

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

Project Summary



APPLE ORCHARD EMERGENCY RESPONSE HAMILTON TOWNSHIP, NEW JERSEY

Progressive was retained to provide emergency response for a pipeline release caused by a third party working on a nearby turnpike expansion. The pipeline hit occurred on October 3, 2008, and Progressive successfully managed product recovery, delineation of soil and groundwater impacts, and soil excavation and disposal with completion of field activities by October 24, 2008. The results were documented in a Remedial Action Report submitted to the oversight regulatory agency, NJDEP. Key aspects of the project were as follows:

- ◆ The third party's drilling rig pierced the top invert of the 30-inch diameter pipeline, allowing diesel fuel to preferentially flow from the pressurized pipeline up the annular space around the drill stem to the ground surface.
- ◆ Soil and sorbent booms were used to dike the drainage swales and limit the spread of free product.
- ◆ Vacuum trucks were used to evacuate the free product from the ground surface and drainage swales.
- ◆ A trench box was constructed around the damaged pipeline to allow for repair of the pipeline and provide a safe working environment.
- ◆ Trees and undergrowth were cleared to allow heavy equipment access for excavation of impacted soil. Progressive managed excavation of approximately 1,392 tons of impacted soil from the release area and adjacent drainage swales for off-site disposal.
- ◆ Soil borings and temporary piezometers were installed along the edge of the excavation sidewalls to evaluate the potential presence of residual free product and the need to extend the excavation limits.
- ◆ Two free product/groundwater recovery wells were installed as a preliminary remedial action. Approximately 4,026 gallons of recovered petroleum product and groundwater were sent for off-site disposal.
- ◆ A search of nearby drinking water wells and an evaluation of nearby surface waters/sensitive receptors also were performed.

Progressive's field observations, soil and groundwater sample results, and recovery well gauging data demonstrated that the emergency response efforts successfully addressed the petroleum saturated soil at the site. Ongoing remedial activities and delineation of groundwater impacts will be performed by the third party that caused the release.

PROJECT HIGHLIGHTS

- Emergency Response
- Excavation
- Free Product Recovery
- Well Inventory and Sensitive Receptor Survey

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