

Landfills 1, 2, 5, 6, 7, 8, 10, 11 & 12

WPAFB, Ohio - \$15 million

Overview: WQS as a company and personnel have capped, repaired, or maintained every closed landfill at Wright Patterson Air Force Base. Capping of the RCRA landfills 8 and 10 included excavation of waste outside the cap limits, dynamic compaction of the waste, installing: a gas collection system, a leachate collection system, GCL, HDPE liner, geotextiles, and vegetative cover. We convinced the regulators to eliminate the use of an earthen clay liner in lieu of the geosynthetic clay liner (GCL). This site was the first GCL approved by the Southwest District of the OEPA and required a lot of education of the regulators. The value engineering saved WPAFB over \$500,000 in direct cost and decreased the overall job schedule by three months. The capping of the landfills required the use of 6 excavators, 4 earth movers, 4 dozers, compaction equipment, fusion machines. Work was done in modified level D, level C, and level B. For the level B work, we installed large bottle racks for the heavy equipment, to allow maximum safety for the employees, while extending the amount of time in the exclusion zone. We constructed a leachate collection and treatment system, and a landfill gas collection and destruction system. We currently operate and maintain all the landfills and treatment system at the air force base.

Scope:

- HDPE Pipe Fusion
- Excavation and Grading
- Utility Installation
- Dynamic Compaction
- Landfill Gas Collection and Destruction System
- Leachate Collection System
- Major Erosion Controls
- Playground Installation (relocated offsite)
- Site Restoration

Key Issues:

- Maintenance of safe work activities
- Constant communication with OEPA, USEPA, and WPAFB

Contaminants:

- Landfill Waste

Permit Requirements:

- NPDES, Excavation, Building, Erosion Control

Regulations and Agencies

- OEPA, USEPA, RCRA, CERCLA

