

960 North Market Street, Inc.
960 North Market Street
Jacksonville, Florida
County: Duval
District: Northeast
Site Lead: Waste Cleanup Program
Accepted for Cleanup: September 19, 2014
HWC # 183

Site Description and History

The 960 North Market Street, Inc. (a/k/a Respress – Grimes Engraving Company, a/k/a Scottish Rite Association) site, a former printing/engraving facility, is located adjacent to Jacksonville's Confederate Park in Township 02S, Range 26E, Section 37 at 30° 20' 03.6897" N, 81° 39' 08.3209" W. Land use in the immediate vicinity of the site is primarily commercial/industrial with a few residences.

After a complaint about leaking material, a DEP inspection that showed unacceptable environmental conditions, and a DEP drum removal in 2001, this site was sampled by DEP's Site Investigation Section. Soil and groundwater samples were collected. Tetrachloroethene (PCE) was found at a concentration in onsite soils at 7.1 mg/kg, exceeding the leachability Soil Cleanup Target Level of 0.03 mg/kg. In 2005 and 2009, downgradient groundwater samples from a monitoring well contained vinyl chloride (VC) at a concentration of 39 µg/L and 46 µg/L, respectively, exceeding the Groundwater Cleanup Target Level of 1 µg/L.

In 2009, the DEP Northeast District referred the site for Superfund site evaluation and a Pre-CERCLIS Screening Assessment (PSA) was prepared in March 2011. The DEP PSA checklist concluded that "the site owner entered with DEP into a Consent Order, outlining the obligations and required compliance dates for satisfactory site remediation." So the DEP CERCLA program and EPA decided not to enter the site into CERCLIS since the consent order addressed the site remediation and it would be done under another authority or program.

However, in November 2011, the DEP State-funded Cleanup Program, in a memorandum, requested that this site be re-considered for CERCLA with the understanding that the Consent Order does not include any cleanup responsibilities or costs other than a lien. Based on the November request, DEP's CERCLA site evaluation staff re-opened the case and prepared an Abbreviated Preliminary Assessment (APA) for the site. The APA was more descriptive of the scope of the Consent Order than the PSA.

This consent order established that the DEP may, at its sole discretion, cleanup the site. The EPA decision document concluded that the site should be given a low priority for further CERCLA action.

Threat

PCE was discovered in 2001, onsite in several leaking 55-gallon drums based on reports from the DEP Bureau of Emergency Response. PCE can be broken down by microorganisms in soil or groundwater into four related chemicals, which include trichloroethene (TCE), 1,1-

dichloroethene, *cis*-1,2-dichloroethene and VC. VC is the primary contaminant of concern found during the SIS investigation. PCE is a manufactured chemical used for metal degreasing, to make other chemicals, and in some consumer products. The primary pathway of concern is soil leaching to the groundwater, which is used for drinking water in this area. Jacksonville Electric Authority operates five potable supply wells within 1 – 2 miles of the site and 16 wells within 4 miles of the site.

Response Strategy and Status (June 2016)

The site is a former printing and engraving facility, where leaking drums of PCE were discovered and site-attributable releases of chlorinated solvent to onsite vadose-zone soil and shallow down-gradient ground water were established, featuring vinyl chloride concentrations exceeding regulatory limits. A potential chlorinated solvent soil source likely still exists at this site. Numerous potable supply wells, collectively serving a large population, were identified within four miles of the site. The site owner and DEP entered into a Consent Order (CO). Earth Systems, Inc. began site assessment fieldwork in May 2015.

Site Assessment activities found PCE in the soil and PCE, TCE, and VC in the groundwater above Cleanup Target Levels. Soil and groundwater contamination was found onsite. The highest soil contamination was found at 2 feet below surface at 170 µg/kg for PCE. VC is the predominant contaminant in the groundwater, the highest concentration at 124 µg/L in MW008.

The final Site Assessment Report was submitted to DEP on December 4, 2015. The Site Assessment Report was approved December 19, 2015.

Schedule

Site assessment activities for the 960 North Market Street, Inc. site were completed in December 2015. The site is going into Monitored Natural Attenuation. Monitoring activities will begin in 2016 and be conducted on a quarterly basis for one year.