Mobile Groundwater Treatment System

Turnkey Design, Construction, OM&M

Highlights

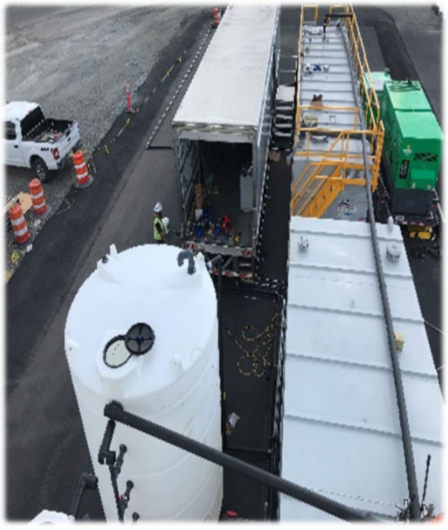
Hexavalent Chromium reduction mobile treatment system

Treatment system built in three separate trailers and later mobilized to site

All interconnecting conveyance lines constructed of HDPE (butt fusion, electrofusion and socket fusion welding) with secondary containment

Custom fabricated HPDE and stainless steel process tanks, piping, electrical systems

Full operational control with SCADA for remote operator access and process control



Project History

Former Industrial Area

Kearny, NJ

Regulatory Agency

NJ Department of Environmental Protection – NJDEP

Project Description

Chromium reduction treatment system equipped with sludge press. Built with a designed max flow of 50gpm. System components were housed within three individual climate controlled trailers. The treatment trailers were assembled at the FTSCO Portersville, PA Fabrication shop. Trailers were mobilized and installed onsite in Kearny, NJ. Treatment system components were connected utilizing 2-inc – 6-inch HDPE lines for conveyance of raw water, process water and sludge to various stages of the treatment process.

Activities Performed

- Design and construction of treatment trailers at the FTSCO Portersville, PA Fabrication Shop
- Custom fabrication of HDPE tanks, secondary containments and appurtenances specifically for use in trailers
- Installation of high voltage power systems and low voltage control systems
- Hydraulic testing of complete process prior to mobilizing to subject site for installation. Pumps, conveyance lines, dosing pumps, process control loops and system operations.
- Mobilization to work site and Installation of system components on site.
- Startup testing, conveyance line pressure testing and process control loop tuning
- Secondary containment for primary HDPE carrier piping and heat trace of interconnecting HDPE conveyance lines

Project Manager

Hank Pappert

Contract Value

>$2,000,000





