Oklahoma's Phase 1 and 2 Stormwater Permits and Permittees

Green Country Stormwater Alliance

Employee Training Workshop

September 10, 2013

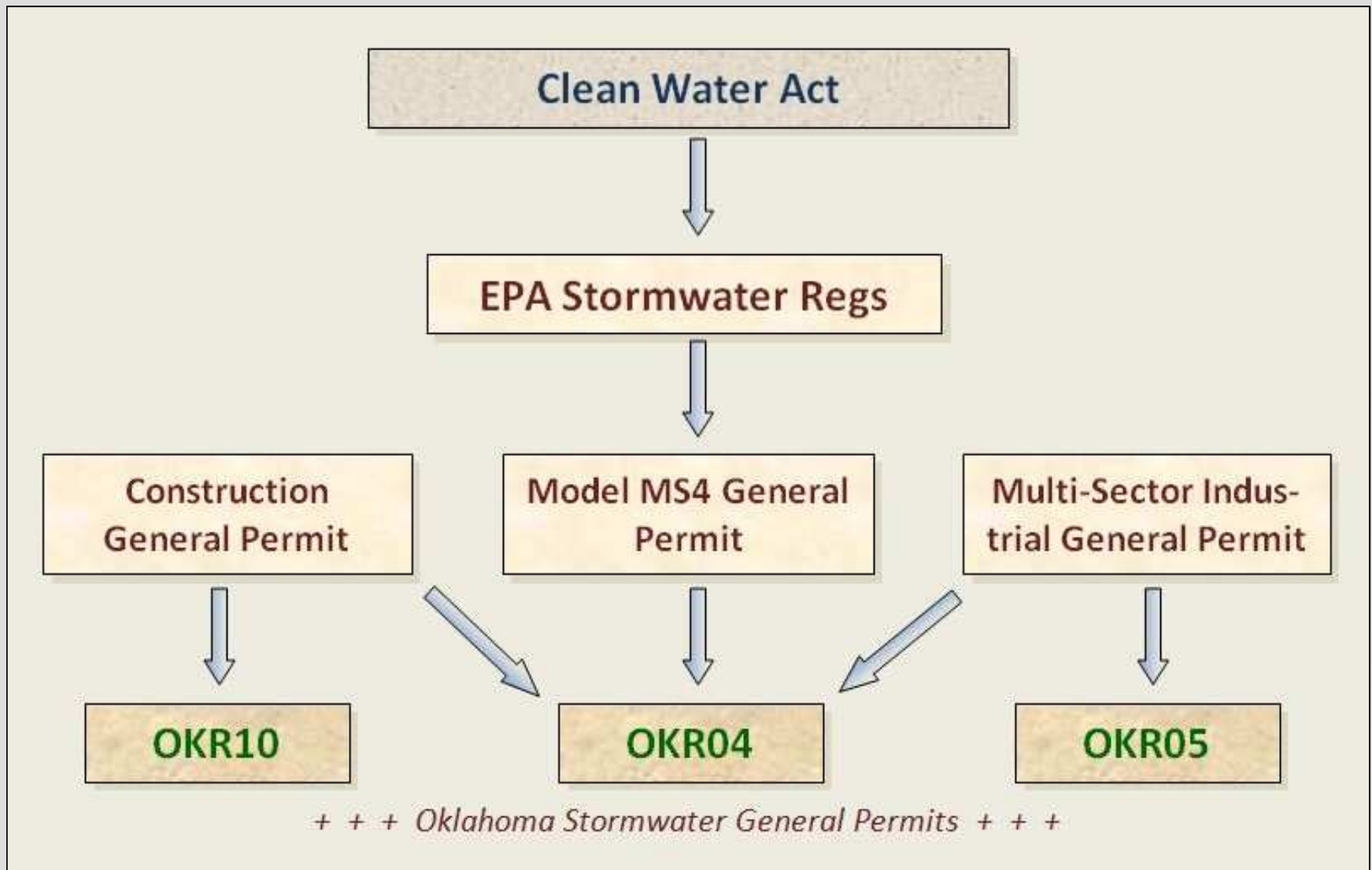Tulsa Technology Center, Broken Arrow

Why Regulate Stormwater ?

◆ NURP:

  – *1970's EPA "National Urban Runoff Program"*

  – *Massive nationwide sampling program.*

  – *Showed that most urban water pollution was from contaminated stormwater runoff.*

◆ Categories of Industries – by SIC code *.

◆ <u>NPDES</u> (national rules)   vs. <u>OPDES</u> (Oklahoma rules)

* SIC codes are now replaced by NAICS codes.

Overview of Phase I Stormwater Regs

◆ EPA Phase I rules <u>finalized</u> November 16, 1990.

◆ Covered <u>11 categories</u> of "industrial activities" by SIC, plus <u>cities</u> ≥ 100,000 (Tulsa & OKC). Included:

- *Construction (≥5 acres disturbance, now ≥1).*

- *Landfills (that received industrial wastes).*

- *Airports (with de-icing and maintenance).*

- *POTWs (≥1 MGD).*

◆ <u>EPA granted ODEQ authority</u> November 19, 1996.
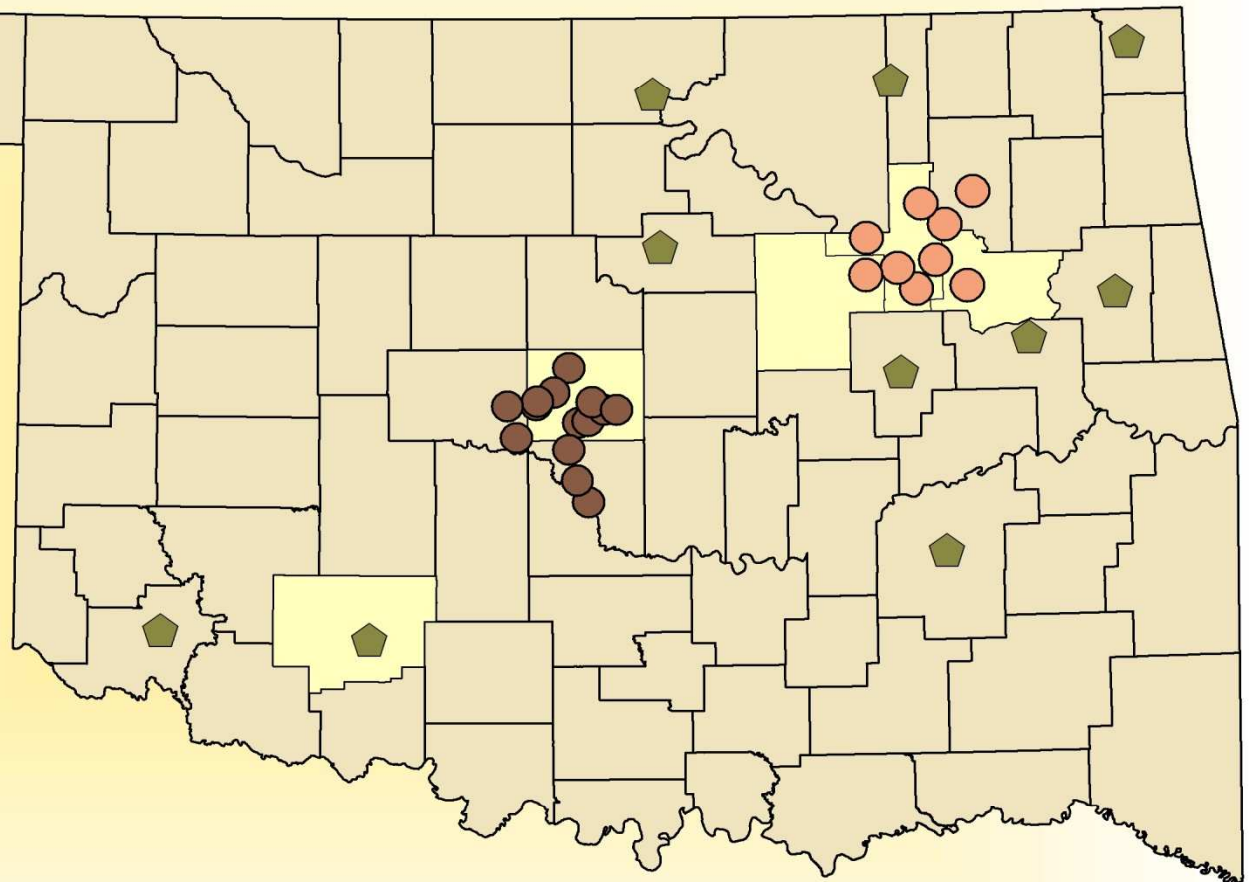
Oklahoma's Three General Permits

Clean Water Act → EPA Stormwater Regs → Construction General Permit (OKR10), Model MS4 General Permit (OKR04), Multi-Sector Industrial General Permit (OKR05)

+ + + Oklahoma Stormwater General Permits + + +

Overview of Phase I Stormwater Regs

◆ Became "<u>Multi-Sector General Permit</u>" (MSGP)

– *OKR05 for "Industrial Activities".*

– *"Construction Activities" spun off as OKR10.*

– *Individual Permits for Tulsa and OKC.*

◆ <u>Renewed</u> (and modified) every 5 years.

◆ Latest <u>OKR05 effective date</u>: September 5, 2011.

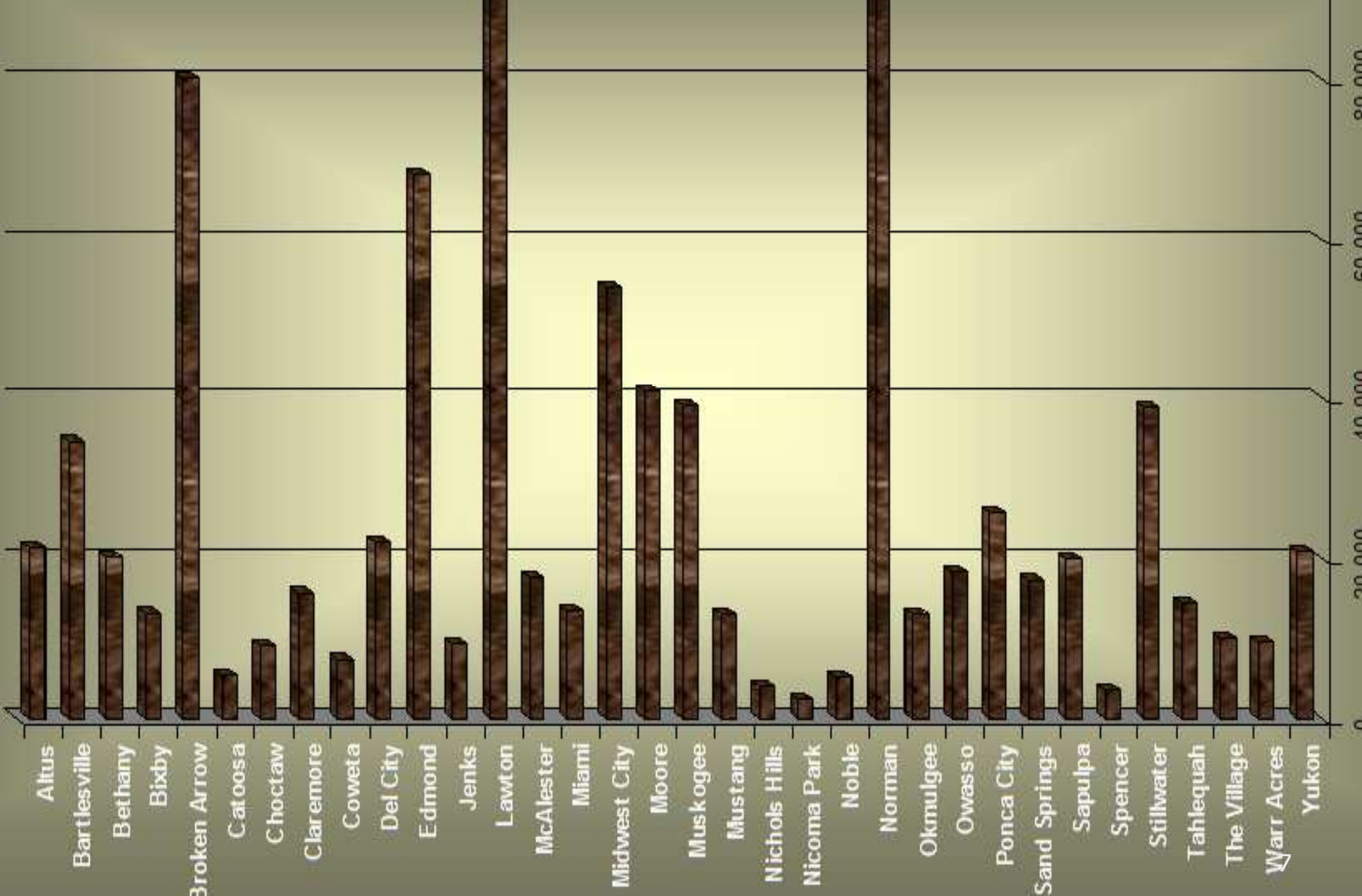◆ OKR05 covers <u>29 "sectors"</u>.

2003 Phase II Cities and Counties

34 cities
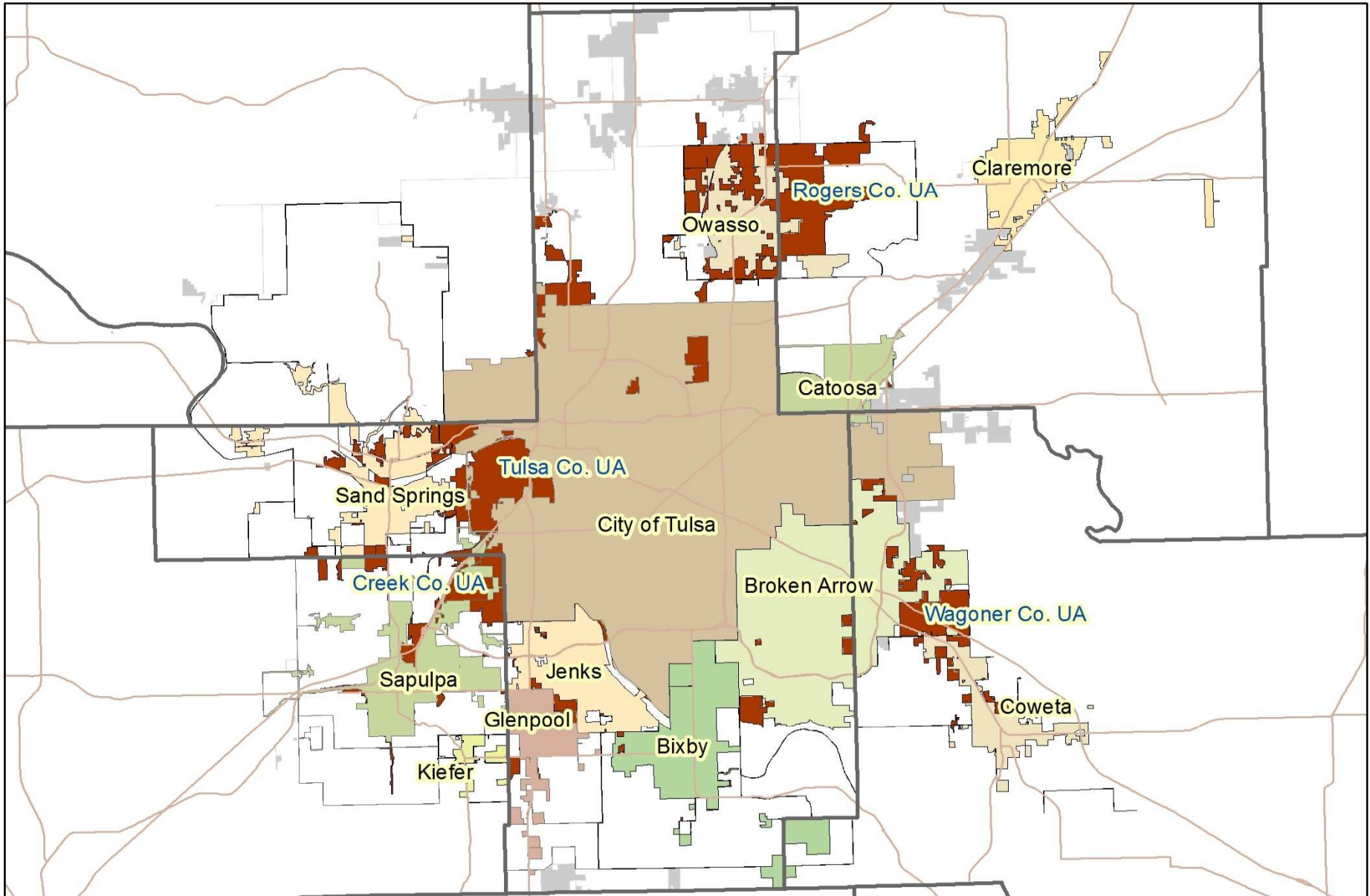5 counties
ODOT
OTA
OU
Tinker AFB
Fort Sill AB

5-Year waivers were granted to several; reassess in 2013

Prepared by INCOG
June 2013

Miles
0   20   40   80

2000 Census Population of Phase II Cities in Oklahoma

Stormwater Permitted Cities and County Urbanized Areas in Tulsa Area 2013 & 2014

Claremore

Rogers Co. UA

Owasso

Catoosa

Tulsa Co. UA

Sand Springs

City of Tulsa

Creek Co. UA

Broken Arrow

Wagoner Co. UA

Sapulpa

Jenks

Coweta

Glenpool

Bixby

Kiefer

7   3.5   0   7 Miles

N

Green Country Stormwater Alliance Members 2013-14

Ponca City

Bartlesville

Miami

Tulsa Area Members

Tahlequah

Edmond

Muskogee

Okmulgee

Tulsa Area Members:
 Bixby
 Catoosa
 Broken Arrow
 Claremore
 Coweta
 Jenks
 Owasso
 Sand Springs
 Sapulpa
 Creek County
 Tulsa County
 Wagoner County

Potential New Permittees:
 Kiefer
 Glenpool
 Rogers County
 Collinsville

Map prepared by INCOG
May 2013

0 5 10 20 30 40
Miles

INCOG Basic Stormwater Assistance

Goal – combine resources to address those Phase II activities that are suited to a regional approach.

- *Provide Public Education and Participation Materials and Activities*

- *Assist with Mapping and Data Management*

- *Assist with Developing MS4 Inspection Programs*

- *Assist with Data Sharing and Coordination*

- *Assist with Annual Reports and SWMP Amendments*

- *Provide Employee Training Programs*

Provide a **Forum** for continuing Phase II education and information sharing.

INCOG Increased Assistance

With OKR04 being finalized by the end of this Fiscal Year, INCOG will perform additional services to GCSA on OKR04 finalization and renewing coverage.

1. Review drafts of OKR04 and work with ODEQ on final version.

2. Email and host GCSA meetings on OKR04, comment on draft.

3. Prepare GCSA Fact Sheets and updates on changes to OKR04.

4. Host GCSA employee training on the new OKR04.

5. Speak at conferences and workshops on the new OKR04.

6. List new requirements for GCSA NOI applications.

INCOG Increased Assistance (cont.)

7. Help GCSA members with their <u>applications and attachments</u>.

8. Help GCSA with preparing their <u>final Annual Reports</u>.

9. Review the new OKR04 for future <u>Annual Report requirements</u>.

10. Prepare a draft <u>template of an Annual Report</u> for GCSA.

11. Review the new OKR04 for <u>updating SWMP documents</u>.

12. Prepare a draft <u>template of an SWMP</u> document for GCSA.

13. Assist GCSA members with <u>preparing their SWMP document</u>.

Future Stormwater Rules and Permits

1. ***EPA Rulemaking****: draft in 2013? / final in 2014?*

    a) *Will address NRC criticisms and EPA's new strategy.*

    b) *Will focus on LID and flow attenuation.*

2. ***General Permits****:*

    a) *OKR05 (industrial activities) finalized 9/5/11.*

    b) *OKR10 (construction activities) finalized 9/13/12.*

    c) *OKR04 (Phase II MS4s) finalized in early 2014?*

EPA's Concerns

From construction sites (private and municipal)

Sediment

Fertilizers

Chemicals (e.g. solvents, paint)

Herbicides / Pesticides

Oil / gasoline

Trash and debris ("floatables")

Pollution Prevention and Good Housekeeping

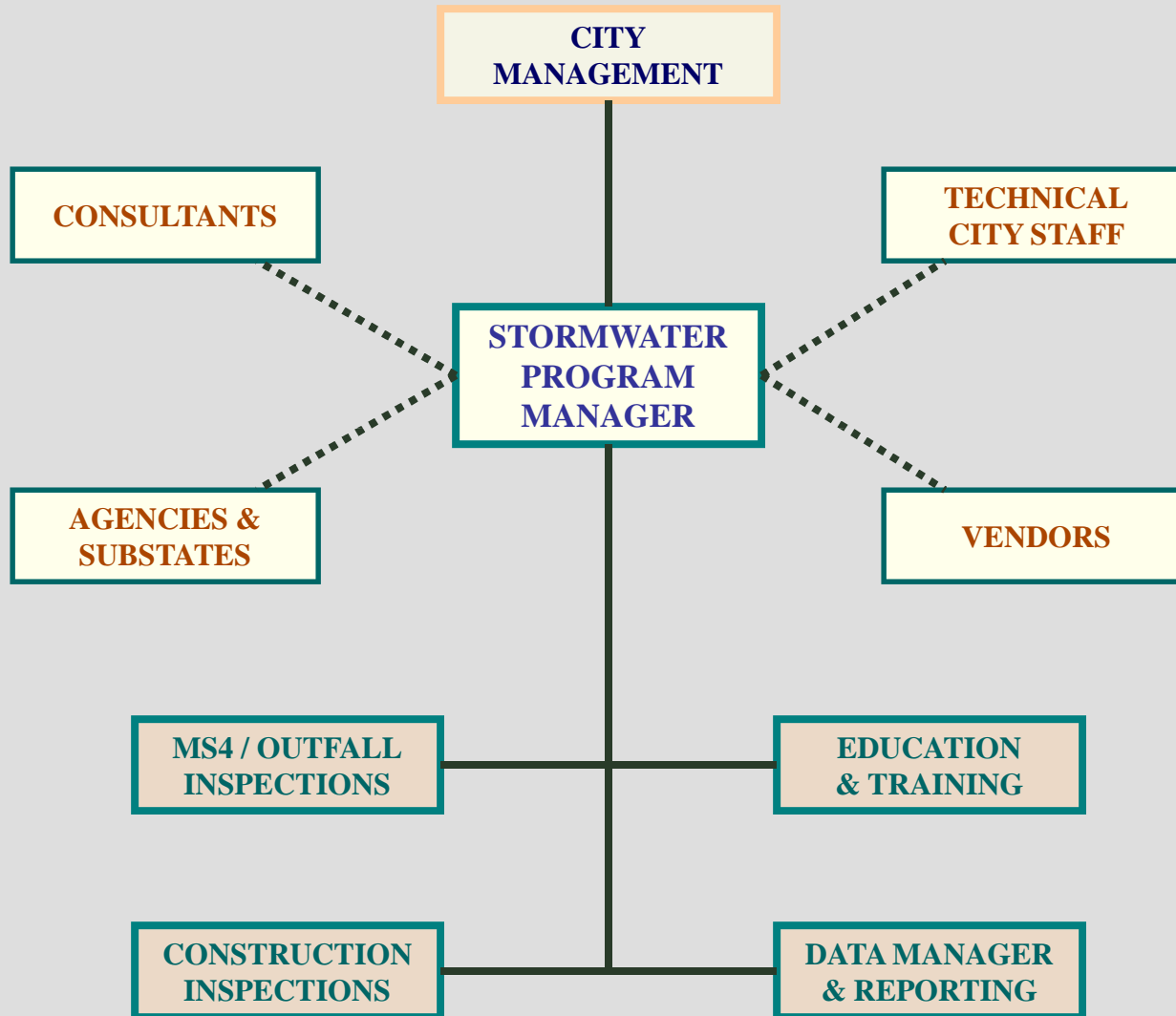*"...for Municipal operations..."*

City O&M

MS4 Maintenance

Employee training
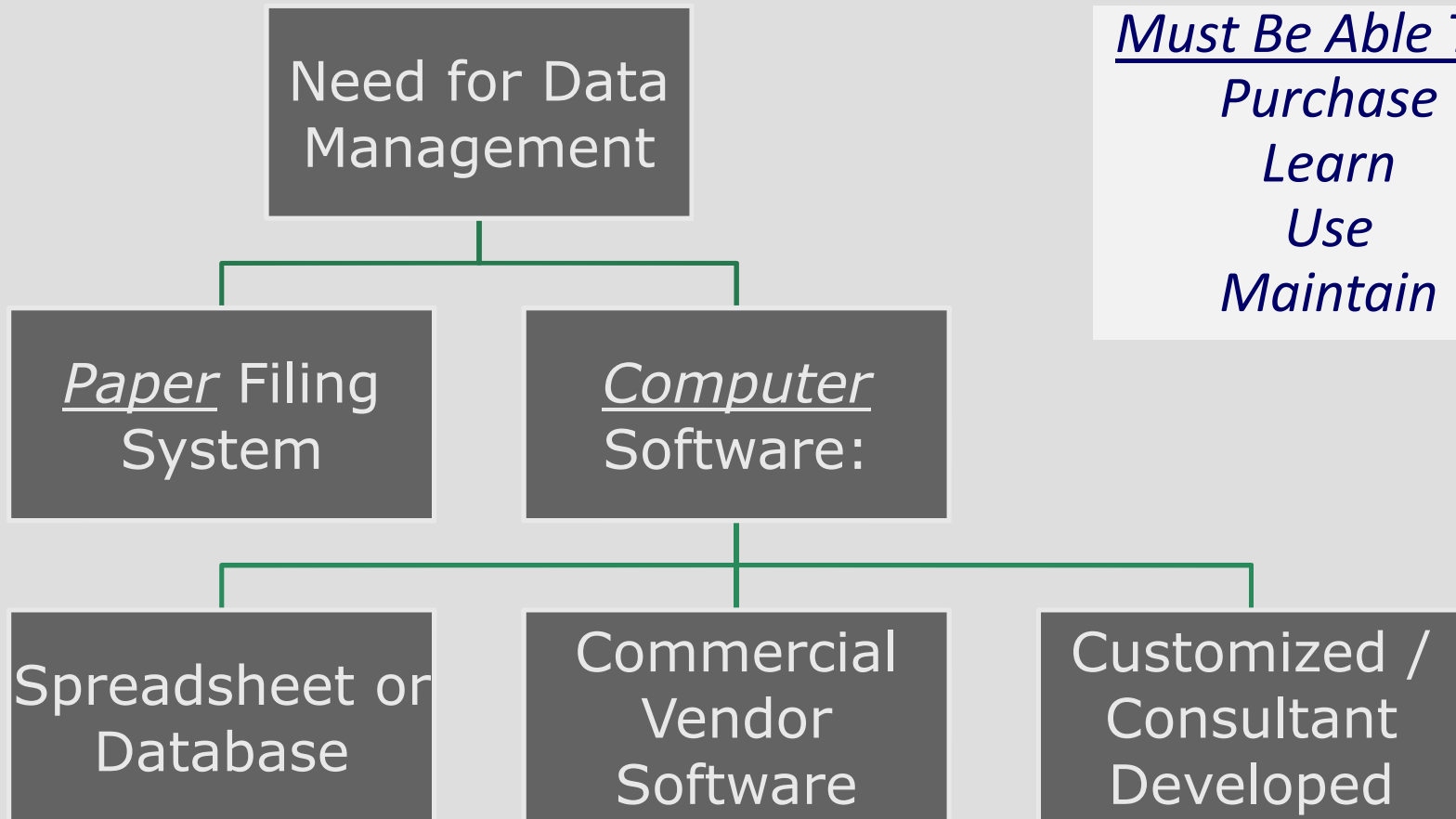
Program Management Structure

Most Phase IIs Need Help With...

- *Map data. . . . . GIS, GPS, AutoCAD, paper.*

- *QA methods . . . . What's required, most efficient.*

- *Electronic data sets. . . . . .   Tier II, RCRA, TRI, etc.*

- *Field test kits. . . . .   D.O. pH, Cond., etc.*

- *Other field gear . . . .   Samplers, bottles, etc.*

- *Data Management:*

  - *Software for supervision, records, reports*

  - *Forms for inspections, contact records. etc.*

  - *Data and monitoring Quality Assurance (QA)*

  - *Sampling and Lab services*

Data Management Options

Need for Data Management

Paper Filing System

Computer Software:

Spreadsheet or Database

Commercial Vendor Software

Customized / Consultant Developed

Must Be Able To:
Purchase
Learn
Use
Maintain

18

Six "Minimum Control Measures"

1.   Public Education and Outreach

2.   Public Participation and Involvement

3.   Illicit Discharge Detection and Elimination

4.   Construction Site Runoff Control

5.   Post-Construction Runoff Control

6.   Pollution Prevention and Good Housekeeping