



PERCHLORATE REMOVAL SOLUTION

ECO-FRIENDLY CONTAMINANT REMOVAL FOR WATER CIRCULAR ECONOMY

TOXSORB removes inorganic contaminants from water and wastewater by pinpointing and recovering pollutants, creating potassium perchlorate with high market value while enabling production of high-quality water. TOXSORB helps minimize waste, OPEX and environmental impact, while boosting savings, by implementing a cost-effective and proven solution that achieves enhanced water remediation, while creating new revenue streams.

COST-EFFECTIVE & SUSTAINABLE



Highly efficient aquifer remediation

Media does not accumulate hazardous metals



Minimized haulage

Reduces the need for liquid fraction handling



Double-value process

Reduces toxins and creates a highly valuable asset



Saves costs

Reduces Capex and Opex due to smaller size



Efficient & sustainable

Selectively removes target pollutants

RECOVER, REUSE AND RENEW POLLUTANTS INTO VALUABLE ASSETS

TOXSORB has developed a technology for selective removal of ClO_4^- from groundwater. The core of this technology includes a Precipitation Agent (PA) which selectively binds to the ClO_4^- anion. This binding creates a PA- ClO_4 solid complex that can be separated from the brine by physical means. Once separated from the water, the complex goes through a regeneration process to recover the PA for reuse. The system includes two modules. The first is the water treatment, where the PA is added to the water and selectively removes ClO_4^- . The second consists of the PA regeneration form PA-Cl for reuse in the first module, and the ClO_4^- is recovered as KClO_4 Potassium Perchlorate.

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Perchlorate Removal

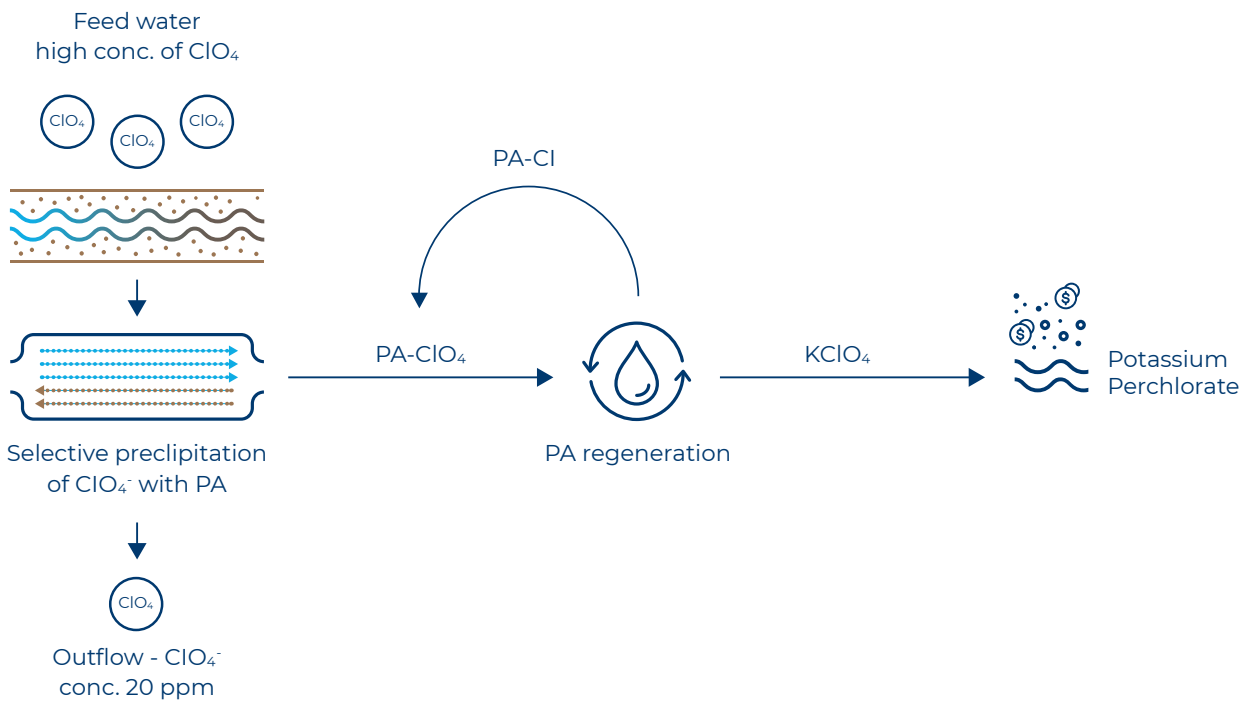


Figure 1. ToxSorb's perchlorate removal approach

DRIVING GLOBAL PUBLIC HEALTH AND SUSTAINABILITY

A business unit of the WFI group, ToxSorb delivers proven water and wastewater treatment solutions via proprietary technologies. ToxSorb's robust and cost-effective platform for removing heavy metals and other contaminants from drinking water exceeds the highest international standards. Our experienced and dedicated multidisciplinary team utilize their innovative approach to enable our global customer base to bring their unique water goals to fruition, while simultaneously curtailing pollution and saving costs.

LET'S CREATE MORE VALUE FROM WATER - TOGETHER
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TOXSORB
by WFI Group