

### Umbrella Mitigation Banking Instrument

UMBI



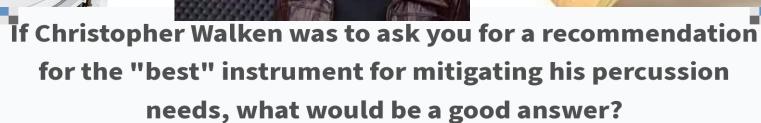


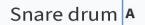
### What is an Instrument?

- Why do we need to protect wetlands?
- What have we done, so far?
- Why it won't continue to work?
- Where we are going?









Xylophone B

Cowbell c

Guitar **P** 









## Why do we need to protect wetlands?



Because the law makes us!



Glenville Estates 2005

Repeated flooding with 140 homes severely damaged in the early 2000's led to the State of Delaware purchasing the homes, and led to Governor Minner issuing a declaration to State regulators to protect the citizens and State from flooding.



Glenville Estates 2008

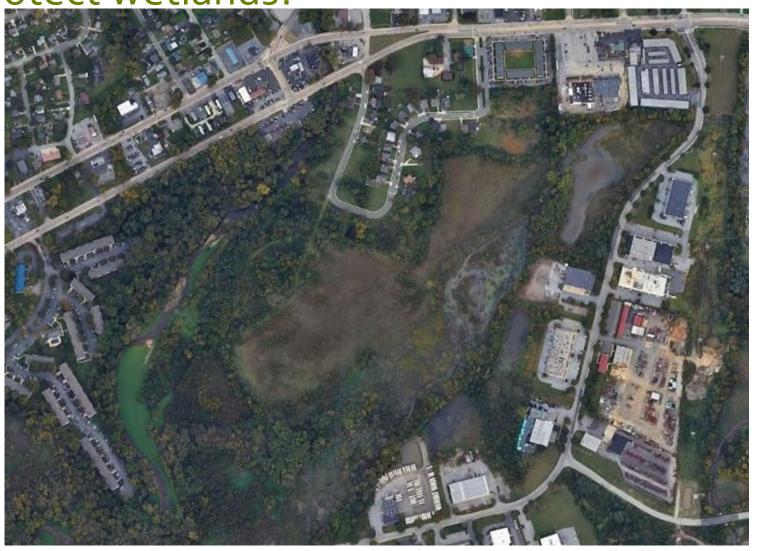
Creation of the Glenville Wetland Mitigation Bank

- 19.6 acres created
- 25 acre preservation
- 21.3 acres of transitional upland buffer



Glenville Estates

Glenville Wetland Mitigation Bank - 2020



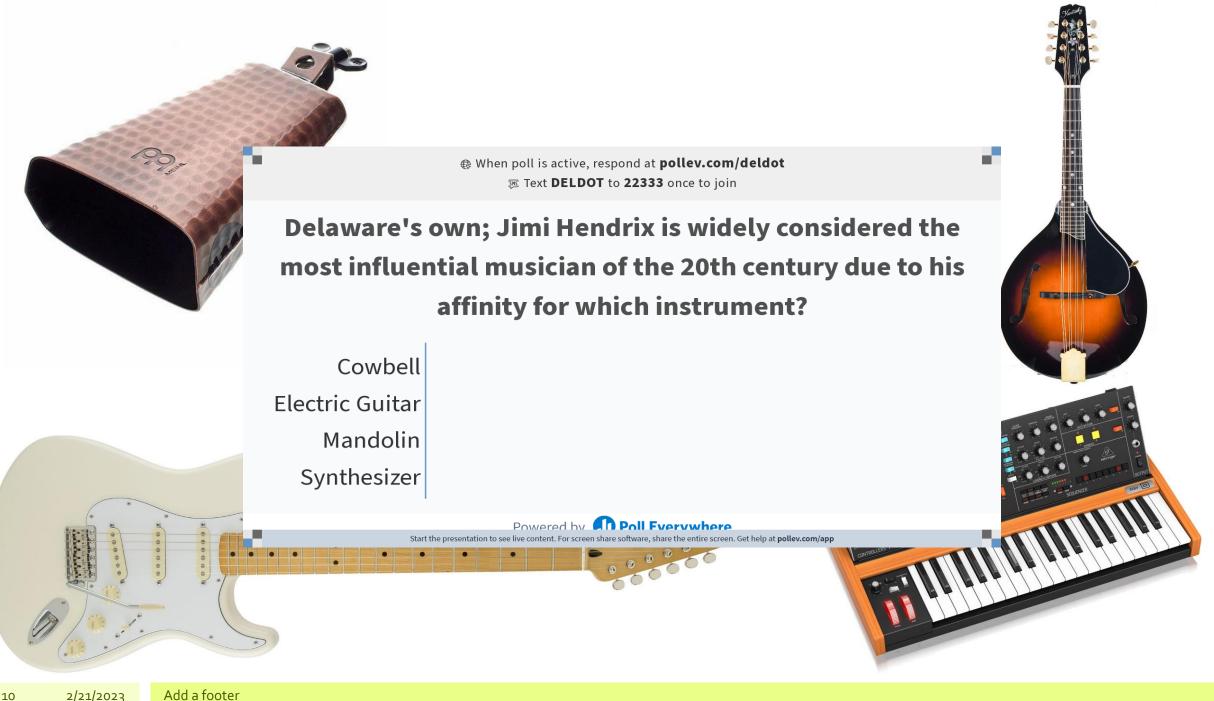
Glenville Estates

Glenville Wetland Mitigation Bank - 2020





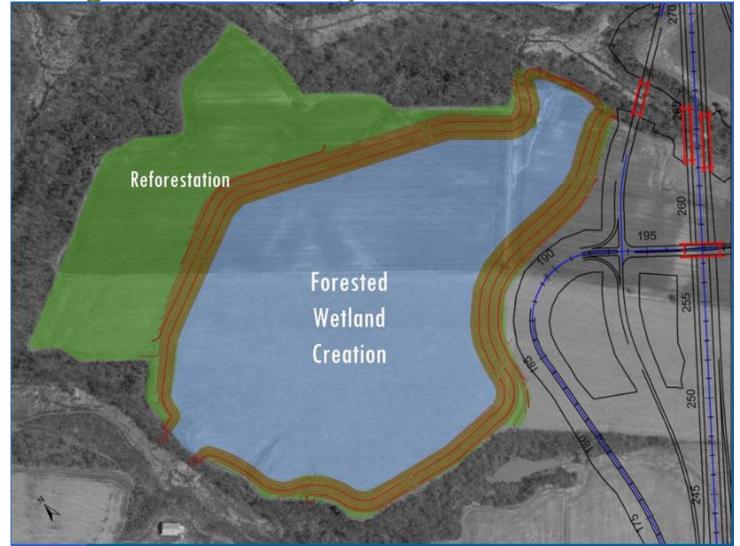






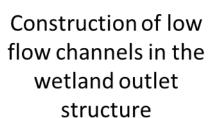
# What is the current practice?







Construction of Beaver Pond Leveler









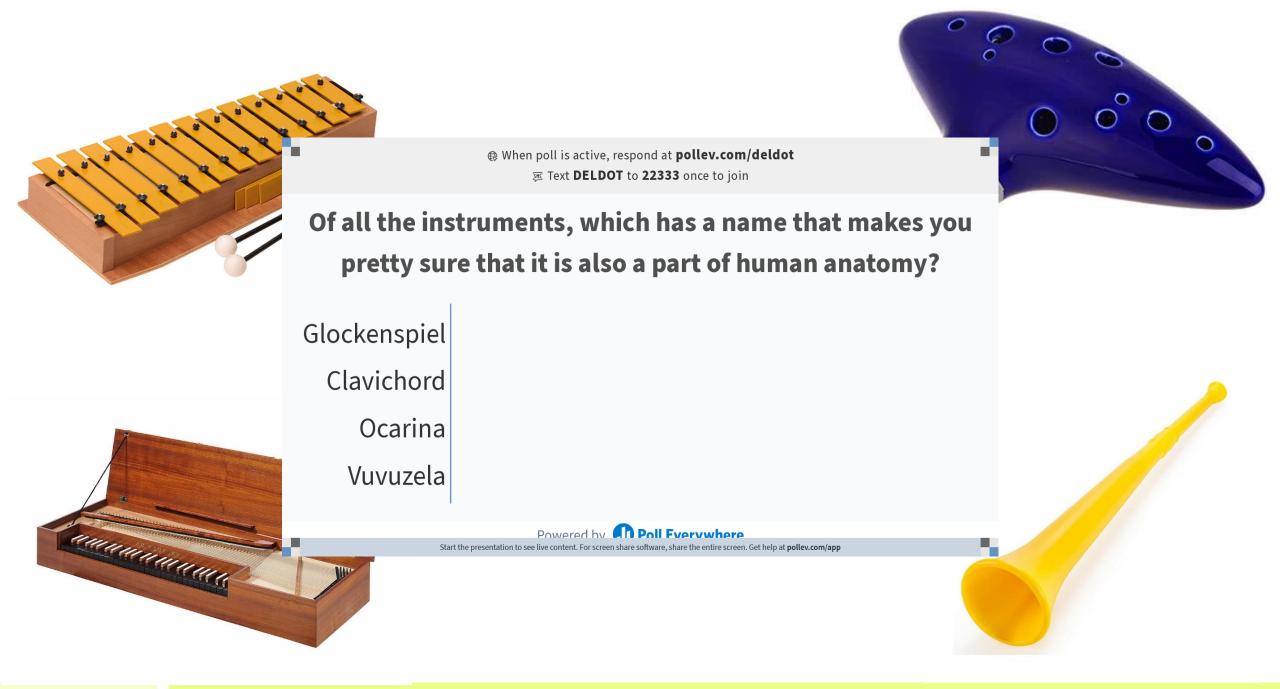
Sapling plantings



Levels Mitigation Site - 2018



Levels Mitigation Aerial - 2022

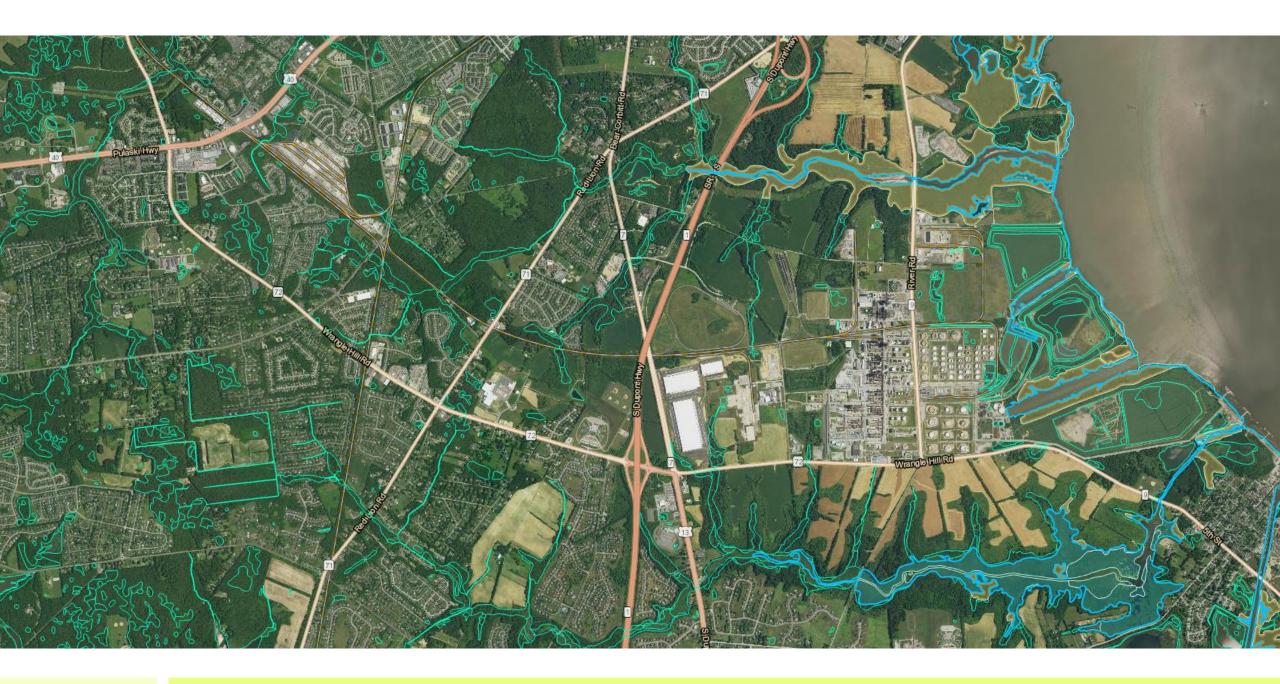


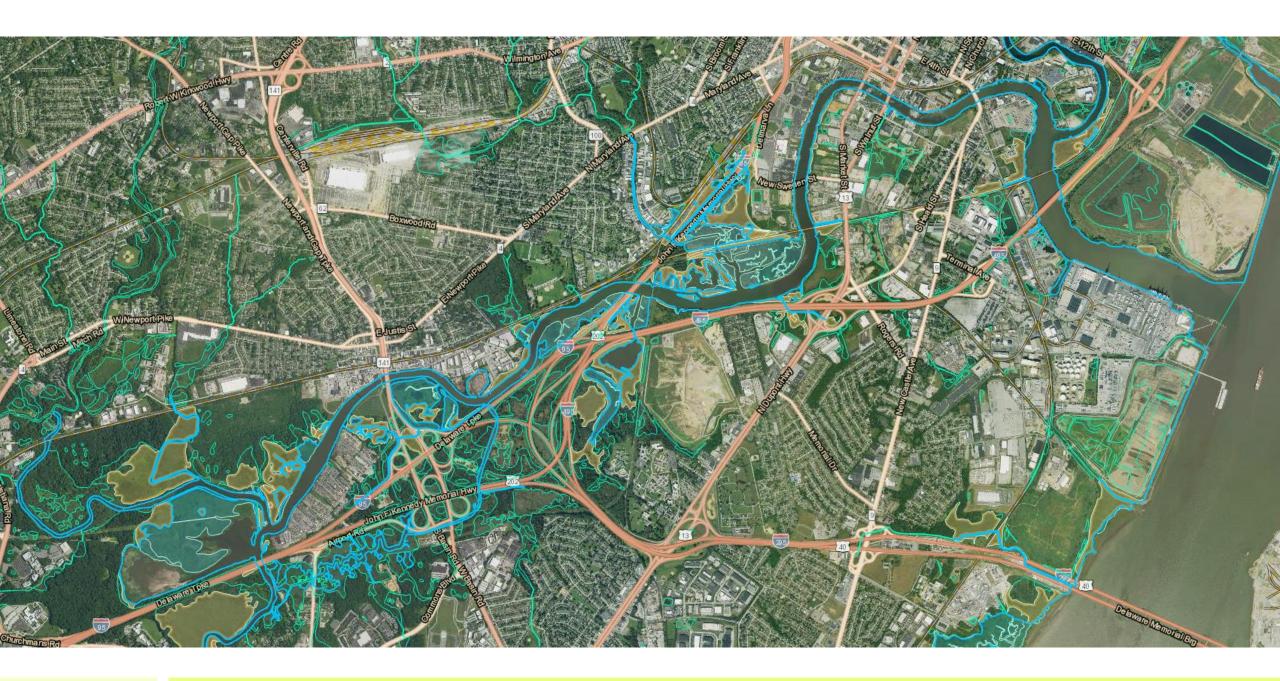


Why change?











When poll is active, respond at pollev.com/deldot

™ Text **DELDOT** to **22333** once to join



Nyckelharpa Lur Crwth Didgeridoo



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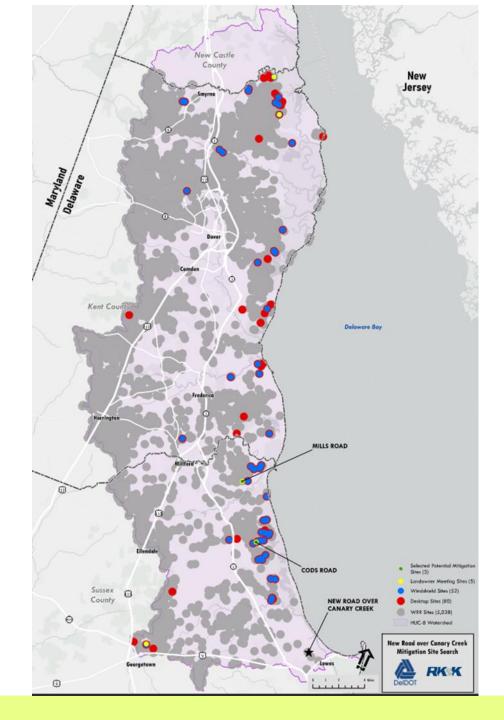


### What will a bank do for DelDOT?



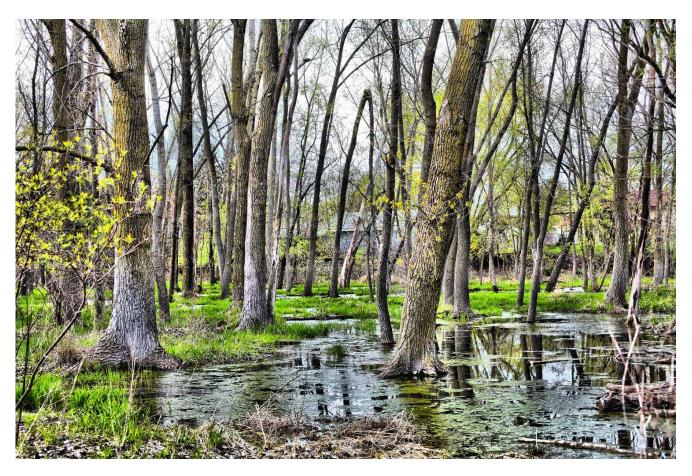
#### Control & Time

- Currently each DelDOT project that impacts a wetland is responsible to mitigate for the loss of that wetland through an individual wetland mitigation.
  - This requires finding potential sites
  - Undergoing a wetland investigation to determine if any of those sites are viable
  - Land acquisition
  - Construction of the wetland must be concurrent or prior to the overall project
- The probability of our projects impacting a wetland is increasing.
- The availability of lands ideal for wetland mitigation is decreasing, and increasing in cost

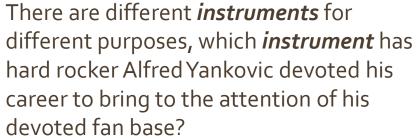


#### How will it work?

- At first, the same way it currently works!
  - We are required to find potential sites
  - We then undergo a wetland investigation to determine if any of those sites are viable
  - The UMBI is appended with the proposed wetland
  - Land acquisition takes place
  - Construction of the wetland occurs unrelated to existing or proposed projects
  - At which point the wetland will be accepted into the bank, with credits accruing at specific timeframes through the life of the wetland
  - When a DelDOT project impacts a wetland, those accrued credits may be used to mitigate the impacts without slowing down or impacting the project







- A. Accordion
- B. Pan Flute
- C. Bagpipes
- D. Hammered Dulcimer







