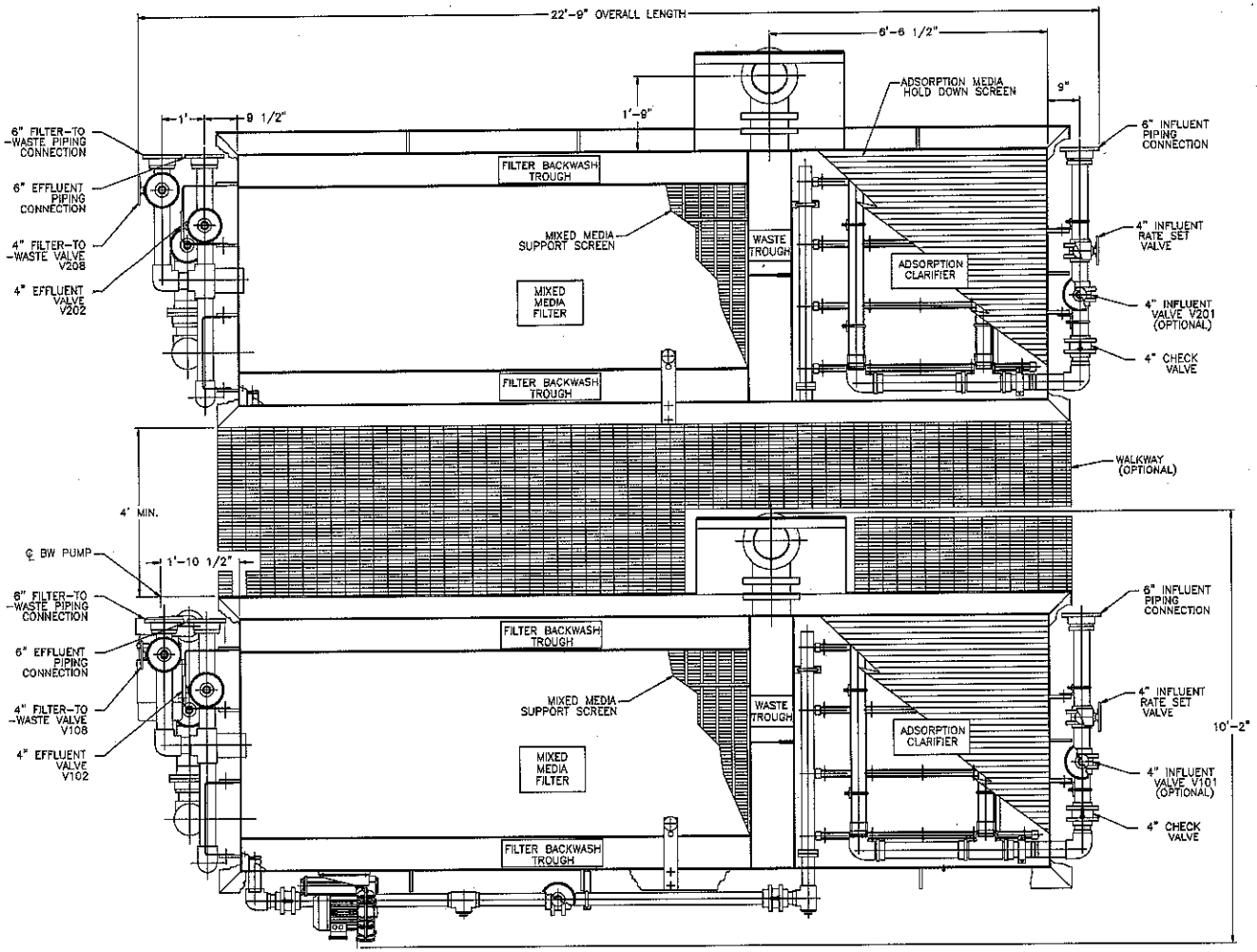
SIEMENS

TRIMITE™ - TECHNICAL DATA SHEET

TECHNICAL DATA	MODEL	TM-50A	TM-75A	TM-100A	TM-175A	TM-350A
Influent Flow Rate	GPM (GPD)	50 (72,000)	75 (108,000)	100 (144,000)	175 (252,000)	350 (504,000)
Shipping Dimensions	Length	8 ft. 10 in.	9 ft. 2 in.	10 ft. 11 in.	13 ft. 6 in.	22 ft. 9 in.
	Width	6 ft. 2 in.	7 ft. 11 in.	7 ft. 7 in.	9 ft. 9 in.	10 ft. 2 in.
	Height	9 ft. 0 in.	8 ft. 8 in.	8 ft. 6 in.	8 ft. 3 in.	8 ft. 3 in.
Tank Dimensions[8]	Length	7 ft. 1 in.	6 ft. 10 in.	8 ft. 10 in.	12 ft. 1 in.	21 ft. 3 in.
	Width	3 ft.5 in.	4 ft. 10 in.	4 ft. 10 in.	7 ft. 0 in.	8 ft. 9 in.
	Height	7 ft. 6 in.	7 ft. 6 in.	7 ft. 6 in.	7 ft. 6 in.	7 ft. 6 in.
Weights[11]	Shipping	6,000 lbs.	9,000 lbs.	12,000 lbs.	10,000 lbs.	16,000 lbs.
	Operating	10,500 lbs.	16,000 lbs.	21,000 lbs.	37,000 lbs.	74,000 lbs.
Base Pad Design		675 lbs/sq.ft.	675 lbs/sq.ft.	675 lbs/sq.ft.	675 lbs/sq.ft.	675 lbs/sq.ft.
Backwash Holding Tank	Volume	3,300 gal.	4,950 gal.	6,600 gal.	11,550 gal.	23,100 gal.
Overhead Clearance	Minimum	2 ft. 6 in.	2 ft. 6 in.	2 ft. 6 in.	2 ft. 6 in.	2 ft. 6 in.
Tank Connections	Influent	2 in.	3 in.	3 in.	4 in.	6 in.
	Effluent	2 in.	3 in.	3 in.	4 in.	6 in.
	Backwash	3 in.	3 in.	3 in.	6 in.	6 in.
	Waste/Overflow	4 in.	6 in.	6 in.	8 in.	10 in.
	Filter-to-Waste	2 in.	3 in.	3 in.	4 in.	6 in.
	Air Wash (clarifier)	1 ½ in.	2 in.	2 in.	2 in.	3 in.
	Air Wash (filter)	1 ½ in.	2 in.	2 in.	2 in.	3 in.
Automatic Valve Sizes	Influent	2 in.	3 in.	3 in.	4 in.	4 in
	Effluent	2 in.	3 in.	3 in.	4 in.	4 in.
	Backwash	3 in.	3 in.	3 in.	6 in.	6 in.
	Filter-to-Waste	2 in.	3 in.	3 in.	4 in.	4 in.
	Waste	4 in.	6 in.	6 in.	8 in.	10 in.
	Air Wash Control (clarifier)	1½ in.	2 in.	2 in.	2 in.	3 in.
	Air Wash Control (filter)	1 ½ in.	2 in.	2 in.	2 in.	3 in.
Manual Valve Sizes	Influent Rate Setting	2 in.	3 in.	3 in.	4 in.	4 in.
	Backwash Rate Control	3 in.	3 in.	3 in.	6 in.	6 in.
Adsorption Clarifier™	Total Area	5.0 sq.ft.	7.5 sq.ft.	10.0 sq.ft.	17.5 sq.ft.	35.0 sq.ft.
	Upflow Rate	10 gpm/sq.ft.	10 gpm/sq.ft.	10 gpm/sq.ft.	10 gpm/sq.ft.	10 gpm/sq.ft.
Mixed Media Filter	Total Area	10.0 sq.ft.	15.0 sq.ft.	20.0 sq.ft.	35.0 sq.ft.	70.0 sq.ft.
	Rate	5 gpm/sq.ft.	5 gpm/sq.ft.	5 gpm/sq.ft.	5 gpm/sq.ft.	5 gpm/sq.ft.
	Standard Backwash Rate	15 gpm/sq.ft.	15 gpm/sq.ft.	15 gpm/sq.ft.	15 gpm/sq.ft.	15 gpm/sq.ft.
Total Volume per Wash Cycle	Adsorption Clarifier[2]	500 gal.	750 gal.	1,000 gal.	1,750 gal.	3,500 gal.
	Mixed Media[1]	900 gal.	1,350 gal.	1,800 gal.	3,150 gal.	6,300 gal.
	Filter-to-Waste[14]	250 gal.	375 gal.	500 gal.	875 gal.	1,750 gal.
Pumps	Effluent	50 gpm, 1 hp, 1Ø	75 gpm, 1-½ hp, 1Ø	100 gpm, 3 hp, 1Ø	175 gpm, 5 hp, 3Ø	350 gpm, 7.5 hp, 3Ø
	Backwash	180 gpm, 5 hp, 1Ø	285 gpm, 5 hp, 3Ø	360 gpm, 10 hp, 3Ø	650 gpm, 15 hp, 3Ø	1,050 gpm, 20 hp, 3Ø
Blower		22 scfm, 0.75 hp 3.1 psig, 1Ø	32 scfm, 1.5 hp 3.2 psig, 1Ø	50 scfm, 1.5 hp 3.2 psig, 1Ø	90 scfm, 4 hp 3.6 psig, 3Ø	200 scfm, 7.5 hp 3.4 psig, 3Ø
Process Components Chemical Feed	Coagulant System	50 gal. tank	50 gal. tank	100 gal. tank	100 gal. tank	200 gal. tank
		31.2 gpd pump	48 gpf pump	96 gpd pump	108 gpd pump	216 gpd pump
		1/20 hp mixer	1/20 hp mixer	¼ hp mixer	¼ hp mixer	1/4 hp mixer
	Polyelectrolyte System	30 gal. tank	30 gal. tank	50 gal. tank	100 gal. tank	100 gal. tank
		18 gpd pump	24 gal. pump	31.2 gal. pump	60 gpd pump	108 gpd pump
		1/20 hp mixer	1/20 hp mixer	1/20 hp mixer	¼ hp mixer	¼ hp mixer
	Other Chemical System	30 gal. tank	30 gal. tank	30 gal. tank	50 gal. tank	100 gal. tank
		10 gpd pump	14 gpd pump	24 gpd pump	38.4 gpd pump	96 gpd pump
		1/20 hp mixer	1/20 hp mixer	1/20 hp mixer	1/20 hp mixer	¼ hp mixer
Electrical	Power Panel	120/240V, 60 Hz 1Ø, 3 wire, 60A	120/240V, 60 Hz 3Ø, 4 wire, 60A	120/240V, 60 Hz 3Ø, 4 wire, 60A	230/460V, 60 Hz 3Ø, 4 wire, 60A	230/460V, 60 Hz 3Ø, 4 wire, 80A

NOTES:

1. Mixed Media backwash rate shown above is 15 gpm/ft^2 as required at 60° F. Required rate varies linearly with temperature from 10 gpm/ft^2 at 32.° F to 18 gpm/ft^2 at 75° F. Wash volumes indicated above are based on a 6-minute backwash duration.
2. The Adsorption Clarifier™ is normally washed (using influent water) one or more times between Mixed Media backwashes, as well as in sequence with a Mixed Media backwash. The waste holding system should be sized to handle a total of two complete wash volumes from each compartment. The Adsorption Clarifier wash volume indicated above is based on an 10-minute total wash flush.
3. The influent pumping system should provide a range of 25-35 ft. at the plant inlet.
4. Available materials of tank construction include painted carbon steel, aluminum or 304SS. Process piping is PVC.
5. The second unit in a two-tank configuration shares the controls, backwash pump, air blower, and chemical feed systems from the first unit.
6. Standard start-up and operator training requirements are 3 days in one trip to the jobsite for the TM-50A, TM-75A and T-100A models. TM-175A and TM-350A standard start-up and operator training requirements are 4 days in one trip to the jobsite. Add one additional day for two-unit configurations.
7. Effluent/backwash pumps are approximately 30-40 feet TDH. Our effluent requirements are approximately 10 feet TDH. Our backwash requirements are approximately 20 feet TDH.
8. Dimensions do not include waste box.
9. All controls are automatic.
10. All valves are electric.
11. Media is shipped separately on the TM-175A and TM-350A.
12. Design flows based on clarifier loading rate of 10 gpm/ft^2 and filter loading rate of 5 gpm/ft^2
13. Chemical feed systems are include which provide 24 hours storage of alum, caustic and polymer solutions with capability to fee 50 mg/L alum (12% solution), 40 mg/L caustic (25% solution) and 0.5 mg/L polymer (0.25% solution).
14. Filter-to-waste is the last step in the backwash sequence. The wash volume indicated above is based on an 5-minute total filter-to-waste wash.



PLAN VIEW

NOTES:

1. REFER TO SEPARATE EQUIPMENT LIST FOR ITEMS FURNISHED. THREE CHEMICAL FEED SYSTEMS ARE INCLUDED BUT NOT SHOWN FOR CLARITY.
2. REFER TO TRI-MITE TECHNICAL DATA SHEET FOR WEIGHTS, CLEARANCES, POWER REQUIREMENTS, ETC.
3. PLANT CONTROLLER IS PROVIDED WITH A CONTACT TO START AND STOP A CUSTOMER FURNISHED RAW WATER PUMP. IF SUPPLY IS BY GRAVITY, THE SAME CONTACT MAY BE USED TO ENERGIZE A CUSTOMER FURNISHED REMOTE SHUT-OFF VALVE. THIS VALVE AND/OR PUMP CAN BE FURNISHED ON THE EQUIPMENT LIST AS AN OPTION.
4. THE ELECTRONIC CONTROLLER IS DESIGNED TO OPERATE THE TRI-MITE BY CUSTOMER FURNISHED LEVEL SWITCHES LOCATED IN THE CUSTOMERS CLEAN WATER STORAGE TANK. CONTACTS ON THE LEVEL SWITCHES SHOULD OPEN ON LOW LEVEL AND CLOSE ON HIGH LEVEL.
5. THE CLEAN WATER STORAGE TANK SHOULD BE EQUIPPED WITH A CUSTOMER FURNISHED LEVEL SWITCH FOR BACKWASH PUMP PROTECTION. CONTACTS SHOULD OPEN WHEN THE WATER LEVEL IS LOWER THAN 6" VERTICALLY ABOVE THE SUCTION POINT AND CLOSE ON RISING LEVEL.
6. A CUSTOMER FURNISHED SHUT-OFF VALVE IS RECOMMENDED IN THE BACKWASH SUCTION LINE AT THE CLEAN WATER STORAGE TANK.
7. THE RAW WATER INFLUENT PUMP SHOULD PROVIDE A RANGE OF 25-35 FEET OF HEAD AT THE PLANT INLET.
8. LOCATION DIMENSIONS FOR THE INFLUENT, EFFLUENT, AND BACKWASH CONNECTIONS ARE APPROXIMATE AND FOR REFERENCE ONLY.
9. FOR DUAL TANK APPLICATIONS OR GRAVITY SUPPLY, EACH TANK SHALL BE EQUIPPED WITH AUTOMATICALLY OPERATED INFLUENT SHUT-OFF VALVES.
10. FOR APPLICATIONS WHERE HIGH QUANTITIES OF SAND AND GRIT ARE PRESENT IN THE WATER, A CYCLONE SEPARATOR IS RECOMMENDED.

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	REVISED DRAWING TO LATEST STANDARDS	5/05	SJT			

	DATE
DESIGNER: SJT	5/05
CHECKER	--
ENGINEER	--
MANAGER	--
FILE:	
SCALE: NTS	

TITLE: TRIMITE PACKAGED WATER PLANT
2TM-350A GENERAL ARRANGEMENT

CLIENT: --

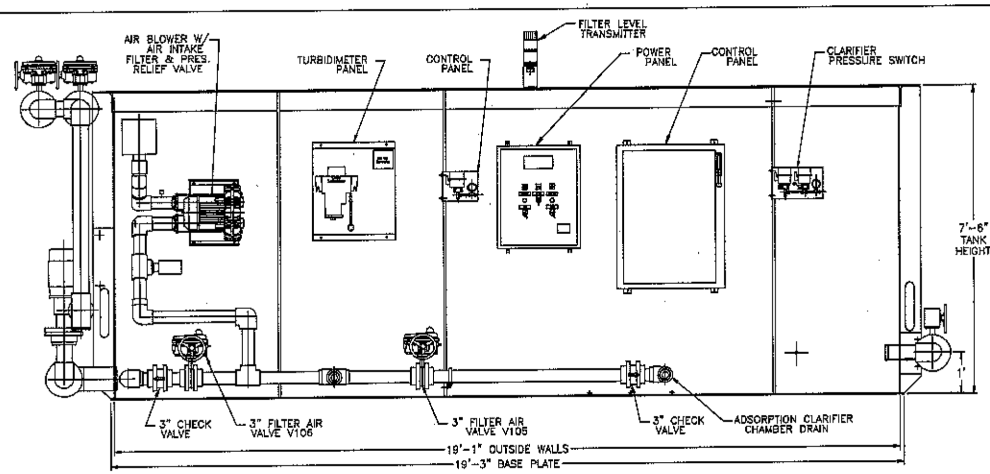
SIEMENS
Water Technologies
Shrewsbury, MA
1-800-547-1202

PROJECT	CODE	DRAWING	SHEET	REV
		M2265	1 OF 2	C

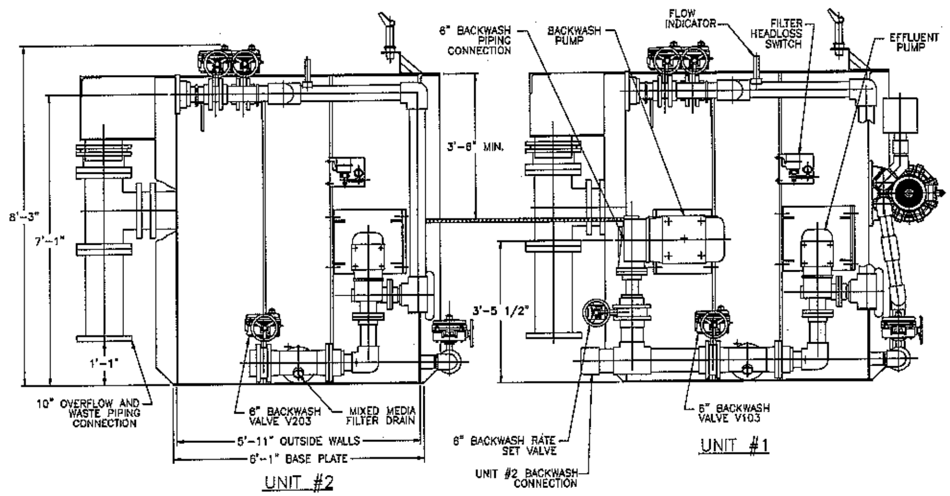
FILE NAME: [illegible]

STD: BORDER-1101-11X17B | INTL REF: | 1"=1" AT PLOT SCALE

STD: BORDER-1101-11X17B | INTL REF: | = 1" AT PLOT SCALE



SIDE ELEVATION



FILTER END ELEVATION

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	SEE SHEET ONE					

DESIGNER	DATE
SJT	5/05
CHECKER	DATE –
ENGINEER	DATE –
MANAGER	DATE –
FILE:	
SCALE: NTS	

TITLE
TRIMITE PACKAGED WATER PLANT
2TM-350A GENERAL ARRANGEMENT

CLIENT –
–

SIEMENS

Water Technologies
Shrewsbury, MA
1-800-547-1202

PROJECT	CODE	DRAWING	SHEET	REV
		M2266	2 OF 2	C

OPERATIONS SPECS & EXPENSES

SIEMENS

Project Name	Dover Sand & Gravel WTS
Proposal #	08PS4045MFM
Revision #	6
Date	November 30, 2007

MICROFLOC

General

Trident/Trimite Unit Selection		
Desired Unit	TM-350A	
Number of Units Selected	1	
Suggested Units Required	1.0	

Operational Characteristics		
Desired Instantaneous Influent Flow	350	gpm
Nominal Influent Flow	350	gpm
Estimated Net Production	339	gpm
Estimated Net Production	96.9%	percent
Percent of Time System is In Operation Daily	100%	percent
Clarifier Wash Frequency	24	hr
Clarifier Wash Duration	15	min
Filter Backwash Frequency	30	hr
Filter Backwash Duration	8	min

Waste

Coagulated Suspended Solids		
Raw SS	8.2	ppm
Alum	14	ppm
$FeCl_3$	0	ppm
PACl	0	ppm
$KMnO_4$	0	ppm
PAC	0.5	ppm
Other (as precipitated solids)	0	ppm
Total Coagulated SS	12.9	ppm

Sludge Production		
Total Solids per Day	54	lbs
Volume per Day	8,218	gal/day
Concentration	791	ppm
Concentration	0.08%	% by weight

Chemical and Energy Costs		
Total Cost per Day	$27.64	
Cost per 1000 gallons	$0.05	

Chemical and Energy Life Cycle Costs		
Expected Project Life	20	years
Interest Rate	5.0%	percent
Present Worth	$125,717	

Energy

Power Costs		
Total Power Required for all Units	136.5	kwh/day
Electricity Cost	$0.10	$/kwh
Energy Cost per Day	$13.65	$/day

Disclaimer: This summary represents a preliminary operational cost estimate based on limited information. It does not constitute a guarantee.

SIEMENS

Project Name	Dover Sand & Gravel WTS
Proposal #	08PS4045MFM
Revision #	0
Date	November 30, 2007

MICROFLOC

Chemicals & Dosing Pump

	Alum	Cat. Poly	PACl	$FeCL_3$	Soda Ash	Caustic Soda	$KMnO_4$
Use Chemical?	Yes	No	No	No	Yes	No	No
Manufacturer	Holland	EC-461	SternPAC	--	--	--	--
Basis	Liquid	Liquid	Liquid	Liquid	Dry	Liquid	Dry
Activity	0.48	1	0.33	0.4	1	0.5	1
Specific Gravity	1.33	1.2	1.203	1.42	1	1.53	1
Cost per Gallon	$0.62	$9.01	$3.51	$6.79	--	$2.81	--
Cost per Pound	$0.06	$0.90	$0.35	$0.57	$0.20	$0.22	$1.25
PPM	14	1	20	20	5	5	5
Cost per Day	$6.84	$0.00	$0.00	$0.00	$4.21	$0.00	$0.00
Days Between Chemical Tank Fill	2.0	1.0	1.0	1.0	1.0	1.0	1.0
Volume Used per Day, gal	282.2	0.0	0.0	0.0	100.9	0.0	0.0
Volume of Tank Needed, gal	564.5	0.0	0.0	0.0	100.9	0.0	0.0
Required Flowrate of Dosing Pump, gal/hr	11.76	0.00	0.00	0.00	4.20	0.00	0.00

	NaOCl	Filt. Aid Poly	P.A.C.	H_2SO_4	Other	Other
Use Chemical?	No	Yes	Yes	No	No	No
Manufacturer	--	Cytec 985N	--	--	--	--
Basis	Liquid	Dry	Dry	Liquid	Liquid	Dry
Activity	0.15	1	1	0.932	1	1
Specific Gravity	1.21	1	1	1.8	1	1
Cost per Gallon	$2.22	--	--	$9.46	$8.34	--
Cost per Pound	$0.22	$2.50	$0.40	$0.63	$1.00	$1.00
PPM	5	0.2	0.5	5	1	1
Cost per Day	$0.00	$2.10	$0.84	$0.00	$0.00	$0.00
Days Between Chemical Tank Fill	1.0	1.0	1.0	1.0	1.0	1.0
Volume Used per Day, gal	0.0	10.1	25.2	0.0	0.0	0.0
Volume of Tank Needed, gal	0.0	10.1	25.2	0.0	0.0	0.0
Required Flowrate of Dosing Pump, gal/hr	0.00	0.42	1.05	0.00	0.00	0.00

Total Chemical Cost per Day $13.99

Disclaimer: This summary represents a preliminary operational cost estimate based on limited information. It does not constitute a guarantee.

PROJECT	CONTACT	LOCATION	STATE	ZIP	PHONE	JOB NUMBER	EQUIPMENT	DATE
Cochane, AB		Cochane, AB	AB				TM-350A	
Cochrane			AB			506506	TM-350A	Mar-92
Eden Valley, AB		Eden Valley	AB				TM-100A	
Elm Springs, AB		Elm Springs	AB				TM-50	
Hamlet of Patricia	*Cody Morris	Brooks	AB		403-378-4613	506680	TM-75A	2/6/1995
Lake McGregor Country Estates		Calgary	AB			506506	TM350A	
Niemben River, SK		Niemben River	AB				TM-75A	
Patricia, AB		Patricia	AB				TM-75A	
Red Earth Band WTP			AB			506418	TM-100A	Dec-91
Red Earth, AB		Red Earth	AB				TM-100	
Sucker Creek Indian Band	Chief Badger	Enilda	AB	T0G 0W0	403-523-4426	506505	TM-175A	Mar-92
Sucker Creek, AB		Sucker Creek	AB				TM-175A	
Coffman Cove	Kurt Z. Egelhofer, P.E.	Coffman Cove	AK		907-269-7601	52001377	TM350A w/extensive controls	3/22/1999
Ketchikan Pulp Co.	*George Ohashi	Ketchikan	AK	99901	907-225-2151	52000627	TM-100A	6/24/1996
Cushman WTP	*Don Riley	Cushman	AR	72526	501-793-7280	506636	TM-175A (2)	8/19/1994
Evening Shade WTP	*Harold Sitze	Evening Shade	AR	72532	501-266-3833	52000514	TM-175A (2)	3/5/1996
Mockingbird Hill Water Assoc.		Jasper	AR	72641	501-446-5413	506169	TM-100	Feb-87
Camp Navajo WTP	*Glenn Wood	Bellemont	AZ	86015	520-774-3368	52000404	TM-100A (2)	12/12/1995
Grand Canyon National Airport		Tusayan	AZ			52001059	TM-75	9/3/1997
Hidden Shores RV WTP	James Komick	Yuma	AZ	85365	520-505-6700	52001442	TM50A	8/11/1999
Phelps Dodge Corp.	Materials Management	Phoenix	AZ	85004-3014	520-865-4521	506453	TM-100A	Jul-91
Roosevelt Lake WTP	Authur D. Case	Roosevelt	AZ	85545	602-467-2660	506540	TM-75A	Oct-92
Aldercroft Heights	*Plant	Los Gatos	CA	95030	408-343-1343	52000486	TM-50A	2/23/1996
Big Basin WTP	*Jim Moore	Boulder Creek	CA	95006	408-338-2933	506452	TM-75A (2)	Jul-91
Bowman WTP	*Plant	Auburn	CA	95603	916-878-2373	506467	TM-350A (2)	Sep-91
Butte Lake WTP		Mineral	CA	96063		110102	TM50A	
Cayucos WTP	*Jim Marty	Cayucos	CA	93430	805-995-1007	52000428	TM-350A	12/28/1995
Citizens Utility	*Bill O'Brian	Felton	CA	95018	408-335-5260	52000242	TM-350A (2)	10/2/1995
Dan Pedro Recreation	*Herb Hehn	La Grange	CA	95329	209-852-2396	506596	TM-75A	Oct-93
Elk Creek Community Service District		Elk Creek	CA	95939		52001089	TM-100A(2)	9/26/1997
Lakeside Park Authority	*Plant	South Lake Tahoe	CA		916-542-4303	52000719	TM-175A (2)	8/19/1996
Mackerricher State Park WTP	*Jon Brown	Mendocino	CA	95460	707-937-5804	506258	TM-50	Mar-88
Magnolia School WTP	*Wells Mesa	Brawley	CA	92227	619-344-2494	506478	TM-50A	Nov-91
Montecito WTP	*Joe Diaz	Montecito	CA	93108	805-969-2271	506532-2	TM-100A	Sep-92
Old Oak Ranch WTP	*Henry Schmidt	Sonora	CA	95370	209-532-4295	506703	TM-50A	5/18/1995
Outingdale WTP	*Gary Meyer	Placerville	CA	95667	916-622-4513	506552	TM-100A	
Tanimura & Antle Foods	Allie Padgett	Cantua Creek	CA	93608	831-595-4820	52001394	TM75A	5/7/1999
Tule River WTP	*James Dabney		CA		209-781-4271	506615	TM-75A (2)	Apr-94
Tuolumne Utility District	Ted Allen	Sonora	CA	95370	209-532-5536	110171	TM350A	3/11/2002
Academy Water & Sanitation Dist	*Bill Sheldon	Colorado Springs	CO	80921	719-481-0711	506716	TM-175A	11/20/1995
Academy Water & Sanitation DisT	*Bill Sheldon	Colorado Springs	CO	80921	719-481-0711	52000557	TM175A, slave	3/21/1996
Florissant WTP	*Dave Stanford	Florissant	CO	80816	719-748-3565	506690	TM-50A	3/14/1995
Meridian Lake WTP	*Ron Cloniger	Crested Butte	CO	81224	970-482-5922	52000623	TM-75A	7/8/1996
New Castle		New Castle	CO	81647	970-984-2311	110113	TM350A	1/23/2001
New Castle WTP		New Castle	CO	81647	970-984-2311	110239	TM350A	7/7/2003
Powderhorn Resort	David Cross	Mesa	CO	81623	303-241-1503	506284	TM-50	Aug-88

Rock Creek WTP	NO LISTING	Superior	CO		303-494-1996	506426	TM-75A (2)	Feb-91
Sageport WTP		Larkspur	CO	80118	303-681-2833	52000685	TM-50A (2)	7/18/1996
Sageport WTP	Scott Monroe	Larkspur	CO	80118	303-681-2050	52001465	TM100A(2)	9/24/1999
Sageport WTP	Scott Monroe	Larkspur	CO	80118		110186	TM175A(2)	
Wildcat Ranch WTP	*Mike Thomas	Aspen	CO	81654	970-923-2841	506469	TM-100A (2)	Oct-91
SCCRWA	*Jerry Huntley	New Haven	CT	06511-5966	203-624-6671	506248	TM-25	Jan-88
Camp Frank D. Merrill WTP	John A Jarrad	Dahlonega	GA	30533	706-864-3367	506657	TM-100A	11/10/1994
Southwest Iowa Egg		Messena	IA			52001340	TM-50 (1)	12/22/1998
Elk City Water & Sewer Assoc.	Trent Woods	Elk City	ID	83525		110190	TM50A(2)	7/22/2002
Linn Valley Lakes WTP	*George Craig	Lacygne	KS	66040	913-757-4591	52000449	TM-50A Custom	1/25/1996
East Kentucky Power Cooperative	Diana W. Pulliam	Winchester	KY	40392-0707	859-744-4812	110150	TM175A(2)	10/28/2001
Kentucky Utility		Burgin	KY	40310		52001349	TM350A(2)w/remote I/O panel	1/18/1999
Freeport Sulphur Company	*Prentiss Nettles	Amelia	LA	70340	504-586-5145	506411	TM-100A	Oct-90
Ionics Incorporated	*Sharon Wolf	Watertown	MA	2172	617-926-2510	506556	TM-100A	Mar-93
Bay Bridge Marina WTP	*Tom McCary	Stevensville	MD	21666	410-643-3162	506338	TM-100	Feb-90
Bodkin Elementary School	*Dan Lahert	Pasadena	MD	21122	410-437-0138	506228	TM-100	Dec-87
Cecil Woods WTP	*Walter VanNoy	Elkton	MD	21921	410-287-0681	506313	TM-50	Jan-89
Charleston WTP	*Steve Shockey	Cumberland	MD	21502	301-463-2593	506562	TM-100A	Apr-93
Davidsonville Elementary School	*Oliver Brown	Davidsonville	MD	21035	410-222-1655	506192	TM-50	Jun-87
Koontz WTP	*Steve Shockey	Cumberland	MD	21502	301-463-3246	506562	TM-100A	Apr-93
Midland Gilmore WTP	*Steve Shockey	Cumberland	MD	21502	301-463-3251	506562	TM-100A	Apr-93
Myersville WWTP		Myersville	MD	21773		52001260	TM100A(2)SS	6/17/1998
Bucksport Water Co.	*Jeff Robinson	Bucksport	ME	4416	207-469-0021	506688	(3) TM-175A	3/21/1995
Hebron Water	*Lewis Williams	Hebron	ME	4238	207-966-2312	52000972	TM-50A (20	5/22/1997
Jackman WTP	*Roland Seavey	Jackman	ME	4945	207-668-7686	506718	TM-100A (2)	9/5/1995
Long Pond WTP	*Tim Sawtelle	Sorrento	ME		207-422-3499	52000383	TM-100 (2)	11/22/1995
Warren WWTF	*Mike Courtenay	Warren	ME	4864	207-273-2047	52000780	TM-100 A (2)	10/17/1996
Kwajalein Atoll		Kwajalein	MH			52001352	TM50(2)	1/22/1999
Kwajallen Pacific		Marshall Islands	MH			506646	TM-75A(2)	9/8/1994
The Old Club	*Dale Cooper	Harsens Island	MI	48071	810-748-3111	506463	TM-75A	Sep-91
Harrah's Tunica Inc. Casino	*Jimmy Jepson	Robinsonville	MS	38676	601-363-2353	506601	TM-100A (2)	Nov-93
Harrah's Tunica Inc. Casino	*Jimmy Jepson	Robinsonville	MS	38664	601-363-2353	52000273	TM-100A	10/12/1995
Timberlake WTF			MS			506476	TM-100A	Nov-91
Lake Mcdonald WWTP		West Glacier	MT	59936		110220	TM175A (2)	3/27/2003
Sterling Pharmaceutical (E. I.Dupont)	*Dick Chamberlain	Brevard	NC	28712	704-885-5000	506536	TM-350A (2) w/UD	Oct-92
Pittsfield Aqueduct	*Curt Sheing	Pittsfield	NH	3263	603-913-2385	52000758	TM-175A (2)	9/26/1996
Round Hill WTP	*Robert Loading	Zephyr Cove	NV	89448	702-588-2571	506647	TM-175A (2)	9/9/1994
Virginia City WTP	*Robert Hoppe	Virginia City	NV	89440	702-847-1000	52000300	TM	10/30/1995
Belmont WTP		Belmont	NY	14813		110201	TM100A (3)	11/28/2002
Brewster Heights Water Dist.	*Phil	Collionsville	NY	13747	914-279-1683	506661	TM-100A (3)	10/27/1995
Goudey Station Water Purification	*Frank Roma	Johnson City	NY	13790	607-762-8817	506297	TM-100 (2)	Sep-88
Cherokee County RWD No. 1	Susan Kirk	Fort Gibson	OK	74434	918-478-3958	110117	TM175A (2)	2/22/2001
Delaware County RWD#3	*Doreen McElroy	Jay	OK	74346	918-786-5227	506398	TM-100A (2)	Aug-90
Harmon WTP	*Mark Hansard	Harmon	OK		405-939-2288	506493	TM-350A	Jan-92
McIntosh County RWD #2		Onapa	OK			52001412	TM350A(2) w/Tritons	6/24/1999
Otoe-Missouria Tribe WTP	*Moran Bible	Red Rock	OK	74651	405-723-4372	506597	TM-50A (2)	Oct-93
Sardis Lake WTP	*Dave Shaw		OK		918-569-4131	6182	TM-25	Apr-87

Seneca Cayuga Tribe WTP	Roberta Haralson	Miami	OK	73445	918-542-6609	52001510	TM75A	12/23/1999
Shangri-La Utility Corp.	*Galin Robbins	Afton	OK	74331	918-257-5833	506433	TM-350A (2)	Mar-91
Southern Oklahoma Water Corp.	charlie	Ardmore	OK	73401	580-223-8961	52001497	TM350A(2)	11/19/1999
Gull Bay, First Nation		Gull Bay	ON	R3T1V8		110195	TM50A (2)	9/12/2002
Dicks Fork WTP	*King Phelps	Blodgett	OR	97498	541-547-3315	52000710	TM-100A (2)	8/12/1996
Heceta WTP		Florence	OR	97439		110185	TM350A(2)	2-May
James River, Pope & Talbot	*Sterling Nelson	Halsey	OR		503-369-1136	506329	TM-75	Jul-89
Netarts WTP	*Mike Sibsager	Netarts	OR	97143	503-842-9405	506443	TM-100A (2)	Jun-91
Toketee Village WTF		Idleyld Park	OR	97447		110241	TM100A	7/24/2003
Camp Allegheny WTF	*Eric Blanchard	Elwood City	PA	16117	412-758-5546	506461	TM-75A (2)	Sep-91
Cranberry Mall WTP	*Mike Erwin	Seneca	PA	16346	814-676-8812	506554	TM-175A	May-93
Hickory Hills	*Bob Moore	Bath	PA	18014-2124	610-759-5370	506574	TM-100A	Jun-93
Mary D	*John Stemmler	Mary D	PA	17952	717-668-0102	506515	TM-50A (2)	Jul-92
Lake Robertson	Wendy Aspenlied		QC		403-250-2650	506542	TM-50A	Nov-92
St. Hubert, Quebec		St. Hubert	QC				TM-840 (1/2)	
Yawgoog Scout Reservation	*Paul Forbes	Rockville	RI	2873	401-539-2311	506561	TM-75A	Apr-93
Arborfield WTP		Moose Jaw	SK			506681	TM-100A	2/6/1995
Arborfield, SK		Arborfield	SK				TM-100A	
Cole Bay		Cole Bay	SK			506342	TM-50	Apr-90
Cole Bay, SK		Cole Bay	SK				TM-50	
Deschambault, SK		Deschambault	SK				TM-175A	
Eden Valley WTP	CALLED 3 TIMES	Eden Valley	SK	TP 17 RG4	403-558-3606	506397	TM-100A	Jul-90
English River Band WTP		Saskatoon	SK			506517	TM-75A	Jul-92
Grandmother's Bay, SK		Grandmother's Bay	SK				TM-175A	
Missinipe WTP		Northern Hamlet of	SK		[0] - -	506595	TM-75A	Oct-93
Missinipe, Sk		Missinipe	SK				TM-75A	
Mistawasis Indian Reserve #103	Wendy Aspenlied	Shelbrooke	SK		403-250-2650	506568	TM-50A	May-93
Mistawasis, SK		Mistawasis	SK				TM-50A	
Montreal Lake, SK	Brian Phaneuf	Montreal Lake	SK	S0J1Y0		110240	TM-100A	7/15/2003
Nut Lake Water Plant	NO LISTING		SK			506201	TM-50	Aug-87
Nut Lake, SK		Nut Lake	SK				TM-50	
Red Earth Band WTP			SK			506460	TM-100A	Sep-91
Red Earth, SK		Red Earth	SK				TM-100A	
Stanley Mission	CALLED 3 TIMES	Stanley Mission	SK		306-635-2133	506459	TM-75A	Sep-91
Vanscoy, Village of		Vanscoy	SK	S0L3J0		52001485	TM100A	11/2/1999
Village of Michael	Wendy		SK		403-250-2650	506541	TM-50A	Oct-92
Chapel Hill WTP		Chapel Hill	TN	37034		52001055	TM-175A	9/3/1997
American Acryls		Pasadena	TX	77507		52001622/110084	TM175A (2)	11/3/2000
Buchanan Dam WTP	*Steve Parks	Buchanan Dam	TX	78609	512-473-3200	506458	TM-175A w/UD	Aug-91
Buchanan Dam WTP (expansion)	*Steve Parks	Buchanan Dam	TX	78609	512-473-3200	52000748	TM-175A w/UD	9/17/1996
Canyon Lake Water Supply	*Tom Stuart	Canyon Lake	TX	78130	210-964-3854	506638	TM-350A	Aug-94
Choke Canyon State Pakr		McMullen County	TX			52001513	TM50A(2)	12/29/1999
Clifton WTP	Charle Brisco	Clifton	TX	76634	254-675-4509	52001422	TM350A(2)	7/15/1999
Lake Brownwood State Park		Brownwood	TX	76801		52001358	TM100A (circ SS w/anc. equip)	3/1/1999
Lake Buchanan	James Gonzalez	Buchanan Dam	TX	78609	512-473-3333	110013/52001650	TM175A	11/9/2000
Meadowlakes MUD		Meadowlakes	TX	78654	830-693-2951	110238	TM350A Str (2 units	6/26/2003
Star Harbor WTP		Malakoff	TX	75148		110161	TM350A	1/2/2002

Waterford on Lake Travis	Robert Tatum	Leander	TX	78645	512-267-6753	52001259	TM-50A	6/10/1998
Bland WTP	*Tommy Mallory	Bland	VA	24315	540-688-3611	506487	TM-75A (2)	Jan-92
Roanoke WTP	*Jeff Booth	Salem	VA	24153	540-380-4659	506479	TM-175A	Dec-91
Roanoke WTP	*Jeff Booth	Salem	VA	24018	540-380-4659	506654	3-CT w/6 UD 830, (TM-175A)	11/7/1994
Grand Isle Fire District #4	Howard Parizo	Grand Isle	VT	5458	802-372-8241	110178	TM175A(2)	3/28/2002
North End Road WTP	Doug Robertson	North Hero	VT	5474	802-372-6926	110223	TM175A	3/11/2003
North Hero WTP	*John Sutherland	North Hero	VT	5474	802-372-6258	52000077	TM-100A (3)	9/15/1995
South Hero	Guy Winch	South Hero	VT	5468	802-272-6615	52001214	TM-75 Retrofit	3/11/1998
South Hero WTP	*Brent Desranleau	South Hero	VT	5486	802-893-1605	506466	TM-75A	Sep-91
South Hero WTP	*Brent Desranleau	South Hero	VT	5486	802-893-1605	506441	TM-75A (2)	May-91
South Royalton WTP	*Wayne Manning	South Royalton	VT		802-763-7667	506394	TM-100A (2)	Jul-90
Roche Harbor Water Systems	David Gibbs	Friday Harbor	WA	98250	360-378-3500	110214	TM175A (2)	3/5/2003
Vader, WA		Vader	WA	98593		110148	TM100A(2)	8/23/2001
Chrysler-Toluca						52001132	TM-350 (2)	11/3/1997
Deschambault WTP						52000875	TM-175A	2/7/1997
National Starch & Chemical Co.		Guangdong				52000737	TM-50A	9/11/1996
Oslo, Norway		Oslo					TM-100A	
Petwa (Russia)					403-250-2650	506560	TM-50A	Apr-93
Waskasui		Waskasui				52001301	TM350	9/24/1998
Woodstock		Woodstock		T2E6W9	403-250-2650	506656	TM-175A	11/2/1994