# Camdenton TCE Sites

**221 Sunset Drive/**
**Dawson Metal Products Camdenton Facility #2/**
**City Lagoon #3/ Camdenton Treatment Plant Lagoon/**
**Camdenton Sludge Disposal Area**

## Site History

A manufacturing facility at 221 Sunset Drive in Camdenton produced aluminum and copper heat transfer units between 1967 and 2012 under a succession of owners/operators including Dawson Metal Products, Sundstrand Tubular Products, Inc. (now UTC), and Modine Heat Transfer Inc.(Modine) During operation of the facility by Dawson and Sundstrand, trichloroethene (TCE) was used as a degreasing agent. Modine discontinued the use of TCE at the facility in 1990. Releases of TCE to the environment at the Sunset Drive facility, a nearby temporary facility, and a wastewater lagoon in Camdenton have prompted a number of investigation and cleanup activities designed to protect human health and the environment. TCE was detected in the Mulberry Well, one of Camdenton's public drinking water wells, and the city took the well offline in 1999. The source(s) of TCE contamination to the well has not been definitively determined, but may include releases from the Sunset Drive facility and City Lagoon #3.

**221 Sunset Drive -** The department began investigations at the 221 Sunset Drive facility in 1992 after the Environmental Protection Agency was notified, in November 1991, that 4,500 gallons of TCE was spilled into the environment at the facility. This resulted in several rounds of soil removal at the site from 1997 through 2002 by contractors hired by Modine. The focus of the investigation at the 221 Sunset Drive then shifted to the potential for vapor intrusion in the manufacturing building. Modine's consultant, CH2M, performed air sampling, and TCE was detected in the indoor air, in the soil vapors beneath the building floor, and in the soil vapors at the perimeter of the 221 Sunset Drive property. This prompted additional investigations by contractors to sample indoor air, crawl space, soil along the sewer line of the manufacturing building, and sub-slab vapors at residential properties on Sunset Drive, Mulberry Drive, and Bent Tree Lane. Currently, TCE has been detected inside two homes, and those homes have since had mitigation systems installed by Modine. Residential and facility sampling are being conducted by Modine contractors.

**Dawson Metal Products Camdenton Facility #2 -** In 2017, the department became aware of allegations by former Dawson employees that TCE waste was disposed of at 1225 US Hwy 54 where the company's manufacturing operations temporarily relocated in 1972 during reconstruction at the main Sunset Drive facility following a fire. The department conducted an investigation at the facility in 2017 and identified TCE in soil, subslab vapor and indoor air. UTC has completed design work and installation of a vapor mitigation system beneath the facility building. Additional

characterization work is necessary to further define the extent of TCE contamination.

**City Lagoon #3 (formerly known as Hulett Lagoon) -** This site is the location of one of Camdenton's former wastewater treatment lagoons located 800 feet northeast of the Sunset Drive facility. In addition to domestic sewage, the lagoon received wastewater containing TCE from the Sunset Drive facility over the course of several decades. In 1989, the city closed the lagoon and transported the sludge to a permitted disposal site at the Camdenton Municipal Airport. Soil and groundwater sampling conducted by the department and UTC/Sundstrand has identified residual TCE remaining in the City Lagoon #3.

**Camdenton Treatment Plant Lagoon (formerly known as CP White Lagoon) -** This site is the location of one of Camdenton's former wastewater treatment lagoons located 1.3 miles southwest of the Sunset Drive facility. This lagoon is the current location of Camdenton's wastewater treatment plant. For a period of time between 1987 and 1989, following the decommissioning of City Lagoon #3, wastewater from the Sunset Drive facility was discharged to Camdenton Treatment Plant Lagoon (CTPL). The CTPL was decommissioned in June 1989 when the current treatment plant became operational.

**Camdenton Sludge Disposal Area -** Following removal from City Lagoon #3 in 1989, sludge was treated with lime and applied to the land surface in an open field at the Camdenton Airport property. The sludge disposal area was investigated by the department in 1999. No TCE was detected in soil or drinking water well samples collected by the department.

## How Is the Department Involved?

The department has conducted its own investigations of hazardous substance releases from the Sunset Drive facility and overseen investigations and cleanup work conducted by others since the early 1990s.

**Administrative Settlement and Abatement Orders on Consent (AOCs) –** In 1999, the department entered into an AOC with Modine for the purposes of (a) performing interim measures to abate threats to human health and the environment, as necessary, (b) determining the nature and extent of any releases of hazardous waste and or hazardous constitutes at or from the facility, (c) to identify and evaluate alternatives for any remedial actions necessary to respond to these release.

In 2016, the department entered into an AOC for Supplemental Remedial Investigation and Feasibility Study with UTC/Sundstrand, Modine, and the City of Camdenton for the purposes of (a) determining the nature and extent of hazardous substance releases at the Sunset Drive and Lagoon #3 sites (and any other areas where such substances have become known to be located), and (b) to identify and evaluate alternatives for any remedial actions necessary to respond to these releases.

**Public Involvement -** In 2017, the department created a website for the Camdenton

sites to provide the public with information and documents from past and current investigations and to assist in interpreting data. The website allows citizens to share comments, ask questions or express concerns about any of the Camdenton sites. The department has hosted two public meetings and a public availability session. In September 2017, the department assisted with the creation of a community-led advisory team known as the Camdenton Industrial TCE Contamination Advisory Team (CITCAT). The team has met monthly since January 2018.

## Current Investigation Activities

**221 Sunset Drive** – Modine's consultant, CH2M, installed 15 soil borings through the floor of the former manufacturing building in June 2018. The purpose of this work was to identify the location and amount of TCE contamination remaining beneath the building. CH2M is planning additional soil sampling under the manufacturing building for fall 2018 to further define the TCE contamination and help select a remedy.

**Dawson Facility #2** – The department conducted an investigation in 2017 that collected surface water, soil, indoor air, sub-slab vapor, and private drinking water well samples. Sampling results from that investigation documented TCE contamination in soil at the loading dock, vapor beneath the building, and in indoor air samples. The indoor air sample results were all below health-based action levels. Sundstrand/UTC has completed design work and installation of a vapor mitigation system beneath the facility building. Additional characterization work is also planned to further define the extent of TCE contamination.

**City Lagoon #3** – To address recent public concerns about potential migration of TCE vapors around the former lagoon, Sundstrand/UTC conducted a phased soil gas investigation under department oversight. Sundstrand/UTC conducted soil gas sampling around the lagoon in February, May and August 2018.

**Administrative Settlement and Abatement Order on Consent -** The department is reviewing and commenting on the Supplemental Feasibility Study (FS) report prepared by the responsible parties in accordance with the 2016 AOC. This document evaluates potential treatment alternatives for the site. After the FS is finalized, the department will prepare a Proposed Plan for the site (including the Mulberry Well), and the public will have the opportunity to comment on it for 30 days. The department will take into consideration community preferences before making a decision on a final remedy for the site, which the department will document in the Record of Decision (ROD). The ROD will include a section with a response to all comments. Following publication of the ROD, parties to the AOC will prepare Remedial Design/Remedial Action documents to implement the selected remedy.

**Camdenton Treatment Plant Lagoon** – To address public concerns about potential TCE contamination in the former CTPL area, the department initiated an investigation in early 2018. To date, the investigation has been limited to research and records review. The department expects to conduct sampling in fall 2018.

**Camdenton Sludge Disposal Area** – To address ongoing public concern about potential releases of TCE at the airport disposal area, the department sampled eleven private drinking water wells and one public drinking water well within one half mile of the site. No TCE was detected in any of the samples. Based on the initial 1999 investigation and 2017 follow-up sampling results, no further investigation is planned at this time.

## For More Information

For additional information regarding the site, contact Valerie Wilder, Superfund Section Chief, at 573-751-4187 or go to the department's website on Camdenton at https://dnr.mo.gov/env/hwp/camdentontce.html.

## Aerial Map