

**CITY OF MARSHALL AND MARSHALL MUNICIPAL UTILITIES
AGREEMENT**

Agreement Title: Chloride Reduction Coordination		Agreement Number: 10A.1.6
Date of Adoption: December 17, 2013	Updated: November 3, 2020	Effective: January 1, 2021

Subject Matter:

The Minnesota Pollution Control Agency (MPCA) has communicated to Marshall the need to comply with the new water quality-based effluent limit (WQBEL) in Marshall's National Pollutant Discharge Elimination System (NPDES) to the Redwood River. One standard is in regard to the amount of chloride that enters the river.

One of Marshall's primary sources of chloride is salt used in softening the potable (drinking) water supply. Water quality analysis from multiple samples collected over a period from January 2015 to May 2016 have indicated that the Redwood River receives an average of 11,350 pounds per day of chloride discharged from the Marshall Wastewater Treatment Facility (WWTF). Of this amount, residential, commercial and light industrial water softening systems contribute 7,330 pounds per day of chlorides. The City of Marshall's current NPDES permit contains the requirement to attain a chloride (salt) concentration limit of 261 mg/l or less by 2024.

To succeed in reducing the amount of chlorides discharged, it will be necessary for the City of Marshall's wastewater and MMU's water supply to work together in reducing the need for salt-based softening of the community water supply along with reduction in chloride discharge from industrial sources. To this end, the City adopts City Resolution No. 4430, Second Series which outlines its commitment to MMU to support the creation of a softer drinking water, copy attached.

Scope of Activity:

The City of Marshall pursuant to Resolution 4637, funds their portion of the construction of the Water Softening Enhancement Project. The City stands ready to provide their portion of the capital to construct the improvements up to the limit of \$2,555,953, which sum is inclusive of the design funds previously provided by the City. The City has contributed \$1,294,639 through October 30, 2020.

Marshall Municipal Utilities by this agreement resolves to:

Accept and Use PSIG grant funding in the amount of \$7,000,000 and provide \$2,029,539 in MMU funding for the construction of said improvement. Current total project costs are estimated to be \$11,585,492.

Marshall Municipal Utilities Commission

Condy Verschae tse
Chairperson of the Commission

[Signature]
Secretary of the Commission

Date: 12/15/2020

City of Marshall

[Signature]
Mayor

[Signature]
City Clerk

Date: 11-24-2020

Resolution No. 4637, Second Series
A Resolution Amending Resolution 4608, Second Series
in Support of Chloride Reduction in Water
Discharged to the Redwood River

Whereas, the City of Marshall (City) operates a wastewater treatment facility that treats the community's wastewater prior to its discharge into the Redwood River, pursuant to a National Pollutant Discharge Elimination System (NPDES) Permit issued by the Minnesota Pollution Control Agency (MPCA). The City's NPDES permit contains a chloride (salt) limitation that must be achieved by 2024. The City and Marshall Municipal Utilities (MMU) have been in discussion about methods to attain the reduction in chloride (salt) discharged into the Redwood River; and

Whereas, City and MMU have each retained the services of qualified consultants to provide analysis and recommendations regarding the most cost-efficient methods to attain compliance with the required chloride limits as set forth by the MPCA permit. That analysis has included both a review of upgrades to the existing water treatment plant and has also included a review of retrofitting the City's wastewater treatment plant; and

Whereas, the City and MMU desire to coordinate the planning between the community's water utility and its wastewater treatment facility by developing a process to lower the wastewater treatment facility's chloride discharge. Based upon the consultant's analysis, it has been determined that the most significant measure to lower the chloride is to provide softer water from MMU's Water Treatment Plant. To achieve the permit's required result, upgrades to the existing Water Treatment Plant would have to occur at an estimated cost of \$10,606,000 based upon fully designed plans by MMU's water engineering consultant, AE2S. MMU applied for a \$7,000,000 Minnesota Public Facilities Authority Point Source Implementation Grant (PSIG) and has received notice the PSIG funding will be available for upgrades to MMU's Water Treatment Plant, the "project". With the "project" fully designed and with notice of the PSIG grant, the local funding must be put in place; and

Whereas, bids for the "project" were solicited, were reviewed and were opened on July 9, 2019. MMU received bids from two (2) responsible bidders. The estimated "project" costs as set forth above have been replaced by actual bids as received. The low responsible bid exceeded the engineer's estimate and further exceeded the amount as previously approved by Council Resolution No. 4608; and

Whereas, the low responsible bid received for the "project" plus engineering costs contracted to date totaled \$11,104,492. In addition to the bid, it is recommended that a 5% contingency amount be added to "project" costs for a total "project" cost of \$11,585,492; and

Whereas, the total local funding for the "project" is now projected to be \$4,585,492 (total project costs \$11,585,492 minus PSIG grant \$7,000,000.00 = \$4,585,492).

Now Therefore Be It Resolved, that the local funding for the "project" is set forth below:

With the local funding for the "project" is projected to be \$4,585,492.00, the City commits to funding 55.74% of the local portion of the "project" costs projected to be \$2,555,953. The remaining local portion of projected funding shall be paid by MMU providing 44.26% of the local portion of funding projected to be \$2,029,539. To the extent the actual "project" costs are different than the projected total of \$11,585,492 the City and MMU will share said differences according to the stated percentages herein; and

Be it Further Resolved, the City hereby:

1. Commits to all measures required to attain NPDES Chloride compliance including the measures as outlined in the City's August 3, 2017 report prepared and submitted by their consultant, Bolton & Menk, as set forth below:
 - a. Support Marshall Municipal Utilities further softening of the community water supply quality to 5-8 grains using Lime/Soda Ash Softening to reduce Ion Exchange softening brine discharge.
 - b. Establish chloride surcharge on customers of the City of Marshall wastewater treatment facilities that have an industrial treatment agreement. Remit revenue collected from the surcharge to MMU in support of their further softening.
 - c. If it is determined by MMU to be required, authorize MMU adding chloride surcharge to the monthly utility bill for wastewater (sewer) customers invoiced by MMU. MMU is authorized to collect and retain said revenue. Currently, MMU is not contemplating the need for this type of surcharge.
 - d. Public and Industry education to reduce chlorides at the source.
 - e. Potential incentive program to set all softeners to the most efficient settings.
 - f. Set industrial limits in SIU Agreements.
 - g. Apply for MPCA Variance on chloride limit.
 - h. If all of the above measures have been implemented and chloride limits are not met; the City should, by ordinance, end the practice of Ion Exchange softening, if needed to reach final limit; and

Be it Further Resolved, the City hereby:

Approves the award by the Marshall Municipal Utilities of the "project" contract to the low bidder KHC Construction Company of Marshall, and authorizes the MMU Commission to enter into said contract, and further recognizes and commits to the City portion of local funding in the amount of \$2,555,953.

Upon vote being taken thereon, the following Council Members voted in favor:

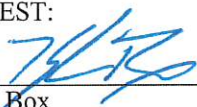
and the following voted against the same:

whereupon the resolution was declared passed and adopted this 23 day of July, 2019.



Robert J. Byrnes, Mayor

ATTEST:



Kyle Box
Its: City Clerk

This Instrument Drafted by:
Dennis H. Simpson
Marshall City Attorney
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Marshall, MN 56258