• National Pollutant Discharge Elimination System (NPDES) Permit
• Municipal Separate Storm Sewer System (MS4)
• Storm Water Management Program (SWMP)
• Six Minimum Control Measures (MCMs)

MS4 Program Key Terms
Universe of MS4s in NE Ohio

- Program must be implemented only to the extent of the Urbanized Area (UA)
  - UA is defined by US Census Bureau
  - Maps located at https://www.census.gov/geo/maps-data/maps/2010ua.html
- In Ohio, 544 total “communities” affected
  - Includes cities, villages, townships, counties and non-traditional MS4 operators (such as ODOT and Kent State University)
Regulated MS4s in Lorain County

Lorain County Storm Water Management District
- Amherst Twp
- Carlisle Twp
- Columbia Twp
- Eaton Twp
- Elyria Twp
- Grafton Twp
- Lorain County
- Sheffield Twp

Lorain County Metroparks
- City of Amherst
- City of Avon
- City of Avon Lake
- City of Elyria
- City of Lorain
- City of N. Ridgeville
- City of Oberlin
- City of Sheffield Lake
- Sheffield Village
- Village of Grafton
- Village of Amherst

2010 Urbanized Area Maps for Lorain County
• Education
  • 5 messages/themes over 5 years
  • Use more than one mechanism to deliver message
  • Reach 50% of the population in your UA

• Involvement
  • 5 activities over 5 years

MCM 1 & 2: Public Education & Involvement
• Maintain map of MS4

• Establish schedule for ongoing system surveillance for the presence of illicit discharge sources

• Take action to eliminate verified illicit discharges

**MCM 3: Illicit Discharge Program**
• Plan Review
  • For all new development and redevelopment ≥ 1 acre

• Site Inspection
  • Construction: All active sites ≥ once per month
  • Post-Construction: Verify as-built and program to ensure long-term maintenance

• Enforcement

MCM 4 & 5: Construction & Post-Construction
• Storm Water Pollution Prevention Plan (SWP3)
  • For certain municipal facilities
• Program to ensure maintenance of MS4
  • Including proper disposal of wastes removed
• Employee Training
  • Once per year, every year

MCM 6: Pollution Prevention for Muni Ops
- 1417 utilities in US
- 39 states & DC
- 100 in Ohio
- Average monthly fee
  - $4.57 for residential
  - Standard deviation $7.44
- For systems utilizing ERUs, average is
  - 1 ERU = 3050 sq ft impervious surface

Storm Water Utilities
Websites

US EPA  www.epa.gov/npdes/stormwater

Ohio EPA  www.epa.ohio.gov/dsw/storm/index.aspx or www.epa.ohio.gov/ocapp/storm_water.aspx

NEOSWTC  www.neohiostormwater.com

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For More Information