

# Making a Splash with MS4 Compliance: Navigating the Waters of Environmental Responsibility!

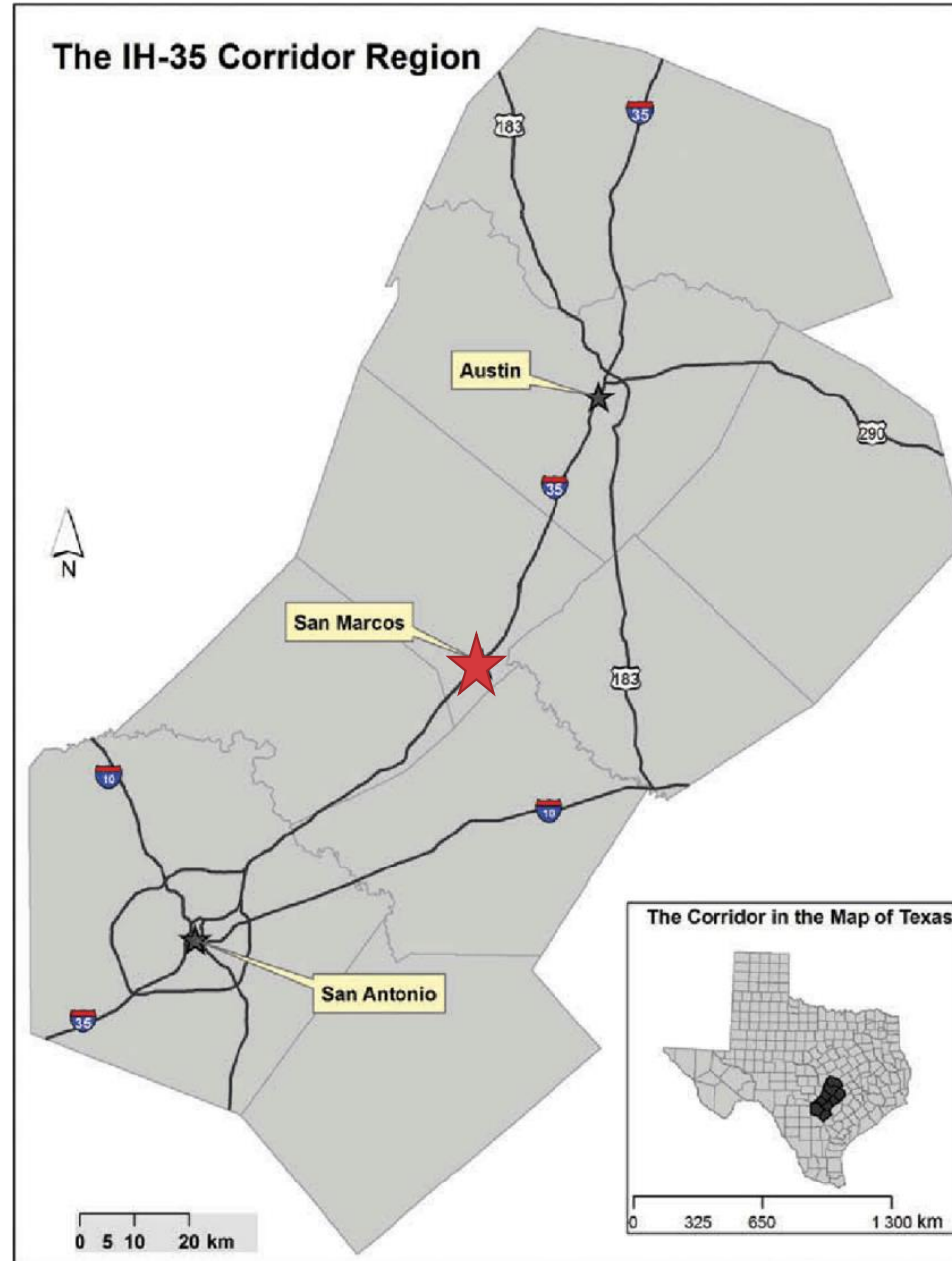
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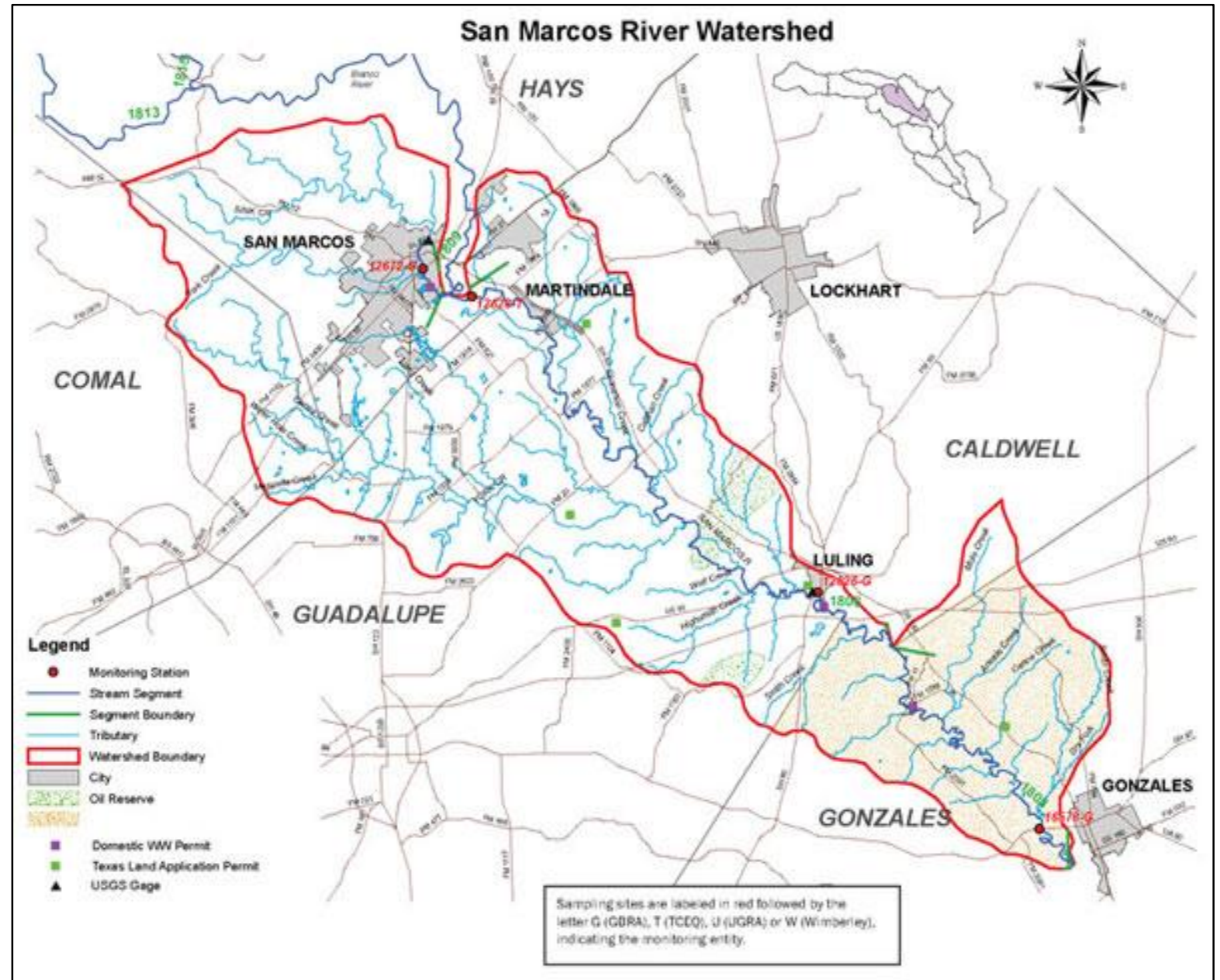
# San Marcos, TX

- Between Austin and San Antonio
- Population ~68,000
- Texas State University
- San Marcos and Blanco rivers





- Located within the Guadalupe-Blanco Watershed
- Edwards Aquifer
- Receiving water segments: 1814 (Upper SMR), 1809 (Lower Blanco River), 1808 (Lower SMR)
  - 1814 taken off 303(d) list in 2014





# Phase II Level 3 MS4 TXRo40485

**MCM 1:** Public Education, Outreach & Involvement

**MCM 2:** Illicit Discharge Detection & Elimination

**MCM 3:** Construction Site Stormwater Runoff  
Control

**MCM 4:** Post Construction Management in New  
Development and Redevelopment

**MCM 5:** Pollution Prevention & Good Housekeeping  
for Municipal Operations



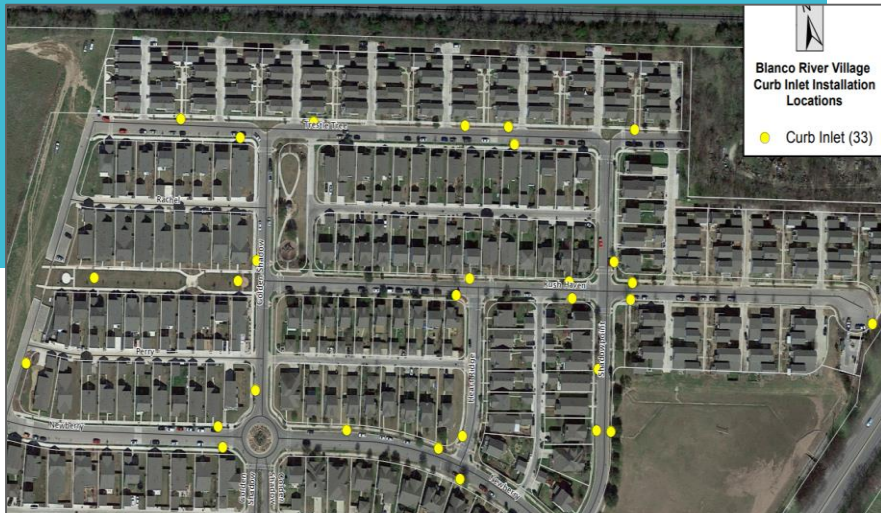




# MCM 1: Public Education, Outreach & Involvement



WHAT GOES HERE FLOWS HERE.



38<sup>th</sup> Annual Great Texas River Clean up:  
725 volunteers  
21,285 lbs trash  
2,156 lbs recycled  
36 tires



# MCM 2: Illicit Discharge Detection & Elimination

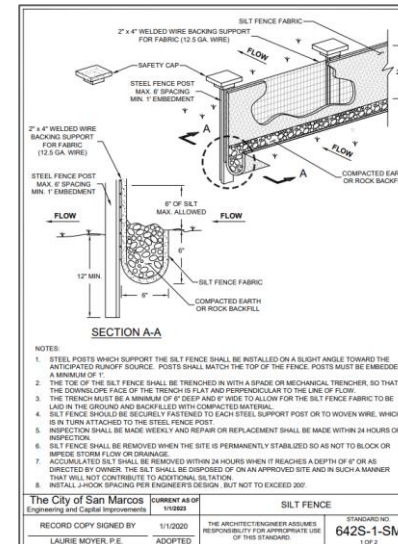
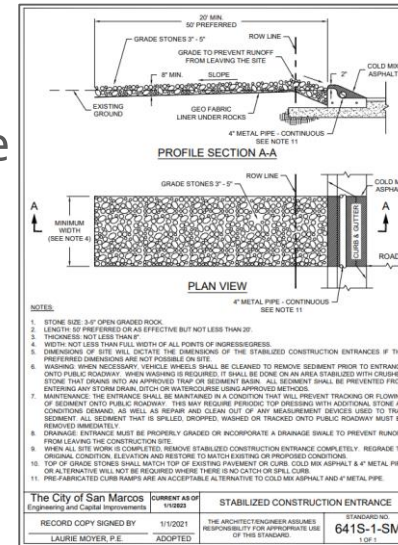
- IDDE ordinance
  - One of the strongest enforcement ordinances in the city
  - Training program
    - Required for all new employees
- Fats, Oils and Grease (FOG) program
- Household Hazardous Waste
- Sanitary sewer preventative maintenance
  - Edwards Aquifer Recharge Zone
  - Inspect/maintain 10% of lines each year





# MCM<sub>3</sub>: Construction Site Stormwater Runoff Control

- Stormwater discharges from construction activities ordinance
- Pre-construction meetings
  - Ensure BMPs are in place
- SWP<sub>3</sub> inspections by city staff
  - Compliant based for single family active construction
- Plan/permit reviews
  - Erosion & sediment control (ESC) plans
  - Stormwater infrastructure
- Standard detail review/updates
  - Temporary BMPs
  - Stormwater infrastructure





# MCM 4: Post Construction Management in New Development & Redevelopment





# Structural Control Inspection Program

**Why-**  
Flood control & water quality

**Who-**  
Commercial, residential, HOA's and City of San Marcos

**What-**  
New and existing controls

**Where-**  
City owned:86 Private:357 Other:20

**When-**  
Every 3 years







**Structural Control  
Inspection Form Cover Sheet**

Instructions: Include 1 cover sheet per address and attach inspection forms for each structural control inspected.

Inspection Date: \_\_\_\_\_ Inspection Time: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Site Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Owner Name: \_\_\_\_\_ Owner Phone Number: \_\_\_\_\_  
Owner Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Designer Name: \_\_\_\_\_ Designer Company: \_\_\_\_\_  
Are maintenance records being kept?:  
Y  N  N/A  Reason if N or N/A: \_\_\_\_\_  
Date of previous inspection: \_\_\_\_\_  
Was previous inspection reviewed prior to conducting this inspection?: Y  N  N/A   
Are there any outstanding corrective actions?: Y  N  N/A   
If yes, explain: \_\_\_\_\_  
Site Contact Name: \_\_\_\_\_ Site Contact Phone Number: \_\_\_\_\_  
Site Contact Email: \_\_\_\_\_  
Inspector: \_\_\_\_\_ Inspector Phone Number: \_\_\_\_\_  
Inspector Email: \_\_\_\_\_  
Inspector Company/Firm: \_\_\_\_\_

**Inspection Forms Included In Packet**

Mark All That Apply

Dry Detention Basin <input type="checkbox"/>	Hydrodynamic Separator <input type="checkbox"/>	Underground Detention <input type="checkbox"/>
Bioretention System <input type="checkbox"/>	Permeable Pavers/Pavement <input type="checkbox"/>	Vegetated Swale <input type="checkbox"/>
Sand Filter <input type="checkbox"/>	Wet Basin <input type="checkbox"/>	Constructed Wetland <input type="checkbox"/>
Other <input type="checkbox"/>		

1. Notify property/structural control owner
2. Inspected by Professional Engineer
3. Submits report to Stormwater Department
4. Results
  - Pass/fail
5. Owner responsible to maintain structural control
  1. If inspection fails- owner will correct
  2. City over sees that correction have been made
  3. Re-inspection by PE will be performed



# MCM 5: Pollution Prevention & Good Housekeeping for Municipal Operations

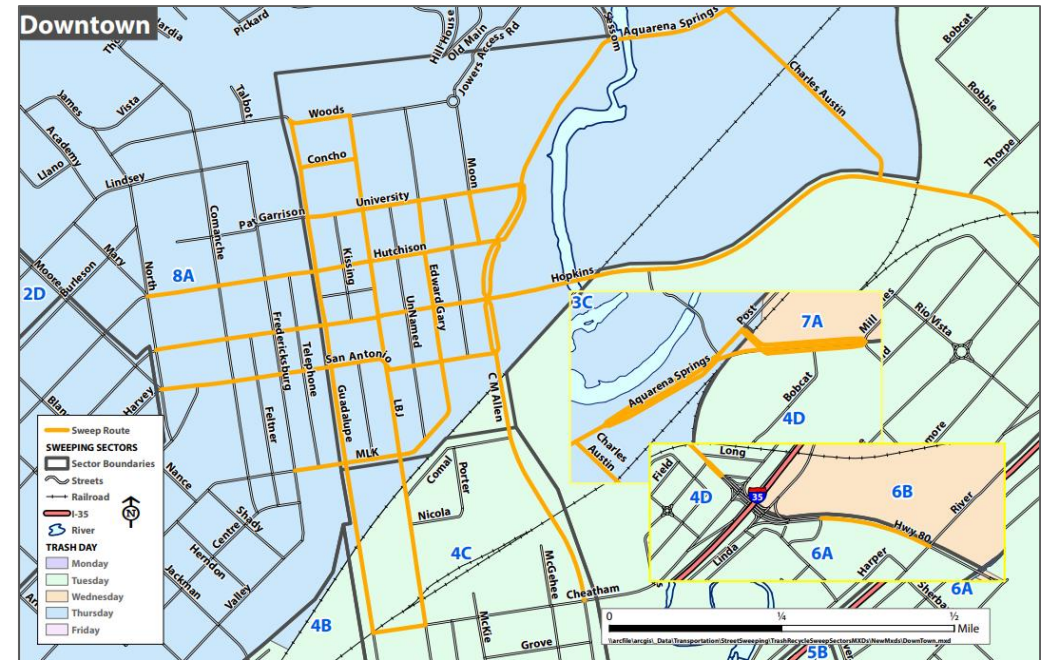
- Training program
  - Required for all new employees
- Facility assessments
  - Low, medium, high priority for stormwater pollution
- Standard Operating Procedures (SOPs)
  - Equipment fueling
  - Chemical management
  - Dumpster management
  - Clutter minimization





# MCM 5: Pollution Prevention & Good Housekeeping for Municipal Operations

- Street sweeping
  - 450 miles of road
  - Removed 738.7 tons of debris
- Inlet inspections
  - 1,216 linear feet
- Channel cleaning
  - 43,638 linear feet
- Storm pipe cleaning
  - 14,861 linear feet





# Questions?

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