Facility Name & Location:	**Berlin/Petersburgh Landfill** County Route 37 (Jones Hollow Road, Petersburgh/Cold Spring Road, Berlin), Rensselaer County
Date of Site Visit:	April 15, 2016
DEC Staff Present:	Brian Maglienti – R4 DMM, John Weidman – R4 DMM
Others Present:	None
Background Information:	The Berlin/Petersburgh Landfill is located in the Town of Petersburgh just north of the town line between the Towns of Berlin and Petersburgh. After maintaining adjacent disposal facilities for many years, the Towns began joint operation of the site in early 1982. In the early 90s, DEC notified the Towns that the landfill had been operated without a valid Part 360 permit since October 31, 1984 and required that Towns to stop accepting waste at the landfill by July 1, 1991. In 1990, Energy Answers Corporation (EAC) assumed operational responsibilities for the site and agreed to close the landfill in accordance with Part 360. EAC disposed of municipal solid waste in the landfill for approximately two years to establish proper closure grades and to generate revenue to pay for the closure. According to site documents, the landfill operation ceased in June 1991. A Final Closure Plan was submitted to the DEC in July 1991. Closure construction at the site concluded in late 1995. The landfill is situated at the head of small ravine that drains via an unnamed tributary to Jones Hollow Brook. This stream flows along the south and west sides of the landfill. During landfill development, a portion of the stream was redirected from its original path by placement of refuse. Eight groundwater monitoring wells were installed as part of closure investigation activities. However, several wells were destroyed during closure construction. Currently, five wells remain (four as couplets). The Final Closure Plan states that monitoring of water quality at the site was to consist of annual baseline and quarterly routine lab analysis of groundwater, surface water and, when applicable, leachate. Summary reports of the water quality testing were to be submitted to DEC annually for a period of five years at which point the monitoring program was to be reevaluated. However, DEC has been unable to ascertain whether any such monitoring was ever conducted as DEC region 4 has no record of any monitoring data beyond that included in the Closure Investigation Report/Final Closure Plan for this site.
Purpose of Site Visit:	To conduct a post-closure inspection of the landfill in order to assess the condition of the cap and associated appurtenances. Locate and document condition of groundwater monitoring wells.
New Issues and Follow-up Required:	Leachate impacted groundwater seep and leachate impacted tributary stream is flowing into Jones Hollow Brook. These are potential sources of contaminants and should be further evaluated via flow quantification and sampling. This should be performed in tandem with sampling of all site groundwater monitoring wells.
Report Prepared By:	Brian Maglienti
Report Date:	April 19, 2016
Available Recorded Coordinates:	MW–1/1A couplet (up gradient), MW–3/4 couplet(down gradrient), MW–6 (down gradrient)


Jones Hollow Brook
Co Rte 37
Gate
L.I.SW.A. #1
Petersburg LF
L.I.SW.A. #2
© 2016 Google
263 ft
1994
Imagery Date: 5/10/2014 lat 42.724725° lon -73.325350° elev 1347 ft eye alt 2588 ft
Google earth

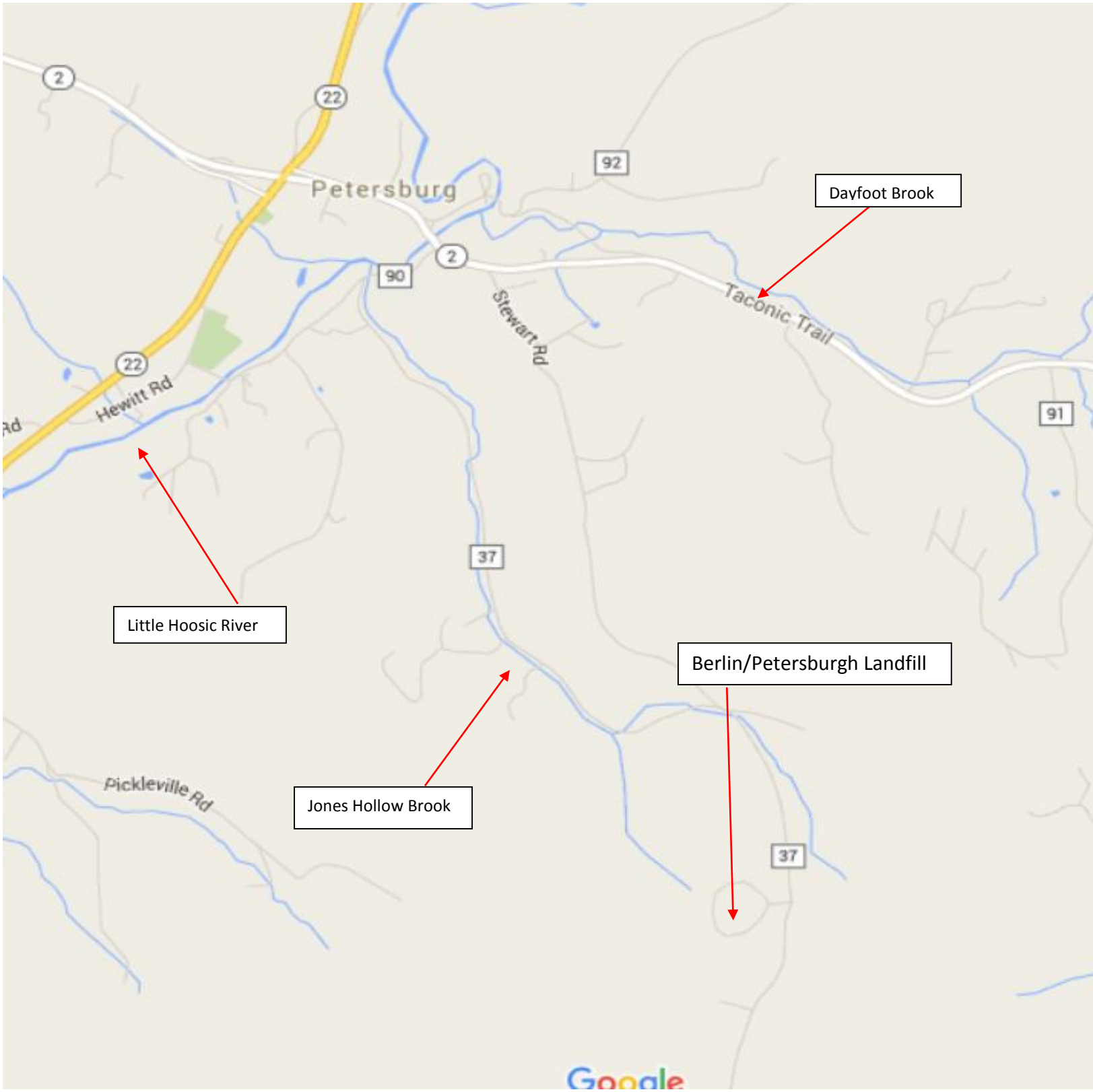
Petersburg
Davfoot Brook
Taconic Trail
Stewart Rd
Hewitt Rd
Little Hoosic River
Berlin/Petersburgh Landfill
Jones Hollow Brook
Pickleville Rd
2
22
92
90
91
37
Google

Photo 1: Entrance gate to the landfill. The gate is in poor condition but still effective in preventing vehicular access, however, the site is also accessible from at least one other location.
Photo 2: View of the site facing west, just past the gate. The grade of the site is shallow but then drops off toward the ravine at the western side of the landfill.

Photo 3: View of the landfill looking south from the location of MW couplet #1/#1A, located in the woods just off the landfill footprint.

Photo 4: View of the landfill looking east from the location of MW couplet #3/#4 located along top of the southern edge of the ravine leading to Jones Hollow

Photos 4 and 5: Leachate impacted surface water area (LISWA) #1 located on the western toe of the landfill indicative of landfill impacted groundwater in the form of orange iron floc deposits and iron bacteria film.

Photo 6: View looking east toward the western slope of the landfill where the LISWA #1 flows into a tributary to Jones Hollow Brook.

Photo 7: 180 degree view of the above location. The tributary flows toward Jones Hollow Brook.

Photo 8: Convergence of the above contaminated tributary (right side of photo) and the Jones Hollow Brook. (left side of photo).

Photo 9: This is a separate leachate impacted tributary flowing along the southwestern side of the landfill, labeled as LISWA #2 on the site map. Signs of iron staining are present, although floc deposition was minimal. This is likely due to the higher velocity of this tributary.

Photo 10: Several maintenance issues were identified at the site such as this culvert exit point that had a dislodged diffuser. Another culvert approximately 100 feet north of this location had the same condition.

Photo 11: Broken gas well requiring repair. This is the only well, of approximately eight passive gas wells, that appeared to have any damage.

Photos 12 and 13: Vegetation is growing within all of the stormwater features. This could eventually lead to erosion and slope stability issues if not addressed.

Photos 14 and 15: Some illegal dumping has occurred near the entrances to the site indicating that the site could be better secured and/or patrolled by the Towns. However, impact from illegal dumping appears to be minor.