Groundwater/DNAPL Recovery System Upgrade

Construction Services

Highlights

Retrofitted multiple hydraulic control and DNAPL recovery wells utilizing butt fusion, electrofusion and socket fusion welding.

Installed HDPE forced main conveyance lines to treatment system. Installed secondary containment piping. Conducted pressure tested.

Extended 480V 3P power feed and low voltage control panels and tested to ensure proper functionality.

Project History

Former Chemical Site

Kearny, New Jersey

Regulatory Agency

USEPA

Project Description

Extending casings of multiple hydraulic control wells and DNAPL recovery wells. Extension of existing 18-inch HDPE well risers, subgrade precast concrete well vault surface completions, subgrade recovery well electrical supply and local control panels to accommodate processed dredge material (PDM) placement for projected site redevelopment purposes.

Activities Performed

- Remove existing precast concrete well vault access doors and DNAPL recovery pump assemblies
- Weld (electrofusion)18-inch diameter HDPE well riser extensions and install new pitless adaptor assemblies to accommodate projected PDM placement elevation ranging from 3-feet to 12-feet from existing grade
- Hydraulically pressure tested conveyance lines to engineer's specifications
- Set additional precast concrete well vault risers to projected final PDM grade, backfill interstitial space between well riser and concrete vault with pea gravel to stabilize riser and eliminate confined space entry for future servicing and reinstall well vault access doors
- Reinstall DNAPL recovery pump and associated electrical control panels to accommodate projected surface elevation increase following PDM placement

Project is ongoing, expected completion 2024.

Project Manager

Hank Pappert

Contract Value

$350,000



Extended Well Ready for Fill Placement



Extended Well Casing

FTS Construction, LLC

FTSCO