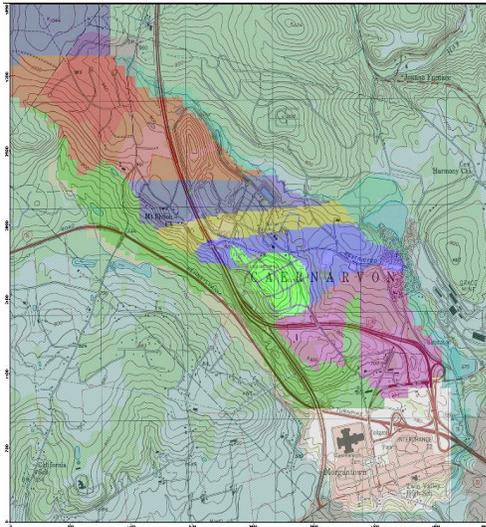


REPUBLIC SERVICES, INC. CONESTOGA LANDFILL **New Morgan Borough, Berks County, Pennsylvania**

Taylor GeoServices (TGS) staff has been providing technical geologic, hydrogeologic, compliance and operations support services to the Conestoga Landfill and have been responsible for developing all aspects of the geologic and hydrogeologic characterization work for the site since its inception in 1992.



Modeled Conductivity Zones

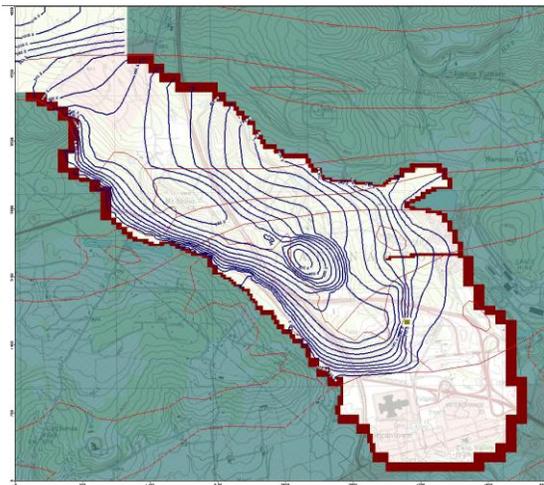
Specifically these services have included initial characterization and suitability assessment of the site for development as a 150-acre municipal solid waste disposal facility. More recently, TGS is providing geologic and hydrogeologic services associated with gaining the recently approved 134-acre expansion permit for the facility.

TGS conducted detailed studies to define the groundwater flow regime in the complex geology of the Triassic Basin that underlies the site. This work culminated in the development of a numerical model to evaluate the effect of the landfill expansion on groundwater recharge. Due to modeled impacts to a local perennial stream, further studies were completed to evaluate the reduced flow from capping a large area of recharge. The hydrogeologic expertise of TGS

resulted in maintaining airspace for the landfill and ultimately reclaiming three disposal cells that the Pennsylvania Department of Environmental Protection had originally eliminated from the final design permit.

Currently TGS is working with a multi-member team to implement an approved aquifer permeability enhancement project at Conestoga. The scope of this project will require the drilling of additional test borings including angle core borings, followed by discrete hydraulic fracturing of bedrock at depth.

TGS also provides ongoing environmental compliance monitoring and data tracking for the landfill facility, along with waste acceptance tracking, water supply permitting and other daily operations assistance.



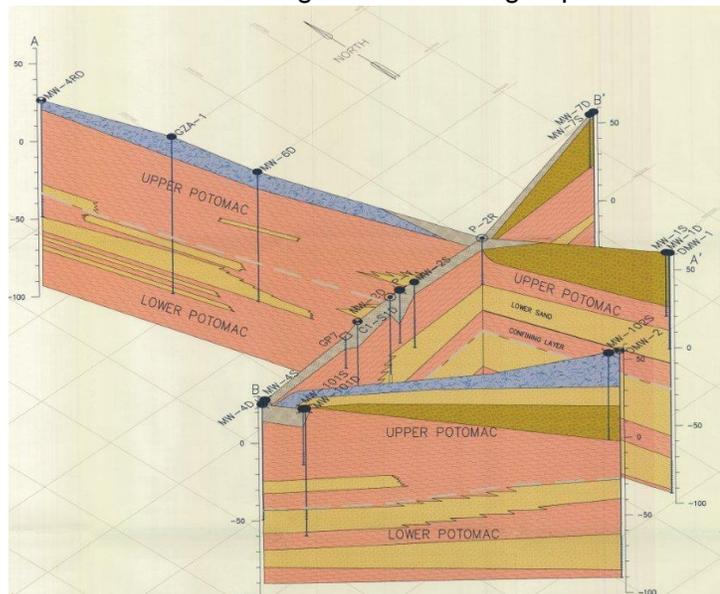
Modeled Groundwater Contours

WASTE MANAGEMENT. DRPI INDUSTRIAL WASTE LANDFILL Minquadale Borough, New Castle County, Delaware

Taylor GeoServices (TGS) staff has been providing technical geologic, hydrogeologic and compliance services to the Delaware Recyclable Products, Inc. (DRPI) Industrial Waste Landfill since 1987.

Services provided to DRPI initially included all groundwater and surface water compliance sampling and reporting along with preparation of the comprehensive annual facility environmental monitoring reports.

TGS staff was later tasked with conducting the detailed geologic and hydrogeologic assessment for a 45-acre expansion to the landfill with the goal of obtaining a permit. This assessment included the drilling of additional test borings, installation of background characterization wells and piezometers and the utilization of cone penetrometer for geotechnical analysis of deep Cretaceous age sediments found beneath the site. TGS then compiled the geologic and hydrogeologic data obtained from this investigation plus previous studies conducted by others into a permit application document for submission to the Delaware Department of Natural Resources and Environmental Control (DNREC). Subsequently TGS developed the comprehensive groundwater and surface water sampling and analysis plan for the landfill.



Fence Diagram Developed for the Permit Application

Once approved, work associated with development of the expansion area has included the abandonments of many background characterization wells, piezometers and landfill gas vents. Within the past year, TGS has also installed additional landfill gas monitoring probes, has conducted a landfill gas migration study, and continues to provide all groundwater compliance monitoring and reporting services.

**Shrewsbury Borough Municipal Water Supply
Shrewsbury, York County, Pennsylvania**

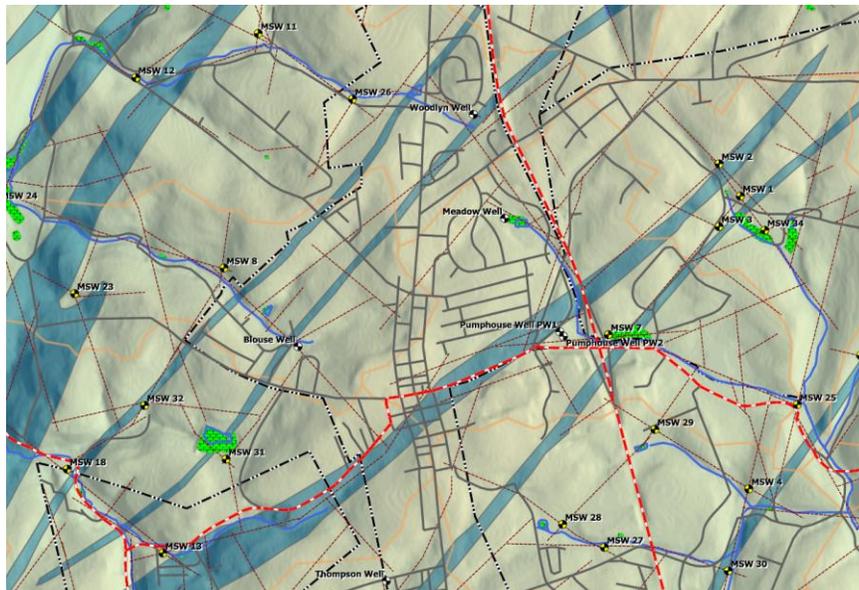
Taylor GeoServices (TGS) staff has been providing technical geologic, hydrogeologic, compliance and operations support services to Shrewsbury Borough and have been responsible for developing all aspects of the geologic and hydrogeologic characterization work for the borough since 2010.



Wissahickon Bedrock

The borough is in a drought sensitive headwaters aquifer system underlain by Precambrian/Cambrian schist bedrock of the Wissahickon Formation. TGS utilized GIS to model possible production well locations. The borough is in a drought sensitive headwaters aquifer system underlain by schist bedrock of the Wissahickon Formation. This work included fracture trace analysis, defining exclusion zones, and developing hydrogeologic criteria that would result in high yielding wells by evaluating topographic position, overburden thickness, and proximity to highly fractured zones and Triassic age metabasalt intrusion zones.

Currently, TGS is assisting the borough with re-permitting two of their production wells with the Susquehanna River Basin Commission. This work includes aquifer testing, well capture analysis, recharge and base flow analysis, and safe yield determinations. Numerical and analytical models have been developed for the project to evaluate the wells long term yields of the wells and will be verified with long duration aquifer testing.



Geologic Map developed for Locating Production Wells

**Former Battery Recycling Facility in Coal Mine Region
Throop, Lackawanna County, Pennsylvania**

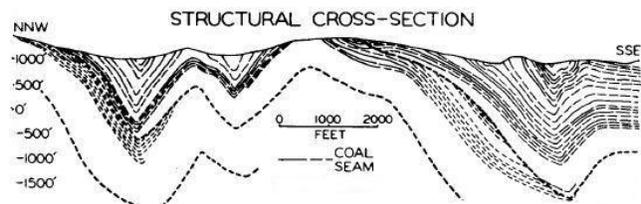


Aerial View of Battery Site

Taylor GeoServices (TGS) staff managed and implemented a Site Characterization and Remedial Investigation to identify hydrogeologic conditions at the Marjol Battery recycling facility. The facility operated between 1962 and 1982 recycling used automobile batteries. The lead plates were reclaimed while the crushed casings were discarded into drainage ways and coalmine strip pits. The primary constituents of concern were lead and other heavy metals in the soil, sediment, surface water and groundwater. Metals contamination occurred

from the historic recycling operations, windblown deposition from smelting and fugitive dust, and the un-lined landfilling of battery casings.

The project site was situated over top a complex hydrogeologic regime, underlain by 11 previously worked deep bedrock mines. Preliminary work included reviewing geologic publications and mining maps. An extensive rock coring and soil boring program was then conducted to evaluate local subsurface conditions. Field activities included rock core drilling, logging, core evaluation, down hole camera logging, packer testing, monitoring wells (both bedrock and overburden wells), and aquifer testing. Field data and previous documentations were used to prepare geologic cross sections, stratigraphy, structure, groundwater occurrence, flow directions and a conceptual understanding of the hydrogeology (e.g., vertical flow, voids, and mine pools).



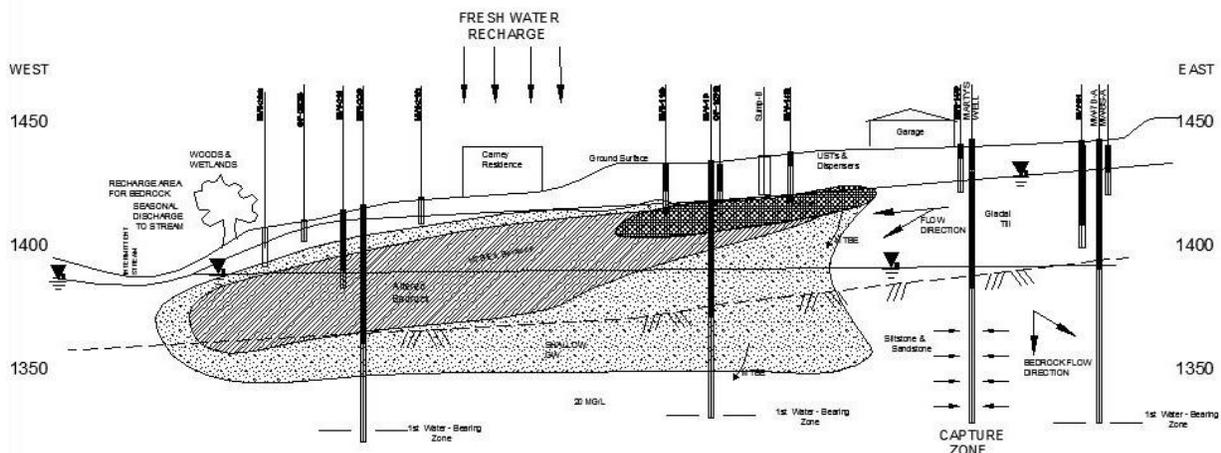
Between 1988 and 1992 site characterization and off site residential soil impacts were addressed. Extensive soil, sediment and water sampling was completed to characterize the extent of metals transport. Fate and transport modeling was performed of both groundwater and air. Findings went toward conducting the fast track soil removal and restoration of impacted residential properties, providing the basis for engineering designs of various remedial options, and ultimately the EPA's Record of Decision (ROD) on a final mitigation approval and implementation.

Pennsylvania Underground Storage Tank Indemnification Fund Hamlin, Wayne County, Pennsylvania

Taylor GeoServices (TGS) staff completed a comprehensive hydrogeologic site characterization and remedial action associated with a leaking underground storage tank. The facility operated as a gasoline service station from 1975 to 1998. Obvious contamination observed during the removal of the UST system 1999 triggered a site characterization, interim remedial action and final remediation under the Pennsylvania storage tank regulations.

The site is situated over top of glacial till consisting of a heterogeneous mixture of clay, sand, gravel, cobbles and localized boulders. Relatively flat lying sedimentary layers of shale, siltstone, sandstone and conglomerate associated with the Catskill Formation, underlies the glacial deposit around 50 feet below the ground surface.

Characterization efforts included a thorough review of background documentation, site and outcrop mapping, monitoring wells, nested monitoring wells, soil sampling, groundwater sampling, aquifer testing, domestic water well sampling, surface water sampling, fate and transport modeling, vapor intrusion screening, ecological and receptor screening, interim soil excavation, remediation pilot testing, remedial action screening, and final remediation implementation.



Hydrogeologic Cross Section

The hydrocarbon plume followed the shallow groundwater flow direction. However, a steep vertical gradient between the glacial till aquifer and the bedrock aquifer, along with recharge induction, caused MTBE to dive into the bedrock. In bedrock, MTBE spread through interconnected fractures concurrent with the regional flow regime. MTBE was also drawn toward local on-lot water supply wells, including wells located outside the plume migration pathway as a result of overlapping cones of depression. TGS' sound understanding of the complex hydrogeologic conditions allowed an optimized groundwater remediation strategy to obtain site closure with a limited budget.