

TurboPower, Incorporated – Former James Qualley Site

6321 Northwest 74th Avenue

Miami, Florida

County: Miami-Dade

District: Southeast

Site Lead: Waste Cleanup Program

Accepted for Cleanup: December 10, 2012

ERIC ID # 3960

Site Description and History

The site is a portion of a commercial rental building near the Miami MetroRail maintenance facility in Township 53S, Range 40E, Section 14 at 25° 49' 51.6571" N, 80° 19' 01.1985" W. The site is part of an industrial park and is surrounded by other commercial/industrial buildings and businesses. This facility was used to refurbish & rebuild turbojet engines for clients. Currently a barbeque grill manufacturer operates out of this section of the building.

Threat

The site soil and groundwater are contaminated with chlorinated solvents and their decay products. These solvents threaten the Biscayne Aquifer, which is the sole-source aquifer for the entire Miami-Dade County area.

Response Strategy and Status (December 2020)

The owner of the TurboPower business had been conducting a cleanup of this site for several years under DEP oversight. However, his death in 2011 has led the state to assume further cleanup responsibilities. The site was referred to the Waste Cleanup Program and was accepted for State-funded cleanup on December 10, 2012.

Arcadis U.S., Inc. conducted the site assessment fieldwork in late summer 2013. Preliminary findings indicate the previous cleanup activities were moderately successful in site remediation. However, a limited groundwater plume composed primarily of chlorinated solvents and some petroleum compounds remains in the former source area. The site assessment report was submitted to DEP in November 2013.

One deep well was installed in April 2014 to complete the site assessment. In May 2014, Arcadis submitted a Remedial Alternatives Evaluation (RAE) to examine possible technologies for contaminated soil and groundwater. The RAE was approved by DEP in August 2014. The chosen remedy took a phased approach. First, contaminated soils were excavated, and a soil vapor extraction system was installed for those soils which could not be reached through excavation. Second, focused bioremediation targeted an area of high groundwater contamination that source removal alone was not successful at reducing. A groundwater monitoring plan was implemented to observe the effects of the remedial action. In October 2014, Arcadis submitted a draft Remedial Action Plan (RAP) to implement the above design. DEP approved the Final RAP in March 2015.

Arcadis completed a limited soil excavation and construction of the remedial system in December 2015.

Per the approved Remedial Action Plan, Arcadis conducted two bioremediation injections of 1% molasses solution in April and July 2017.

The Soil Vapor Extraction System was turned off in spring 2018. Additional bio injections are being considered.

Schedule

Routine groundwater monitoring is ongoing.