CBT: Quantifying Wetland Mowing
Committee Kick off - 9.14.23

Whitney Vong (CBT)
Pamela Mason (VIMS)

Alexi S. de Boado
Clean Streams LLC

- Grantee/PM
- Interviews/Lit review

Mark Burchick / Leslie Wood
ESA Inc

- Wetland Mow Locations
- Ground-Truthing
- Wetland Delineation
- Voucher Photography

Carter Wang
Towson Univ

- GIS analysis
- Drone imagery

Xin Huang
Towson Univ

- Machine Learning
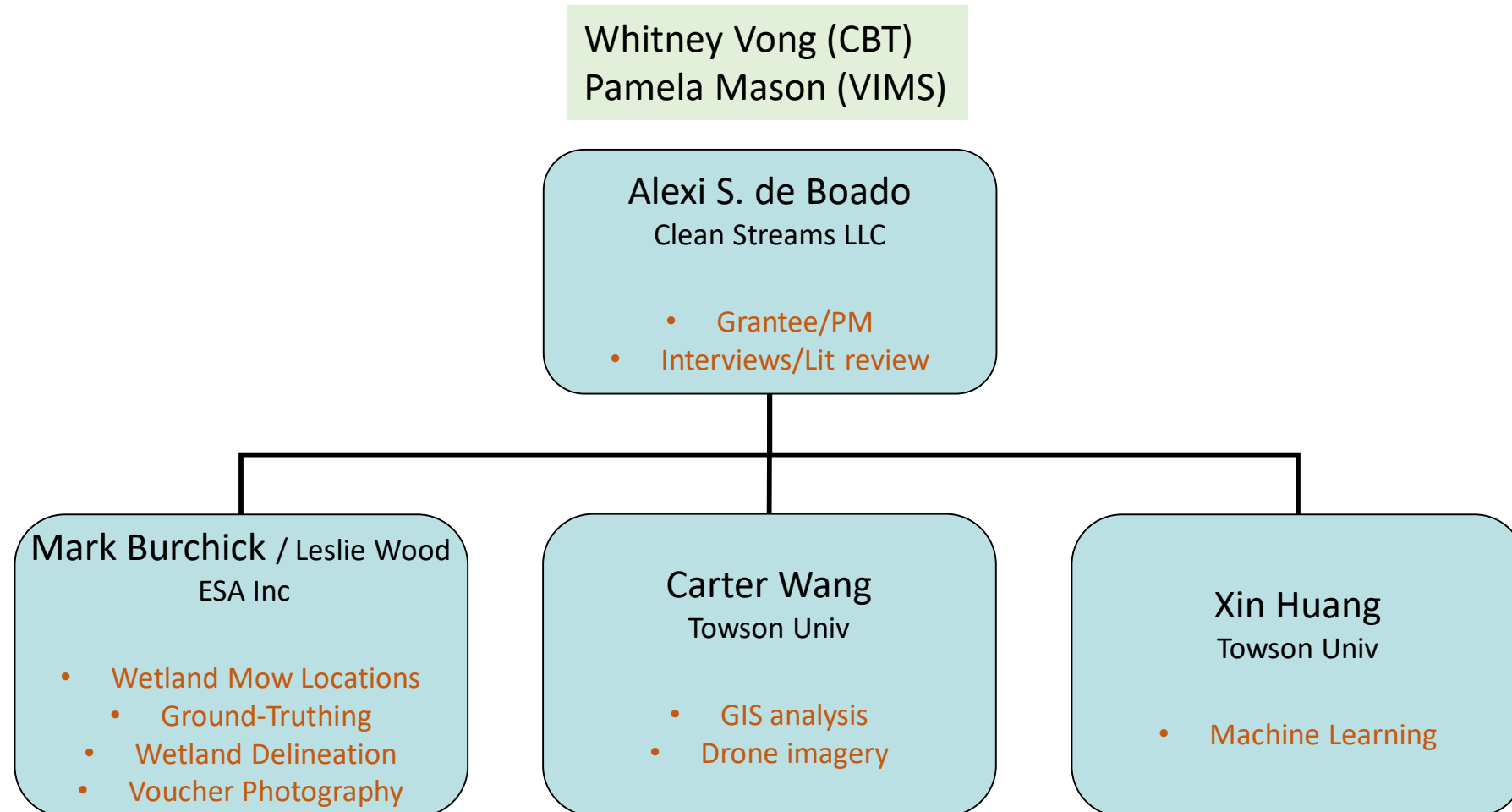
Steering Committee

- Pamela Mason
  - VIMS (*Goal Implementation Team Technical Lead*)
- Kevin Du Bois
  - US Navy (DoD Chesapeake Bay Program Coordinator at Department of the Navy)
- Charlotte Shearin
  - Regional Program Chief, MD DNR Critical Area Commission
- Claudia Jones
  - Science Advisor, MD DNR Critical Area Commission
- Robert E. Isdell
  - VIMS Assistant Research Scientist
- Jon Stewart
  - MDE, Eastern Regional Chief, Tidal Wetlands Division
- Tess Danielson
  - DC DOEE Environmental Protection Specialist

Goal#1: Locate & quantify mowed herbaceous tidal wetland

- Find / visit 4 sites (2 each state) with mowed and un-mowed herbaceous tidal wetland
    - We collected 17 sampling plots for mowed wetlands in Maryland and 13 plots for Virginia sites from the 8 mowed areas delineated
- Delineate wetland and find edge of non-wetland (turf/beach/bulkhead)
- Train algorithm to find mowed rush-grass-sedge & phrag patches across MD, VA on sat imagery using delineated sites.

    - (Fly multispectral drone and compare satellite to drone imagery.)

Deliverable: MAP and method

5823 Lewisetta Road, Lottsburg VA

1520 Ferry View Drive, Heathersville VA

516 Bridge Creek Circle, Reedville VA

255 Lake Francis Lane, Lottsburg, VA

Lewisetta & Lake Francis Lane, Lottsburg, VA

26210 Ingleton Court, Easton MD

Service
ands Inventory

26210 Ingleton Ct W, Easton, MD

ing Creek

U.S. Fish and Wildlife Service, National Standards and Support Team
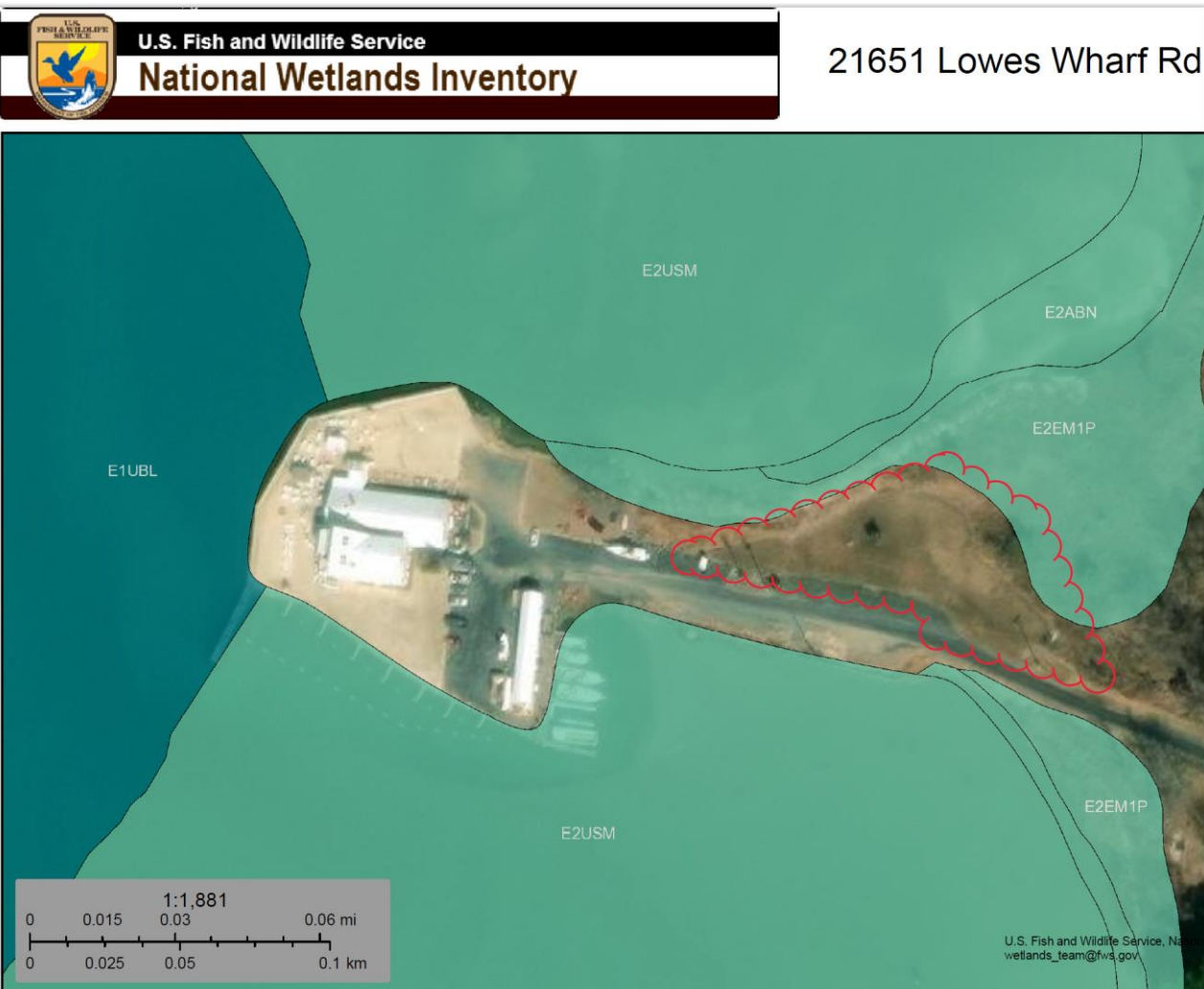
120 Great Neck Road Stevensville MD
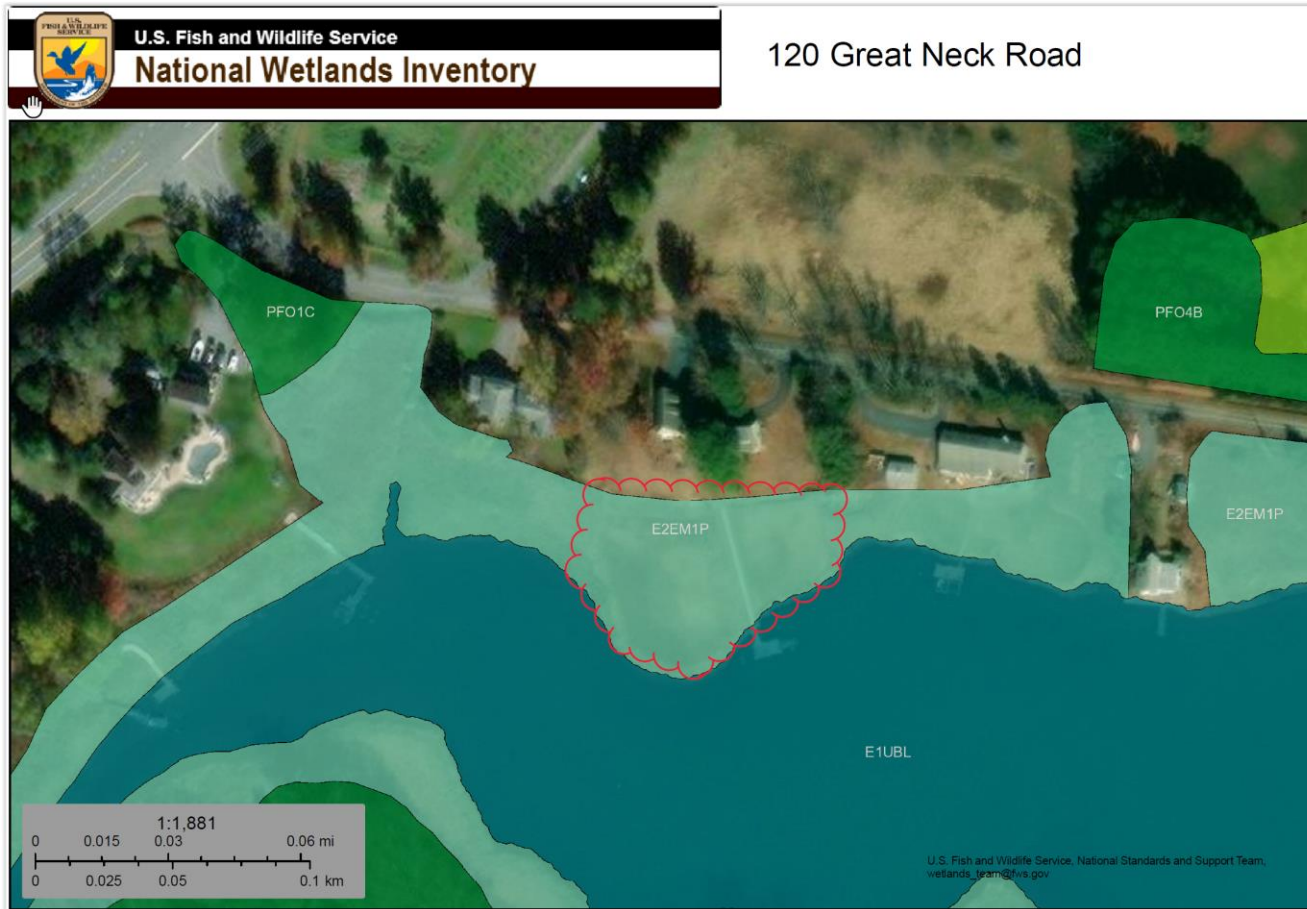
21651 Lowes Wharf Rd, Sherwood, MD

Goal #2: Literature review & policy-maker interviews

State of regulations, protection/education programs, awareness in MD and VA
Interviews completed: 13

Maryland
- Anne Arundel County
- Calvert County
- Somerset County
- USACE Baltimore
- MDE(Planner)
- MDE (Division Chief)

Virginia
- HRPDC
- Gloucester County
- DEQ
- VMRC
- USACE
- DWR
- Fairfax Co

Deliverable: Summary of laws and policies, summary of interviews

CBT Wetland Mowing Project Update

- Field work completed

- MD/VA policy review document submitted 12.15.23

- Questions and interviewees
  - Interviews completed.
  - Draft findings submitted

- Finalizing the remoted sensed and machine learning analyses