



Case History: Minnesota Makeover



Equipment Layout



Clean Water Discharge Point

Minnesota: Treating Hydrostatic Test Water

A pipeline company in Minnesota conducted a hydrostatic test of its pipeline, producing approximately 320,000 barrels of fluid for treatment. The hydrostatic test water to be discharged into a nearby field had to meet the following criteria:

| Parameter | Discharge Criteria |
|---------------|--------------------|
| Benzene | 10 ppb |
| Ethyl Benzene | 700 ppb |
| Toluene | 1,000 ppb |
| Xylenes | 1,000 ppb |
| Oil & Grease | Not Specified |

Fluid was pumped from the pipeline into three storage tanks located at the pipeline's tank farm. Fluid was then pumped from the storage tanks directly to CETCO Oilfield Services onsite equipment. On average, CETCO Oilfield Services treated the fluid at a rate of 10 to 15 barrels per minute. Rates as high as 20 barrels per minute were achieved. CETCO Oilfield Services process discharged about 15,000 barrels of clean water per day.

The project was completed in 30 days, with CETCO Oilfield Services treating and discharging 320,000 barrels of water. CETCO Oilfield Services personnel continuously monitored the clean water by using an onsite laboratory to ensure all discharge criteria were met.

The table to the left illustrates the efficacy of CETCO Oilfield Services water treatment process:

| Parameter | Influent | Effluent |
|---------------|-----------|----------|
| Benzene | 3,630 ppb | <5 ppb |
| Ethyl Benzene | 210 ppb | <5 ppb |
| Toluene | 3,180 ppb | <5 ppb |
| Xylenes | 940 ppb | <5 ppb |
| Oil & Grease | 17.79 ppm | <5 ppb |

WATER TREATMENT | PIPELINE | WELL TESTING | WASTEWATER | RENTALS | NITROGEN SERVICES



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