



## Board of Aldermen Request for Action

**MEETING DATE:** 4/18/2023

**DEPARTMENT:** Public Works

**AGENDA ITEM:** Resolution 1218, Chem-Sult as the approved vendor for water production chemicals

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**REQUESTED BOARD ACTION:**

A motion to approve Resolution 1218, approving Chem-Sult as the approved vendor for water production chemicals.

**SUMMARY:**

In the production of water the City uses certain chemicals for coagulation of sediments and disinfection. Staff evaluates the properties and results of how different chemicals perform from different vendors. City staff has found that the products provided by Chem-Sult have proven to produce the best results. (see memo from Bob Lemley)

Annually the city uses approximately:

Sodium Chlorite	29,500 lbs.
Permanganate	7,200 lbs.
Polymer	6,500 lbs.
Coagulant	46,300 lbs.
Phosphate	6,000 lbs.
Sodium Hypochlorite	900 gals

We spend approximately \$90,000 - \$95,000 which is included in the budget.

**PREVIOUS ACTION:**

None

**POLICY ISSUE:**

Water Quality

**FINANCIAL CONSIDERATIONS:**

This expense is budgeted in the water plant production operation budget

**ATTACHMENTS:**

- |                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| <input type="checkbox"/> Ordinance              | <input type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution  | <input type="checkbox"/> Plans    |
| <input type="checkbox"/> Staff Report           | <input type="checkbox"/> Minutes  |
| <input checked="" type="checkbox"/> Other: memo |                                   |

**RESOLUTION 1218**

**A RESOLUTION APPROVING CHEM-SULT AS THE PREFERRED VENDOR  
FOR WATER TREATMENT PRODUCTION CHEMICALS**

**WHEREAS**, in the water treatment production process various chemicals are used to treat, disinfect and produce safe drinking water; and

**WHEREAS**, City staff has evaluated these chemicals from a number of vendors; and

**WHEREAS**, the products supplied by Chem-Sult provide the best results for Smithville's water.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF SMITHVILLE, MISSOURI:**

**THAT** Chem-Sult is the City of Smithville's preferred vendor for water treatment production chemicals.

**PASSED AND ADOPTED** by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 18<sup>th</sup> day of April, 2023.

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Damien Boley, Mayor

ATTEST:

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Linda Drummond, City Clerk

To: Chuck Soules, Public Works Director

From: Robert Lemley, Utilities Superintendent

Ref: Treatment Chemicals Water Plant

Chuck,

This memo is about how we determine what chemicals we use at the water treatment plant.

The process for deciding which chemicals we use at the water plant is a long process. We must do a jar test which takes about two to three days of testing. If we feel the chemical is worth trying it will be introduced to the plant, and on average, a three-week study will be conducted. At the end of the study, we will talk pricing and supply.

In the past some chemicals worked fine in the jar test study, but when introduced to the plant, do not do as well. When this happens, we spend a lot of overtime processing the chemicals out of the plant, i.e., backwashing. This wastes a lot of water and manpower. We have also run into supply issues. Some companies promise to deliver on time, but always have an excuse when they can't deliver on time. This is unacceptable.

Chem-Sult, the current company we use right now, has a good product at a reasonable price. They deliver when asked and have been a good supplier for many years now.

We are always looking for a better product at a good price for our customers. Companies come in all the time, and we take the time to conduct jar tests. If the product works and is priced in market value, we will use them.

I recommend that the City purchase chemicals for the water treatment plant from Chem-Sult.

Thank you,

Robert J. Lemley,  
Utilities Superintendent