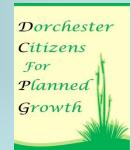
DCPG Water Monitoring Year in Review 2013



Roman Jesien
January 26, 2014 Annual Meeting
Dorchester Citizens for Planned Growth
www.dcpgonline.org





The Susquehanna R

Contributes 33% sed, 25% of the P, 46% of the N into the Bay

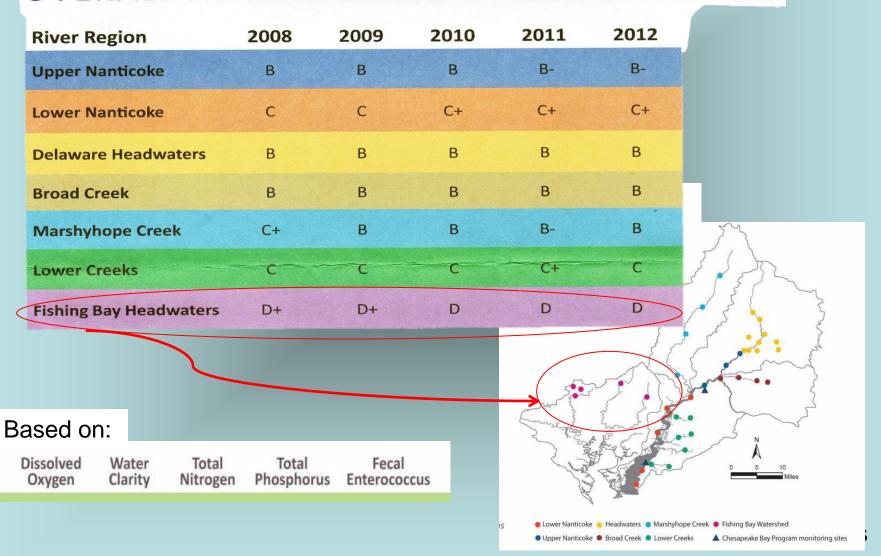
The dam has little impact on N loading in the Bay

Affects mostly the central Stem

Our water monitoring shows Pollution from local sources: Farms, septic systems, stormwater runoff which need to be addressed locally

Nanticoke Watershed Alliance Report Card

OVERALL HEALTH GRADES FROM 2008-2012





Little Blackwater at Rt 16

DCPG Creek Watchers

9 Stations every 2 weeks – 2008 - Present

Field

Dissolved Oxygen Temperature Salinity Water Clarity

Laboratory

Nutrients
Nitrogen
Phosphorus
Bacteria

Nanticoke Watershed Association

Made Possible through the Efforts of Dedicated Volunteers



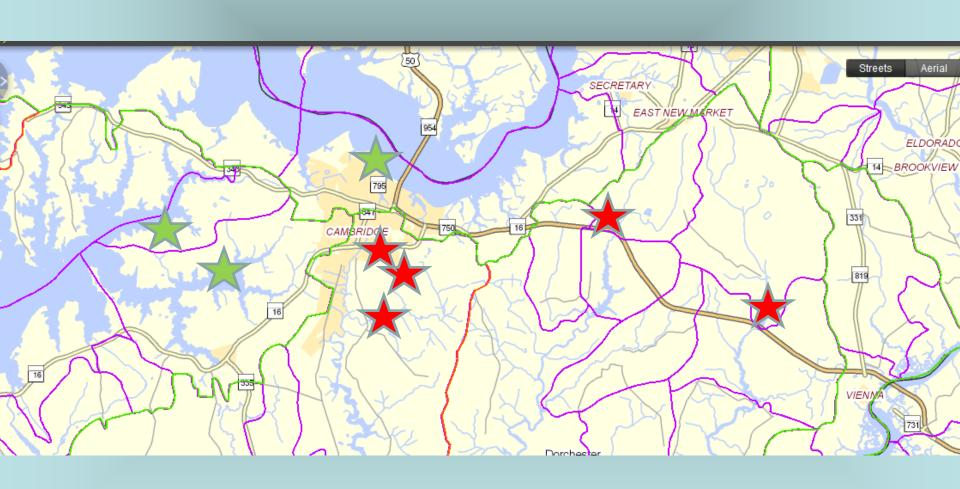
Envirocore Labs, Inc Harrington DE

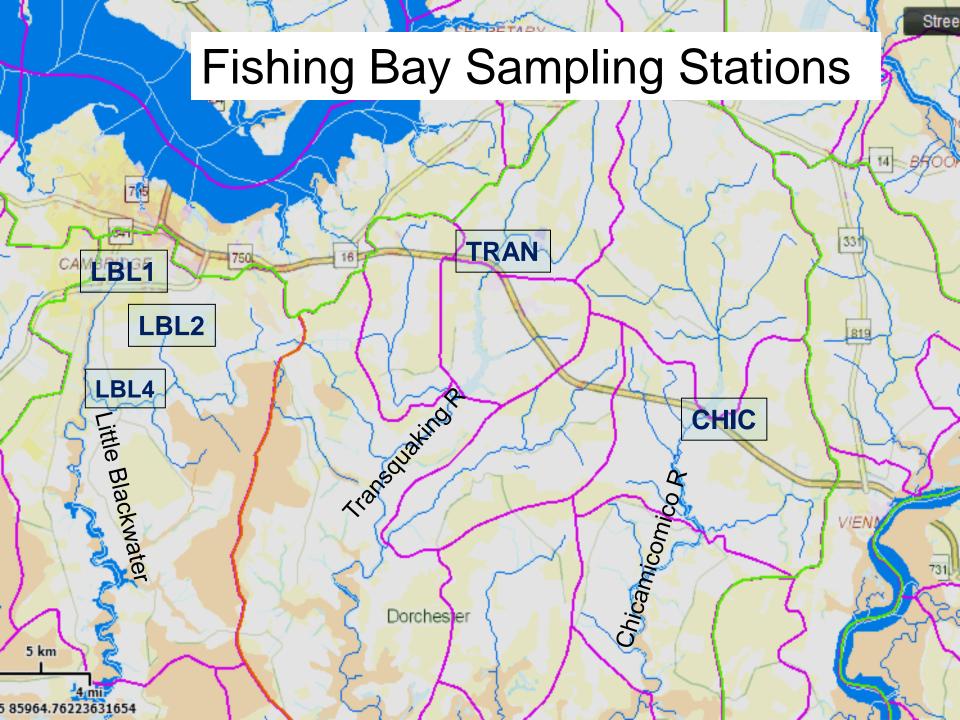
University of MD Horn Point Environmental Lab



Sampling stations

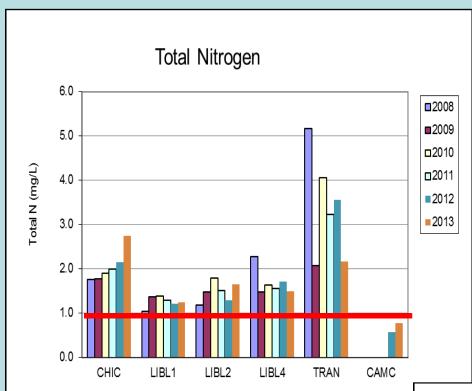
5 Long term, NWA 3 DCPG funded





Choptank Sampling Stations

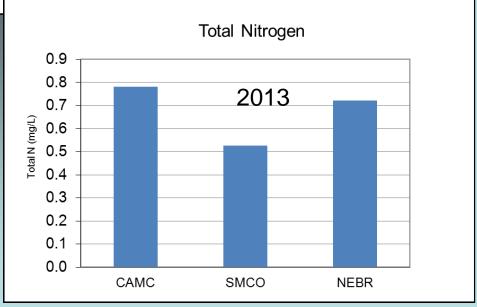


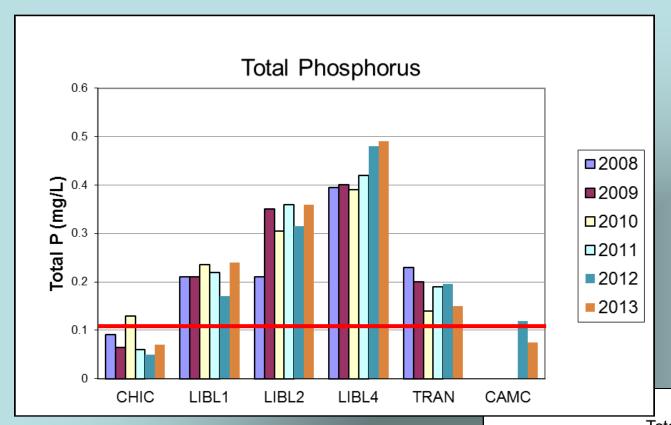


Median values (1/2 the values are greater).

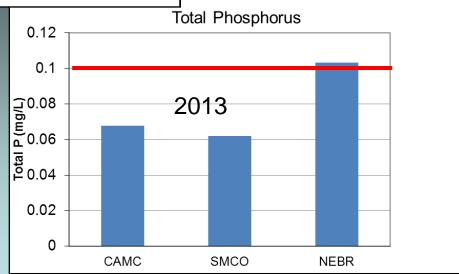
Total N > 1 mg/L excessive

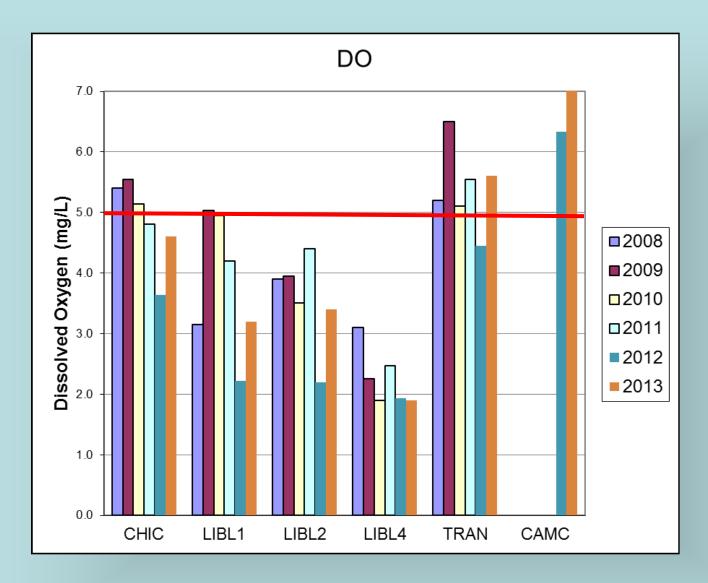
Transquaking R (TRAN)
JCR Enterprise 2006 violations,
Blue green algae blooms in the
Transquaking 2006 - 2012





Total P > 0.1 mg/L excessive

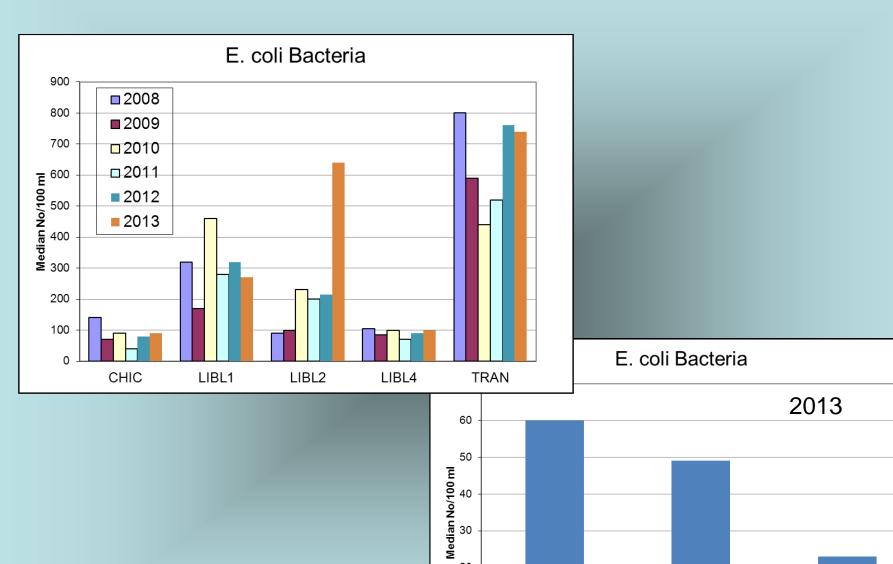




Dissolved Oxygen

Aquatic organisms need 5.0 mg/L

Indicator of Potential Contamination Risk



20

10

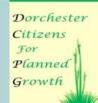
0

CAMC

SMCO

NEBR

Help!!







Need for additional sampling locations



Conclusions

- We have identified some real water quality problems originating in Dorchester County
- It will take a strong and concentrated effort by all stakeholders, i.e., farmers, developers, landowners, watermen, business owners, municipalities to work together to restore the waters of Citizens Chesapeake Bay

Growth