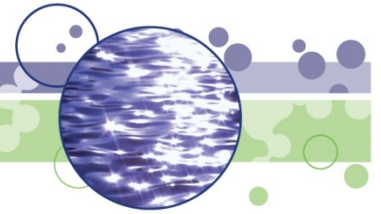


# **An Integrated Approach to Improving Water Quality – Indiana’s NPS/TMDL/IR Program**

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Indiana Department of Environmental Management



# DISCLAIMER

The opinions expressed in this presentation are the speaker's and only the speaker's. Mention of agencies, organizations, or individuals does not imply any endorsement or approval.

Drawings shown not to scale.

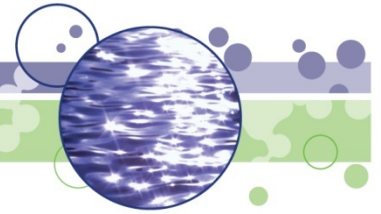
Some settling may have occurred during shipment.  
Objects in presentation are closer than they appear.

This presentation has been rated

**PG-13** PARENTS STRONGLY CAUTIONED

Some Material May Be Inappropriate for Children Under 13

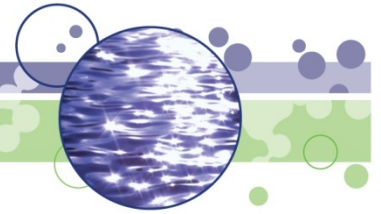
Epic Battle Sequences and Some Gore



## Presentation Overview

- History
- Rethinking
- Results





# TMDL and NPS

- Lack of understanding
- Lack of leadership
- Lack of respect
- Lack of purpose

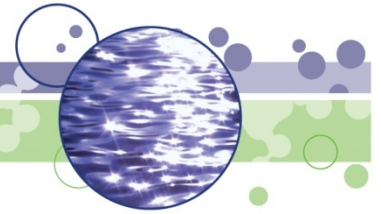




# Little Orphan 303d/305b

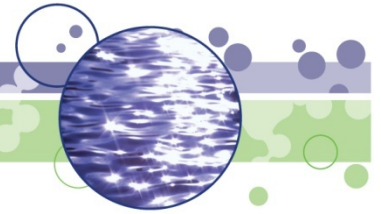
- Disconnected
- Neglected
- Rejected
- Objected



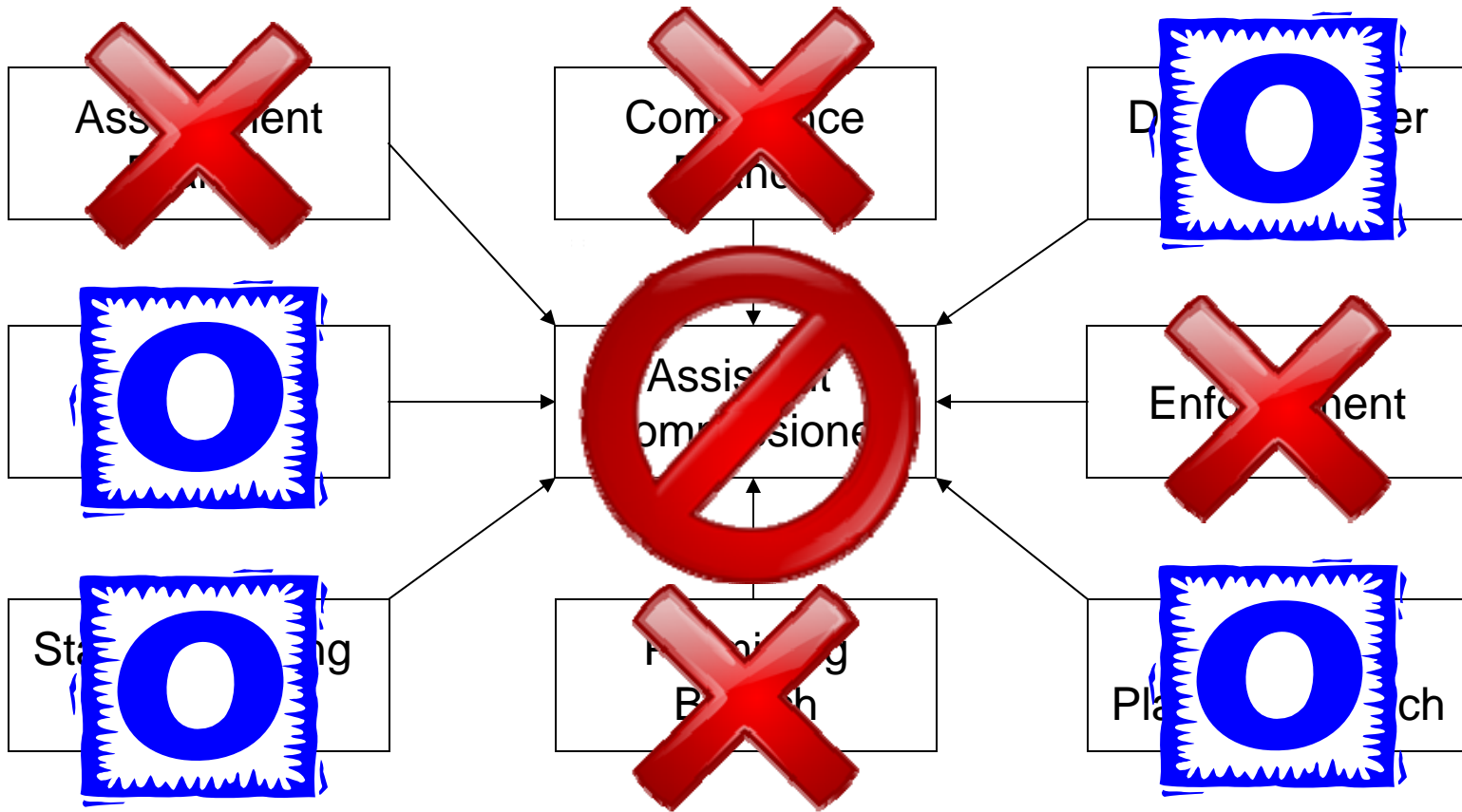


# What Wasn't Working

- As of 2001 (TMDL) –
  - Only one TMDL had been completed
  - Staff focused on sampling
  - Disconnect from other programs
- As of 2001 (NPS) –
  - No consistent funding priority
  - Monies spent on numerous small projects
  - Demonstrations and planning primary focus



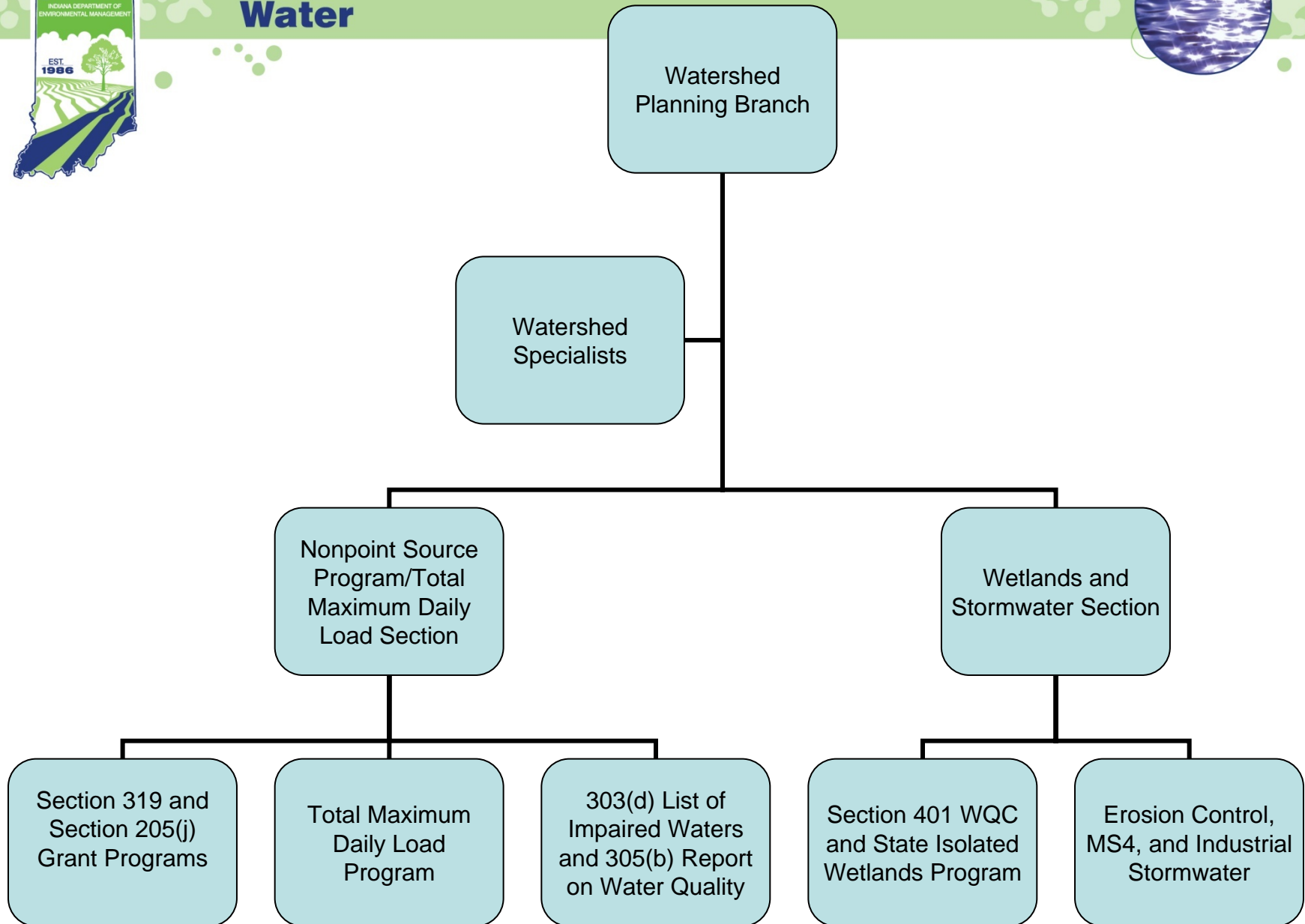
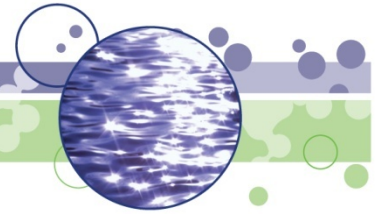
# IDEM-OWQ Org Chart

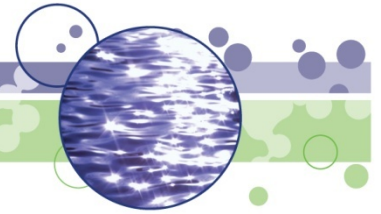


# 2005 Rethinking

- Move the programs together
- Rethink grant priorities
- Write TMDLs
- Use the 303d List
- Make staff play together







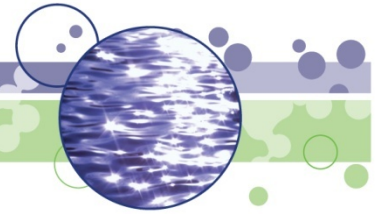
# Aligning Priorities - TMDL

- Expand outreach to NPS stakeholders
- Work in watersheds with active groups
- Work ahead of watershed groups
- Share information freely
- Provide technical support to grantees



# Aligning Priorities - NPS

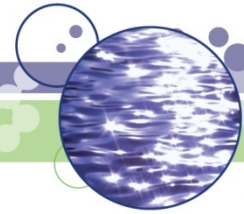
- Funding Priorities
  - Planning and implementation in watersheds with approved TMDLs
  - Planning and implementation in watersheds with waterbodies on the Section 303(d) list
  - Implementation of watershed management plans that meet the IDEM Checklist



# Watershed Specialists

- Role – facilitate all aspects of watershed planning at the local level
- How?
  - Attend meetings
  - Find resources/people
  - Coordinate studies/efforts
  - Help with grant proposals
  - Facilitate meetings
  - Review draft watershed plans

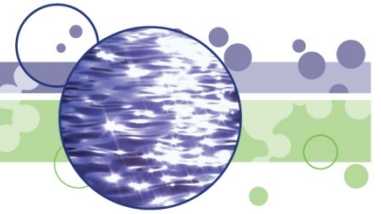




# TMDL Accomplishments

- Since 2001 –
  - 698 TMDLs completed
  - 217 TMDLs in progress
  - 3 Interstate TMDLs
  - 32% implementation through NPS
  - \$828,666,000 SRF Loans in TMDL Watersheds

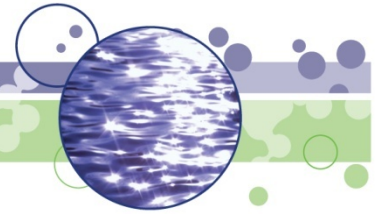




# NPS Accomplishments

- Section 319 Success Stories
- Stakeholder interest in TMDLs
- Bigger and better projects
- NPS Grants/TMDL Watersheds:
  - \$5.3 Million from 2001
  - Post TMDL grants
  - New groups building on TMDLs

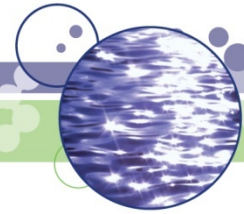




# 303d List Accomplishments

- Fully integrated into TMDL process
- Wide acceptance of data
- Third Party Data Initiative
- Support for NPS grantees

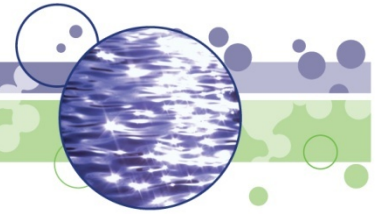




# Future Efforts

- Measure W
- TMDL/Watershed Plan Template
- Online Load Duration Curve
- NPS Load Modeling Tools
- Wetlands/Stormwater/TMDL/NPS Project

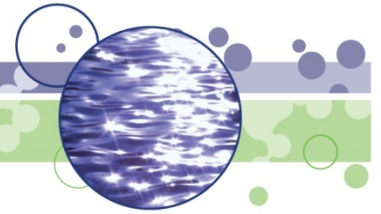




# Lessons Learned

- People are important
- Educate internally
- Build bridges
- Be willing to change
- Be willing to not change
- Results take time





# Conclusion?





**IDEM**

We Protect Hoosiers and Our Environment

**Water**



# Questions

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