



2585 Wagner Ct.
DeKalb, IL 60115
Phone: 815.748.4500
Fax: 815.748.4255
www.encapinc.net

John Clayton
Sugar Grove Park District
61 Main Street
Sugar Grove, IL 60554
(630) 466-7436 / jclayton@sgparks.org

RE: Dugan Park West Stormwater Project

Dugan Park West contains a stormwater retention pond that is fed by two stormwater inlets from the east and drains via one outlet on the west side of the pond. There is also an emergency overflow adjacent to the west outlet, characterized by a lower elevation than the surrounding terrain. Both the outlet and the emergency overflow drain into a creek to the west.

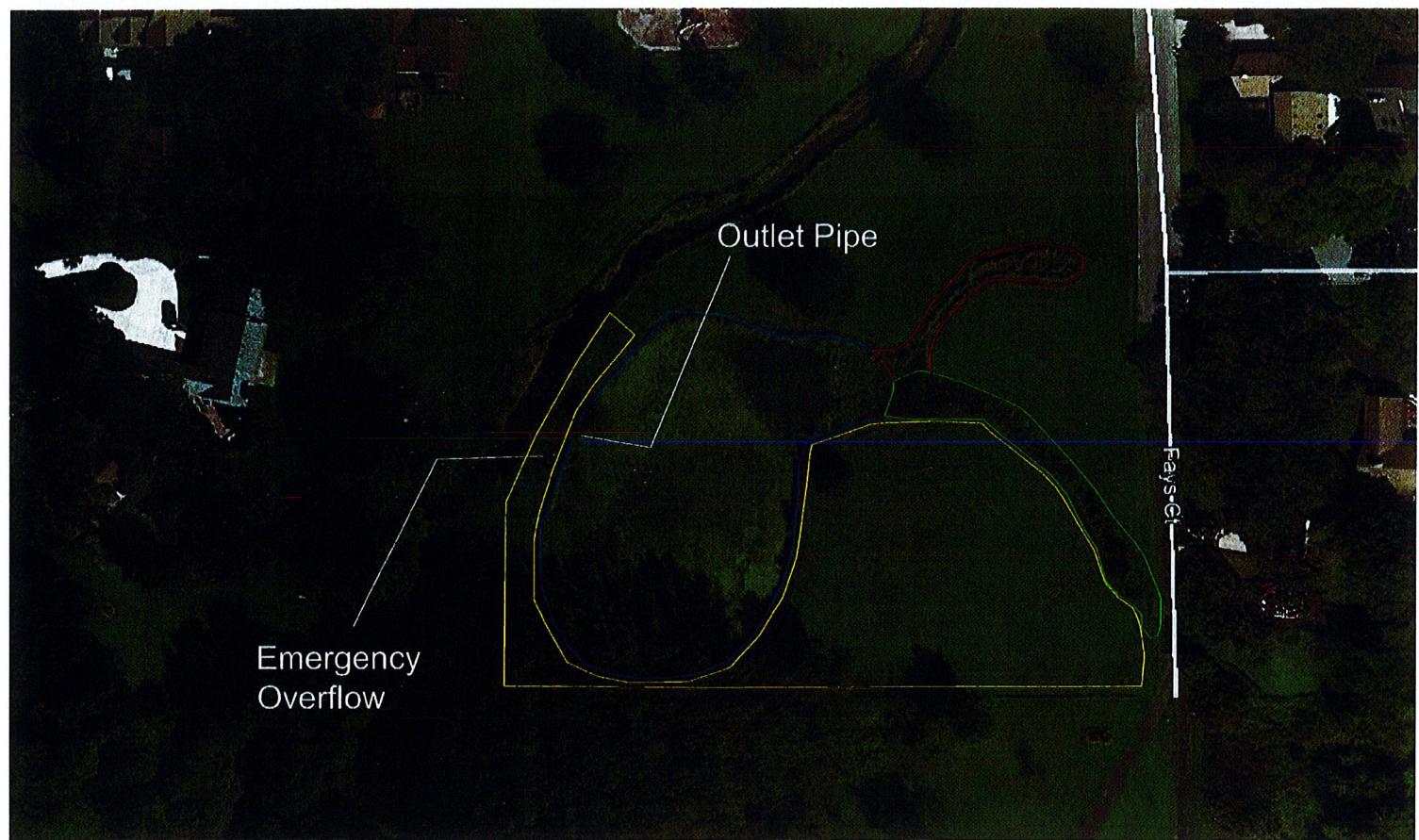
Recent years have seen an increase in the amount of stormwater being fed into the pond. The result has been flooding and oversaturated soil in the area marked in yellow in the attached aerial photo. This area is planted as turf, but due to the aforementioned stormwater issue, has been increasingly difficult to mow. Therefore, this area has been left to grow into a turfgrass meadow. The two inlet corridors, marked in red and green, as well as the pond has become highly incised and has been populated by invasive species. These species include reed canary grass (*Phalaris arundinacea*), cattail (*Typha angustifolia L.*), and boxelder (*Acer negundo*). While these species do provide some bank/shoreline stabilization, it would be recommended to remove them and reseed with native species. The creek corridor to the west is experiencing the same issues.

The attached proposal includes all labor and materials to treat broadleaf weeds in the new meadow area, herbicide reed canary grass & cattail, remove boxelder & other woody invasive species, and reseed highly herbicided areas with low profile native seed for the purposes of bank stabilization. A prescribed burn is also included to remove excess thatch and aid in suppression of invasive woody growth.

Future work that may be needed would be to reshape eroded slopes of the pond and inlet areas, install riprap stone to protect against future erosion, and the installation of rock riffles in the inlet areas to help dissipate the energy of the water flowing into the pond. These items may require coordination with regulating bodies to acquire the necessary permits. If the Park District is interested, ENCAP, Inc.'s consulting division can provide a separate proposal for that coordination.

Thank you for the opportunity,

Brett Suhayda
Sr. Estimator



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X: 943513.129379792 Y: 1854815.24305634 Acreage: 8.90

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