



MS4 Update

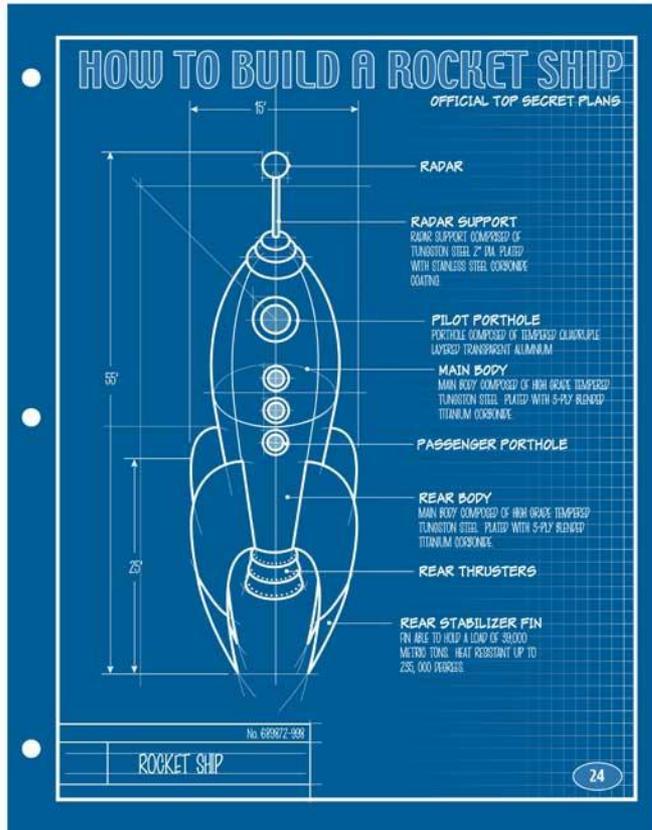
How are we doing?

Where do we go from here?

THE ANSWERS TO THESE TWO QUESTIONS AND MUCH MORE ...

Waukesha County - 2012 Storm Water MS4 Workshop

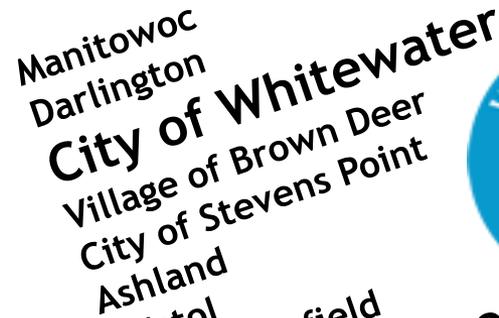
Bryan Hartsook, WDNR



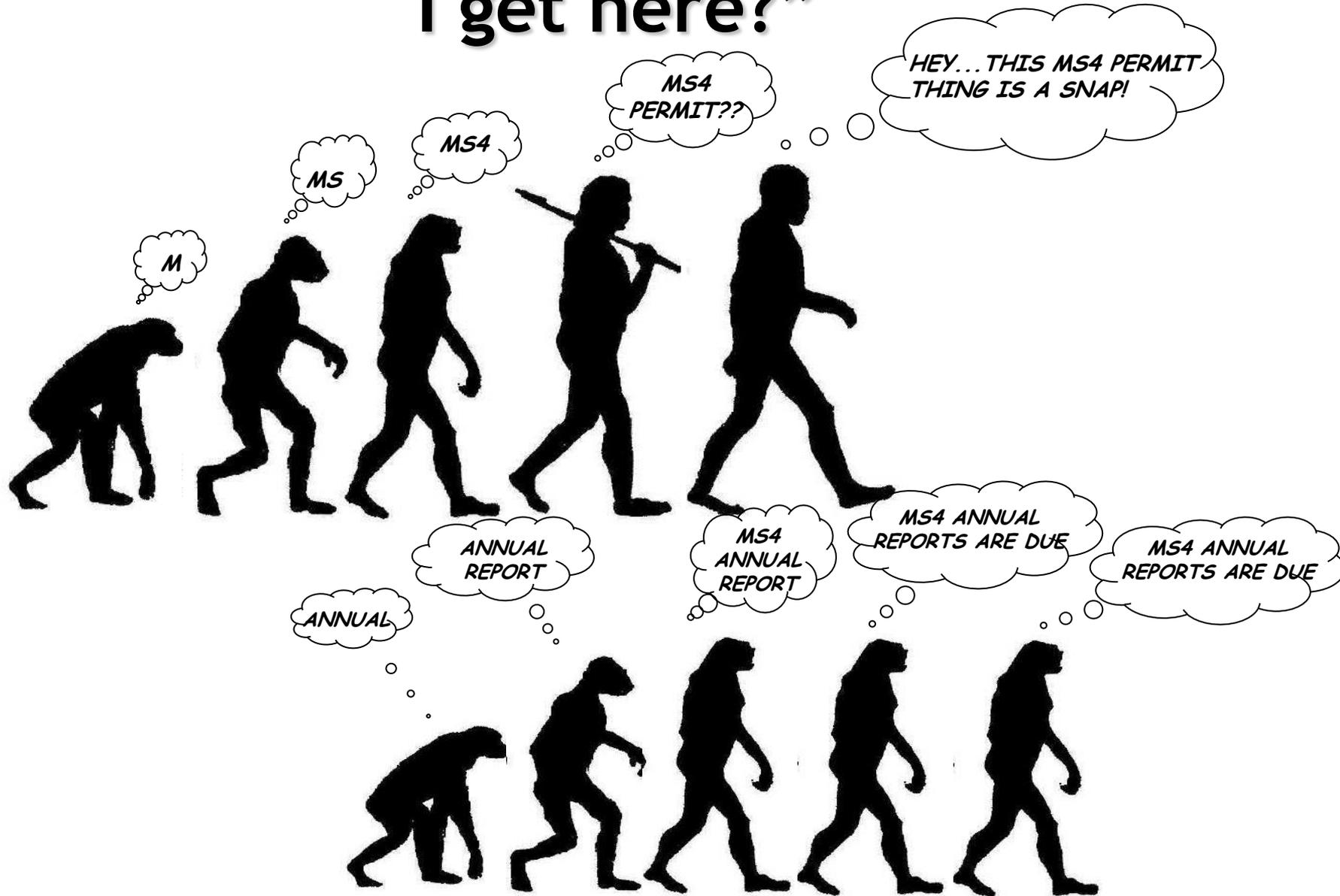
“How are we doing?”

Pretty darn not bad.

- 26 “Water Star” municipalities



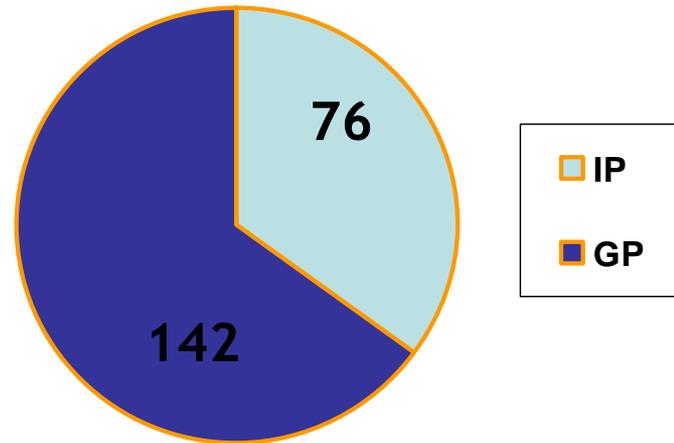
“You may ask yourself, well, how did I get here?”



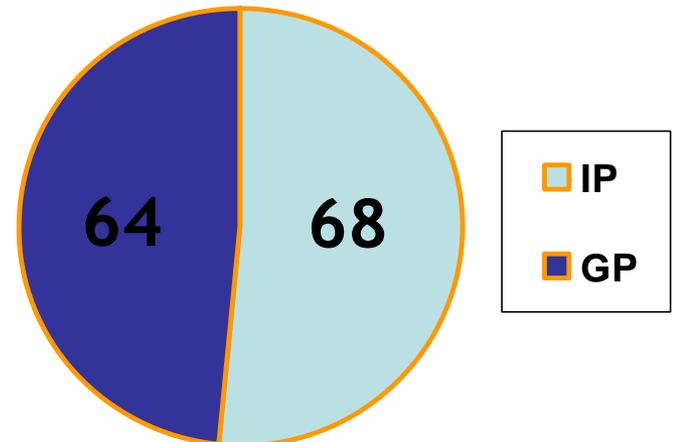
Quick Recap

- Phase I permits since 1994
- Phase II permits since 2006
- NR 216.02 Determines applicability
- Population total and density from latest decennial census are used to determine “urbanized area” boundary (NR 216.02)

STATEWIDE MS4 PERMITS



SOUTHERN WATER QUALITY DISTRICT MS4 PERMITS





Public education and outreach

Construction site pollutant control

Public involvement and participation

Post-construction storm water management

Illicit discharge detection and elimination

Pollution prevention



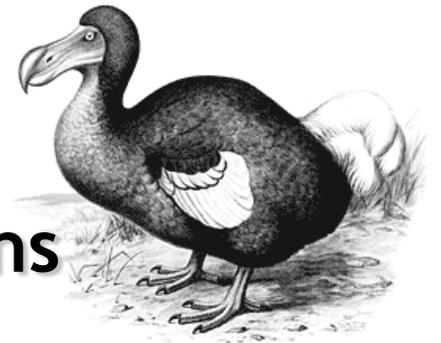
THIS *MS4* MAP IS GREAT FOR IDDE,
BUT IT IS **SERIOUSLY** LACKING IN
THE "TRANSCONTINENTAL
EXPLORATION DEPARTMENT"

HEY, YOU KNOW WHAT MY
FAVORITE THING TO DO IS? ...
**NOT CARRYING A HEAVY GUY ON
A TRANSCONTINENTAL
EXPLORATION!**

AT LEAST YOUR'S
IS **AWAKE**

NR 151 Changes (Act 32)

- **Removed requirement to achieve a 40% TSS reduction by a compliance date**
- **20% performance standard remains**
- **Must maintain existing best management practices at calculated pollutant removal efficiency - “no backsliding”**



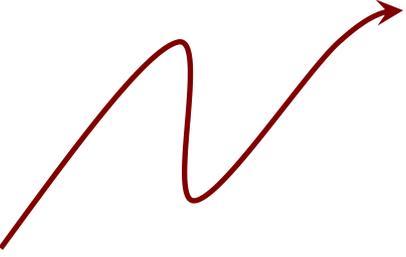
Standards Update

CONSTRUCTION

- Prescriptive standards for sites < 1 acre
 - Tracking
 - Inlet Protection
 - Dewatering
 - Stockpile stabilization (7 days)
 - Keep building materials out of waters of the state
 - Temporary stabilization (14 days)
 - Immediate final stabilization activity after finish grading
 - Install practices before construction starts
- NR 151.105(6m)(b)
 - 5 tons/ac/yr standard after January 1, 2013

POST-CONSTRUCTION

- Removed “no net increase” exemption for redevelopment sites
- Modified “minor reconstruction” definition for highway reconstruction. No longer “minor” if changing section from rural to urban



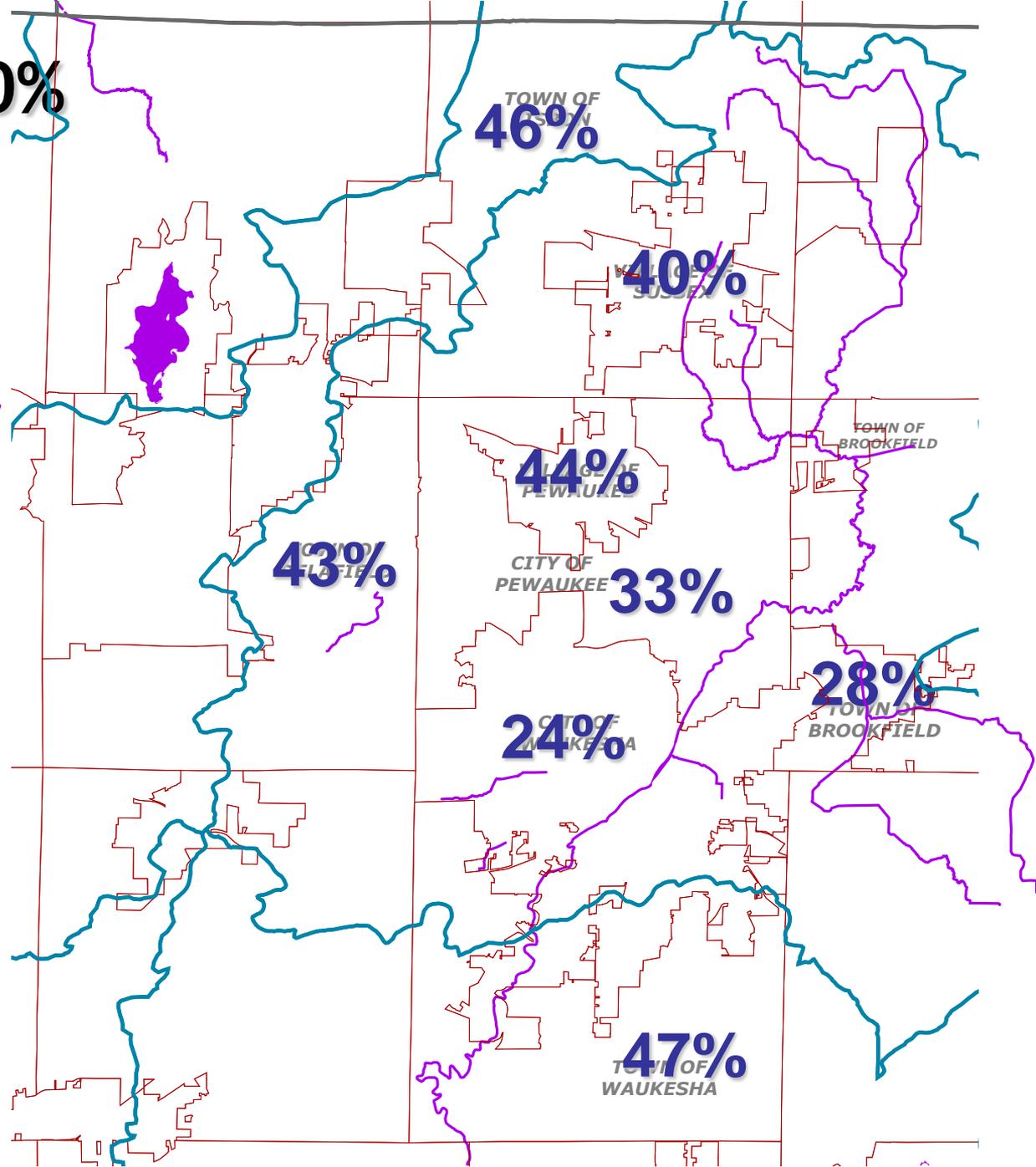
**CONTINUE TO
IMPLEMENT
TECHNICAL
STANDARDS**

The Quest for 40%

37.5%

4509 tons/yr

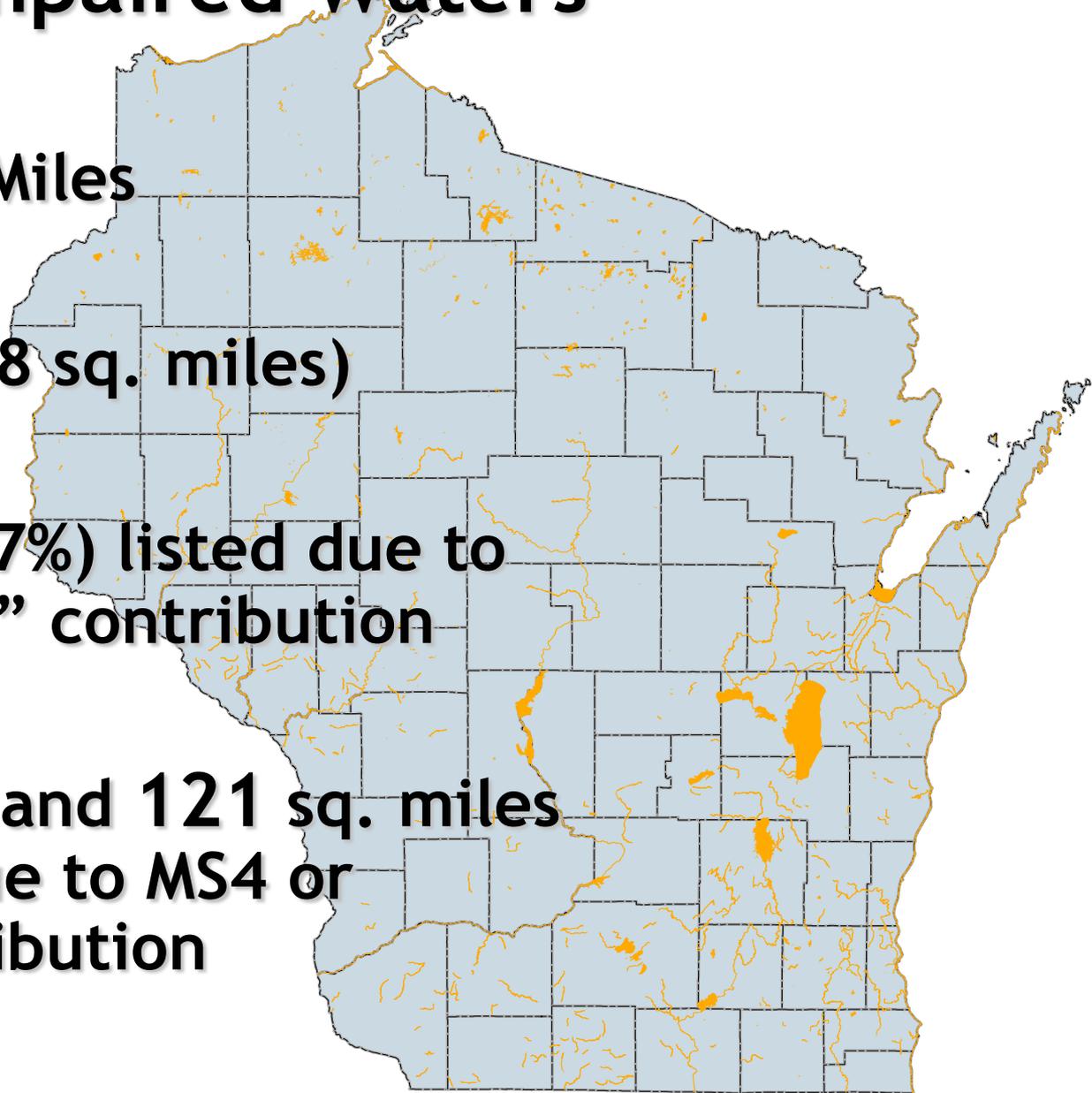
Where?



*1.5.2 If the permittee's MS4 discharges to an impaired water body, the permittee shall include a written section in its storm water management program that discusses the management practices and control measures it will implement as part of its program to reduce, with the goal of eliminating, the discharge of pollutant(s) of concern that contribute to the impairment of the water body. This section of the permittee's program shall specifically **identify control measures and practices that will collectively be used to try to eliminate the MS4's discharge of pollutant(s) of concern that contribute to the impairment of the water body** and explain why these control measures and practices were chosen as opposed to other alternatives. Pollutant(s) of concern means a pollutant that is causing impairment of a water body.*

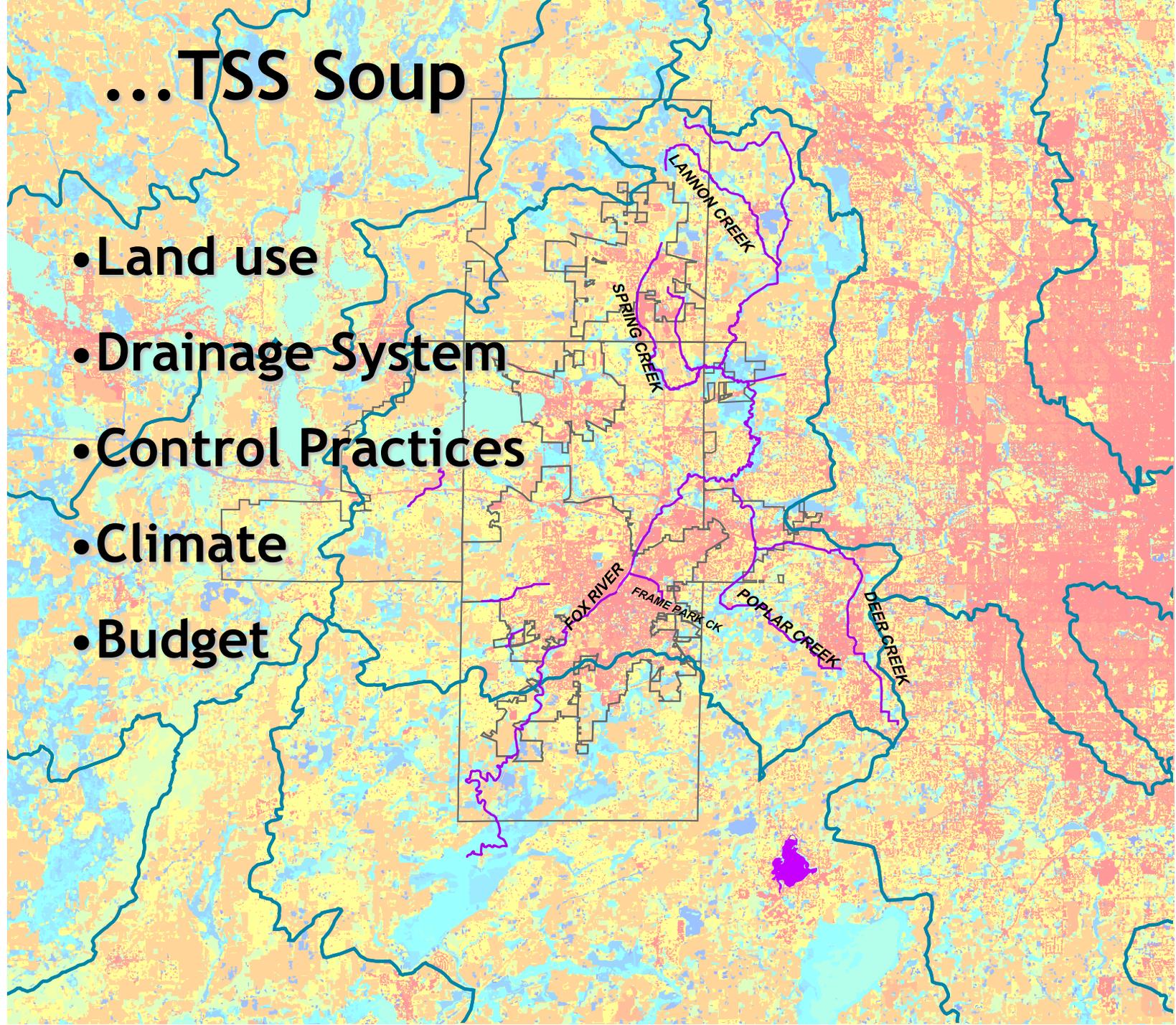
Impaired Waters

- **3372 Stream Miles**
- **296 Lakes (628 sq. miles)**
- **1568 miles (47%) listed due to MS4 or “urban” contribution**
- **27 Lakes (9%) and 121 sq. miles (19%) listed due to MS4 or “urban” contribution**

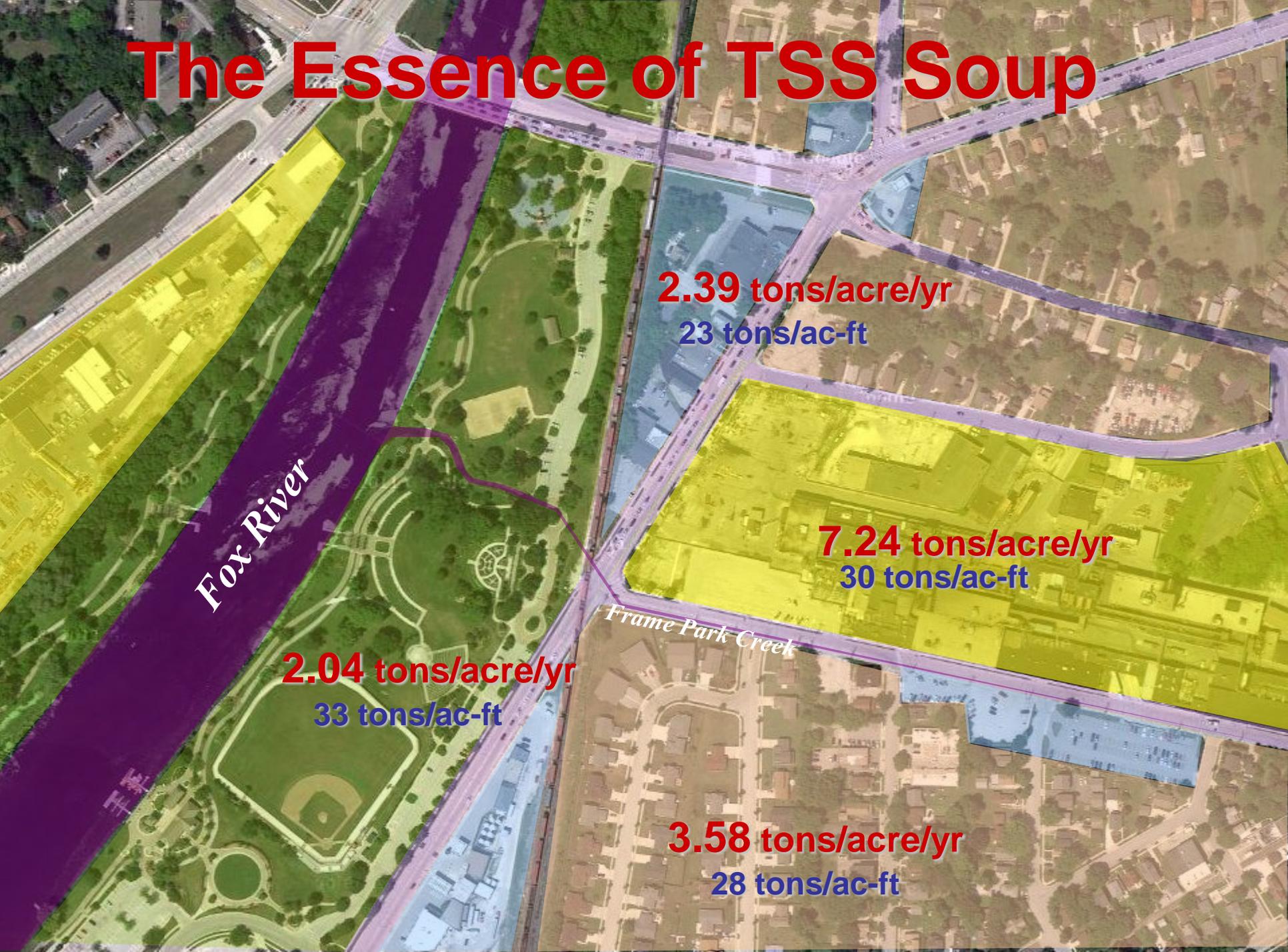


...TSS Soup

- Land use
- Drainage System
- Control Practices
- Climate
- Budget



The Essence of TSS Soup



2.39 tons/acre/yr
23 tons/ac-ft

7.24 tons/acre/yr
30 tons/ac-ft

2.04 tons/acre/yr
33 tons/ac-ft

3.58 tons/acre/yr
28 tons/ac-ft

Fox River

Frame Park Creek

So what's it going to take?

- Continued implementation of the “five other” minimum control measures
- Taking advantage of redevelopment opportunities
- Long-term planning
- Collaboration
- Determination

“the soup is good.”



Thank You!