



GE

Water &amp; Process Technologies

## Membrane Replacement Proposal

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		No. of Pages:	30 including cover
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Subject:	Membrane Replacement: 3 Trains - 360 x ZW1000 550ft <sup>2</sup> CPX Modules	Proposal No.:	234417
		Original Project No.:	500424
Plant Data: Please provide corrections if inaccurate	John W. North Water Treatment Plant, Municipal Drinking Water, 5 Trains, 2 x 54/64M Cassettes per Train, ZW1000 v3 600 ft <sup>2</sup> per Cassette. Substantial Completion: Sept 4, 2008. Two Train Membrane Replacement: Fall 2017.		





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## Table of Contents

<b>1</b>	<b>Introduction.....</b>	<b>4</b>
<b>2</b>	<b>Scope – GE.....</b>	<b>4</b>
2.1	Membrane Modules .....	4
2.2	Hardware .....	4
2.3	Off-Site Support .....	5
2.4	Warranty .....	5
2.5	Delivery .....	5
2.6	On-Site Technical Advisory Services.....	6
<b>3</b>	<b>ZeeWeed Configuration .....</b>	<b>8</b>
<b>4</b>	<b>Price .....</b>	<b>8</b>
<b>5</b>	<b>Scope - Riverside .....</b>	<b>9</b>
5.1	Installation Preparation.....	9
5.2	Installation.....	10
5.3	Empty Shipping Frame Preparation .....	10
<b>6</b>	<b>Solution Design Notes .....</b>	<b>11</b>
6.1	Permits .....	11
6.2	Maintenance Notes for Replacement Membranes.....	11
6.3	Technical.....	12
<b>7</b>	<b>Health &amp; Safety .....</b>	<b>13</b>
<b>8</b>	<b>Quality at GE – The Vision .....</b>	<b>14</b>
<b>9</b>	<b>Terms and Conditions of Sale .....</b>	<b>15</b>
<b>10</b>	<b>Seller's Warranty - ZeeWeed Membrane Module .....</b>	<b>24</b>
<b>11</b>	<b>Signed Agreement.....</b>	<b>27</b>
	<b>Attachment A ZW1000 Shipping Frames.....</b>	<b>28</b>



## 1 Introduction

GE Water & Process Technologies is pleased to present this proposal at the request of City of Riverside for drinking water membrane modules to replace three trains at the John W. North Water Treatment Plant (WTP).

At the request of Riverside, GE has included on-site technical advisory assistance.

For each train replacement, GE will replace the 108 x ZW1000 V3 600ft<sup>2</sup> modules with 120 x ZW1000 550 ft<sup>2</sup> CPX modules, requiring an additional 6 membrane modules per cassette to match or exceed the current membrane surface area in the replacement trains. Additional permeate downcomers will be provided for the additional membrane modules.

GE is a proven leader in delivering tangible value to our clients over the life of the plant. Our measure of success is how well we deliver **solutions** that help our clients meet their critical business objectives.

Through long-acquired membrane experience, GE has clearly distinguished itself from other membrane manufacturers. A mature service culture and deep technical expertise are at the ready to serve and support Riverside through this next membrane lifecycle.

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## 2 Scope - GE

### 2.1 Membrane Modules

Supply 360 x ZeeWeed 1000 550ft<sup>2</sup> CPX drinking water membrane modules. Modules will be installed in 6 x ZW1000 54M shipping frames bagged and crated for ocean shipment, with the remaining 36 modules bagged, boxed and crated ready for ocean shipment.

### 2.2 Hardware

Supply associated hardware for additional permeate downcomers as follows:

- 21 x stack isolation valves (6 per train, with 3 spares);
- 21 x long permeate tees (6 per train, with 3 spares);
- 21 x permeate elbows (6 per train, with 3 spares);
- 78 x permeate hitch pins (24 per train, with 6 spares);
- 120 x #226 EPDM o-rings – downcomer (36 per train, with 12 spares)

Supply associated hardware for membrane installation:

- 792 x #131 EPDM permeate spigot o-rings (240 per train, 72 spares)
- 369 x permeate spigot adapter kits, if required (120 per train, 9 spares)

Supply replacement Straub couplings as follows:

- 6 x 2" Flex 1L Straub coupling connections for the aeration lines
- 6 x 10" Flex 2L Straub coupling connections for the permeate lines



## 2.3 Off-Site Support

### Controls

Provide system controls programming adjustments as required to update LRV for the new membranes.

### Documentation

The base level of documentation updates will include:

- programmer's table of code changes (change description recorded by tag with one distinct marker bit per change)
- field/hand markups of relevant electrical and P&ID drawings.

The documentation should be filed in the O&M Manual as interim documentation.

Due to the very high cost of comprehensive updating of plant documentation with each system upgrade, GE recommends planning a complete documentation update every 1-4 years to coincide with a selected system upgrade.

GE will be pleased to develop a Documentation Update price quotation on request which may include some or all of the following scope according to its relevance:

- **O&M Manual** - Provide a fully updated version of the Operation & Maintenance Manual that indicates the changes made with this membrane replacement upgrade.
- **P&IDs** - Update the Process (Piping) & Instrumentation Drawings and reissue electronically.
- **Electrical Drawings** - Update the electrical drawings and reissue electronically.
- **Controls Documents** - Update Control Narrative (CN), Controls Logic Sequence Chart (CLSC, also known as CSC) and the Operation Sequence Chart (OSC)

### Project Management

Provide planning and off-site assistance during the membrane replacement project

## 2.4 Warranty

ZeeWeed Membrane Modules are supplied with a base 2-year Full Replacement Seller's Warranty against manufacturing defects. For details of the warranty coverage on the membrane modules supplied, please see Section 10.

## 2.5 Delivery

**DDP** - Delivery will be by standard ocean/ground on the basis of DDP John W. North WTP, Grand Terrace, CA, USA or other named place of destination; Incoterms 2010. DDP = Delivery Duty Paid. Partial shipments will be acceptable unless otherwise specified. Where delivery cannot be accepted at this destination, Riverside shall specify an alternate, equivalent destination without delay.

Due to varying origins and availability, non-membrane items included in this proposal may be shipped separately from the membranes. Should separate shipments be required, where possible, GE will strive to provide these items on or before the delivery of the membranes.



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- Origin** - Delivery of ZeeWeed membranes originates from the GE Water & Process Technologies, ZENON Membrane Products (ZEM), Bláthy Ottó u 4, Oroszlány, 2840 Hungary facility.
- Title & Risk** - Title and risk of loss or damage to membrane modules, shipping frames and crating shall pass to Riverside upon delivery at the named place of destination.
- Export Documents** - All ZeeWeed membrane module shipments into the USA require clearance documentation from the EPA. GE will prepare and provide the required EPA documentation to the Carrier.
- MPF** - Merchandise Processing Fee is a fee assessed for formal custom entries based on 0.35% of the invoice value, with a minimum of USD \$25 per formal entry and a maximum of USD \$485. On the basis of DDP terms, this fee will be paid by GE within the quoted price.
- Taxes and Duty** - A US Customs duty of 3.9% applies to all ZeeWeed membranes shipped individually or in shipping frames; not in operational cassette frames. On the basis of DDP terms, this duty will be paid by GE within the quoted price. Any new duty imposed after the date of this proposal is the responsibility of Riverside. All applicable Local, State, or Federal taxes are the responsibility of Riverside.
- Temperature** - UF membranes cannot be allowed to freeze or overheat and may require temperature-controlled freight and handling according to the season and the planned routing. If required, the price of temperature control will be included within the firm quote on freight by GE.
- Unloading** - may require one of or a combination of a loading dock, extended forks and an experienced fork lift driver at delivery destination. Please consult with GE at the time of Purchase Order preparation on this.

### Shipping Crate Information (estimated)

Qty	Description	Dimensions (in)	Weight (lb)
6	54M ZW1000 Shipping Frame Crate	L=89" x W=33" x H=97"	3,290
3	10M ZW1000 Shipping Crate	L=65" x W=34" x H=47"	660
2	3M ZW1000 Shipping crate	L=65" x W=34" x H=47"	246

#### Notes:

- 1) Only crates for membrane/cassette transport have been shown above to identify the largest and heaviest items that will need to be unloaded;
- 2) Smaller crates/skids will be used for hardware items.

- Availability** - Delivery of membrane modules is typically 10 - 20 weeks after receipt of order. Definitive Membrane Module availability will be confirmed when a Purchase Order is received from Riverside and acknowledgement of a Purchase Order is issued by GE.

## 2.6 On-Site Technical Advisory Services

The proposal includes a provision for Technical Advisory Services during installation and commissioning process to Riverside's staff by 1 GE Field Service Representative on site for 7 working days of 8 hours per day. GE strongly recommends that Riverside consider having at least one experienced person on site during this period.



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The following activities will be executed and completed jointly by GE personnel and plant staff:

- Remove existing membranes/cassettes;
- Install the new permeate downcomer components;
- Install the new membrane modules;
- Upload required revisions to the PLC program with adjusted set-points;
- Perform bubble test where applicable to test membrane integrity and review Trans Membrane Pressure (TMP) on the installed membranes and compare to expected values for new membranes.

**Operating Responsibility** - Riverside retains control of the work site and retains final responsibility for the installation and commissioning process.

GE will perform the services specified in the scope section of this document, but GE will not operate the system. For the purposes of this agreement, the term "operate the system" shall mean to run or control the functioning of the equipment or to otherwise conduct or manage the affairs of any aspect of water or wastewater treatment or other functions at Riverside's site, and shall include functions such as providing operators or laborers to adjust or control water treatment ("WT") equipment, wastewater treatment ("WWT") equipment or sludge management facilities ("SWF"), providing program oversight or directing on-site or contract operators/laborers to adjust or control WWT or SMF, providing personnel responsible for or providing oversight of water treatment residual quality, wastewater effluent quality, sludge quality, waste characterization, or waste disposal activities, or providing personnel with continual or daily operational responsibilities with respect to water or wastewater treatment, influent or effluent compliance monitoring, process monitoring, government reporting or notification, or permit compliance.

**Waiting Time** - Any overtime or waiting times required due to unforeseen site events outside the control of GE will be invoiced according to the prevailing GE Service Labor Rates Sheet, available on request.

### GE Duties for On Site Services

- GE will coordinate its work under this agreement in a reasonable manner with the operating staff of the facility.



### 3 ZeeWeed Configuration

Configuration Data	Existing Plant Configuration	Configuration After Replacement - Train 4 & 5		Proposed Configuration After Replacement
Number of Trains, Plant	5	5		5
Number of Trains As Configured	5	2	3	5
Total Number of Cassettes Frames per Train	2	2	2	2
Total Cassette Frames in the Plant	10	4	6	10
Type of ZeeWeed Membrane	ZW1000 v3	ZW1000 CPX	ZW1000 v3	ZW1000 CPX
Module Surface Area, ft <sup>2</sup>	600	550	600	550
Maximum Number of Modules per Cassette	64	64	64	64
Installed Number of Modules per Cassette	54	60	54	60
Total Module Count, Train	108	120	108	120
Total Surface Area in Operation, ft <sup>2</sup> , Train	64,800	66,000	64,800	66,000
Total Module Count, Plant	540	564		600
Total Surface Area in Operation, ft <sup>2</sup> , Plant	324,000	326,400		330,000
% Surface Area Increase from Existing, Plant	-	<1.0		<2.0
% Spare Space, Plant	15.6	11.9		6.3

### 4 Price

Qty	Item	Part No.	Unit Price	Total Price
360	ZeeWeed Membrane Modules under MMRP Non-Warranty Replacement - ZW1000 550 ft <sup>2</sup> (0.95 mm O.D. CPX)	3111344	1,113.60	400,896
36	Individual Membrane Module Packaging - Bag/Box/Crate	3097663		
1	ZeeWeed Cassette Hardware per Section			
1	Off-site programming per Section 2.1 & 2.4			
1	On-site technical advisory services per Section 2.7			70,220
1	Freight & Freight Insurance DDP Plant Site, INCO Terms 2010. Includes Brokerage at Canada US Border - Flat Fee, US EPA Documentation Flat Fee, US MPF Fee ~0.3464% - Merchandise Processing Fee and US Customs Duty 3.9%	3095534		
All Figures are in USD. Please make Purchase Order to ZENON Environmental Corporation.			Total:	471,116
Please note that values are calculated using rounded values. Minor variances may occur.				
Rate/day for additional days at site if required: \$1,370.				

Invoicing Schedule	% of total Invoice
An invoice for the order will be issued after shipping documents have been supplied to the Carrier.	90%
A final invoice will be issued upon completion of installation, or 30 days after delivery if GE is not providing Onsite Technical Installation Support.	10%



### Contractual Basis for Membrane Replacement Price

The base price of replacement ZW1000 membrane modules for this project is \$1,081 US per module.

GE has guaranteed this price for 10 years subject to adjustment for inflation (CPI All Urban Consumers according to US Bureau of Labor Statistics) or a maximum equivalent price per gallon of treatment capacity in the event that the module area/permeability etc. changes such that the same amount of feed water can be treated with fewer modules of the next generation design.

MMRP price escalation - calculation of the CPI begins on September 4, 2008 (Riverside membrane warranty start date) and will expire at the end of business on September 3, 2018.

To benefit from Membrane Module Replacement Pricing (MMRP) within the contracted time limits, the customer must both submit a PO and accept membrane delivery with a typical 20 week lead time and must fulfill these two conditions prior to the MMRP expiry date

Membrane replacement prices are quoted FCA, Oakville, Ontario, with packaging, freight, and taxes extra as the cost of shipping and packaging the membranes to site will depend on the quantity per shipment. Membrane replacement prices are quoted without taxes.

Adjusted Membrane Replacement Price to Nov 2017	
Contractually Guaranteed Membrane Replacement Price USD	1,081
Initial CPI Value - Sep 2008	218.78
Forecasted CPI Value - Nov 2017	245.87
CPI Factor	12.38%
Surface Area Adjustment Factor (600ft <sup>2</sup> vs. 5500ft <sup>2</sup> )	-8.33%
Adjusted Membrane Replacement Price for this proposal - USD \$	1,113.60
Significant time delays between the date of this proposal and the submission of customer PO may lead to further CPI adjustment to the membrane price.	

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## 5 Scope - Riverside

### 5.1 Installation Preparation

- Receive, off-load, handle and provide temperature controlled storage of the equipment and materials required for Seller to perform the duties outlined in the Seller's Scope of Supply.
- Membrane must be stored in a sheltered area, protected from freezing, direct sunlight or extreme heat, and sealed as shipped until ready for use. Storage should be in a dark, dry, level area at a temperature of 5-30°C (41-86°F). Membranes have a shelf life of 1 year before requiring re-preservation and should not be stored longer than necessary prior to installation. Riverside is responsible for risk of loss of Seller's parts while in storage at the customer's plant.
- Inspect, evaluate and make repairs as required for the membrane tanks, mounting brackets, hoses and all connections prior to GE arriving at site.
- Provide all access structures (such as scaffolding) and mechanical lifting equipment including cranes, forklifts and scissor lifts.



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- Assure availability of a copy of the Operating Manual, all Process and Instrumentation Drawings, and all Electrical Drawings on site and accessible for reference.
- Maintain adequate insurance coverage for the risks of fire, theft, vandalism, floods and personal injury to authorized or unauthorized visitors.

### 5.2 Installation

- Provide 1 or more plant personnel to work continuously with the GE Service Representative during installation and commissioning of the modules for the full duration of the site visit.
- Riverside will afford Seller's personnel free access and egress of the facility for all authorized work. Riverside will provide reasonable access to workshop facilities with standard workshop tools and equipment as is necessary to meet any repair and maintenance requirements of the system during installation.
- Provide adequate illumination and emergency lighting for all areas in which the Seller will be executing the scope of supply. Provide all site utilities such as raw water, instrument quality air, potable water and power required for operation of the proposed equipment included in this scope of supply. Assure that adequate quantities of membrane cleaning and neutralizing chemicals are on hand for wash procedures including sodium hypochlorite, sodium bisulphite, citric acid and sodium hydroxide. Supply telephone/fax/modem access while Seller's staff members are on-site.
- Provide assistance to remove cassettes from the system as required.
- Provide assistance to clean each cassette as it is removed from the system.
- Provide assistance to place new modules into each cassette.
- Provide assistance to return the cassette to the system.
- Dispose of membrane module preservative as well as all retired membrane modules and cassette components.
- Dispose of shipping and packaging materials unless specifically requested not to do so by GE.
- At the end of each site visit, prior to departure of the GE Service Representative, Riverside will sign a Work Order that describes the hours on site and the Technical Advisory Services provided.

### 5.3 Empty Shipping Frame Preparation

All shipping returning to Hungary must be well cleaned and packaged appropriately for trans-oceanic transport in shipping containers. Shipping frames should be cleaned using high pressure washers and mounted on wood skids to facilitate moving them in and out of the freight containers. Failure to properly clean the shipping frames may lead to additional labor during the refurbishment that will be passed along to Riverside. GE can provide Riverside offsite assistance to facilitate the return of shipping frames.

All wooden packaging material used for international shipments must conform to current phytosanitary standards to reduce the risk of introduction and spread of quarantine pest species associated with the movement in international trade of wood packaging material made from raw wood.



All wood packaging material used to transport shipping frames internationally, must comply with ISPM15 which is the standard for phytosanitary measures and be properly stamped indicating compliance with the standard. Failure to comply with the standard may lead to shipment refusal and subsequent project delays. For detailed information on ISPM15 please visit <http://www.ispm15.com>.

Whenever possible, save and re-use the wooden skids that the shipping frames arrived on for return freight purposes.

Frame Shipping Orientation: ZW1000/ZW500D shipping frames are shipped upright

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## 6 Solution Design Notes

### 6.1 Permits

#### Regulatory Requirements

*Riverside is responsible to review and report to the permit granting agency on the impact of any of the proposed changes on the regulatory permit. GE will provide the necessary manufacturer's technical support on regulatory issues. Provision is made in the price proposed for the cost of control code changes to update the LRV for the plant following the installation of the membranes.*

*Please speak with your Regional Lifecycle Manager (RLM) if there are any regulatory requirements or concerns.*

#### Utilization

GE understands that these modules are required as replacements for currently installed modules. These modules are offered on the basis that the membrane modules will not be used to provide expanded flow beyond the current plant flow rating. GE makes no guarantees, implied or otherwise as to the performance of these modules in any other capacity than as replacement membranes.

### 6.2 Maintenance Notes for Replacement Membranes

At the time of any full plant or full train membrane replacement, it is recommended to evaluate the appropriate timing of repairs or replacement of the following ancillary system components:

- Is it the right time to address any tank coating repairs which may be required?
- Is it the right time to replace non-metal cassette components?
- Are any of the aeration or permeate connection hoses, clamps, camlocks, camlock seals and couplings due for replacement?

#### Preferential Flow

Preferential flows can create a risk of over-fluxing of new modules when they are installed in the same train with older modules. The mixing of old and new modules in the same cassette also makes management of slack adjustment more difficult. GE recommends that Riverside plan membrane module replacement on a complete cassette and complete train basis wherever possible to achieve both optimal performance and best value from the new membrane modules. In this case, by replacing all membrane modules in a train, this risk has been neutralized.



### Membrane Slack

GE's membranes are supplied and shipped with an initial factory fiber slack designed to optimize membrane air scouring during operation as well as accommodate a degree of shrinkage. Membranes shrink in length early in their lifecycle when exposed to higher temperature water. The pace of shrinkage slows with age. With the installation of new membranes, the requirements for slack adjustment start a new cycle.

Due to the wide variety of operating environments in which our products can be utilized, it is difficult to generally predict the rate of shrinkage. If membranes operate in a condition of insufficient slack for an extended period of time, irreversible damage to the fiber-urethane bond may occur. Please refer below to the recommended inspection frequencies based on your plant's membrane tank operating temperature. Visual inspections should begin during the membrane installation and be repeated over time on the same cassette. Digital pictures will allow for comparative analysis of the fiber slack over time.

Maximum Operating Temperature	Recommended Slack Inspection Frequency
0-24 °C / 32-76 °F	Every 2 years
25-30 °C / 77-86 °F	Once Per Year
>30 °C / >86 °F	Twice Per Year

### Membrane Repairs

All new modules are factory tested at our manufacturing facilities, and are in good working order as they are packaged and crated for shipment. On occasion, a limited amount of modules arriving at site may require repairs due to uncontrollable factors during shipping and receiving, in particular with multi-modal shipments. GE recommends having one fiber repair kit on hand during the handling and installation of the drinking water modules.

## 6.3 Technical

### CP5 to CPX

The ZeeWeed 1000 CPX module represents GE's latest technology advancements in the 1000 series membrane, and offers many benefits over the previous version (CP5) of this module, including:

Membrane Chemistry - The CPX membrane chemistry offers the following improvements: • an increase in membrane permeability, • more resistance to fouling, • increased range of tolerance to high pH cleaning, • greater chemical tolerance, • significantly reduced fiber shrinkage, • increased stability of long-term performance, • lower energy consumption, and • more options for cleaning.

Fiber Dimensions - A 45% increase in fiber thickness results in a more robust fiber with lower fiber maintenance.

Membrane Shrouds - Shrouds are now made with stronger material and design which reduces operating stress. Shrouds are removable and replaceable to allow outside repair. This results in extended module life and easier access to membranes for inspections.

Urethane Formulations - Advancements in urethane provide higher grip strength and increased chemical resistance, improved long term reliability of the urethane, and extended module life.



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Certifications and Regulatory Compliance – North America - The new ZeeWeed 1000 CPX membrane modules are NSF-61 approved, California DPH approved for Drinking Water, and California DPH Title 22 approved for Wastewater.

Membrane Integrity Testing – The CPX membrane test pressure at 13 psi is higher than the 10-psi test pressure for CP5. Any mixing of CP5 modules with CPX modules to function in the same train or the same cassette will require consultation with GE and possibly with regulatory authorities.

### Hoses & Fittings

GE has assumed for this proposal that the current aeration and permeate cassette connections for the ZW1000 cassettes do not need replacing at this time. If this is not so, please advise GE and request that they be added to this proposal.

### Pre-Screen

To ensure effective operation and to maximize membrane life, GE recommends operation of a pre-treatment screen, upstream of the pretreatment process, with mesh or punched-hole openings less than or equal to 0.5 mm and with no possibility of bypass or carryover. All processes after this screening must be covered and protected from outside elements such that no leaves, twigs or any foreign material can enter the membrane tank.

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## 7 Health & Safety

### Riverside

- Riverside will identify and inform Seller's personnel of any site specific hazards present in the work place that could impact the delivery of Seller's scope of supply and agrees to work with Seller to remove, monitor, and control the hazards to a practical level.
- Riverside will provide training to Seller's personnel on all site specific and standard company operating procedures and practices for performing work on site. Such training programs may include, but are not limited to, general Environmental Health & Safety (EHS), HAZOP, fire protection, drug testing, incident notice, site conduct, standard first aid, chemical receiving, electrical safety, etc. Riverside will provide a certificate of training for Seller's personnel. This program will be fully documented, training materials will be provided, and attendance list will be kept.
- If any type of lifting devices will be used on site, Riverside will provide proof of its maintenance, inspection and certification documentation upon request and will assist the GE Service Representative to complete a safety inspection checklist.
- Where confined space entry may be required, Riverside will provide early notice and will collaborate with GE in planning adequate staffing and in advising the local fire/rescue department as required.
- No time or cost provision has been made for preparations such as safety record clearances, drug testing, insurance confirmations or pre-job-training in excess of 1 hour. Prior to finalizing the Purchase Order and the work schedule, Riverside will advise GE of any pre-job or pre-mobilization requirements. Where these requirements exceed 1 hour, this time will be charged to Riverside at rates set out in the prevailing GE Labor Rate Sheet.



## GE Water & Process Technologies

- Where certain short duration activities require two people for safety and the GE Service representative is alone at site, Riverside will cooperate as required to assure that correct safety precautions are taken.
- Riverside is responsible for the following environmental provisions:
  - Environmental use and discharge permits for all chemicals at Riverside's facility either listed in this document or proposed for use at a later date;
  - Any special permits required for Seller's or Riverside's employees to perform work related to the water treatment system at the facility;
  - All site testing, including soil, ground and surface water, air emissions, etc.;
  - Disposal of all solid and liquid waste from the Seller's System including waste materials generated during construction, start up and operation.
- Riverside is responsible for provision of health and safety facilities to Seller's Field Service Representatives to the same extent that they are provided to Riverside's own employees, including provision of:
  - Eyewash and safety showers in the water treatment area;
  - Chemical spill response;
  - Security and fire protection systems per local codes;

### GE

- All work on site will be performed in accordance with applicable law and will be performed reasonably, in a clean and safe manner. The GE Service Representative will abide by the more stringent of the applicable health, safety and environmental policies and procedures of either Riverside or GE.
- GE will provide all applicable safety training required by GE policies or by state or national health and safety regulations. The GE Service Representative will have undergone Workplace Hazardous Material Information System (WHMIS) training and will come equipped with necessary Personal Protective Equipment (PPE).
- Emergencies - In emergencies affecting the safety of persons, work or property at the site and adjacent thereto, GE will act, without previous instructions from Riverside, as the situation warrants. GE will notify Riverside immediately thereafter.

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## 8 Quality at GE – The Vision

We are driven by a passion for delivering on every commitment. We are dedicated to providing our customers the highest quality offerings with unparalleled customer service and responsiveness. We are committed to working through any problem in an open and honest manner—always with unyielding integrity.

### Quality Policy

At GE Water, we are committed to:

- Passionately driving customer satisfaction and loyalty by partnering with customers to help achieve their success.



GE

## Water & Process Technologies

- Delivering results with a sustained global compliance culture.
- Continually improving everything we do.
- Empowering our employees to engage and own Quality.

We will accomplish this by building on our strong foundation of Quality and raising the bar to the next level of success. By operationalizing Quality and engaging everyone on our team, we will create a culture where our customers, suppliers and employees feel the difference.

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## 9 Terms and Conditions of Sale

### A - Specific Terms and Conditions of Sale

#### 1 Legal Entity for Contracting

ZENON Environmental Corporation is the name of the legal entity providing services and is an affiliate of GE Water & Process Technologies. Purchase Orders and Checks should be made out using the name ZENON Environmental Corporation.

Please advise us if this GE entity is not set up in your purchasing system as a vendor and you do have another GE entity set up. We are keen to make the purchase process as convenient as possible for Riverside.

**Short Form:** Where a short reference is required in this document, for convenience, we are called simply GE.

#### 2 Payment Terms

On approved credit, payment terms are Net 30 Days from customer receipt of invoice. Please see the Invoicing Schedule in Section 4, Price.

#### 3 Proposal Validity

Prices quoted and proposal terms are valid up to thirty (30) days after the date of issue of this proposal unless confirmed with a Purchase Order.

#### 4 Bonds

Performance or Payment Bonds are not included in the price. These bonds can be purchased on request but will be at an additional cost.

#### 5 Flight Booking

Prices quoted for installation which include airfare are either based on timely confirmation of a visit schedule or based on receipt of a Purchase Order in time to book any flights seven days in advance. Additional airfare charges related to late arrival of a Purchase Order will be extra and billed through to Riverside without mark-up.

#### 6 Warranty on Programming

GE warrants that the PLC program will conform to the specifications in the relevant sections of the CLSC and OSC (revised for the project) and will be free from defects in workmanship when operated at all times in accordance with GE's written instructions. If any defects are found and reported by Riverside within a period not exceeding twelve (12) months beyond the completion of the site acceptance test, GE will make modifications to the PLC code as deemed necessary. Any changes requested by Riverside after this period will be at the customer's expense.

#### 7 Purchase Order Guidelines

Please ensure that your Purchase Order has covered the following points. This will ensure accurate and prompt order entry, product delivery, invoicing and accounts receivables processing and will prevent administrative delays for all parties.

- Legal Entity** - Please be sure your Purchase Order is issued in the name of the specific GE legal entity issuing this proposal cited above. We will be glad to work with your Purchasing department to set this entity up as an approved Supplier/Vendor. Please advise us if this GE entity is not set up in your purchasing system as a vendor and you do have another GE entity set up.



GE

## Water & Process Technologies

- Hard Copy** - Our strong preference is to receive a hard copy of your Purchase Order rather than a PO number alone.
- Proposal Number and Date** - Please reference the 6 digit Proposal Number and the Proposal Date which are found in the footer of each page.
- Price** - State the total price you are accepting for this order.
- Taxes** - Provide any required tax exemption certificates.
- Ship-To Address** - Please clearly define the plant site address or delivery location and the Receiver's email & telephone. Please specify receiving hours and any special off-loading requirements.
- Delivery Date** - Please include your requested delivery date or agreement start date.
- Purchase Order** - Please send your Purchase Order to GE by email to [Service.pocentral@ge.com](mailto:Service.pocentral@ge.com)

### B - General Terms and Conditions of Sale

**Note to Purchasing Agent:** The following are GE's standard set of commercial terms & conditions, written for moderate value transactions to allow an efficient and rapid provision of services and parts. Where Master Corporate Agreement Terms or previously negotiated Terms have been agreed with GE these may be brought forward by either party and applied by mutual consent. If one or the other of these 2 Terms sets is not immediately acceptable to Riverside, please anticipate a typical 6-10 week cycle of mutual review to build agreement on changes.

1. **Exclusive Terms and Conditions.** Together with any other terms the Parties agree to in writing, these General Terms and Conditions – together with the last proposal in order of time issued by the Seller – form the exclusive terms ("Agreement") whereby Buyer agrees to purchase, and Seller agrees to sell products and equipment (jointly "Equipment") and to provide advice, instruction and other services in connection with the sale of that Equipment ("Services"). If Buyer sends to Seller other terms and conditions to which Seller may not respond, including but not limited to those contained in Buyer's purchase order, such shall not apply. This Agreement may only be revised by a change order approved in writing by both Parties. All terms not defined herein shall be defined in Seller's proposal.
2. **Equipment and Services.** The Equipment to be delivered and the Services to be provided shall be as set out in this Agreement. Unloading, handling, storage, installation, and operation of Buyer's systems or the Equipment are the responsibility of Buyer. Buyer shall not require or permit Seller's personnel to operate Buyer's systems or the Equipment at Buyer's site.
3. **Prices and Payment.** Buyer shall pay Seller for the Equipment and Services in accordance with the payment schedule (as set forth in Seller's proposal or, if applicable, in any special conditions agreed to in writing by the Parties). Unless otherwise specified in writing, payment is due net thirty (30) days from the date of Seller's invoice. Seller may require a Letter of Credit or other payment guarantee, in which case the stated amount of the guarantee will be adjusted by Buyer in the event of any currency-based adjustment to prices or payment amounts per the Payment Schedule, and Buyer shall deliver the adjusted guarantee within five (5) days of request by Seller. Buyer agrees to reimburse Seller for collection costs, including 2% (two percent) interest per month (not to exceed the maximum amount permitted by applicable law), should Buyer fail to timely pay. Buyer shall have no rights to make any deduction, retention, withholding or setoff relating to any payments due under this Agreement.
4. **Taxes and Duties.** Seller shall be responsible for all corporate taxes measured by net income due to performance of or payment for work under this Agreement ("Seller Taxes"). Buyer shall be responsible for all taxes, duties, fees, or other charges of any nature (including, but not limited to, consumption, gross receipts, import, property, sales, stamp, turnover, use, or value-added taxes, and all items of withholding, deficiency, penalty, addition to tax, interest, or assessment related thereto, imposed by any governmental authority on Buyer or Seller or its subcontractors) in relation to the Agreement or the performance of or payment for work under the Agreement other than Seller Taxes ("Buyer Taxes"). The Agreement prices do not include the amount of any Buyer Taxes. If Buyer deducts or withholds Buyer Taxes, Buyer shall pay additional amounts so that Seller receives the full Agreement price without reduction for Buyer Taxes. Buyer shall provide to Seller, within one month of payment, official receipts from the applicable governmental authority for deducted or withheld taxes. Buyer shall furnish Seller with evidence of tax exemption acceptable to taxing authorities if applicable, prior to execution of the Agreement by both Parties or issuance by the Seller of the order acceptance. Buyer's failure to provide evidence of exemption at time of order will relieve Seller of any obligation to refund taxes paid by Seller.



GE

## Water & Process Technologies

5. **Delivery, Title, Risk of Loss.** Unless otherwise specified in this Agreement, Seller shall deliver all Equipment to Buyer FCA (Incoterms 2010) Seller's facility. The time for delivery of the Equipment to Buyer shall be specified in this Agreement. Seller's sole liability for any delay in delivery of the Equipment shall be as expressly set out in this Agreement. The place of delivery specified herein shall be firm and fixed, provided that Buyer may notify Seller no later than forty-five (45) days prior to the scheduled shipment date of the Equipment of an alternate point of delivery, Buyer shall compensate Seller for any additional cost in implementing the change. If any part of the Equipment cannot be delivered when ready due to any cause not attributable to Seller, Buyer shall designate a climate-controlled storage location, and Seller shall ship such Equipment to storage. Title and risk of loss shall thereupon pass to Buyer, and amounts payable to Seller upon delivery or shipment shall be paid by Buyer along with expenses incurred by Seller. Services provided herein shall be charged at the rate prevailing at the time of actual use and Buyer shall pay any increase, and Buyer shall pay directly all costs for storage and subsequent transportation. Failure by Buyer to take delivery of the Equipment shall be a material breach of this Agreement.

Title and risk of loss to the Equipment shall be transferred from Seller to Buyer at the point of delivery upon handover in accordance with this Agreement. Title and risk of loss to the Services shall pass as they are performed.

6. **Warranties and Remedies.** Seller warrants that Equipment shall be delivered free from defects in material, workmanship and title and that Services shall be performed in a competent, diligent manner in accordance with any mutually agreed specifications. Seller's warranty does not cover the results of improper handling, storage, installation, commissioning, operation or maintenance of the Equipment by Buyer or third parties, repairs or alterations made by Buyer without Seller's written consent, influent water which does not comply with agreed parameters, or fair wear and tear.

Unless otherwise expressly provided in this Agreement, the foregoing warranties are valid for:

- a. chemicals and Services, for six (6) months from their date of delivery or the provision of Services;
- b. consumables, including filters and membranes (other than membranes for process treatment), twelve (12) months from their date of delivery;
- c. membranes for process treatment, ninety (90) days from their date of delivery;
- d. Equipment other than chemicals and consumables, the earlier of, fifteen (15) months from delivery or shipment to storage, or twelve (12) months from start-up/first use;
- e. software, ninety (90) days from the date of receipt;
- f. Equipment not manufactured by Seller, the warranty shall be the manufacturer's transferable warranty only,

Any claim for breach of these warranties must be promptly notified in writing, and Buyer shall make the defective item available to the Seller, or the claim will be void. Seller's sole responsibility and Buyer's exclusive remedy arising out of or relating to the Equipment or Services or any breach of these warranties is limited to repair at Seller's facility or (at Seller's option) replace at Seller's facility the defective item of Equipment, and re-perform defective Services. In performance of its obligations hereunder, Seller will not control the actual operation of either Buyer's systems or the Equipment at the Buyer's site.

Warranty repair, replacement or re-performance by Seller shall not extend or renew the applicable warranty period.

The warranties and remedies are conditioned upon (a) proper unloading, handling, storage, installation, use, operation, and maintenance of the Equipment and Buyer's facility and all related system in accordance with Seller's instructions and, in the absence, generally accepted industry practice, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of Equipment or Services only as authorized by Seller in writing. Failure to meet any such conditions renders the warranty null and void.

The Buyer will be entitled to assign to a subsequent owner of the Equipment the warranties of the Seller under this Agreement, provided that a prior written notification is sent to the Seller and the assignment agreement contains terms and conditions which provide the Seller with the protections of the warranties and limitations on liability contained in the Agreement. Subject to Buyer's compliance with the foregoing requirement, such warranty rights are expressly assignable by the Buyer to a subsequent owner of the Equipment. Except as provided herein, Buyer is not entitled to extend or transfer this warranty to any other party. The warranties and remedies set forth in this



GE

## Water & Process Technologies

article are in lieu of and exclude all other warranties and remedies, statutory, express or implied, including any warranty of merchantability or of fitness for a particular purpose.

Unless otherwise expressly stipulated in this Agreement, Seller gives no warranty or guarantee as to process results or performance of the Equipment, including but not limited to product quality, flow, production, capacity, membrane life, chemical consumption, regulatory compliance or energy consumption.

7. **General Indemnity.** Seller shall indemnify, defend and hold harmless Buyer from claims for physical damage to third party property or injury to persons, including death, to the extent caused by the negligence of Seller or its officers, agents, employees, and/or assigns while engaged in activities under this Agreement. Buyer shall likewise indemnify and hold harmless Seller from claims for physical damage to third party property or injury to persons, including death, to the extent caused by the negligence of the Buyer, its officers, agents, employees, and/or assigns. In the event such damage or injury is caused by the joint or concurrent negligence of Seller and Buyer, the loss shall be borne by each Party in proportion to its negligence. For the purposes of this article (i) "Third party" shall not include Buyer or any subsequent owner of the Equipment, their subsidiaries, parents, affiliates, agents, successors or assigns including any operation or maintenance contractor, or their insurer; and (ii) no portion of the Equipment is "third party property".
8. **Compliance with Laws and Permits.** All permits, authorizations, and licenses which are required to construct, install and/or operate Buyer's facility or equipment, to use the Equipment, or to manage and dispose of any wastes, discharges, and residues resulting from Buyer's use of the Equipment, shall be obtained and maintained by Buyer at Buyer's sole expense. Buyer is responsible for compliance with all laws and regulations applicable to the storage, use, handling, installation, maintenance, removal, registration, and labeling of all Equipment after delivery of the Equipment, as well as for the proper management and disposal of all wastes, discharges, and residues.
9. **Buyer's Site Conditions.** Buyer warrants that any data furnished to the Seller concerning conditions at Buyer's site (including but not limited to any existing Buyer facility, equipment or processes, influent water or other substances to be treated or measured with the Equipment) is accurate and complete, and the Seller reserves the right to utilize the most appropriate design compatible with generally accepted engineering practices, and to make changes in details of design, manufacture and arrangement of Equipment unless precluded by any limitations specified in this Agreement. Seller shall notify Buyer of (1) any conditions at Buyer's site which materially differ from those indicated in the data furnished by Buyer, (2) any previously unknown physical conditions at Buyer's site of an unusual nature, not revealed by previous investigations and differing from those ordinarily encountered in the type of work provided for in this Agreement, and (3) the presence of any Hazardous Materials (as defined below), the existence of a contaminated soil, unexploded ordinance, or archaeological remains. If such conditions cause an increase in Seller's cost or in the time required for the performance of Seller's obligations, Seller shall be entitled to an equitable adjustment in the Agreement price and an extension in the time for performance.
10. **Hazardous Materials and Wastes.** In the event that Seller encounters any Hazardous Materials (meaning toxic substances, hazardous substances, pollutants, contaminants, regulated wastes, or hazardous wastes as such terms may be defined or classified in any law, statute, directive, ordinance or regulations promulgated by any applicable governmental entity) at Buyer's site, other than Hazardous Materials introduced by Seller or that are otherwise the express responsibility of Seller under this Agreement, Buyer shall immediately take whatever precautions are required to legally eliminate such Hazardous Materials so that the Seller's work under this Agreement may safely proceed. At no time shall Seller be deemed to have taken title to or the responsibility for the management or disposal of any wastes, Hazardous Materials, influent water, any resultant product streams, wastewater streams, discharges, cleaning materials, or any other materials or substances processed by the Equipment or otherwise located at Buyer's site. Seller does not take responsibility for and hereby expressly disclaims responsibility for the characterization or disposal of wastes, Hazardous Materials, or for the identification, selection, or management of disposal facilities for any wastes.
11. **Excusable Delays.** Seller shall not be liable nor in breach or default of its obligations under this Agreement to the extent performance of such obligations is delayed or prevented, directly or indirectly, due to causes beyond the reasonable control of Seller, including, but not limited to: acts of God, natural disasters, unusually severe weather, fire, terrorism, war (declared or undeclared) epidemics, material shortages, insurrection, act (or omissions) of Buyer or Buyer's contractors/suppliers or agents, any act (or omission) by any governmental authority, strikes, labor disputes, transportation shortages, or vendor non-performance. The delivery or performance date shall be extended for a period equal to the time lost by reason of delay or non-performance, plus such additional time as may be necessary to overcome the effect of the delay or non-performance. If delivery or performance is delayed for a period



GE

## Water & Process Technologies

exceeding 180 (one hundred and eighty) days, either Party may terminate this Agreement without further liability provided that Seller shall be paid an amount equal to that which would be payable to Seller under the article entitled "Termination". If Seller is delayed by any acts (or omissions) of Buyer, or by the prerequisite work of Buyer's other contractors or suppliers, Seller shall be entitled to an equitable adjustment in schedule, price and/or performance, as applicable.

12. **Emergencies.** If the safety of Seller's personnel is threatened or likely to be threatened by circumstances outside the reasonable control of Seller, including but not limited to war, armed conflict, civil unrest, riots, terrorism, kidnapping, presence of or exposure to hazardous materials, unsafe working conditions, or by the threat of such circumstances or a lack of adequate protections against such circumstances, Seller shall be entitled to take all necessary steps to ensure the security and safety of its personnel including the evacuation of personnel until such circumstances no longer apply. Any such occurrence shall be considered an excusable delay event. Buyer shall reasonably assist in the event of any such evacuation.
13. **Confidentiality, Intellectual Property.** Both Parties agree to keep confidential the other Party's proprietary non-public information, if any, which may be acquired in connection with this Agreement unless legally required to do so. Buyer will not, without Seller's advance written consent, subject Equipment to testing, analysis, or any type of reverse engineering. Seller retains all intellectual property rights including copyright which it has in all drawings and data or other deliverables (including the Equipment) supplied or developed under this Agreement. Buyer agrees that it will not file patent applications on the Equipment or any development or enhancement of the Equipment, or of processes and methods of using the Equipment, without Seller's express prior written permission. Buyer further agrees that in any event any such patents will not be asserted against Seller or its other buyers based upon purchase and use of such Equipment. Seller grants to Buyer a non-exclusive, non-terminable, royalty free license to use the intellectual property embedded in Equipment delivered to and paid for by the Buyer, as well as any drawings, design or data delivered to and paid for by the Buyer, for the purposes of owning, financing, using, operating and maintaining the relevant Equipment at Buyer's site. Such license may only be assigned to a subsequent owner of the Equipment or to an operations and maintenance subcontractor. Such license does not extend to the re-creation of the Equipment or the manufacture of spares or consumables by Buyer or third parties. Any software Seller owns and provides pursuant to this Agreement shall remain Seller's property. Seller provides to Buyer a limited, non-exclusive and terminable royalty free project-specific license to such software for the use, operation or maintenance at Buyer's site of any Equipment purchased hereunder to which the software is a necessary component. Buyer agrees not to copy, sub-license, translate, transfer, reverse engineer, or decode the software. Seller shall indemnify and hold harmless Buyer from any rightful claim of any third party that any Equipment or Service infringe a patent in effect in the USA, or country of delivery (provided there is a corresponding patent issued by the USA), or USA copyright or copyright registered in the country of delivery. If the Buyer notifies the Seller promptly of the receipt of any such claim, does not take any position adverse to the Seller regarding such claim and gives the Seller information, assistance and exclusive authority to settle and defend the claim, the Seller shall, at its own expense and choice, either (i) settle or defend the claim and pay all damages and costs awarded in it against the Buyer, or (ii) procure for the Buyer the right to continue using the Equipment or Service, or (iii) modify or replace the Equipment or Service so that it becomes non-infringing, or (iv) remove the infringing Equipment and refund the price. The above paragraph shall not apply to any misuse of Equipment or Equipment which is manufactured to the Buyer's design, or to alleged infringement arising from the combination, operation, or use of any Equipment or Services with other equipment or services when such combination is part of any allegedly infringing subject matter. The foregoing list of sub-sections (i), (ii), (iii), and (iv) and related terms state the entire liability of the Seller for intellectual property infringement by any Equipment or Service.
14. **Limitations on Liability.** Notwithstanding anything else contained in this Agreement and except claims of personal injury or 3<sup>rd</sup> party property damage, to the maximum extent permitted by law, and regardless of whether a claim is based in contract (including warranty or indemnity), extra-contractual liability, tort (including negligence or strict liability), statute, equity or any other legal theory:
  - a. THE TOTAL LIABILITY OF THE SELLER AND OF ITS INSURER FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THE PERFORMANCE OR BREACH OF THIS AGREEMENT OR USE OF ANY EQUIPMENT OR SERVICES SHALL NOT EXCEED THE TOTAL PRICE PAID BY BUYER UNDER THIS AGREEMENT OR (IN THE CASE OF AN AGREEMENT FOR SERVICES WITH A TERM OF MORE THAN ONE YEAR) THE ANNUAL PRICE PAYABLE BY BUYER UNDER THIS AGREEMENT;



GE

## Water & Process Technologies

- b. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY LOSS OF PROFIT OR REVENUES, LOSS OF PRODUCTION, LOSS OF USE OF EQUIPMENT OR SERVICES OR ANY ASSOCIATED EQUIPMENT, INTERRUPTION OF BUSINESS, COST OF CAPITAL, COST OF REPLACEMENT WATER OR POWER, DOWNTIME COSTS, INCREASED OPERATING COSTS, CLAIMS OF BUYER'S CUSTOMERS FOR SUCH DAMAGES, OR FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES;
- c. SELLER'S LIABILITY SHALL END UPON EXPIRATION OF THE APPLICABLE WARRANTY PERIOD, PROVIDED THAT BUYER MAY CONTINUE TO ENFORCE A CLAIM FOR WHICH IT HAS GIVEN NOTICE PRIOR TO THAT DATE BY COMMENCING AN ACTION OR ARBITRATION, AS APPLICABLE UNDER THIS AGREEMENT, BEFORE EXPIRATION OF ANY STATUTE OF LIMITATIONS OR OTHER LEGAL TIME LIMITATION BUT IN NO EVENT – TO THE EXTENT PERMITTED BY APPLICABLE LAW – LATER THAN FIVE (5) MONTHS AFTER EXPIRATION OF SUCH WARRANTY PERIOD.

For the purposes of this article, "Seller" shall mean Seller, its affiliates, subcontractors and suppliers of any tier, and their respective agents and employees, individually or collectively. If Buyer is supplying Seller's Equipment or Services to a third party, Buyer shall require the third party to agree to be bound by this article. If Buyer does not obtain this agreement for Seller's benefit for any reason, Buyer shall indemnify and hold Seller harmless from all liability arising out of claims made by the third party in excess of the limitations and exclusion of this article.

- 15. **Termination.** This Agreement and any performance pursuant to it may be terminated by either Party, and the consequences of such termination shall be as set out in the next paragraph, if the other Party
  - d. becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for the benefit of its creditors, or files for protection from creditors under any bankruptcy or insolvency laws; or
  - e. fails to make any payment when due or to establish any payment security required by this Agreement, or commits a material breach or defaults in its material obligations under this Agreement, and such default is not cured within thirty (30) days of written notice from the other Party.

Upon the termination of this Agreement by Buyer for cause (i) Seller shall reimburse Buyer the difference between that portion of the Agreement price allocable to the terminated scope and the actual amounts reasonably incurred by Buyer to complete that scope, and (ii) Buyer shall pay to Seller (a) the portion of the Agreement price allocable to Equipment completed, and (b) amounts for Services performed before the effective date of termination. Upon the termination of this Agreement by Seller for cause Buyer shall pay to Seller within thirty (30) days of receipt of invoice the price of all Equipment or Services delivered at the date of termination, plus an amount equal to all costs and expenses incurred in the engineering, sourcing, financing, procurement, manufacture, storage and transportation of the Equipment including materials, work in progress and any cancellation charges assessed against Seller by Seller's suppliers including reasonable overhead and profit on all such costs and expenses. Alternatively, if any schedule of termination payments has been agreed between the Parties, Buyer shall pay to Seller within thirty (30) days of receipt of invoice the amounts set out in that schedule.

Seller shall have the right to suspend performance upon written notice to Buyer in any case where Seller would have the right to terminate the Agreement under this article, without prejudice to Seller's right to terminate this Agreement for cause. Any cost incurred by Seller in accordance with any such suspension (including storage costs) shall be payable by Buyer upon submission of the Seller's invoice(s). Performance of the Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of such suspension.

- 16. **Governing Law, Dispute Resolution.** This Agreement shall be governed by the substantive laws of the State of California. In the event of a dispute concerning this Agreement, the complaining Party shall notify the other Party in writing thereof. Management level representatives of both Parties shall meet at an agreed location to attempt to resolve the dispute in good faith. Should the dispute not be resolved within thirty (30) days after such notice, one manner in which the complaining Party shall seek remedies is through arbitration. The seat of arbitration shall be the federal district court closest to the Buyer and the rules of the arbitration will be the Commercial Arbitration Rules of the American Arbitration Association, which are incorporated by reference into this article. Other methods of dispute resolution can also be considered with the agreement of both parties.

Notwithstanding the foregoing, each Party shall have the right to commence an action or proceeding in a court of competent jurisdiction, subject to the terms of this Agreement, in order to seek and obtain a restraining order or injunction to enforce the confidentiality intellectual property provisions set forth in the first two paragraphs of



GE

## Water & Process Technologies

article 13; nuclear use restrictions set forth in article 17, or to seek interim or conservatory measures not involving monetary damages.

17. **No Nuclear Use.** Equipment and Services sold by Seller are not intended for use in connection with any nuclear facility or activity, the Buyer warrants that it shall not use or permit others to use the Equipment or Services for such purposes, without the advance written consent of Seller. If, in breach of this, any such use occurs, Seller (and its parent, affiliates, suppliers and subcontractors) disclaims all liability for any nuclear or other damage, injury or contamination, and, in addition to any other rights of Seller, Buyer shall indemnify and hold Seller (and its parent, affiliates, suppliers and subcontractors) harmless against all such liability.
18. **Export Control.** Seller's obligations are conditioned upon Buyer's compliance with all USA and other applicable trade control laws and regulations. Buyer shall not trans-ship, re-export, divert or direct Equipment (including software and technical data) other than in and to the ultimate country of destination declared by Buyer and specified as the country of ultimate destination on Seller's invoice.
19. **Changes.** Each Party may at any time propose changes in the schedule or scope of Equipment or Services. All changes to the Equipment or Services shall be subject to mutual agreement via a written change order or variation, which shall only become effective once signed by both Parties. The scope, Agreement price, schedule, and other provisions will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change, after Seller's proposal date, in Buyer's site-specific requirements or procedures, or in industry specifications, codes, standards, applicable laws or regulations. It shall be acceptable and not considered a change if Seller delivers Equipment (including Equipment replacement under warranty) that bears a different, superseding or new part or version number compared to the part or version number listed in the Agreement, provided that in no circumstance shall this affect any other of Seller's obligations including those set forth in article 6.
20. **Conflicts; Survival, Assignment.** If there is any conflict between this Agreement and any written proposal or quotation provided by Seller, then the terms and conditions set forth in this Agreement shall prevail. If any term or condition of this Agreement or any accompanying terms and conditions are held invalid or illegal, then such terms and conditions shall be reformed to be made legal or valid, or deleted, but the remaining terms and conditions shall remain in full force and effect, and this Agreement shall be interpreted and implemented in a manner which best fulfills Parties' intended agreement. Those provisions which by their nature remain applicable after termination shall survive the termination of this Agreement for any reason. Seller may assign or novate its rights and obligations under the Agreement, in whole or in part, to any of its affiliates or may assign any of its accounts receivable under this Agreement to any party without Buyer's consent, and the Buyer hereby agrees, by signing this Agreement, to such assignment and to execute any document that may be necessary to complete Seller's assignment or novation. This Agreement shall not otherwise be assigned by either Party without the other Party's prior written consent, and any assignment without such consent shall be void.  
Seller may (i) manufacture and source the Equipment and any part thereof globally in the country or countries of its choosing; and (ii) may subcontract portions of the Services, so long as Seller remains responsible for such.
21. **No Third Party Beneficiary.** Except as specifically set forth in the article entitled "Limitations on Liability" and "No Nuclear Use", this Agreement is not intended to, and does not, give to any person who is not a party to this Agreement any rights to enforce any provisions contained in this Agreement.
22. **Entire Agreement.** This Agreement embodies the entire agreement between Buyer and Seller and supersedes any previous documents, correspondence or agreements between them. No modification, amendment, revision, waiver, or other change shall be binding on either Party unless agreed in writing by the Party's authorized representative. Any oral or written representation, warranty, course of dealing, or trade usage not specified herein shall not be binding on either Party. Each Party agrees that it has not relied on, or been induced by, any representations of the other Party not contained in this Agreement.
23. **Insurance**
  - 23.1 **General Provisions.** Prior to Buyer's execution of this Agreement, Seller shall provide satisfactory evidence of, and shall thereafter maintain during the term of this agreement, such insurance policies and coverages in the types, limits, forms and ratings required herein. The rating and required insurance policies and coverages may be modified in writing by the Buyer's Risk Manager or City Attorney, or a designee, unless such modification is prohibited by law.



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**23.1.1 Limitations.** These minimum amounts of coverage shall not constitute any limitation or cap on Seller's indemnification obligations.

**23.1.2 Ratings.** Any insurance policy or coverage provided by Seller or subcontractors as required by this Agreement shall be deemed inadequate and a material breach of this agreement, unless such policy or coverage is issued by insurance companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or higher.

**23.1.3 Cancellation.** The policies shall not be canceled unless thirty (30) days' prior written notification of intended cancellation has been given to Buyer by certified or registered mail, postage prepaid.

**23.1.4 Adequacy.** Buyer, its officers, employees and agents make no representation that the types or limits of insurance specified to be carried by Seller pursuant to this Agreement are adequate to protect Seller. If Seller believes that any required insurance coverage is inadequate, Seller will obtain such additional insurance coverage as Seller deems adequate, at Seller's sole expense.

**23.2 Workers' Compensation Insurance.** By executing this agreement, Seller certifies that Seller is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation, or to undertake self-insurance before commencing any of the work. Seller shall carry the insurance or provide for self-insurance required by California law to protect said Seller from claims under the Workers' Compensation Act. Prior to Buyer's execution of this Agreement, Seller shall file with Buyer either 1) a certificate of insurance showing that such insurance is in effect, or that Seller is self-insured for such coverage, or 2) a certified statement that Seller has no employees, and acknowledging that if Seller does employ any person, the necessary certificate of insurance will immediately be filed with Buyer. Any certificate filed with Buyer shall provide that Buyer will be given ten (10) days' prior written notice before modification or cancellation thereof.

**23.3 Commercial General Liability and Automobile Insurance.** Prior to Buyer's execution of this Agreement, Seller shall obtain, and shall thereafter maintain during the term of this Agreement, commercial general liability insurance and automobile liability insurance as required to insure Seller against damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from or which may concern operations by anyone directly or indirectly employed by, connected with, or acting for or on behalf of Seller. Buyer, and its officers, employees and agents, shall be listed as additional insureds under the Seller's insurance policies. Seller agrees to extend its existing general liability and automobile liability insurance coverage to Buyer, but only in respect of work performed by or on behalf of the named insured, Seller and only to the extent that the additional insured is held liable for the negligence or other culpability of Seller. Coverage under Seller's policy does not extend to liability arising out of the Buyers own negligence.

23.3.1 Seller's commercial general liability insurance policy shall cover both bodily injury (including death) and property damage (including, but not limited to, premises operations liability, products-completed operations liability, independent contractor's liability, personal injury liability, and contractual liability) in an amount \$1,000,000 per occurrence and a general aggregate limit in the amount of \$2,000,000.

23.3.2 Seller's automobile liability policy shall cover both bodily injury and property damage in an amount \$1,000,000 per occurrence and an aggregate limit of \$1,000,000. All of Seller's automobile and/or commercial general liability insurance policies shall cover all vehicles used in connection with Seller's performance of this Agreement, which vehicles shall include, but are not limited to, Seller owned vehicles, Seller leased vehicles, Seller's employee vehicles, non-Seller owned vehicles and hired vehicles.

23.3.3 Prior to Buyer's execution of this Agreement, copies of insurance policies or original certificates along with additional insured endorsements acceptable to Buyer evidencing the coverage required by this Agreement, for both commercial general and automobile liability insurance, shall be filed with Buyer and shall include Buyer and its officers, employees, as additional insureds. Said policies shall be in the usual form of commercial general and automobile liability insurance policies, but shall include the following provisions:

It is agreed that City of Riverside, and its officers, employees, are added as additional insureds under this policy, solely for work done by and on behalf of the named insured for Buyer of Riverside.

23.3.4 The insurance policy or policies shall also comply with the following provisions:



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## Water & Process Technologies

- a) The policy shall be endorsed to waive any right of subrogation against Buyer and its sub-consultants, employees, officers for services performed under this Agreement but only to the extent Buyer is provided coverages as an additional insured.
- b) If the policy is written on a claims made basis, the certificate should so specify and the policy must continue in force for one year after completion of the services. The retroactive date of coverage must also be listed.
- c) The policy shall specify that the insurance provided by Seller will be considered primary and not contributory to any other insurance available to Buyer and Endorsement No. CG 20010413 shall be provided to Buyer but only to the extent Buyer is provided coverages as an additional insured.

**23.5 Subcontractors' Insurance.** Seller shall require all of its subcontractors to carry insurance, in an amount sufficient to cover the risk of injury, damage or loss that may be caused by the subcontractors' scope of work and activities provided in furtherance of this Agreement, including, but without limitation, the following coverages: Workers Compensation, Commercial General Liability, Errors and Omissions, and Automobile liability. Upon Buyer's request, Seller shall provide Buyer with satisfactory evidence that Subcontractors have obtained insurance policies and coverages required by this section..

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## 10 Seller's Warranty - ZeeWeed Membrane Module

### 2 Year Full Replacement – Standard

This schedule sets out the warranty with respect to ZeeWeed Membrane Modules ("Membrane Modules"). No other warranties, expressed or implied are made in connection with the sale of these products, including, without limitation, warranties as to fitness for any particular purpose or use or merchantability of these products. The warranty provided herein will be the exclusive and sole remedy of Buyer, and in no event will the Seller be liable for any special, direct, indirect or consequential damages, including, without limitation, loss of profits. This warranty is not transferable.

#### 1 Product

This warranty applies to only the Membrane Modules supplied under the Contract of Sale. Membrane Module means the fibers and the potted plastic headers. This warranty does not cover air piping to the Membrane Module, permeate piping from the Membrane Module, piping connection fittings, connecting hardware and cassette frames with their associated components including but not limited to spacers, aerator tubes, aerator assemblies, screen, module dummies or module blanks.

Identification: Membrane Modules are shipped by the Seller with a serial number identification which confirms their place in the cohort set of Membrane Modules covered by this Membrane Module warranty.

#### 2 Seller

ZENON Environmental Corporation is the name of the Seller and is the Seller offering this warranty. The Seller may assign this warranty to other GE affiliates.

#### 3 Buyer

Buyer means City of Riverside

#### 4 Project

Project means the 360 membrane modules sold under this proposal number 234417.

#### 5 Contract of Sale

Contract of Sale means the sales contract governing the sale of Membrane Module(s) for the Project between Buyer and the Seller or its GE affiliate.

#### 6 Scope of Warranty

The Seller warrants that its Membrane Module(s) will be free of defects due to faulty materials or errors in manufacturing workmanship.

Regular Membrane Module inspection and normal fiber repair shall be the responsibility of Buyer.

All replacement Membrane Modules will be shipped on the basis of INCOTERMS 2010 FCA GE Manufacturing facility.

All ancillary costs including but not limited to bagging, boxing, crating, freight, freight insurance, applicable taxes, import duties, certifications, brokerage, receiving, forklift services, storage at site, re-attachment hardware, hose/clamp/camlock replacement, crane services, installation, fiber repair materials, glycerin flushing, commissioning and waste disposal are the responsibility of Buyer.

**Full Replacement** – Full Replacement means that in the case of a valid warranty claim for a Membrane Module failure, Buyer receives a replacement Membrane Module and does not pay for the value of use of the Membrane Module prior to failure.

**Prorated Replacement** – Prorated Replacement means Buyer pays for actual use of a membrane module from which Buyer has derived value over time. Prorated Replacement allows the Seller to pay reasonable compensation under warranty for any product use not enjoyed by Buyer due to premature failure.

The ratio of Full Replacement to Prorated Replacement in this Warranty is set out in Item 8 of Section 10.

#### 7 Warranty Start Date

For the original membrane modules in a plant, this membrane warranty will start on the earlier of:



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- a. The date that installation of the original Membrane Module(s) has been substantially completed, or
- b. Six months from the date of shipment of the original Membrane Module(s) to Buyer.

For replacement or expansion membranes, this membrane warranty will start on the earlier of:

- a. The date of installation, or
- b. 1 month from the date of delivery to site.

### 8 Warranty Duration

**Total Warranty Duration:** a total of 24 months composed of a Base Period and an Extended Period.

**Base Period with Full Replacement:** 24 months

All purchasers of ZeeWeed Membrane Modules are entitled to this Base Period of Full Replacement warranty coverage without purchasing an extended Seller's Warranty.

**Extended Period with Full Replacement:** a total of 0 months following the Base Period

Replacement Membrane Modules are covered by warranty only to the extent of the warranty of the original Membrane Module which has been replaced. At all events, this warranty shall expire and be of no force or effect 24 months following the Warranty Start Date.

### 9 Notification of Claim

All claims filed under this warranty shall be made in writing by Buyer within 30 days of identifying a defect.

Buyer shall provide the following information:

- a. A description of the defect giving rise to the claim;
- b. Photographs showing the manufacturing defect;
- c. The serial number(s) of the Membrane Module(s) which is (are) the subject of the warranty claim; and
- d. Operating data and repair history for the life of Membrane Modules which are the subject of a warranty claim.

### 10 Verification of Claim

After receipt of written notification of a defect, the Seller will promptly undertake such investigations as, in the Seller's opinion, are necessary to verify whether a defect exists. The Seller reserves the right to require additional data as necessary to validate claims. Buyer may, in the course of these investigations, be requested to return Membrane Module(s) to the Seller for examination. The Seller may also conduct reasonable tests and inspections at Buyer's plant or premises. If the results of the investigation do not validate the defect claimed, Buyer will reimburse the Seller for all reasonable expenses associated with said investigation, including expenses for all tests, inspections, and associated travel.

### 11 Satisfaction of Claims

The Seller will have the right to satisfy claims under this warranty in a flexible manner. Such flexibility may include the repair of existing Membrane Modules or changes in operating protocols or Membrane Module replacement or by upgrading failed Membrane Modules with newer Membrane Module(s) that may embody design and efficiency improvements. Buyer consents to the supply of replacement Membrane Modules which may be of a different design than original Membrane Modules.

### 12 Operating Information

To maintain the Membrane Module warranty, membrane system operation records from initial start-up date until claim must be maintained by Buyer and made available to the Seller upon request. Records must be provided in sufficient detail to verify uninterrupted compliance with the Seller's Operations and Maintenance Manual prepared by the Seller and supplied to Buyer as part of the Contract. At a minimum, operation data must include information on feed water quality, temperatures, flows, trans-membrane pressures, aeration rates, permeate quality, cleaning intervals, cleaning chemical concentrations, elapsed time since start-up, relevant analytical data and reporting of any screen bypass events.

Buyer shall maintain and share access to a single reference copy in electronic form of a Membrane Module map containing the history of activity by Membrane Module. Buyer shall log its procedures performed related to a Membrane Module including relocation of Membrane Modules, repairs, replacements and any other noteworthy events.



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Buyer authorizes the Seller to conduct any reasonable review of operation and maintenance records or to inspect facilities where Membrane Modules are installed, upon reasonable notice to Buyer. Such reviews and/or inspections are intended to also assist the Seller and Buyer in detection of membrane system faults and to optimize the care and operation of the Membrane Modules.

### 13 Limitation of Warranties

Occurrence of any of the following as reasonably determined by the Seller will void this warranty:

- a. A material failure to operate the membrane system in accordance with Seller's Operations and Maintenance Manual supplied to Buyer as part of the Contract, including material failure to adhere to the Seller's specified Membrane Module cleaning procedures and the use of anything other than Seller-approved Membrane Module cleaning agents.
- b. Failure to adhere to the preventive maintenance program as presented in the Seller's Operations and Maintenance Manual, in published product manuals and in specifications.
- c. Failure to adhere to all transportation and module storage recommendations outlined by Seller.
- d. Failure to ensure correct operation and/or functioning of the screening equipment.
- e. Introduction of destructive foreign materials into the Membrane Module tanks. Destructive foreign materials may include natural or human-made materials that are introduced into the membrane system influent channel or tanks originating from construction and maintenance activities or from inadequate pretreatment or from aquatic species including clams and snails or from damage to the tank or tank coating. Buyer shall be responsible to maintain correct function of the screen mechanism, to flush accumulated grit from the tank bottom and to flush accumulated foreign materials from the membrane modules.
- f. Failure to install and maintain operating data acquisition and electronic data transmission functions at the plant.
- g. Physical abuse or misuse, incorrect removal or installation of Membrane Modules by non-Seller personnel including fiber damage caused by operator error in handling of Membrane Modules or cassettes.
- h. Unauthorized alteration of any components or parts originally supplied by the Seller.
- i. Intentional damage.

### 14 Return Procedure

In the event that the return of a Membrane Module is required pursuant to this warranty, Buyer will first obtain a Return Goods Authorization (RGA) number from the Seller. Membrane Module(s) shipped to the Seller for warranty examination must be shipped freight prepaid. If Buyer desires temporary replacement Membrane Module(s) to replace those alleged to be defective and returned to the Seller for warranty examination, Buyer shall be responsible for the cost associated with any such replacements until examination of the returned Membrane Modules pursuant to this warranty is complete. Any Membrane Module examined by Seller as part of a warranty claim where the Membrane Module is subsequently found to be performing as warranted or where a Membrane Module failure is not covered under the warranty will be returned to Buyer, freight collect.



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## Water & Process Technologies

## 11 Signed Agreement

Through the issue of this proposal, GE signals their intent to enter into an Agreement with Riverside. Riverside and GE acknowledge that they have read and understood this Agreement and agree to be bound by the terms and conditions specified in it.

**Offered by Legal Entity:** ZENON Environmental Corporation, also known as GE or Seller

Accepted by: City of Riverside  
Legal Entity: also known as Riverside or Buver

Authorized  
Signature By:

**Title:**

**Signature** \_\_\_\_\_  
**Date:** \_\_\_\_\_

**Purchase Order No:**

Upon acceptance of this proposal, please forward the following either

- by email with .pdf attachments or
- by postal mail or
- by fax.

- 1) this signature page completed
- 2) a hard copy of your purchase order, and
- 3) any required tax exemption certificates

to: Attention: Contracts Administrator  
Please contact [Service.pocentral@ge.com](mailto:Service.pocentral@ge.com)  
for correct address  
or  
Fax No.: 905 469.2243

Fax No.: 905 469.2243

This agreement comes into force when GE has issued a formal acceptance of Riverside's Purchase order or formal acceptance of this Riverside signed agreement.

**CERTIFIED AS TO FUNDS AVAILABILITY**

BY: John S.  
Chief Financial Officer/ City Treasurer

Financial Officer/ City  
Manager

**APPROVED AS TO FORM:**

BY: Susan Wilson  
ASSISTANT CITY ATTORNEY



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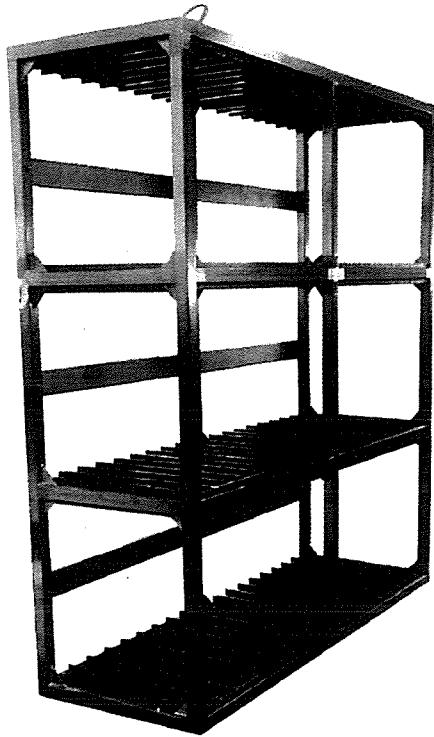
## Attachment A ZW1000 Shipping Frames

# ZW1000 Shipping Frame

### Reduced Cost



Increase shipping density three fold and save 75% in shipping and packaging costs.

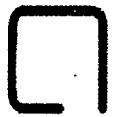


### Quicker Installation



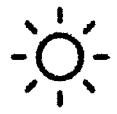
Speed up membrane installation and cleanup with minimized packaging.

### Reusable



Save money by reusing the same frame and crate during a membrane replacement.

### Environmentally Friendly



Reduce your carbon footprint with less packaging and more efficient shipping.

### More Information

For more information about the ZW1000 shipping frame and for all your water treatment needs, contact your Regional Sales Manager or Regional Lifecycle Manager to discuss options.



# ZeeWeed\* 1000 Shipping Frame

## Description and Use

The shipping frame for ZeeWeed 1000 modules is a robust, stainless steel unit that can reduce the shipping cost per module by 75% through reduced packaging, increased packing density and reduced handling.

A single shipping frame safely and securely carries up to 54 ZW1000 modules.

ZW1000 shipping frames are available for purchase or for rent depending on your needs. GE can help you determine the most cost-effective alternative for you.

## Packaging Information

Fourteen fully loaded shipping frames fit inside a 40 ft. shipping container. This allows you to transport more modules per container compared to the bag, box and crate methods.

Table 1 offers a comparison of the number of modules that will fit in a 40 foot container using the bag, box and crate method vs. the ZW1000 shipping frame method.

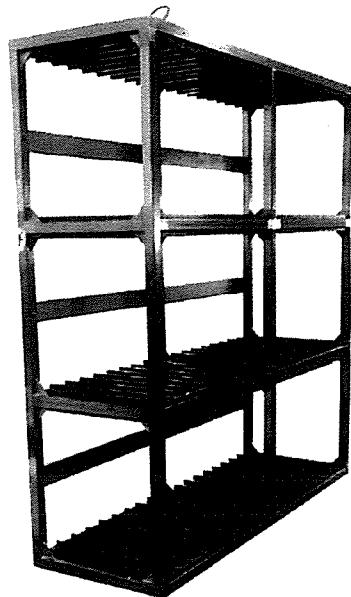


Table 1: ZeeWeed 1000 Modules per shipping container

Bag, Box & Crate	Frame
192 <sup>1</sup>	756 <sup>1</sup>

<sup>1</sup> Number of modules per 40 foot container



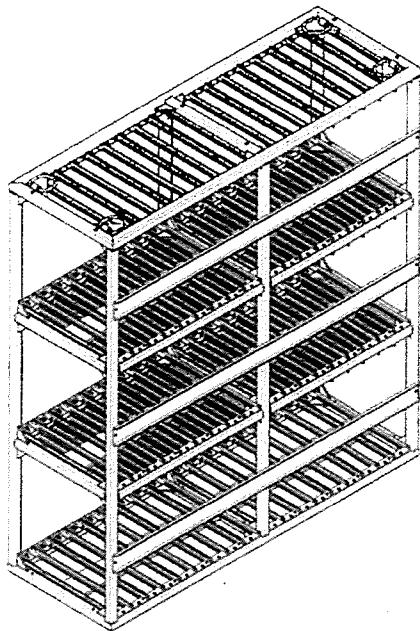
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## Dimensions and Weights

Tables 2 and 3 show the specifications of the ZW1000 Shipping Frame only and the crated ZW1000 shipping frame respectively.

**Table 2: Shipping Frame specifications**

<b>Item</b>	<b>Measurement</b>
Width	82.6 inch (209.8 cm)
Height	90.4 inch (229.7 cm)
Depth	28.1 inch (71.6 cm)
Volume	122 ft <sup>3</sup> (3.45 m <sup>3</sup> )
Weight – empty	1150 lbs. (523 kg)
Weight – full	2880 lbs. (1306 kg)



**Table 3: Crated frame specifications**

<b>Item</b>	<b>Measurement</b>
Width	88.6 inch (225.0 cm)
Height	96.5 inch (245.0 cm)
Depth	32.5 inch (82.5 cm)
Volume	161 ft <sup>3</sup> (4.55 m <sup>3</sup> )
Weight – empty	1560 lbs. (709 kg)
Weight – full	3290 lbs. (1493 kg)
Weight – shipping crate	410 lbs. (187 kg)
Capacity	54 Modules
Material of Construction	Stainless Steel 304

## More Information

For more information about the ZW1000 shipping frame and for all your water treatment needs, contact your Regional Sales Manager or Regional Lifecycle Manager to discuss options.