

Technitronics
1041 & 1043 Seminola Boulevard
Casselberry, Florida
County: Seminole
District: Central
Site Lead: Waste Cleanup Program
Approved for Cleanup: November 19, 2015
HWC # 204
ERIC ID # 3974

Site Description and History

The Technitronics site is located at 1041 & 1043 Seminola Blvd. in Casselberry, Seminole County, in Township 21S, Range 30E, Section 09 at Latitude: 28° 40' 32.0463" N, Longitude: 81° 18' 59.2970" W. From 1971 to 1995, Technitronics manufactured electronic circuit boards. As part of the manufacturing process various etchants and chlorinated solvents were used, resulting in groundwater contamination with Trichloroethene (TCE) and daughter products *cis*-1,2 dichloroethene and vinyl chloride. Early investigations discovered high levels of TCE in several groundwater samples which might indicate a source of Dense Non-Aqueous Phase Liquid (DNAPL). A lower concentration plume of petroleum contamination also exists on site and appears to be emanating from a nearby gas station.

Threat

The groundwater contamination plume extends into the Floridan Aquifer, a major source of drinking water in the area. Both the City of Casselberry and the City of Winter Springs operate municipal well fields downgradient of the former Technitronics facility and could potentially be threatened.

Response Strategy and Status (December 2016)

Under contract with DEP, Arcadis U.S., Inc. conducted a site assessment in June 2015. This assessment confirmed previous findings of TCE and petroleum contamination in groundwater. No soil contamination was discovered. High levels of TCE indicative of DNAPL were reported in at least one monitor well. A paleosink feature exists on the northern portion of the former Technitronics property and seems to play a significant role in the fate and transport of contaminants across the site. The shallow plume appears to migrate vertically through the paleosink into the Floridan Aquifer.

DEP tasked Arcadis with supplemental assessment activities including investigation of the paleosink feature and installation of additional groundwater monitoring wells. Electrical resistivity testing and aquifer hydraulic testing helped to determine which remedial options might be utilized at the site.

DEP approved a Remedial Alternatives Evaluation (RAE) on December 20, 2016. The RAE recommended a groundwater pump and treat system with a thermal treatment option after initial containment with the pump and treat.

Schedule

Arcadis will submit the Remedial Design in March 2017. Construction of a groundwater pump and treat system is tentatively planned for May 2017, pending budget constraints.