

Project Summary

Site Investigation & Remediation: Fertilizer Facility

Client:

Frontier FS, Brodhead, WI

Contact:

Mr. Sam Skemp, General
Manager
Phone: (920) 674-7000

Project Manager:

Ms. Amy Haak, P. G.

Regulatory Status:

Closed with Soil GIS
Listing

Project Features

No disruption in client services

Use of fixed lab for investigation to maximize cost savings

Landspreading of contaminated soils

All facility features remained in place

Mobile laboratory used for remediation activities to ensure cleanup goals achieved
No groundwater investigation required



Introduction and Value to Client

Frontier FS requested that investigation and remediation at their fertilizer facility in Brodhead be conducted with no disruptions to their agrichemical application business. Alpha Terra designed a project schedule that eliminated business disruptions and brought the project to a quick completion.

Synopsis

When the Department of Agriculture, Trade and Consumer Protection (DATCP) notified Frontier FS of the need to conduct an investigation at Frontier's Brodhead facility, they were not surprised. Frontier has completed investigations and cleanups at several facilities. Minimizing costs and conducting work without business interruptions was a concern of theirs.

To address both of these concerns, Alpha Terra Science completed investigation activities in January utilizing a fixed-based laboratory. Seventeen borings were advanced using a Geoprobe as part of the site investigation. Select soil samples were initially analyzed, but many others were retained for later submittal only as necessary. The lateral extent of contamination remained undefined in two locations, but Alpha Terra proposed evaluating those areas at the time of remediation through the use of test pits and a mobile laboratory, rather than remobilizing for additional drilling. DATCP approved the plan. The investigation phase was completed prior to the spring fertilizer application season.

Landspreading soils is much more cost effective than landfilling so remediation activities were scheduled for November when farm fields were harvested and available for landspreading. Approximately 935 tons of soil were excavated and landspread. A mobile laboratory was onsite so rapid results proving achievement of cleanup goals were available and the excavation could be immediately backfilled. Some contamination extended under site structures and fixtures, but Alpha Terra was able to document contaminant mass volumes were low enough to leave these soils in place. As a result, costs associated with removal and reinstallation of fixtures were not incurred. We were also able to document residual contaminant levels were so low that a groundwater investigation was unnecessary.