



CLEAR SOLUTIONS

for complex fluids

Process and Equipment Treat Hydrostatic Test Water – Iowa



CHALLENGE

- Successfully treat pipeline hydrotest water to meet permit compliance within permit deadline



SOLUTION

- CETCO ENERGY SERVICES, (CETCO) flexible, mobile water treatment system and environmental expertise in managing permit compliance



RESULTS

- Successfully treated and discharged fluid within time specifications and put pipeline back into service

SUCCESS STORY

Process and Equipment Treat Hydrostatic Test Water – Iowa

CHALLENGE

A pipeline company in Iowa conducted a hydrostatic test of its pipeline, producing 39,000 BBLS of fluid for treatment. The hydrostatic test water was to be discharged in accordance with a National Pollutant Discharge Elimination System (NPDES) permit. The permit required that discharge of the treated test water could not exceed a period of 14 days from the date the test was conducted. The water had to meet the following requirements:

Parameter	Monthly Average	Daily Maximum
COD	50 ppm	100 ppm
Oil & Grease	10 ppm	15 ppm
Benzene	-	5 ppb
BTEX	-	100 ppb
pH	-	6 - 9

CETCO SOLUTION

Fluid was pumped directly from the pipeline to CETCO equipment onsite at a rate of approximately 4 BBLS per minute. CETCO operators continuously monitored the treated water to ensure that all discharge criteria were met. The project was completed in just seven days, with 39,000 BBLS of water being treated.

RESULTS

The following table illustrates the effectiveness of CETCO's process:

Parameter	Infuent	Effluent
COD	87 ppm	< 15 ppm
Oil & Grease	22 ppm	< 1 ppm
Benzene	321 ppb	< 2 ppm
Ethyl Benzene	< 5 ppb	< 2 ppm
Toulene	358 ppb	< 2 ppm
Xylenes	311 ppb	< 3 ppm
Total BTEX	990 ppb	< 7 ppm
pH	-	7

