



**GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES
DEPARTMENT OF PLANNING AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION**

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REHABILITATION OF EXISTING FRESHWATER PONDS FOR AGRICULTURAL USE

Purpose:

Based on a meeting on March 5, 2018, between

- Office of Senator Allison DeGazon (Sen DeGazon, Sonia Andrew, Richard Nicks); and
- DPNR-DEP Personnel (Syed Syedali, Benjamin Keularts, Diana Joshua and Emanuel Liburd);

a listing of six ponds is provided (not in order of importance) for consideration for rehabilitation.

Benefits:

1. Studies indicate that recent flood events often exceed the mapped floodplains (FEMA FIRM): This project will accomplish the following:
 - Potentially reduce the occurrence/frequency of flash-flooding, due to a projected increase in retention and decrease in flow velocity of stormwater runoff.
 - Potentially reduce likelihood of flooding that are caused by increase stormwater run-off due to filling in of ponds, floodplain or floodway areas, with sediment, debris and vegetation.
2. Reduced the amount of non-point source pollution especially sediment and organic nutrients, from stormwater discharges into the near-shore marine environment.
3. Recharge of groundwater aquifers.
4. Provide needed water for farmers, both for crops and livestock.

Selection criteria:

1. Pre-existing man-made impoundments
2. Ponds currently in need of repairs and/or maintenance.
3. Located on Government -owned land.
4. Vehicular traffic accessibility
5. Near major roads/thoroughfares.
6. Proximity to farmlands.

Limitations:

1. Desktop exercise – the actual current status of these ponds is not field- verified. Photographs from *Conservation Data Center. 2010. Wetlands of the U.S. Virgin Islands. Division of Environmental Protection, Department of Planning & Natural Resources. U.S. Virgin Islands.*
2. All ponds are classified as Wetlands, and thus subject to local and federal Wetlands Rules and Regulations.
3. Some ponds provide habitats for a range of resident and migratory species of water birds, thus subject to local and federal Fish & Wildlife Rules and Regulations.
4. Ponds are part of the floodplain and floodway system of the watershed surface drainage, and thus subject to local and federal Floodplain Management Rules and Regulations.
5. Available existing infrastructure not evaluated, to include availability of water storage tanks, water delivery standpipes, roadways, etc.
6. For discussion purposes, it is assumed that the cost to rehabilitate each pond is approximately \$50,000
7. Excavated soils may contain unknown toxins and should be evaluated prior to land application; however, should be acceptable for use as earthen berm.

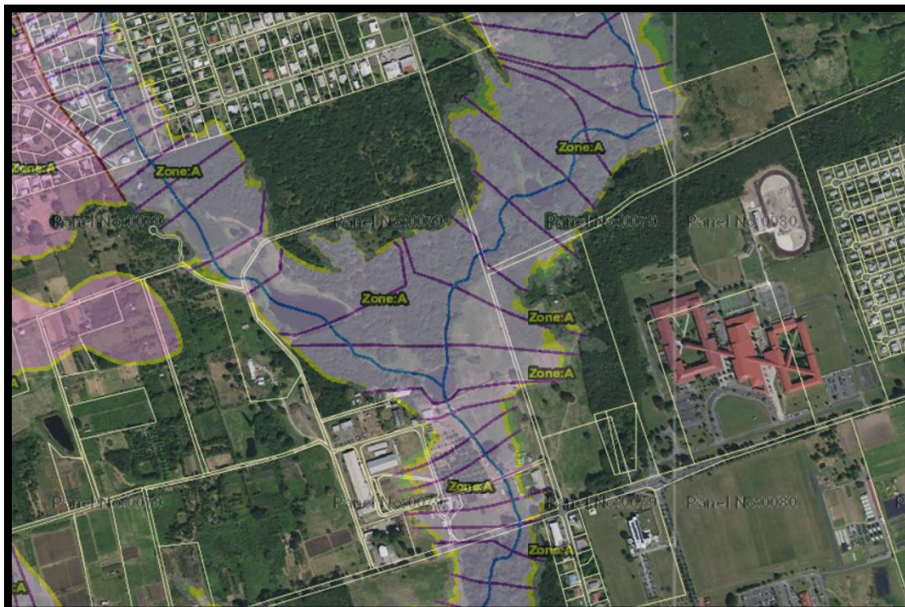


AGRICULTURAL FAIR GROUNDS PONDS: 2 PONDS; 1 LOWER LOVE EXP STATION, STX PIN: 406300040200



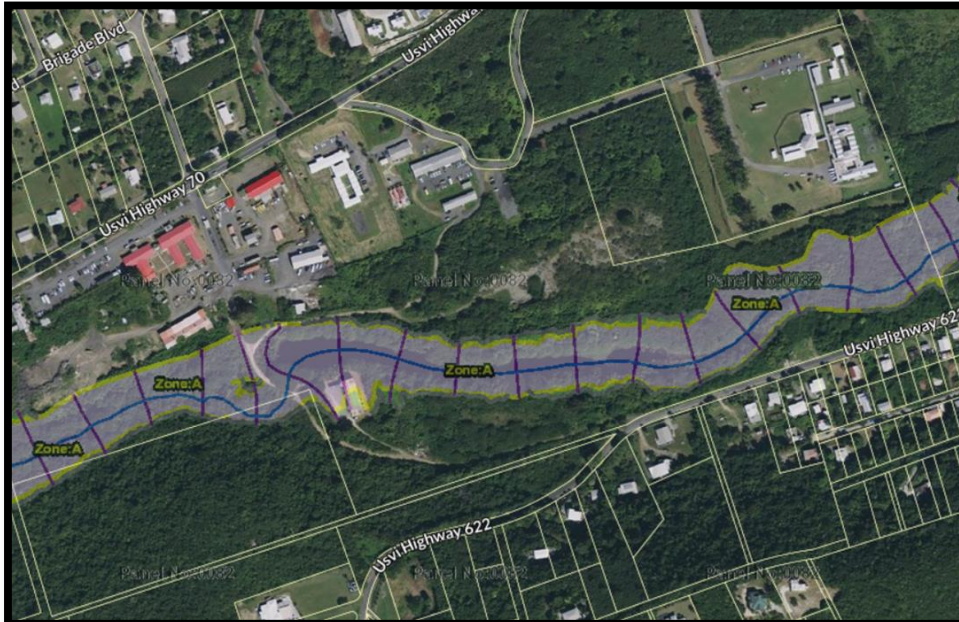


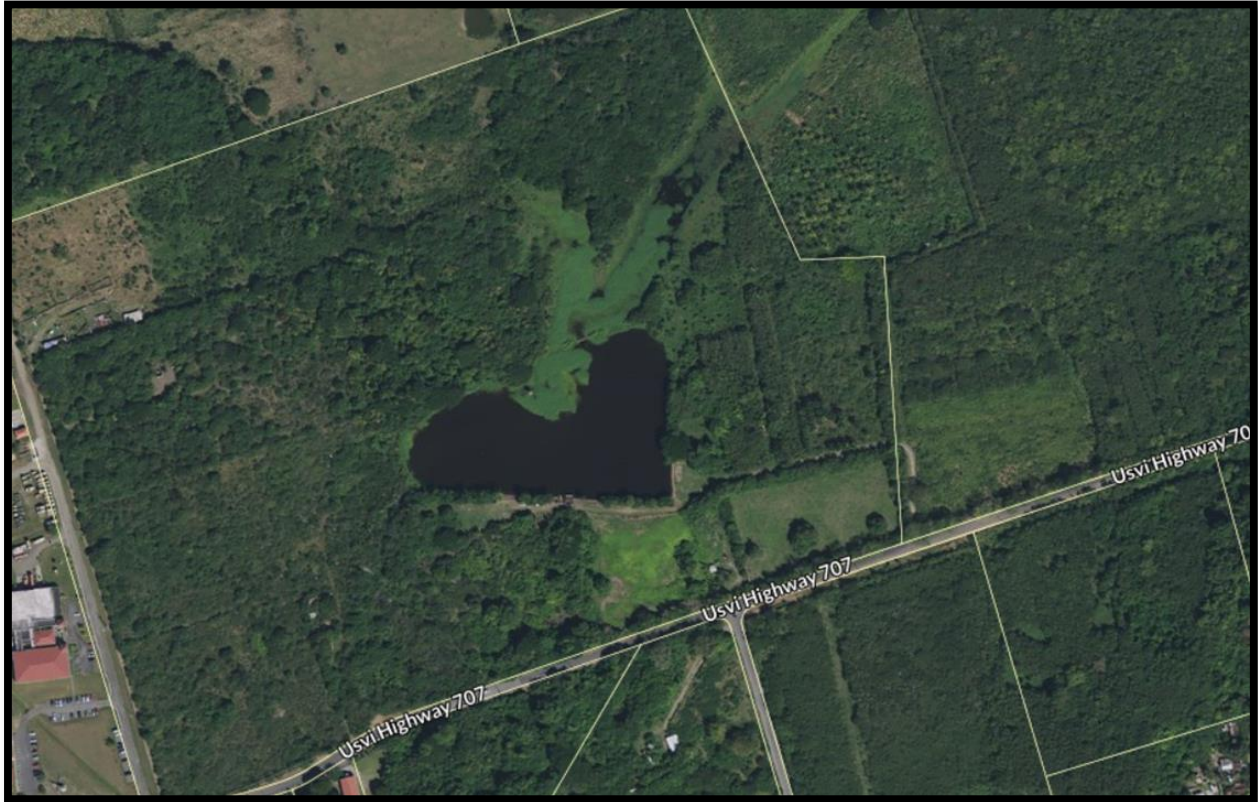
AGRICULTURAL FAIR GROUNDS PONDS: 1 POND; 9 VICORP LAND-JEALOUSY, STX ;PIN: 404300040100.
Drainage system for the 3 ponds on the Agricultural Fair Grounds is shown below.





UNNAMED POND; ADDRESS: 8 & MATR 36-A ANNAS HOPE, STX; PIN: 206800010100





FREDENBORG POND; 10 VICORP LAND, STX ; PIN: 204400040200





CREQUE DAM; 1 NORTH HALL (CREQUE DAM) ; PIN: 403900010300

