Urban Lake HABs

Education, Prevention, & Control

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City of Overland Park

2020 Kansas Harmful Algal Bloom Meeting
January 22-23, 2020
Why Urban Lakes?

- City of Overland Park (200,000+)
  - 6 fishing lakes
  - 15 ponds/lakes for flood detention, irrigation, and/or stormwater treatment

- Neighborhoods/HOAs/Commercial
  - 200+ private detention lakes/ponds

- Rural/Farm Impoundments
  - 100+ rural ponds/lakes
Problems

- Stormwater Runoff
- Organic Waste Dumping
- Trash Dumping
- Fertilizers
- Animal Waste (read: Goose)
- Heavy Metals
- Sediment-bound Phosphorus
- Hypereutrophic
- Harmful Algal Blooms
Concerned Community

- Human Health
- Pets and Animal Health
- Recreation Opportunities
- Aesthetics (read: Johnson County)
- Nuisance Complaints
- Educated and Concerned
- National - State - Local Issues
South Lake Park
Harmful Algal Blooms
Trials & Tribulation

- Dredging
- Education & Outreach
- Inlet Stenciling
- Soil Testing
- Goose Control

200 geese removed from 2 Overland Park lakes, to be relocated to Hays, Kansas

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Trials & Tribulation

- Stormwater Treatment
- Parking Lot Reconstruction
- Algicide
- Aeration
- Floating Wetlands
Long-Term Goals

- City of Overland Park
  - Expand Floating Wetlands
  - Trial at other lakes
  - Parks O&M
    - Fertilizers
    - Soil Tests
    - Mowing
    - Native Plants
    - Dredging
  - Continue Water Quality Monitoring
  - Partner with local schools and universities
    - Algae/HABs
    - Water Quality
    - Pilot Projects
Long-Term Goals

- Private Lakes/Ponds in O.P.
  - Respond to Citizen Complaints
    - HABs
    - Fish Kills
    - Hypereutrophication
  - Educate Citizens
  - Provide Initial Water Quality Testing
  - Advise on Control Measures
  - Incentivize Change
    - Cost-Share
      - Floating Wetlands
      - Native Plants
      - Stormwater Treatment
Questions?

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