

## VILLAGE OF PENDER

---

614 Main Street  
Pender, Nebraska 68047  
City Office: 402-385-3232  
Fax: 402-385-2349  
E-mail: [pendervillage@abnebraska.com](mailto:pendervillage@abnebraska.com)

### 2023 Annual Report, WSF #10018 Pender Ion Exchange Upgrade

- **Project Progress within the past year and currently**

This project:

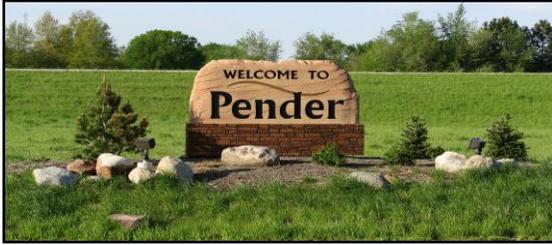
The purpose as we outlined in the initial report was that The Village of Pender is requesting cost share through the Water Sustainability Fund to refurbish their existing ion exchange vessels. Refurbishment of the vessels involves the exact replacement of the previously approved and installed ion exchange media in accordance with the AWWA B100- 2016 Standard for filter material. Other materials provided will be a 15" layer of support gravel, a 48" layer of high-capacity cation resin, 110 underdrain nozzles, four (4) manway gaskets, and new polyvinyl chloride (PVC) brine grids. Completing this project will help the Village of Pender break their current cycle of purchasing excessive amounts of salt and resume normal operation of their water treatment plant. Water savings resulting from this project will be on the order of 1,056,000 gallons per month, which will benefit both the aquifer and hydrologically connected Logan Creek Dredge.

Project costs not covered by a Water Sustainability Fund grant will be paid for by the Village of Pender funds. The anticipated completion date for this project is spring 2023.

This project involves the refurbishment of two ion exchange vessels at the water treatment plant in the Village of Pender. Replacement of the filter material will be in accordance with American Water Works Association (AWWA) B100-216 Standard. Since this project involves the replacement of the ion exchange media in an existing system. Certified contractors and field service technicians with Kurita America will perform the replacement and monitoring once the system has been refurbished. The original ion exchange vessels were designed and supplied by Tonka Water, a Kurita America brand. The plant operation will run according to Kurita America Engineering design. Kurita America field service technicians and certified contractors will perform the labor associated with refurbishing two ion exchange vessels. Kurita America will also supply the components and equipment necessary to perform the work. The project will include the exact replacement of the previously approved and installed ion exchange media in accordance with the AWWA B100-2016 Standard for filter material.

Because Kurita America are the experts in this field, they are a very busy organization. Therefore, even contacting them back this past fall when we as the Village of Pender received the grant for the Water Sustainability funds, The Village scheduled right away with Kurita to come out. Kurita originally told the Village of Pender that they would be out in February to do the site visit and install the ion exchanger as part of the grant agreement and the appointment the village booked with them.

This progress unfortunately then slowed due to Kurita's schedule and how busy they are. Therefore, they contacted the Village in early February stating that they were two months behind and that they would be up in Pender in early April to do the site visit and install the ion exchanger.



## VILLAGE OF PENDER

---

614 Main Street  
Pender, Nebraska 68047  
City Office: 402-385-3232  
Fax: 402-385-2349  
E-mail: [pendervillage@abbnebraska.com](mailto:pendervillage@abbnebraska.com)

Therefore, as it is March currently, this is nothing the Village nor our timeline could control. We still have until October of 2023 to get this all completed, and we will have this projected completed well before that deadline. The month of April will be here soon and we as the Village of Pender look forward to working with Kurita on getting these ion exchangers installed and this project successfully completed.

- **Project Related Activities for 2023**

Early April 2023, Kurita America will be here to work with Sponsor and Agreement Manager to install the ion exchanger and complete the project. I as Agreement Manager, would conclude that this project will be completed in the spring of 2023.

<u>Tasks</u>	<u>Year 1\$</u>	<u>Year 2\$</u>	<u>Year 3\$</u>	<u>Remaining</u>	<u>Total \$ Amt.</u>
Permits	\$18,000				\$18,000
Engineering					\$96,000
Construction		\$96,000			\$183,000
Close-out		\$87,000	\$96,000	\$8,000	\$8,000
					<b>Total: \$305,000</b>

- **Forecast for remainder of the project**

Year WSF Grant: \$172,008.00

Pender Portion Project Cost: \$114,672.00

Total Project Cost: \$286,680.00

Completion of Project Overall: Spring 2023, with final report written, budget breakdown of funding submitted, along with all project related receipts and required administrative paperwork on or before October 1, 2023.

Annual Report Respectfully Submitted by Agreement Manager, Pender Village Administrator  
Pete Rizzo

March 20, 2023

*Pete Rizzo*

3/20/2023