



Liz Stone, CESSWI, CPESC Camila Biaggi, ENV SP, CFM

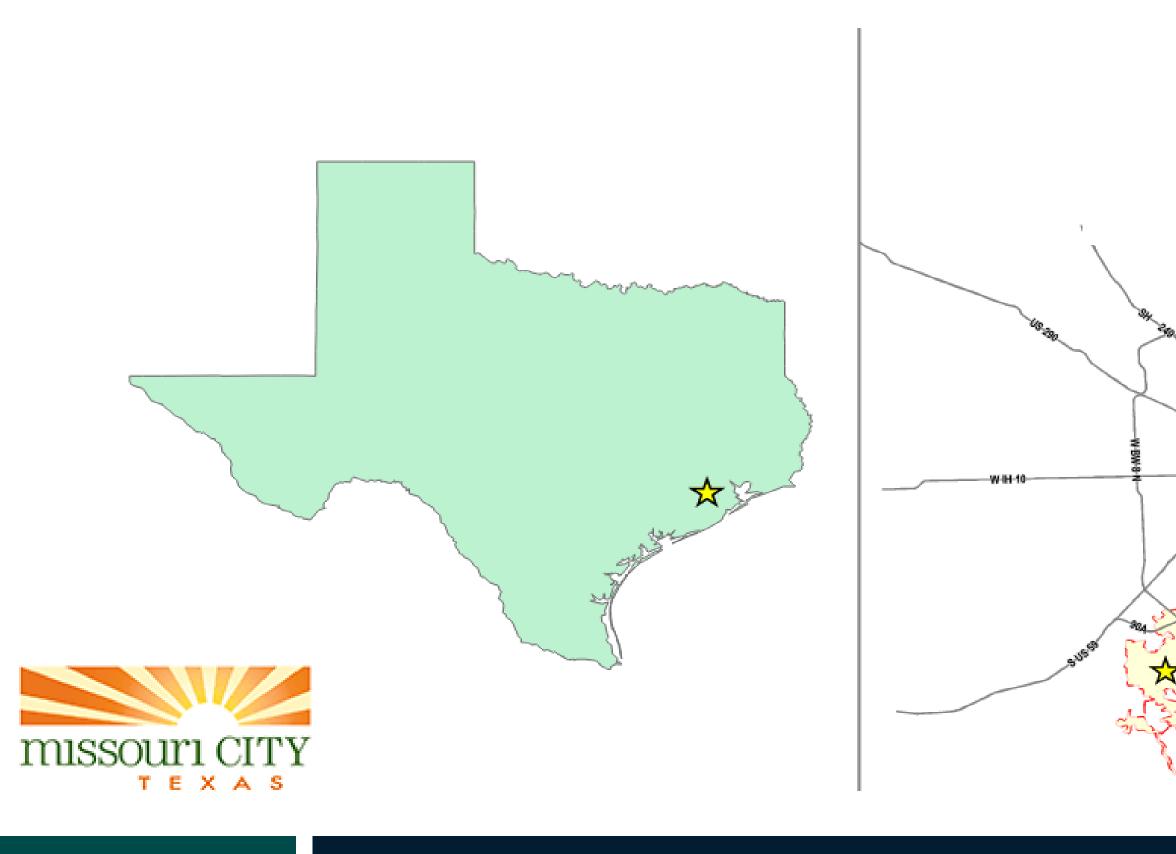
Quiddity Engineering

- Phase II MS4 Permittees
- Share One SWMP
- COMC is SWMP Administrator; responsible for:
 - Compiling and Submitting the Annual Report
 - Training
 - Document Control
 - Main Communicator (Liaison between all permittees)
- COMC (Level 3) and 16 Joint Permittees (Level 2b; all Non-traditional MS4s)

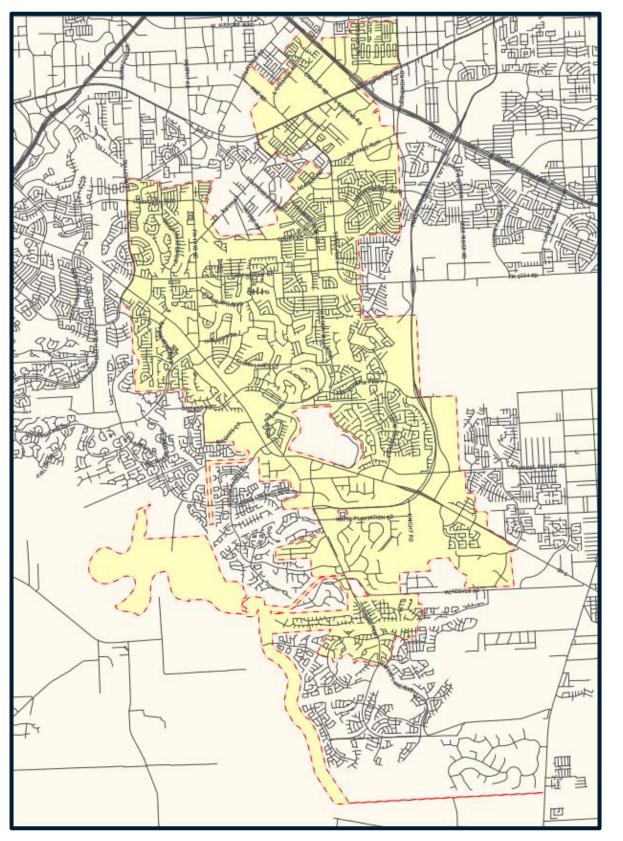


missouri CITY	COVERNMENT DEPARTMENTS COMMUNITY BUSINE	SSES HOW DO L
Drainage Master Plans	STORM WATER MANAGEMENT PROGRAM	Vincent Silva
Flood Prevention	Overview	CIP Project Manager Email Phone: 281.403.8567
Storm Water Management Program Watershed Master Plan Update	The City of Missouri City has developed a coalition with 16 surrounding Municipal Utility Districts, Utility Districts, and Water Control and Improvement Districts to create a joint Municipal Separate Storm Sewer System (MS4) program for the City of Missouri City Service Area. This program addresses storm water quality management issues typical of a growing residential community.	Physical Address 1522 Texas Pkny, Missouri City, TX 77489
	Municipal Separate Storm Sewer System	Hours Monday - Friday 8:00 am - 5:00 pm
	The City of Missouri City's Municipal Separate Storm Sewer System (MS4) is a program that addresses the conveyance or system of conveyances that is owned and operated by a governmental entity and used for collecting or conveying storm water. The City of Missouri City created a Storm Water Management Program (SWMP) to manage the quality of discharges from the MS4. The SWMP includes best management practices and schedules for implementation to address 5 Minimal Control Measures (MCMs).	Directory Quick Links
	Public Education and Outreach on Storm Water Quality Issues Illicit Discharge Detection and Elimination Construction Site Storm Water Runoff Control Post-Construction Storm Water Management in Areas of New Development and Redevelopment Post-Construction Good Housekeeping Measures for Municipal Operations Storm Water Management Program MS4 Annual Reports: 2020 2019	Storm Water Hotine Texas Commission on Environmental Quality (TCEQ) TCEQ MS4 Storm Water Permit
	Preventing Contamination Contamination of community drinking water threatens public health and causes significant cleanup expense. By preventing contamination of drinking water we avoid:	







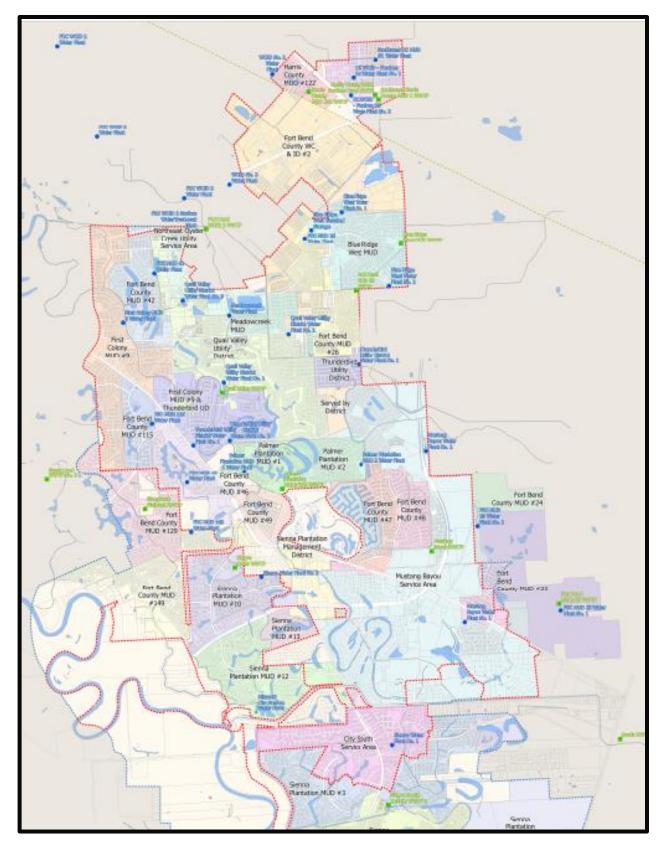


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- Located primarily in Fort Bend County, but a small portion in Harris County
- Approx. 36 MUDs in City Limits/ETJ
 - 16 MUDs share the SMMP







STORM WATER MANAGEMENT INTERLOCAL COOPERATION AGREEMENT

THE STATE OF TEXAS COUNTY OF FORT BEND

This Interlocal Cooperation Agreement (the "Agreement") is made and entered into by and between the City of Missouri City, Texas ("Missouri City" or the "City"), a Texas home-rule municipal corporation, and Harris County Water Control & Improvement District-Fondren Road, Harris County Municipal Utility District #122, Southwest Harris County Municipal Utility District #1, Blue Ridge West Municipal Utility District, First Colony Municipal Utility District #9, Quail Valley Utility District, Meadowcreek Municipal Utility District, Thunderbird Utility District, Palmer Plantation Municipal Utility District #1, Palmer Plantation Municipal Utility District #2, Fort Bend County Municipal Utility District #26, Fort Bend County Municipal Utility District #42, Fort Bend County Municipal Utility District #46, Fort Bend Municipal Utility District #47, Fort Bend County Municipal Utility District #48, Fort Bend County Municipal Utility District #49, Fort Bend County Municipal Utility District #115 and First Colony Levee Improvement District (the "Districts"), (collectively, "the Parties"), acting by and through their authorized representatives.

Recitals

Whereas, pursuant to the Interlocal Cooperation Act, Texas Government Code, Chapter 791 (the "Act"), as amended, cities, counties, special districts, and other legally constituted political subdivisions of the State of Texas are authorized to enter into interlocal contracts and agreements with each other regarding governmental functions and services as set forth in the Act; and

Whereas, Missouri City has coordinated the development of a Storm Water Management Program ("SWMP") with certain political subdivisions to gather data and information, to perform analyses, and to develop programs to address storm water quality issues, including the control of municipal separate storm sewer system discharges; and

Whereas, the Parties to this Agreement understand that entering into this Agreement in no way obligates any Party to participate in any joint project without the express approval of such Party;

NOW, THEREFORE, pursuant to Chapter 791, Texas Government Code and as otherwise authorized and permitted by the laws of the State of Texas, for and in consideration of the covenants, conditions and undertakings hereinafter described, and subject to each and every term and condition of this Agreement, the Parties contract, covenant and agree as follows:



First Colony MUD No. 9

Fort Bend County MUD No. 26

Fort Bend County MUD No. 42

Fort Bend County MUD No. 46

Fort Bend County MUD No. 47

Fort Bend County MUD No. 48

Fort Bend County MUD No. 49

Fort Bend County MUD No. 115

Harris County MUD No. 122

Harris County WC&ID - Fondren Road

Meadowcreek MUD

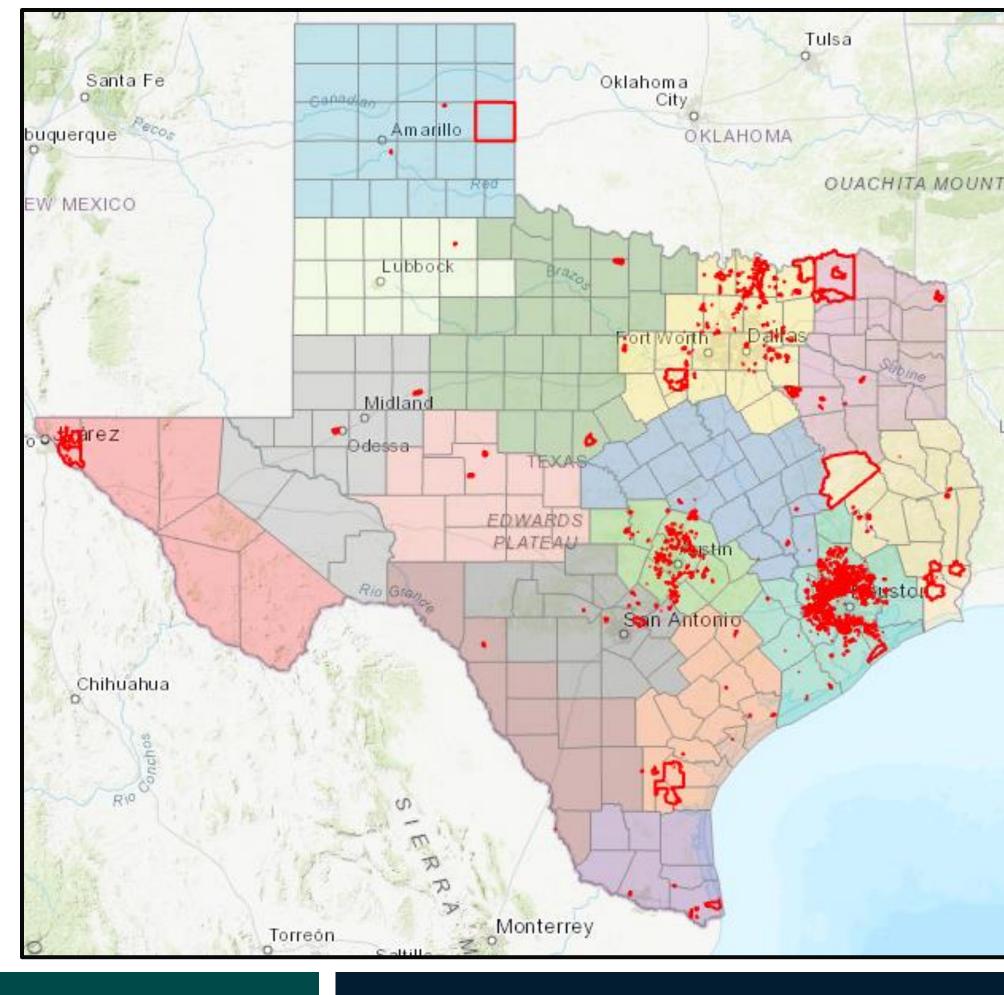
Palmer Plantation MUD No. 1

Palmer Plantation MUD No. 2

Quail Valley Utility District

Thunderbird Utility District

Blue Ridge West MUD



Municipal Utility District (MUD)

A political subdivision of TX authorized by TCEQ to provide drinking water, sewage, drainage, and other utility-related services within its boundaries

Over 900+ MUDs in Texas

Population of 100 - 10,000+

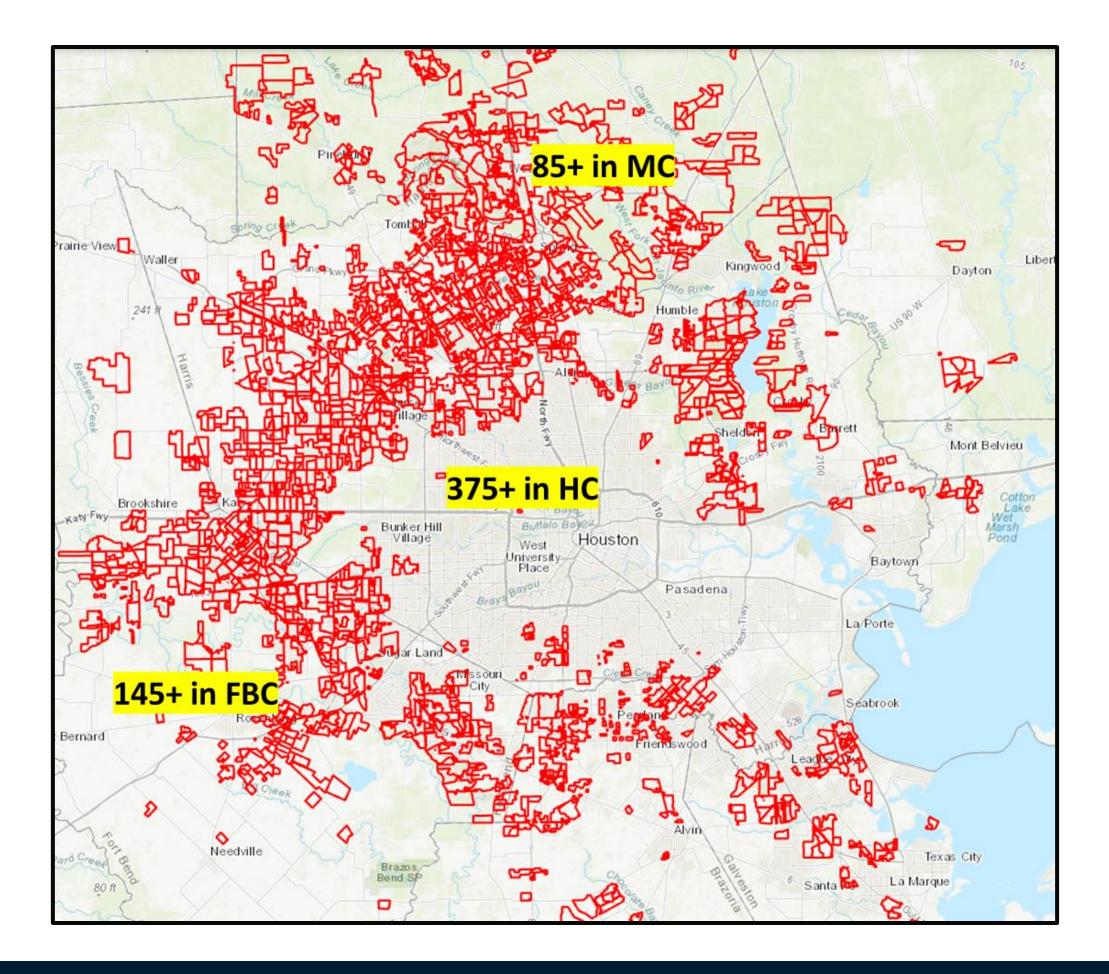
In Areas Not in a City (typically)

Funded Through Taxes



5 Elected Directors who Own Land in the MUD

MUD Boundaries





Municipal Utility District (MUD)

Non-traditional Small MS4 - A small MS4 that often cannot pass ordinances and may not have the enforcement authority like a traditional small MS4 would have to enforce the stormwater management program. Examples of non-traditional small MS4s include counties, transportation authorities (including the Texas Department of Transportation), municipal utility districts, drainage districts, military bases, prisons and universities.

Level 2b: Operators of all non-traditional small MS4s such as counties, drainage districts, transportation entities, military bases, universities, colleges, correctional institutions, municipal utility districts and other special districts regardless of population served within the "urban area with a population of at least 50,000 people", unless the non-traditional MS4 can demonstrate that it meets the criteria for a waiver from permit coverage based on the population served.



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- imited Manpower
- **Resources Are Restricted**
- **Budgets Are Constrained**
- Enforcement Ability is Limited
- Require Cost-Effective Solutions
- **Provide Practical Options**
- Innovative Implementation Measures





Legal Authority – Rate Order	Legal Authority – City Ordinance	
Water Plants	Water Plants	
WWTP and Lift Stations	WWTP and Lift Stations	
Generators and Fuel Storage	Generators and Fuel Storage	
Storm Sewer Systems	Storm Sewer Systems	
TCEQ	Streets and ROW	
	Parks and Natural Areas	
MUD Elected Board of Directors	Maintenance Yards/Stockpile Areas	
District Attorney District Engineer District Operator Bookkeeper	Fleet and Washing Facilities	
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Roles & Responsibilities

City of Missouri City – **Program Administrator**

- Daily Program Administration
- Daily Operation (COMC Facilities)
- Implement BMPs
- Address Illicit Discharges
- Perform Inspections
- Enforce & Assess Violations
- Respond to Complaints
- Documentation Control





Joint MS4s/Coalition Members – Assist with Program Administration

Quiddity Engineering – **Resource Manager**

- Technical Resource
- QA/QC Annual Reports
- SWMP Development



- Daily Operation (District Facilities) - Assist with Implementation of BMPs - Provide Updates and Documentation to City - Perform Inspections (District Facilities) - Respond to Complaints (District Facilities)

- Assist with Implementation of BMPs



Public Education, Outreach & Involvement

HELP PREVENT STORMWATER POLLUTION

PROPERLY HANDLE YOUR POOL



Only drain your pool when you need to, and it is chemical free

Properly store your pool/ spa chemicals in a covered prevent leaks and spills from being exposed to stor

Drain your pool into the sanitary sewer system, not the s



DO YOUR PART TO HELP YOUR COMMUNITY

DON'T POUR THESE

DOWN THE DRAIN

FATS

OILS GREASE

DON'T FLUSH THESE DOWN THE TOILET WIPES (EVEN "FLUSHABLE") PAPER TOWELS

KEEP PIPES FLOWING!

These items may block your household pipes and can cause major issues with your community's sanitary services. This can lead to costly repairs. Instead, throw these items in the trash for proper disposal.

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Mantenimiento de Tanque Séptico Soluciones para la Contaminación de Agua de Tormenta.. Una de las fuentes potenciales

Cosas para mantener en mente: Inspeccione su sistema (cada 1 a 3 años) y bombee su tanque (como sea necesario, generalmente cada 5 años).

No se deshága de desechos peligrosos en fregaderos o taza de baño. Descargue sólo desecho humano y de mascota, malgaste de agua y papel de baño en tanques sépticos.

Plante césped solamente sobre o cerca de su sistema séptico. Las raíces de árboles o arbustos quizás tapen y dañen el area de desaguadero.

No conduzca ni estacione vehículos en ninguna parte de su sistema séptico.Eso puede comprimir la tierra en su area de desaguadero o dañar tubos, tanques, u otros componentes del sistema séptico

de contaminación de agua, es el mal funcionamiento de sistemas sépticos privados. Agua que descarga bacterias dañinas por sistemas sépticos que no

funcionan, pueden entrar en contacto y contaminar nuestra agua de suelo, ríos, lagos y las corrientes.

Para mas informacion, contacte: U.S. Environmental Protection Agency, **MISSOURI CITY** souricitytx.gov www.epa.gov/owm

Utilize Website (and Social Media)

Partner with Large Organizations for Environmental **Events**

Open Public Meetings (City and MUDs)

Public Education Material

Storm Drain Markers

Recycling Program

Team Up with HOAs/Community **Organizations/Newsletters**





Street Sweeping

Emergency Spill Response Plan

Spill Response Kit(s)

Facility Inspections

Development of SOPs

Good Housekeeping Practices Sanitary Sewer System Evaluation



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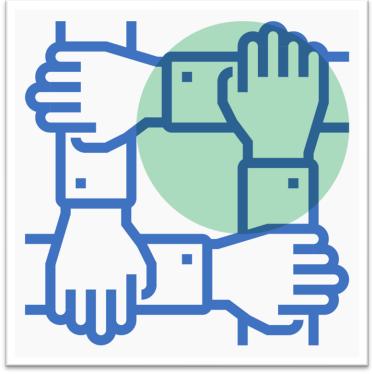
- TMDL/Impaired Water Bodies Requirement
- WWTP, Lift Stations & Lines
- Review Response to SSOs, if Occurred
- Document Repairs, Replacements &



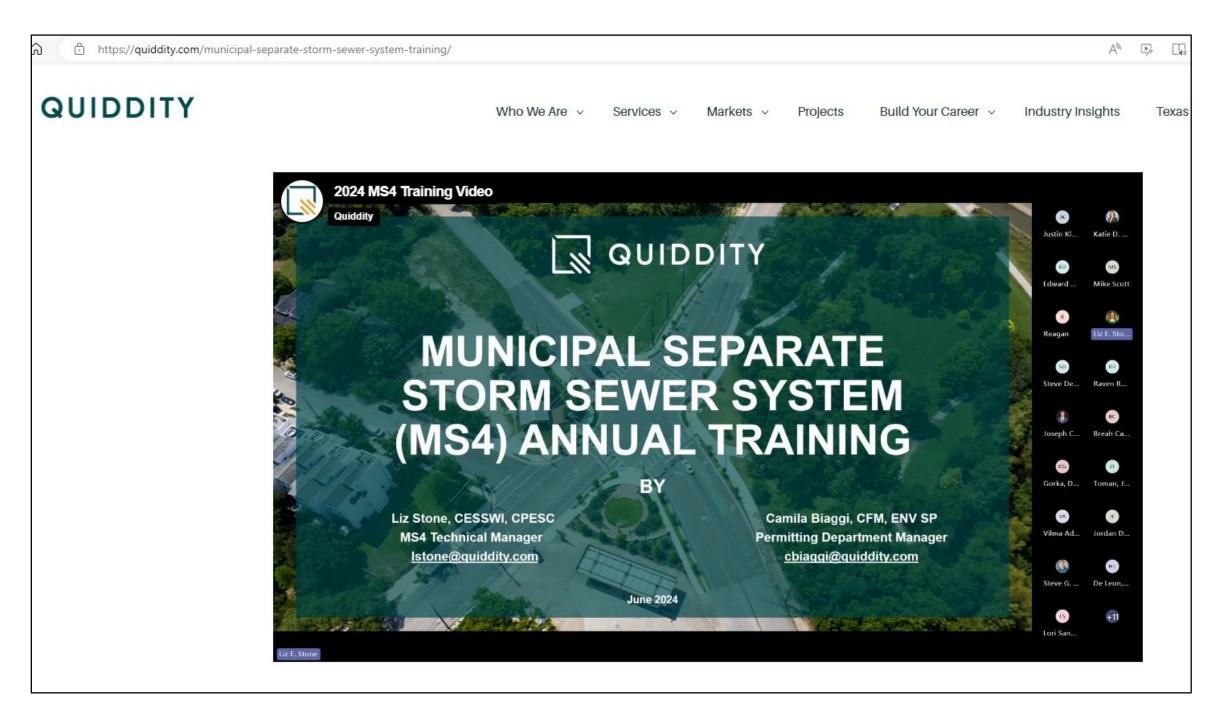
Stakeholder Coordination







Annual Virtual Training



https://quiddity.com/municipal-separate-storm-sewer-system-training/





Train and Inform Personnel District Operator/Engineer **District Board of Directors** City Personnel

On-Demand Virtual Training

Schedule Management





DATE	TASK	NOTE
Now – When	Draft Annual Report	
Ready		
When Ready	COMC Submit Draft (or near Final)	
(tent. Week of	to Districts for Review & Signature	
Nov. 25 th)		
Dec. 13 th	Due Date for Joint Districts to Return	
	Original Signatures to COMC	
Week of Dec. 16 th	Finalize Annual Report (if not done	Receive Originals, Scan,
	sooner) and Submit to TCEQ	Make Copies & Submit
Dec. 31, 2024	Due to TCEQ	

- Coalition Members only meet monthly
- Usually, only Time to Share Information
- Need to Plan Accordingly





CONCLUSION

Everyone Needs to Know the Purpose of the Program

- MUD Board of Directors/City Council
- District Engineer/District Operator
- Residents/Community Members

Know Everyone's Roles and Responsibilities

- Ability to Address Questions/Concerns
- Implementation Measures Continuously Occur









Liz Stone, CESSWI, CPESC MS4 Technical Manager

Istone@quiddity.com 281-363-4039



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Camila Biaggi, ENV SP, CFM Water Quality Specialist

cbiaggi@quiddity.com 346-231-0910

Quiddity Engineering MS4 Services

- Selection & Administration of BMPs
- Documentation Control
- Public Education Program
- Inspections of Facilities
- Construction and Post-Construction Inspections
- IDDE (Illicit Discharge Program)
- TMDL/I-Plan Assistance
- Regulatory/Technical Resource
- Review of Annual Reports & SWMPs Assistance with TCEQ
- **Investigations/Audits**

Please contact us regarding the MS4 program and other stormwater quality issues (CGP, MSGP, SPCC, SWPP, SWQ Permits, TMDLs, etc.)

THANK YOU

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