



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Water Plant Reverse Osmosis Membrane Purchase		
Presenter & Title:	Bob Van Gyseghem, Superintendent of Water & Wastewater		
Date:	July 3, 2023		
Please Check Appropriate Box:			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: EMSII, ESII			
Estimated Cost: \$166,725.00	Budgeted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
Executive Summary:			
<p>Fiscal year 2023-24 budget has funds allocated towards the replacement of 285 reverse osmosis membrane filters at the Water Treatment Plant. The plant has four (4) independent units. The new membranes will replace ones that were installed in 2014 in unit #1. The membranes have reached the end of their useful life. Expected life of the membranes is seven (7) years. Two bids were received on June 6, 2023 with the low bid provided by Consolidated Water Solutions.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Resolution • Bid Summary 			
Voting Requirements:			
<p><i>This motion requires a simple majority of affirmative votes for passage.</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the alderpersons has resulted in a tie; (b) when one half of the alderpersons elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
Recommendation / Suggested Action: <i>(how the item should be listed on agenda)</i>			
<p>Recommend approval of a Resolution authorizing the City Administrator to approve the purchase of reverse osmosis membrane filters from Consolidated Water Solutions at a cost of \$166,725.00</p>			

RESOLUTION NO. 2023-66

**RESOLUTION AUTHORIZING PURCHASE OF
Water Plant Membrane Filters from
Consolidated Water Solutions**

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

SECTION 1: That the City Administrator is hereby authorized to purchase, on behalf of the City of Geneva, membrane filters for the Water Plant (Exhibit A) from Consolidated Water Solutions in an amount not to exceed \$166,725.00.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this ____ day of _____, 2023

AYES: __ NAYS: __ ABSENT: __ ABSTAINING: __ HOLDING OFFICE: __

Approved by me this ____ day of _____, 2023.

Mayor

ATTEST:

City Clerk

BID DOCUMENTS
FOR
REVERSE OSMOSIS MEMBRANE FILTERS FOR MUNICIPAL
DRINKING WATER

CITY OF GENEVA, ILLINOIS

INDEX

<u>SECTION</u>	<u>PAGES</u>
Index	1
Notice to Bidders	2
Instructions to Bidders	3
General Description	4-5
Proposal	6
Affidavit of Experience	7
Certification for Bid	8
Certification of Compliance with Section 11-42.1-1 Of the Illinois Municipal Code	9
Certification of a Drug Free Workplace	10
Notice of Award	11
Product Data Sheet	12

NOTICE TO BIDDERS

Sealed bids submitted in duplicate, in a sealed envelope with the words "REVERSE OSMOSIS MEMBRANE FILTERS" clearly marked on it, will be received by the City of Geneva, Illinois until **10:00 a.m. on Monday, June 5, 2023** at the office of the City Administrator located at 22 South First Street, Geneva, IL 60134, at which time they will be publicly opened and read aloud for the purchase of 285 Filmtec XLE-440i Reverse Osmosis Membrane Filters

Instructions and specifications are available on the City of Geneva web site. www.geneva.il.us

Bidders shall submit along with their bids, a guaranty equaling 5% of their bid amount. This guaranty must be in the form of a Bid Bond made out to the City of Geneva, Illinois.

All persons working on this project shall be paid no less than current prevailing wages stipulated by the Illinois Department of Labor in the County of Kane and/or as determined by a Court of Law having jurisdiction.

The City of Geneva, Illinois reserves the right to reject any or all bids and waive technicalities.

Bidders may withdraw their proposal if a request is made in writing or in person before the date and time specified for the opening of the proposals.

INSTRUCTIONS TO BIDDERS

If any Bidder is in doubt as to the true meaning of any part of the specifications, or other contract documents, Bidder may submit to the Superintendent of Water and Wastewater & Supervisor Water Supply and Treatment a written request for an interpretation. An interpretation of the matter in question by issuing an "Addenda". No response to written requests for interpretation will be given that are received less than 5 business days before the bid opening.

Superintendent of Water & Wastewater: Bob Van Gyseghem. bvangyseghem@geneva.il.us
Supervisor Water Supply and Treatment: Mike Anderson. manderson@geneva.il.us

Bids, which are not signed by individuals making them, should have attached thereto a power of attorney evidencing authority to sign the bid on behalf of the person for whom it is signed.

Bids which are signed for a partnership should be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there should be attached to the bid a power of attorney evidencing authority to sign the bid, executed by the partners.

Bids which are signed for a corporation should give the correct corporate name thereof and the signature of the president or other authorized officer of the corporation manually written below the corporate name following the word "By Duane MILLER". If such a bid is manually signed by an official other than the president of the corporation, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the bid should be attached to it. Such a bid should also bear the attesting signature of the secretary of the corporation and the impression of the corporate seal.

The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The City will, not be responsible for any additional cost, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

Bidders shall not take advantage of any errors or omissions in the proposal and advertised contract.

Any errors discovered in the bids received shall be corrected using the unit price submitted. The contract will be awarded after these adjustments are made.

Bidder shall provide a minimum of five (5) municipal references where Bidder has provided FilmTec XLE-440i membrane filter elements as specified.

General Description

The membrane filter elements shall be genuine new, unused, standard 8-inch diameter by 40-inch long, thin-film composite, spiral-wound type FilmTec XLE-440i, without exception. Specifications to meet Product Data Sheet.

Elements shall have a reinforced fiberglass outer wrap, and the element's serial number, model number, and a flow direction arrow shall be clearly marked on each. The membrane shall be a composite material fabricated of a polyamide type membrane layer on a polysulfone support. Each element shall be iLEC™ interlocking type with O-rings, element-to-vessel connectors with O-rings, and reject seals.

O-rings and reject seals shall be EPDM and shall be standard products available from vendors other than the element manufacturer.

BONDS

Bid Bond: A 5% Bid Bond or Bid check is required.

TAXES

The City of Geneva is Tax Exempt. Tax Exempt Certificate available upon request.

PREVAILING WAGES

To the extent as required by law, contractors shall comply with the Illinois Prevailing Wage Act, 820 ILCS 130/.01 (the "Act") with rates to be paid, in effect at the time work is performed in the County where the work is performed. The successful bidder is responsible for posting and issuing current rates to its employees and subcontractors. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: <http://www.state.il.us/Agency/IDOL/rates/Rates.htm> . All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

FREEDOM OF INFORMATION ACT

Contractor acknowledges that the Freedom of Information Act, 5 ILCS 140/1 et seq. (the "Act") places an obligation on the City of Geneva to produce certain records that may be in the possession of the Contractor. Contractor shall comply with the record retention and documentation requirements of the Local Records Retention Act 5 ILCS 160/1 et seq. and the Act and shall maintain all records relating to this Contract in compliance with the Local Records Retention Act and the Freedom of Information Act (complying in all respects as if the Contractor was, in fact, the City). Upon notice from the City, Contractor shall review its records promptly and produce to the City within two business days of said notice from the City the required documents which are responsive to a request under the Act. If additional time is necessary to comply with the request, the Contractor may request the City to extend the time to do so, and the City will, if time and a basis for extension under the Act permits, consider such extensions. In the event Contractor fails to produce the requested records or fails to produce the requested records within the time period required above and the City is assessed a fine, fee or penalty for failure to timely comply with the Act do to Contractor's actions, Contractor shall reimburse City for all fines, fee or penalties, including reasonable attorney's fees, paid by the City.

WARRANTY

Contractor will supply City Staff with manufacturer's warranty and all associated product manuals.

DELIVERY SCHEDULE

Bidders shall state the date or number of days the delivery of membrane elements will be made after receiving the signed purchase order.

DELIVERY

Delivery of membrane elements will be made to the Geneva Water Treatment Facility, 4000 Keslinger Rd. Geneva, IL 60134 between the hours of 7:00 AM to 2:30 PM Monday-Friday except for holidays.

PROPOSAL

The following proposal is hereby made to the **City of Geneva, Illinois**, hereinafter called the Owner.

Proposal is submitted in duplicate by Consolidated Water Solutions

The undersigned hereby proposes and agrees to furnish all 285 genuine new, unused Filmtec XLE-440i Reverse Osmosis Membrane Filters in accordance with the specifications and documents attached.

In submitting this proposal the undersigned declares that the only persons or parties interested in the Proposal as principals are those named herein and that the Proposal is made without collusion with any other person, firm, or corporation.

The Undersigned acknowledges receipt of the following Addenda.

<u>Addendum No.</u>	<u>Date</u>	<u>Initials</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

The Undersigned declares that he/she has examined the Contract Documents and agrees to furnish all materials, and services necessary for the delivery of 285 genuine new, unused FilmTec XLE-440i Reverse Osmosis Membrane Filter Elements.

BIDDER NAME: Consolidated Water Solutions

BIDDER ADDRESS: 10100 "J" Street, Omaha, Nebraska 68127

BIDDER PHONE NUMBER: 800-852-1150

FilmTec XLE-440i Elements Quantity 285 Unit Price \$ 585.⁰⁰ Cost \$585.⁰⁰ USD each
USD each

Delivery Cost: \$ included in price above

Delivery Time: September 19th, 2023

Total Bid Amount: \$ 1,166,725.⁰⁰ USD

AFFIDAVIT OF EXPERIENCE

STATE OF NEBRASKA)
COUNTY OF Douglas) SS

_____ being duly sworn, that he is

DUANE MILLEN, President of Consolidated Water Solution
(Sole owner, member of firm, corporate official) (Individual, firm, or corporate name)

which has done work for the following parties of the general kind and approximate magnitude under this contract:

<u>Name of Owner</u>	<u>Job Description</u>	<u>\$ Amount</u>
<u>Consolidated Water Solutions</u>	<u>RO membranes</u>	<u>\$166,725</u>
	<u>285 XLE-440i membranes by Filmtec</u>	
	<u>at \$585.⁰⁰ each</u>	

and that _____ owns or has available
(he, said firm, said corporation)
for immediate use on the proposed work the following plant and equipment:

<u>Machine</u>	<u>Year Built</u>	<u>Machine</u>	<u>Year Built</u>
<u>Filmtec XLE-440i</u>			<u>2023</u>
<u>membranes</u>			

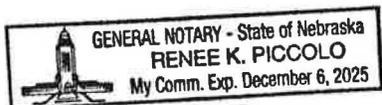
and that _____ will be assigned to work
(Name of Superintendent)
under this contract, and that his experience in this kind of work is as follows:

<u>Name of Job</u>	<u>Engineer or Owner</u>
<u>membrane replacement</u>	

Signature: [Handwritten Signature]

Subscribed and sworn to before me this 25th day of May 2023.

Renee K. Piccolo
Notary Public



CERTIFICATION FOR BID

The undersigned, as a duly-authorized representative of the Bidder do hereby certifies to the City of Geneva, Kane County, Illinois, that the bidder is not barred from bidding upon the Bid Specifications for the Project known as

FilmTec XLE-440i Membrane Filter Elements
as a result of a violation of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (As Amended).

All laborers, mechanics and any other workers employed in this Public Work contract, weather employed by the Contractor or any Sub-Contractors, shall be paid in accordance with the prevailing wages accepted and approved by The City of Geneva as attached to the Project Specification.



NAME

Consolidated Water Solutions

COMPANY

5 - 25 - 2023

DATE

CERTIFICATION OF COMPLIANCE WITH SECTION 11-42.1-1
OF THE ILLINOIS MUNICIPAL CODE

The undersigned, upon first being duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that

Duane Miller
Consolidated Water Solutions

(Contractor) is not currently delinquent in the payment of any tax administered by or owed to the Illinois Department of Revenue, or otherwise in default upon any such tax as defined under Chapter 24, Section 11-42.1 Illinois Revised Statutes.

Consolidated Water Sol.
CONTRACTOR'S NAME

BY [Signature]
(TITLE) President

Subscribed and sworn before me this 25th

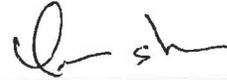
Day of May, 2023

Renee K. Piccolo
Notary Public



CERTIFICATION FOR DRUG FREE WORK PLACE

The undersigned, as a duly-authorized representative of the Contractor do hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor ensures that he/she will operate a work environment which is free of any and all illegal drugs in accordance with the Drug Free Workplace Act of January, 1992. In addition, any prescribed drugs that will impair an employee's judgement or ability to work safely should not be allowed on the work site or on any satellite location.



NAME

Consolidated Water Solution

COMPANY

May 25, 2023

DATE

**References for Consolidated Water Solutions Bid Submission for
“Reverse Osmosis Membrane Filters for Municipal Drinking Water”**

TO: City of Geneva, Illinois

City of Des Moines - Des Moines Water Works:
Mike Adams, (515) 283-8710, adams@dmww.com
2201 George Flagg Parkway | Des Moines, Iowa 50321

City of Harlan, Iowa
Donald Cote, (712)755-5182, dcote@hmunet.com
Harlan Municipal Utilities
2412 Southwest Ave., Harlan, IA

City of Fort Madison Water Plant
Norman Dodson, (319) 463-5200, ndodson@fortmadison-ia.com
2489 180th Street, Montrose, Iowa, 52639

City of Council Bluffs
Doug Drummey, (712) 328-1006, ddrummey@cbwaterworks.com
2000 North 25th Street, Council Bluffs, Iowa, 51502

Rural Water District #4
Keith Murphy, (785) 456-7935, rwd4pt@wamego.net
Pottawatomie County
6005 Camp Creek Rd. Bellvue, NE 66407

RESOLUTION NO. 2023-66

RESOLUTION AUTHORIZING PURCHASE OF
Water Plant Membrane Filters from
Consolidated Water Solutions

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

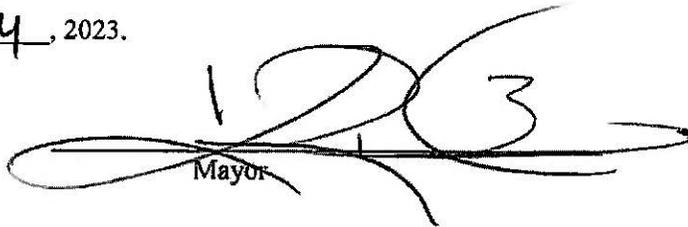
SECTION 1: That the City Administrator is hereby authorized to purchase, on behalf of the City of Geneva, membrane filters for the Water Plant (Exhibit A) from Consolidated Water Solutions in an amount not to exceed \$166,725.00.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this 3 day of July, 2023

AYES: 9 NAYS: ABSENT: 1 ABSTAINING: HOLDING OFFICE: 10

Approved by me this 3 day of July, 2023.


Mayor

ATTEST:


City Clerk

NOTICE OF AWARD
Reverse Osmosis Membrane Filters for Municipal Drinking Water
CITY OF GENEVA
2023

To:
Consolidated Water Solutions
10100 "J" Street
Omaha, Nebraska 68127
Date: July 3, 2023

The Owner has considered the Bid submitted by you for the above described **Work** in response to its Advertisement for Bids and Instructions for Bidders.

You are hereby notified that your Bid has been accepted in the amount of One Hundred Sixty-Six Thousand Seven Hundred Twenty-Five dollars. (\$166,725.00).

You are required to return an acknowledged copy of this Notice of Award to the Owner.

City of Geneva

NAME: Stephanie K. Daukins

TITLE: City Administrator

DATE: July 3, 2023

ACCEPTANCE OF NOTICE

Receipt of above **NOTICE OF AWARD** is hereby acknowledged:

COMPANY: Consolidated Water Solutions

NAME: Christine Jandel Christina Sandorel

TITLE: Account Specialist

DATE: 8/8/2023



Product Data Sheet

FilmTec™ XLE-440i Element

Description

Ideal for: reverse osmosis plant managers and operators dealing with controlled-pre-treatment and seeking high-quality permeate water at low operating costs.



FilmTec™ XLE-440i, the lowest pressure FilmTec™ RO Element:

- Provides lower energy costs and more productivity, especially in cold waters
- Minimizes equipment CAPEX in designs with savings in elements and pumping due to the 440 ft² active area
- Delivers the most effective cleaning performance, robustness and durability due to its widest cleaning pH range (1-13) tolerance and the support of DuPont technical representatives
- Includes iLEC™ interlocking end caps, reducing system operating costs and the risk of o-ring leaks that can cause poor water quality

Product Type

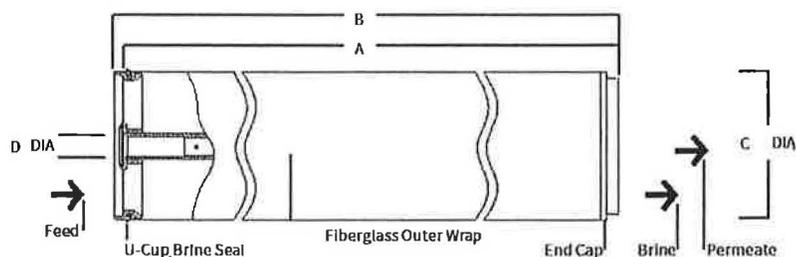
Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

FilmTec™ Element	Active Area		Feed Spacer	Permeate Flow Rate		Typical Stabilized	Minimum Salt
	(ft ²)	(m ²)	Thickness (mil)	(GPD)	(m ³ /d)	Salt Rejection (%)	Rejection (%)
XLE-440i	440	41	28	14,000	53	99.0	97.0

1. Permeate flow and salt (NaCl) rejection based on the following standard test conditions: 2,000 ppm NaCl, 125 psi (8.6 bar), 77°F (25°C), pH 8, 15% recovery.
2. Flow rates for individual elements may vary but will be no more than +15%.
3. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.
4. Sales specifications may vary as design revisions take place.
5. Active area guaranteed ± 5%. Active area as stated by DuPont Water Solutions is not comparable to nominal membrane area often stated by some manufacturers.

Element Dimensions



FilmTec™ Element	Dimensions – inches (mm)						1 inch = 25.4 mm	
	A		B		C		D	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
XLE-440i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID

1. Refer to [FilmTec™ Design Guidelines for multiple-element systems of 8-inch elements](#) (Form No. 45-D01695-en).
2. Element to fit nominal 8-inch (203-mm) I.D. pressure vessel.
3. Individual elements with iLEC™ endcaps measure 40.5 inches (1,029 mm) in length (B). The net length (A) of the elements when connected is 40.0 inches (1,016 mm).

Operating and Cleaning Limits

Maximum Operating Temperature ^a	113°F (45°C)
Maximum Operating Pressure	600 psig (41 bar)
Maximum Element Pressure Drop	15 psig (1.0 bar)
pH Range	
Continuous Operation ^a	2 – 11
Short-Term Cleaning (30 min.) ^b	1 – 13
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ^c	< 0.1 ppm

- a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
- b. Refer to [FilmTec™ Cleaning Guidelines](#) (Form No. 45-D01696-en).
- c. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, DuPont Water Solutions recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.

Additional Important Information

Before use or storage, review these additional resources for important information:

- [Usage Guidelines for FilmTec™ 8" Elements](#) (Form No. 45-D01706-en)
- [Start-Up Sequence](#) (Form No. 45-D01609-en)

Product Stewardship

DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.

Please be aware of the following:

- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.
- Permeate obtained from the first hour of operation should be discarded.

Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

Have a question? Contact us at:

www.dupont.com/water/contact-us

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

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