CASE STUDY

Chemical Processing Facility Reduces Annual Chemical Costs and Eliminates Hydrogen Sulfide from Wastewater with ChemTreat Solution

Background

A chemical processing facility in the Southern US generates process wastewater with high levels of hydrogen sulfide (H_2S). The disposal site where this water is transported requires 0 ppm H_2S in the wastewater, imposing severe financial penalties on facilities that do not comply with this requirement.

Unable to remove H_2S from their wastewater with industry-standard triazine scavengers, the facility reached out to ChemTreat for help.

Solution

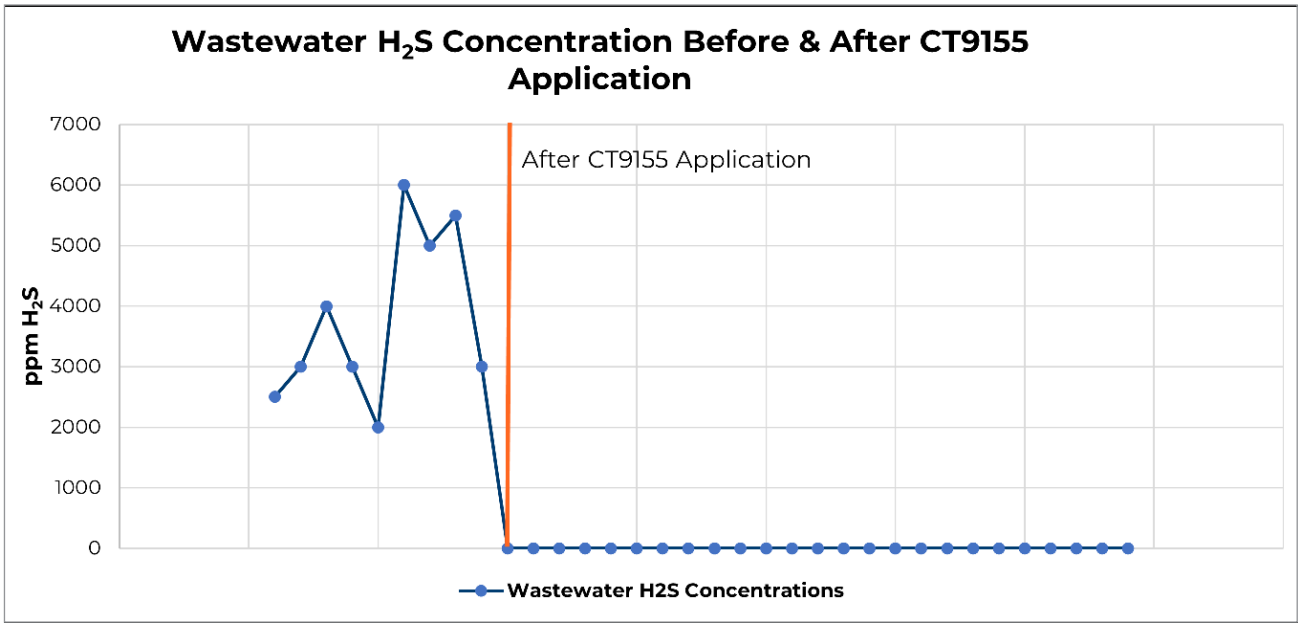
After consulting with ChemTreat's experienced refining team, the facility decided to implement our H_2S treatment product CT9155.

This product was selected because, unlike traditional scavengers, it rapidly reacts with H_2S to form a water-soluble salt that carries with the water phase. This product promotes oxidation of H_2S*.

Results

Prior to implementing CT9155, the facility's wastewater contained 2,500–6,000 ppm of H_2S in each shipment to the disposal facility. After applying this technology, H_2S was eliminated from the wastewater, enabling the plant to dispose of it without incurring additional fees.

The amount of treatment chemical was reduced by 40% after the product switch, resulting in estimated savings of $100,000 per year.



*Product testing should always include reacidification of water samples to ensure no reemergence of H_2S.

Processes and condition changes may impact product performance.

Results are examples only. They are not guaranteed. Actual results may vary.

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