



North Texas Municipal Water District

*“Regional Service Through Unity ...
Meeting our Region’s Needs Today and Tomorrow”*

**Plano City Council Meeting
March 14, 2016**



Reliability of our region's wastewater systems is critical to:

- Safeguard public health
- Protect our drinking water supplies
- Sustain our thriving economy
- Support outdoor recreation
- Protect the environment





Many parts of the country, including our region, experience sanitary sewer overflows

- Common Causes
 - Aging pipes
 - Illegal storm & roof drain connections
 - Grease clogs
 - Roots
 - Debris
 - Pipe collapse
 - Poor construction





CMOM Is Used To Address These Causes



Examples

- Capacity
 - Monitoring
 - Modeling
- Management
 - Training
 - Fats, Oils, & Grease Plan
- Operations
 - Flow metering
 - Overflow emergency response
- Maintenance
 - Maintenance management system
 - Condition assessment
 - Sewer cleaning



EPA National Enforcement Initiative: Wastewater Systems Overflows



EPA Inspected NTMWD's and Member Cities' Wastewater Systems in 2014/2015

NTMWD Regional WW Members		NTMWD Regional WW Customers	NTMWD Sewer System Participants
Allen	Current EPA Focus	Anna	Farmersville
Forney		Fairview	Fate
Frisco		Lucas	Frisco
Heath		Melissa	Lavon
McKinney		Parker	Murphy
Mesquite			Rockwall
Plano			Royse City
Princeton			Seis Lagos UD
Prosper			Wylie
Richardson			
Rockwall			
Seagoville			



Potential EPA Compliance Approaches

Letter

- Self guided implementation of corrective measures
- Continued participation in regional approach
- Comprehensive CMOM implementation expected

Administrative
Order

- Enforcement administered by EPA Region 6
- Short document, tailored to specific situation
- Individual agreements
- CMOM program req, in collaboration with Region

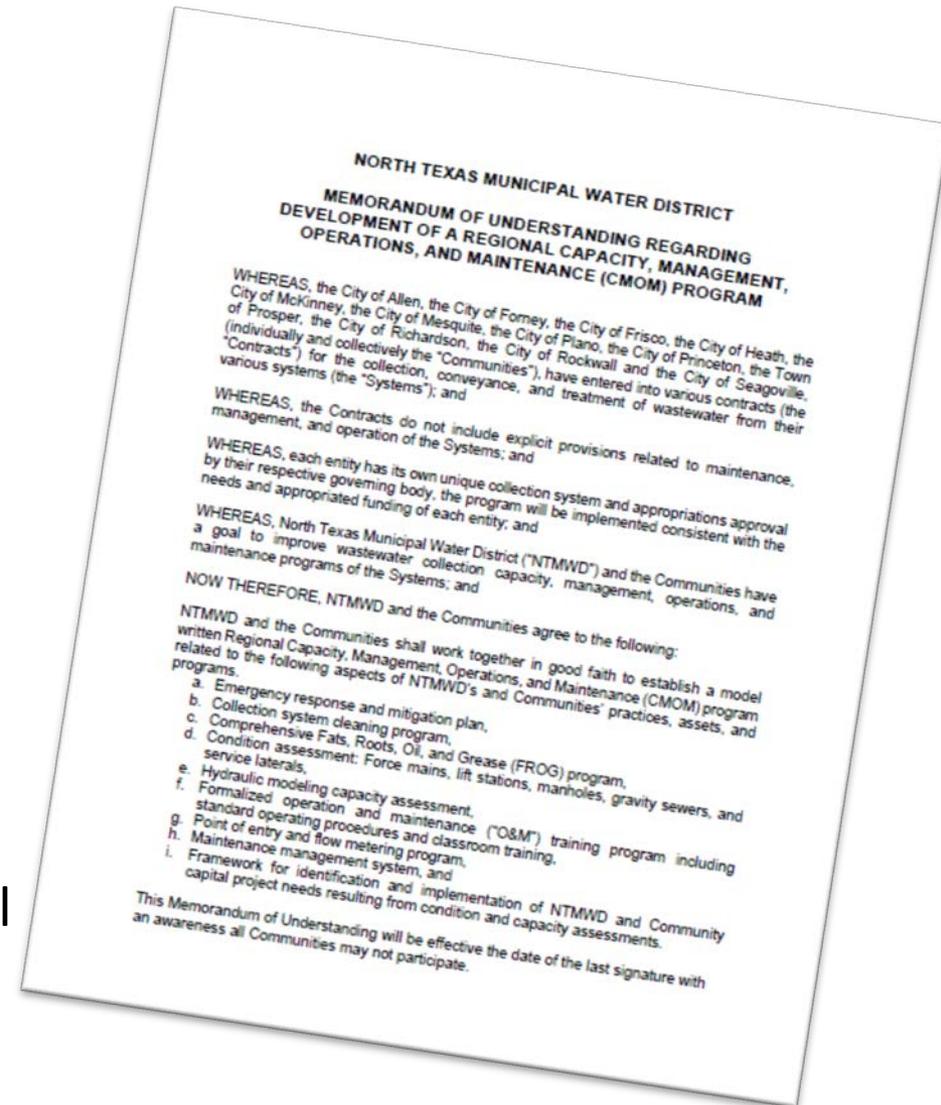
Consent
Decree

- Enforcement negotiated with EPA and DOJ in DC
- Long, detailed, starts with DOJ requirements list
- Typically **more expensive** to implement (**2 – 20x**), little flexibility



Regional Collaboration Avoided Consent Decrees

- MOU executed by all **demonstrated commitment** of parties (cities & NTMWD) to each other and EPA
- Work together to develop a **model Regional CMOM program**
- Focuses on regional wastewater system members
- Provides a forum to work regionally to establish desired outcomes of enforcement action
- Model program establishes consistency with understanding all parties' unique implementation

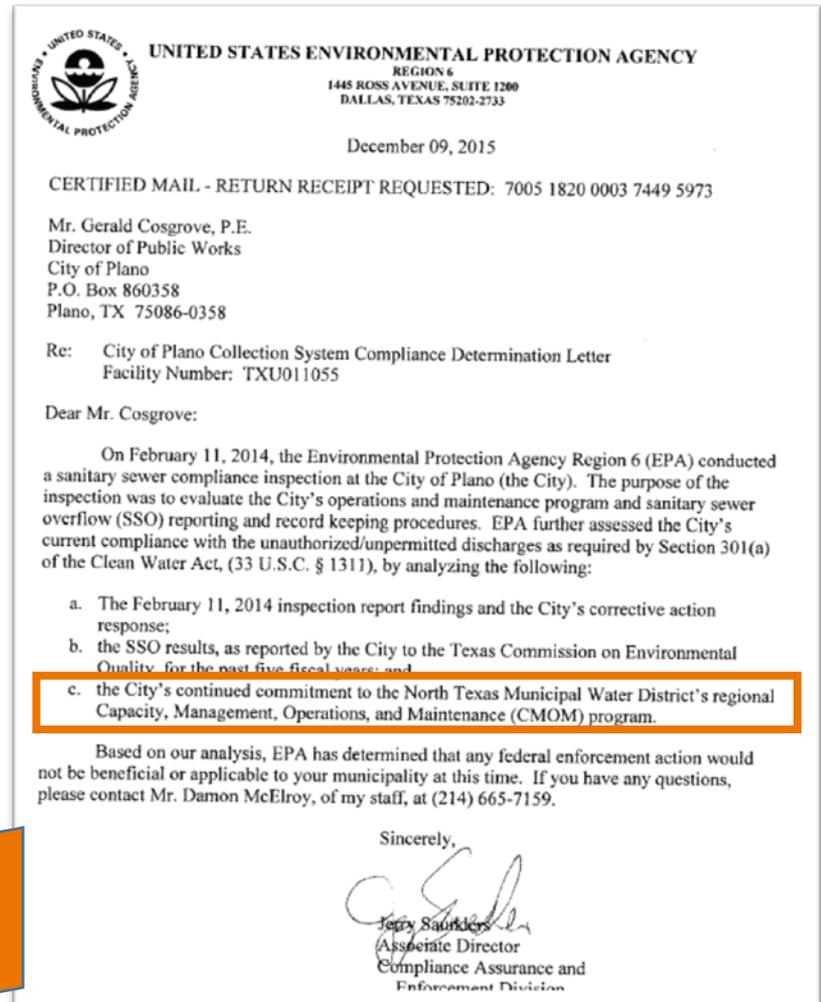




“Continued Commitment” to Regional CMOM Program Necessary

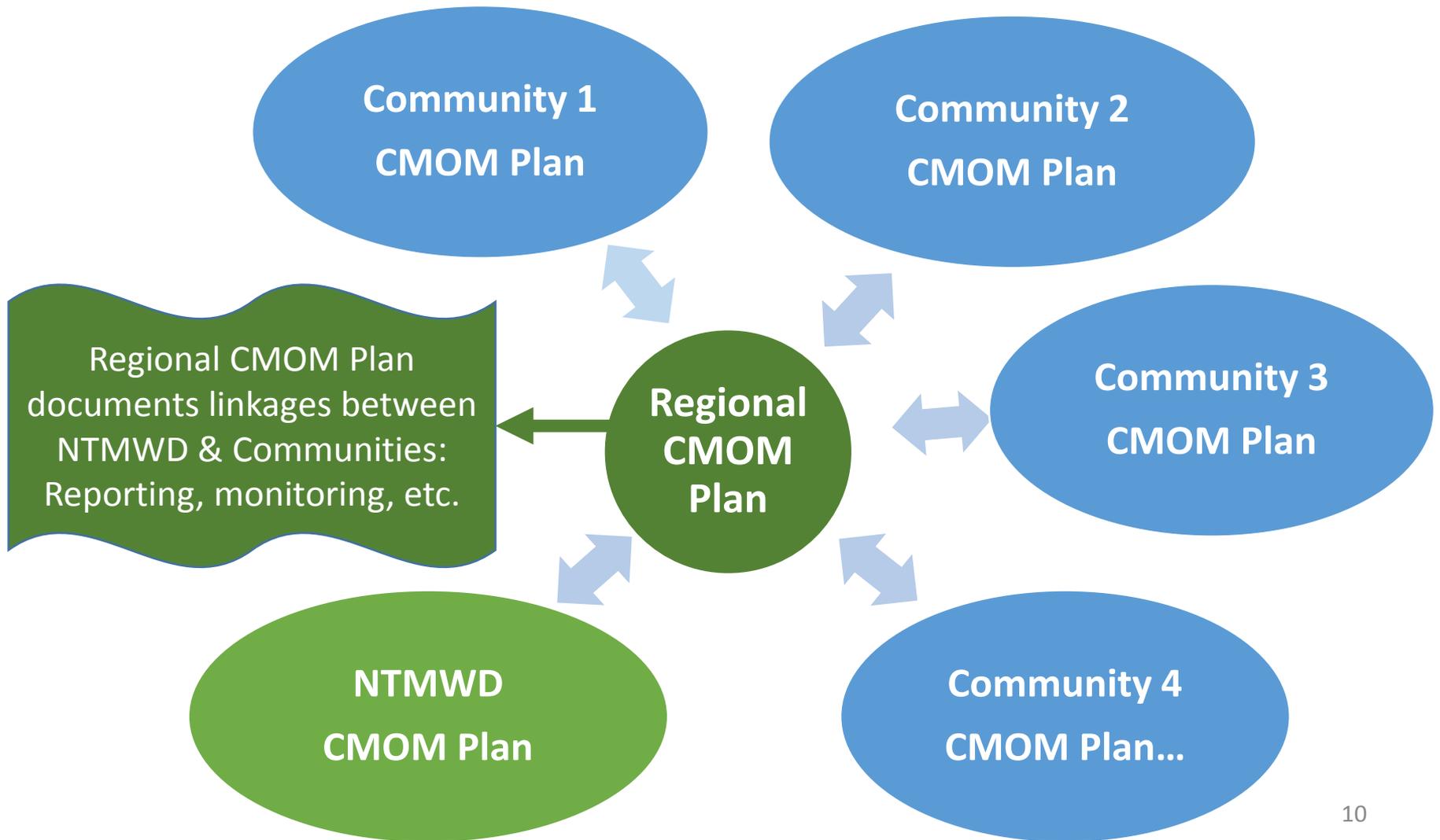
- Enforcement action deferred dependent on:
 - Participation in Regional CMOM Program
 - Development of City of Plano CMOM Plan
 - Implementing the actions and practices defined in the City’s CMOM Plan
 - Minimizing SSOs

Continued progress will retain flexibility & avoid \$10-100 million in mandated actions



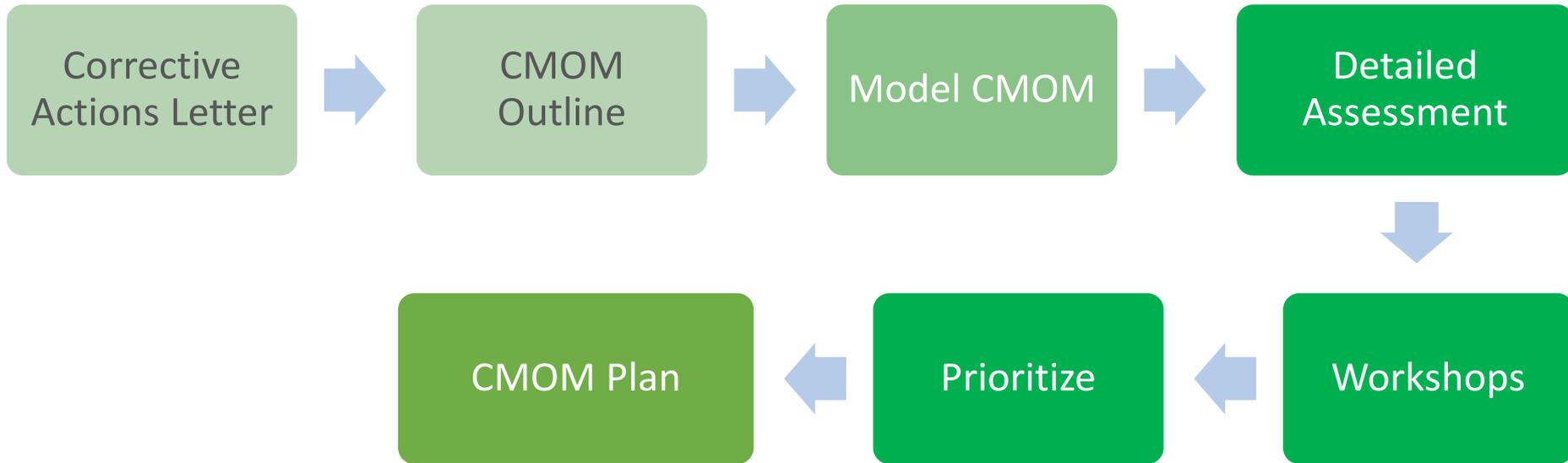


How the CMOM Plans are Related





Developing a CMOM Plan



Will provide a written program to operate and maintain the collection system in accordance with industry practice



Examples of CMOM Implementation Activities to Minimize SSOs

- Regular cleaning of pipes
- Regular condition assessments (pipes, manholes, pump stations)
- Flow monitoring
- Smoke and dye testing
- System rehabilitation, replacement, and repair
- Capacity expansions to accommodate flows





Next steps in 2016

- Continue collaboration with NTMWD & Member Cities
- Develop detailed CMOM Plan consistent with regional approach
- Document implementation needs and estimate costs
- Work with staff to budget for implementation costs



SANITARY SEWER SYSTEM

C.M.O.M. PROGRAM

City of Normal, Texas

CAPACITY

MANAGEMENT



OPERATION

MAINTENANCE

Version 1.0
September 20, 2016



Collaborative Regional Approach Is Yielding Positive Results



- Demonstrated to EPA that right steps are being taken
- Framework to avoid future enforcement by implementing sustainable practices
- Saved the region hundreds of millions of dollars in mandated improvements compared with consent decrees

City of Plano & CMOM



How did we get here?

- EPA did an inspection on February 11, 2014 of the City of Plano Wastewater system
- EPA issued a report dated April 10, 2014, which was received by e-mail on June 2, 2014
- Plano representatives met with EPA in Washington on September 11, 2014
- Plano representatives met with EPA, Region VI in Dallas on October 9, 2014
- NTMWD, Plano and other member cities met with EPA, Region VI in Dallas on June 30, 2015
- MOU signed by NTMWD and all customer cities in August/September 2015
- Plano receives letter from EPA on December 9, 2015. Requires our continued commitment to the NTMWD Regional CMOM program



What are we doing?

- Plano is participating in the NTMWD Regional WW partnering meetings working on the Regional Model CMOM
- Plano hired Pipeline Analysis to prepare our individual CMOM
- Pipeline Analysis had a kickoff meeting with Plano staff on February 19, 2016.
- Staff in gathering information and a list of contacts required to complete the CMOM
- We plan to complete this process by the end of the year



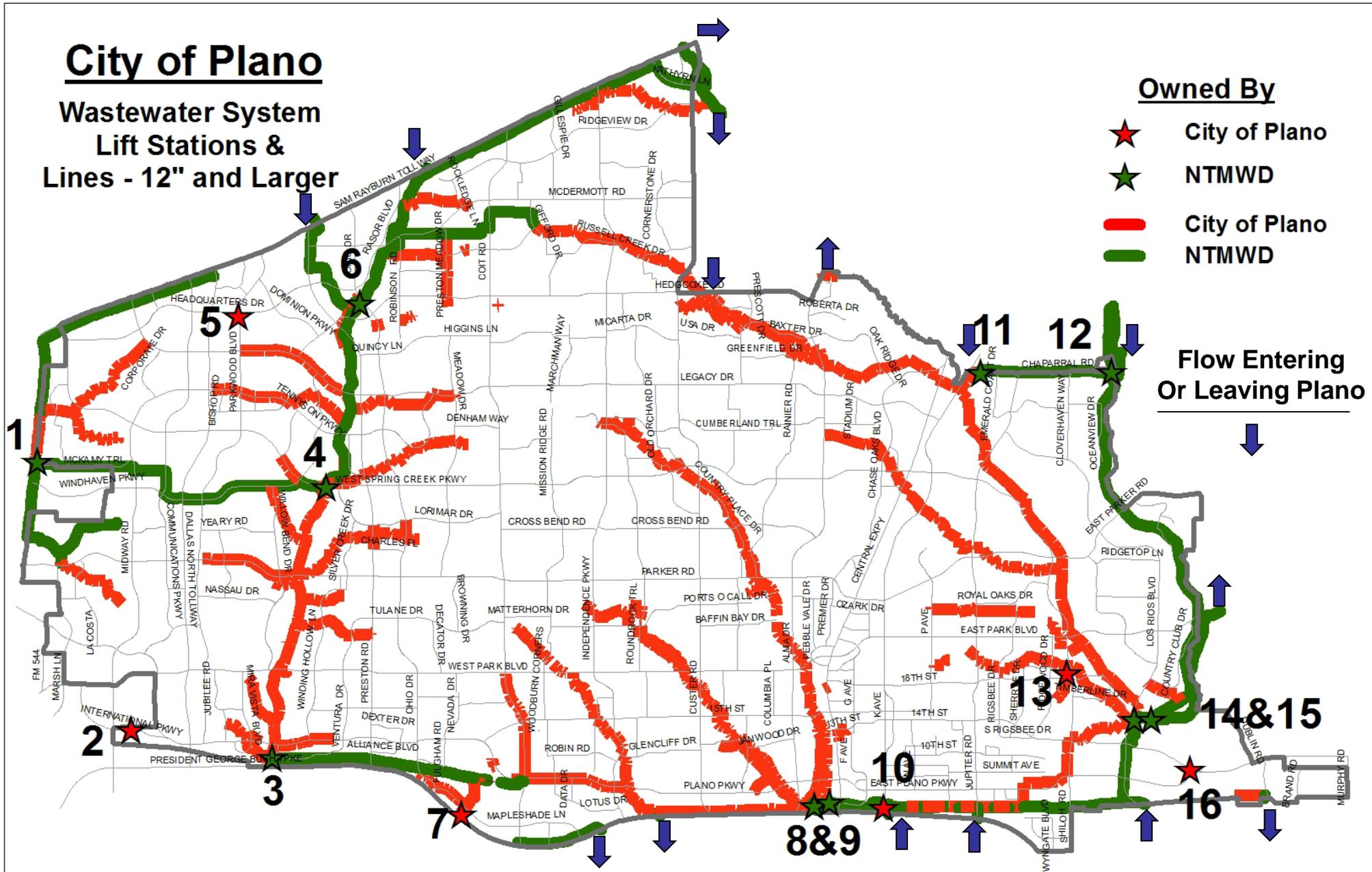
Why is this important?

- Plano cannot do this by itself
- How NTMWD and our neighboring cities impacts how Plano performs
- While Plano is in good shape, this is room for improvement
- If we work together, we can avoid future enforcement actions



City of Plano

Wastewater System Lift Stations & Lines - 12" and Larger



Owned By

- ★ City of Plano
- ★ NTMWD
- City of Plano
- NTMWD

Flow Entering Or Leaving Plano



Question?

