

**Contacts Metal Welding
State Site Remediation Program
Indianapolis, Indiana**

Swenson – Marzec & Associates (SMA) staff has been directing all investigation and remediation activities at this former industrial site located on the east side of Indianapolis since 2016. The site was a former PR Mallory manufacturing facility that operated from the late 1920's until 1978 and then a portion of the site was operated as Contacts Metal Welding from 1978 until 2014. The facility is documented to have used carbon tetrachloride (CT) from the 1930's through approximately 1960 and then used TCE and TCA for degreasing consistent with typical industry use through 2014. In preparation for site remediation, SMA personnel performed detailed volumetric delineation of the four major CVOC source areas on site in preparation of implementing an in-situ thermal remediation of those source areas.

Much of the remedial efforts to date at the site have been directed towards reducing the occurrence of CT (and CT's degradation product chloroform (CF)) and TCE in nearby residential homes. Investigations have shown that the disposal of solvents and contaminated groundwater flowing into the sanitary sewer system and conveyed off-site is responsible for CVOCs vapors exfiltrating out of the sewer system and into adjacent residential homes. To prevent further vapor intrusion into the residential homes, SMA personnel installed a 4,500 cubic feet per minute (CFM) vacuum extraction system at key points along the sanitary sewer system to capture and control vapor migration from the sewers into the residential homes. Subsequent indoor air testing and vapor testing within the sewer manholes indicates that the sewer vacuum extraction system has been effective at reducing vapor levels within the homes to acceptable levels.

SMA personnel have provided extensive litigation support throughout the project.