

Saufley Construction and Demolition (C&D) Facility Groundwater

5660 Saufley Field Road

Pensacola, Florida

County: Escambia

District: Northwest

Site Lead: Waste Cleanup Program

Accepted for Cleanup: March 21, 2014

ERIC ID # 3967

Site Description and History

The Saufley Construction and Demolition Facility (Saufley C&D Landfill) is a former construction and demolition debris landfill located in northwestern Pensacola, adjacent to the Navy's Saufley Field, in Township 01S, Range 31W, Section 38, at Latitude 30° 27' 47.4173" N, Longitude 87° 19' 51.0802" W, in a largely residential area of Pensacola (except for the Navy Airfield and the Pioneer Sand Superfund site to the south). The facility took in large amounts of building debris following hurricane Ivan in 2005. The owners subsequently abandoned the property with partial bonding/insurance for closure. Escambia County took title to the site, with a Prospective Purchasers Agreement (PPA) executed between the county and DEP, committing the county to closing the site using the available insurance and to perform limited onsite groundwater monitoring. The PPA committed DEP to perform any additional offsite groundwater monitoring/remedial action that might be needed.

Threat

The offsite groundwater is contaminated with ammonia, aluminum, iron, and 1,4-dioxane. The offsite plume has not been completely delineated for iron to the north and west but has been delineated for other contaminants.

Response Strategy and Status (December 2020)

The Saufley C&D Landfill was capped and closed by the county in October 2013, and onsite monitoring is taking place per the PPA. DEP's Site Investigation Section (SIS) performed some offsite groundwater monitoring at the site before it was assigned to the Waste Site Cleanup Section in October 2014.

FDEP assigned the site to Arcadis U.S. Inc., a state cleanup contractor. Arcadis implemented an initial scope of work to evaluate the site. A draft groundwater monitoring report was submitted to DEP in December 2015. Elevated levels of some contaminants including iron, arsenic, 1,4-dioxane and ammonia were present in off-site groundwater.

Additional wells were installed to further define the groundwater plume and Arcadis submitted a supplemental groundwater monitoring report to the Department in May 2017. Data showed that arsenic levels are now below groundwater target cleanup levels. Groundwater flow is toward the Pioneer Sand Superfund site to the south. Iron exceedances are based on secondary drinking water standards which are generally established for aesthetic considerations, such as taste, color and odor. The 1,4-dioxane plume appears localized and contaminant levels are relatively low.

In June 2019, two monitoring wells at the Saufley C&D site were sampled for Per-and polyfluoroalkyl substances (PFAS) as part of a state-wide pilot study being conducted by DEP. Both wells contained PFAS above state provisional groundwater cleanup target levels. DEP tasked Arcadis to sample all site wells for PFAS and data showed some site wells, primarily west and south, were contaminated. This PFAS contamination may be related to the former Saufley airfield immediately west of the site.

Arcadis presented a Conceptual Site Model for PFAS to DEP in February 2020.

Schedule

For PFAS, Continued monitoring and additional well installation to the south will commence when funding is available.

For contaminants other than PFAS, groundwater monitoring is ongoing at the site. Landfill closure activities have likely removed the source of Contaminants of Concern in groundwater. Therefore, it is expected that natural attenuation processes will reduce contaminant concentrations over time.