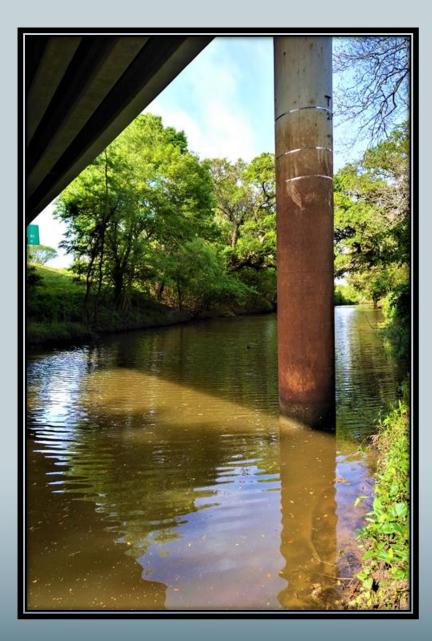
OYSTER CREEK TMDL PROJECT

Steven Johnston, H-GAC

May 11, 2022





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Acknowledgements



 TCEQ Total Maximum Daily Load (TMDL) Program – Austin



What is H-GAC?



Meeting Agenda

- 1:00 1:05 Welcome Open Meeting
- 1:05 1:15 Project Update Timeline
- 1:15 1:35 Project Review
- 1:35 2:15 Review Draft Management Measures
- 2:15 2:25 Implementation
- 2:25 2:30
- Meeting Wrap Up/Next Steps

Adjourn



Water Quality Management

- Monitoring
- Assessment
- Address Impairments



Oyster Creek TMDL Update

- Technical Support Document Revised
 - Revising Flow Data
 - Updated Maps
 - Deliver May 31, 2022
- TMDL Document Revised
 - Revising Flow Data
 - Deliver August 2022
- Draft I-Plan
 - Addressing/Updating
 2022

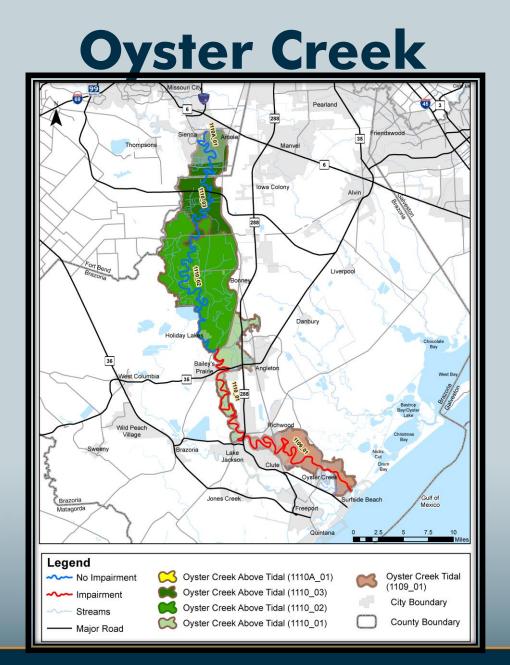
Technical Support Document for Two Total Maximum Daily Loads for Indicator Bacteria in the Oyster Creek Watershed

Segments: 1107 and 1108 Assessment Units 1109_01 and 1110_01



December 2019

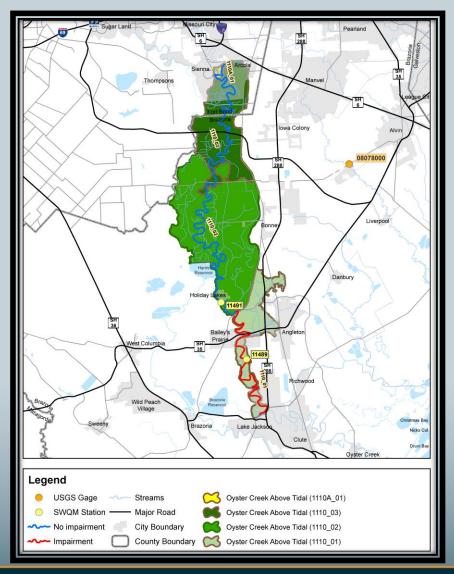


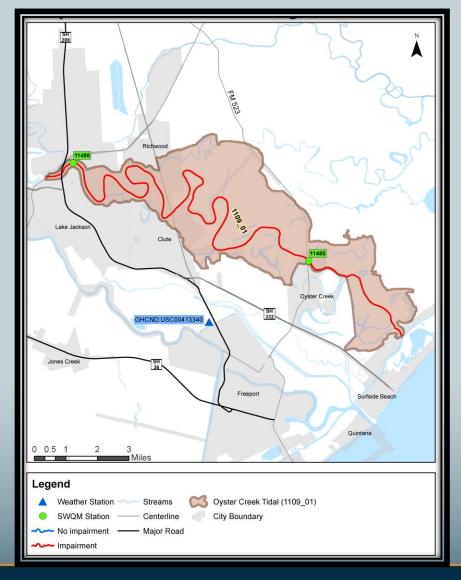




Serving Today • Planning for Tomorrow

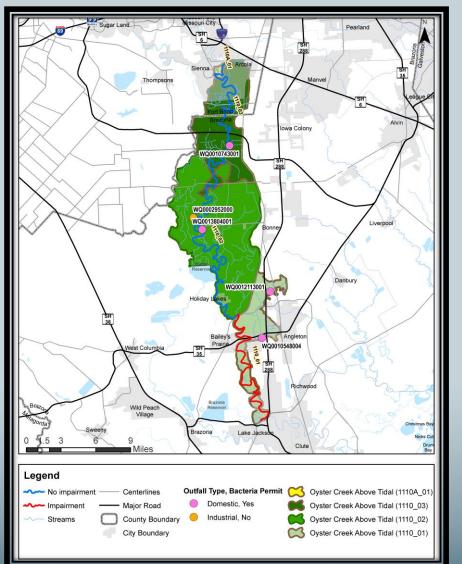
Monitoring Site Locations

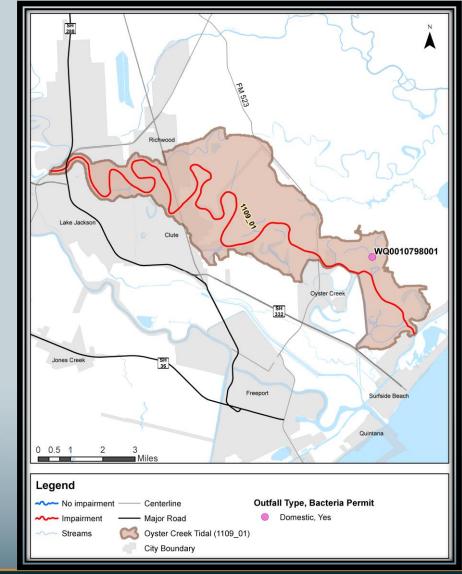




Houston-Galvesto Area Council

WWTF Locations





4610

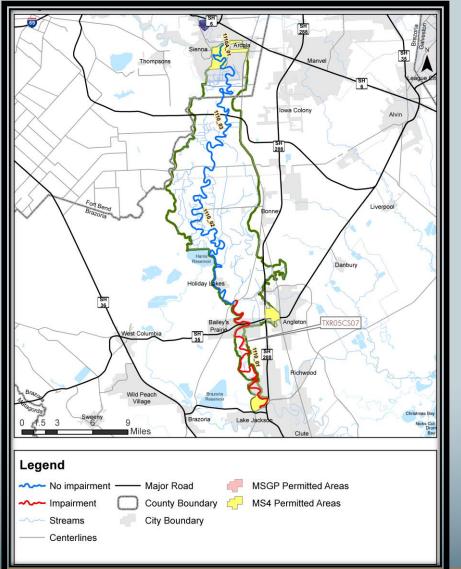
Houston-Galvestor Area Council

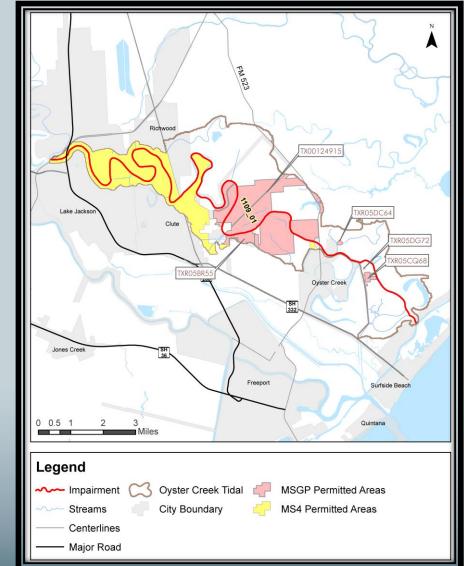
Sanitary Sewer Overflows

AU	Permit	Permittee	Year	Number of Reported SSOs	Estimated Volume (Thousand Gallons)
1109_01	WQ0010047001	City of Lake Jackson	2011	4	41.00
1109_01	WQ0010047001	City of Lake Jackson	2012	6	31.50
1109_01	WQ0010047001	City of Lake Jackson	2013	3	0.48
1109_01	WQ0010047001	City of Lake Jackson	2014	5	10.70
1109_01	WQ0010047001	City of Lake Jackson	2015	5	48.70
1109_01	WQ0010047001	City of Lake Jackson	2016	14	56.40
1109_01	WQ0010047001	City of Lake Jackson	2017	12	3.92
1109_01	WQ0010047001	City of Lake Jackson	2018	12	3.96
1110_01	WQ0010548004	City of Angleton	2011	1	19.00
1110_01	WQ0010829001	TDCJ Scott Unit	2012	2	83.37
1110_01	WQ0010548004	City of Angleton	2014	1	10.00
1110_02	WQ0013804001	TDCJ Terrell Unit	2011	1	60.00
1110_02	WQ0013804001	TDCJ Terrell Unit	2013	3	50.40
1110_02	WQ0013804001	TDCJ Terrell Unit	2016	1	0.00
1110_03	WQ0010743001	TDCJ Darrington Unit	2011	1	0.25
			Total	71	419.68



Stormwater Permits





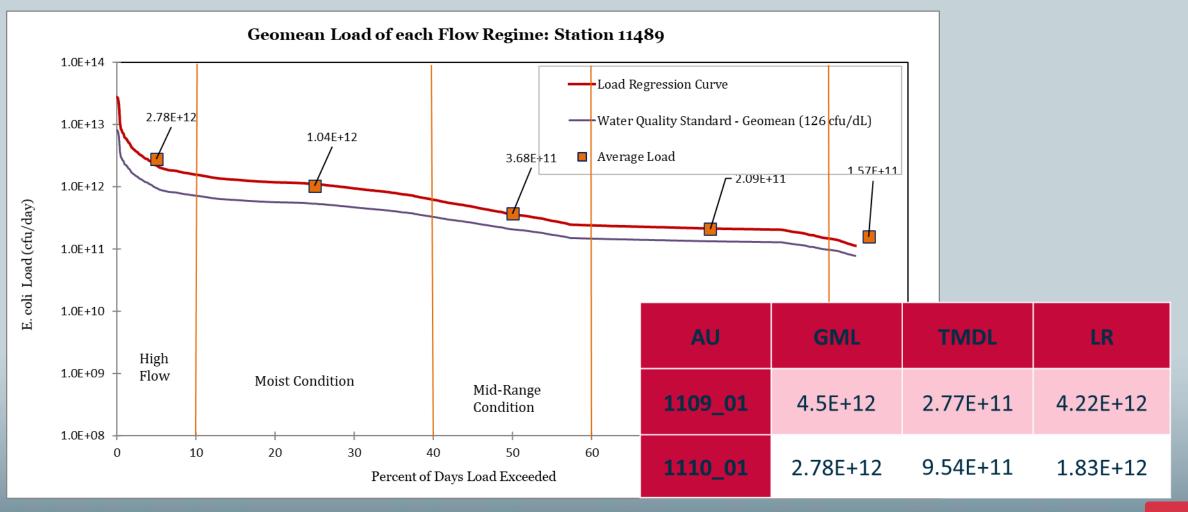
Houston-Galvestor Area Council

Feral Hog Population Estimates

Segment	Suitable Area (Acres)	Suitable Area (Sq. Mile)	Feral Hog Population	
1109	11,097.86	17.3404	300	
1110	67,089.31	104.827	1,831	
Total	78,187.16	122.1674	2,131	



Revising Load Reductions



Houston-Galvest Area Council

Revising TMDL

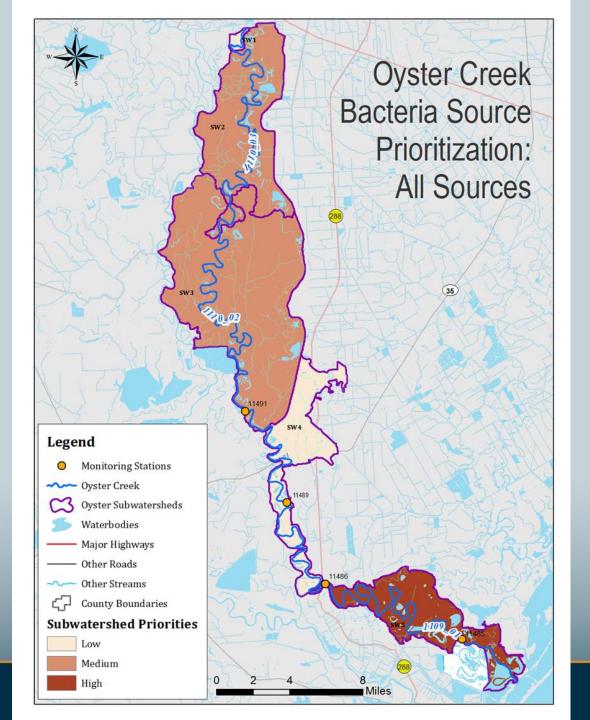
TMDL = WLAwwtf + WLAsw + LA + MOS

AU	Indicator Bacteria	TMDL (Billion cfu/day)	MOS (Billion cfu/day)	WLA wwtf (Billion cfu/day)	WLA _{sw} (Billion cfu/day)	LA (Billion cfu/day)
1109_01	Enterococci	276.68	2.78	22.63	3.67	247.60
1110_01	E. coli	954.12	47.71	81.06	29.60	795.75



Draft Oyster Creek I-Plan

- References the TMDL document/TSD
- Prioritizes Sources
- Identifies Management Measures
- Identifies Implementing Partners
- Identifies Potential Funding Sources



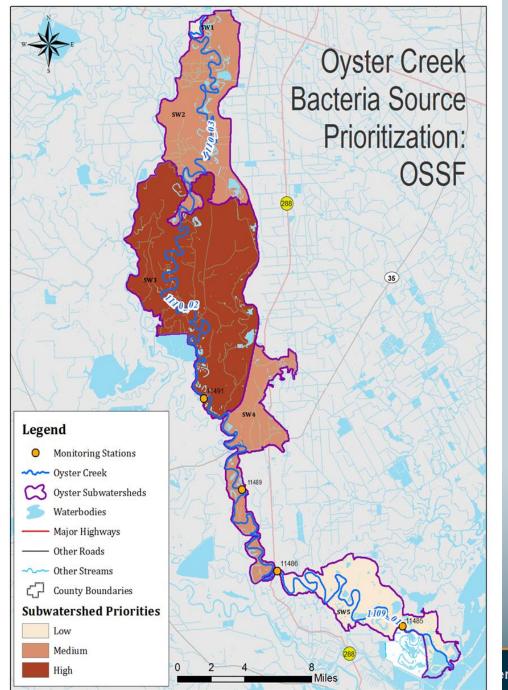


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Management Measures

- **1.** Promote Safe OSSF Use and Maintenance
- 2. Support Land Management Initiatives
- **3.** Maintain and Improve Wastewater Treatment Facility and Collection System Function
- **4.** Reduce Stormwater Sources
- 5. Address Fecal Deposition of Dog Waste
- 6. Address Fecal Deposition of Feral Populations

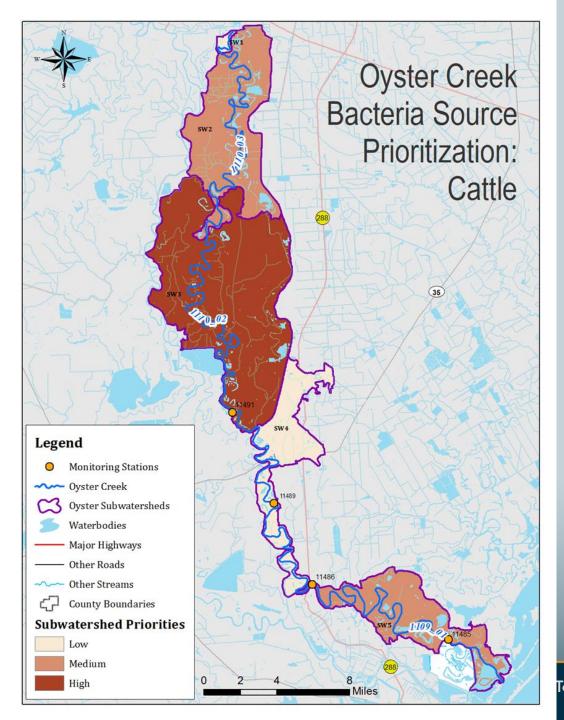




Management Measure 1: Promote Safe OSSF Use and Maintenance

- Workshops and Residential Training
- Inspection, Repairs and Replace

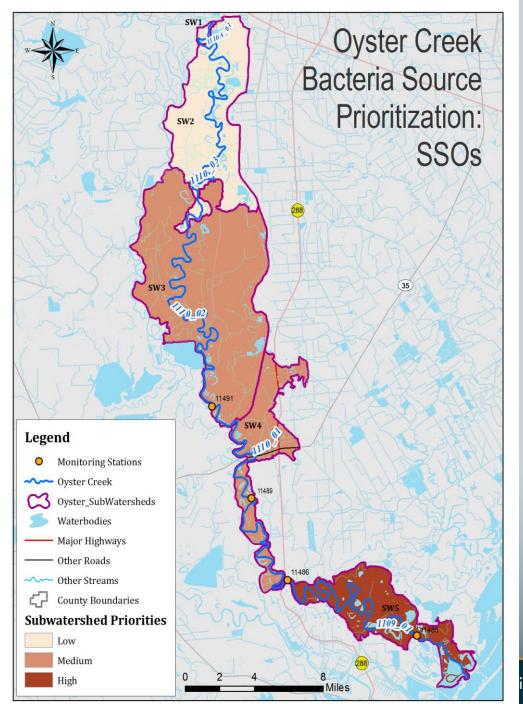




Management Measure 2: Support Land Management Initiatives

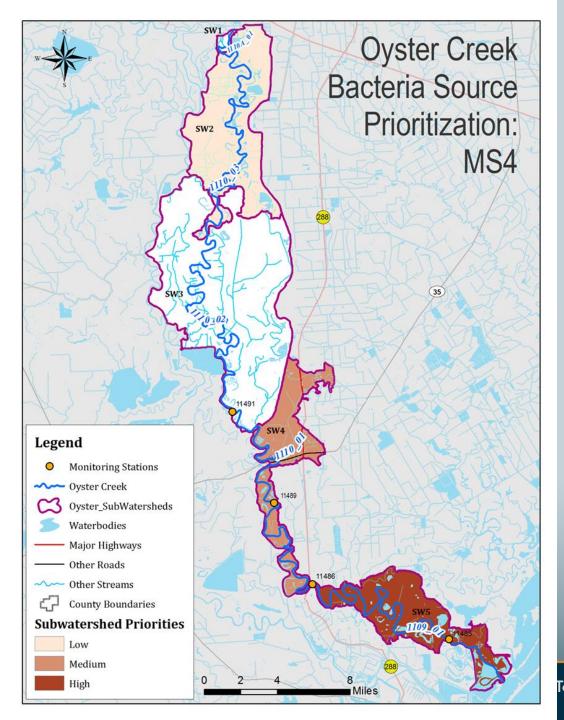
- Water Quality Management Plans
- Conservation Management Plans
- Riparian Buffer
 Improvement
- Outreach





Management Measure 3: Maintain and Improve Wastewater Treatment Facility and Collection System Function

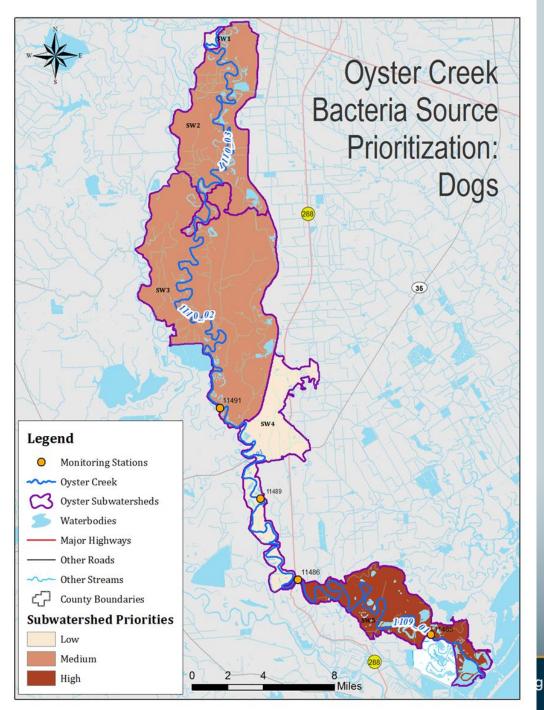
- Technical Assistance to WWTF Operators and Collection System Owners
- Fats, Oils, Grease, and Wipes Outreach, Education and Campaign



Management Measure 4: Reduce Stormwater Sources

- Stormwater Outreach
- Illicit Discharges and Illegal Dumping Investigations
- Stormwater
 Demonstrations, including Green
 Infrastructure





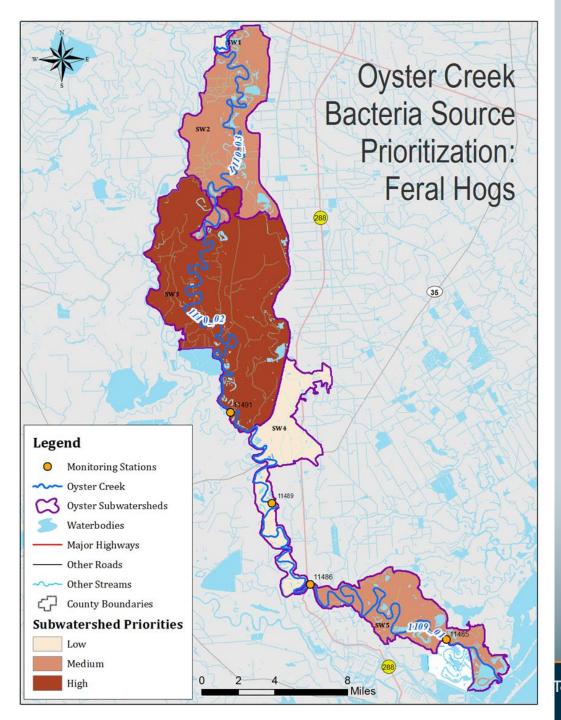
Management Measure 5: Address Fecal Deposition of Dog Waste

Activities

 Pet Waste Station Installation

Outreach





Management Measure 6: Address Fecal Deposition of Feral Populations

- Voluntary Feral Hog Reduction Measures
- Feral Hog Outreach



What are your thoughts?

Five Management Measures:

- MM 1: Promote Safe OSSF Use and Maintenance
- MM 2: Support Land Management Initiatives
- MM 3: Maintain and Improve Wastewater Treatment Facility and Collection System Function
- MM 4: Reduce Stormwater Sources
- MM 5: Address Fecal Deposition of Dog Waste
- MM6: Address Fecal Deposition by Feral Populations
- Individual Tasks/Activities for Each Measure
- Responsible Organizations
- Cost



Implementation

- Homeowner Wastewater Assistance Program
- Coastal Communities Project
- Trash Free Texas
- Texas Stream Team



Bailey's Prairie





Implementation

Kendall Guidroz – H-GAC, Coastal Communities and Texas Stream Team









Coastal Communities

Water Quality Outreach & Education Project



This project is funded in part by the TCEQ through a grant from the United State Environmental Protection Agency



Coastal Communities Project

oastal

What?

- Water Quality Outreach & Education resources
- Who?
 - Our smaller coastal communities
- Why?
 - To remove barriers for city staff

• How?

• A One-Stop-Shop for resources



Project Communities

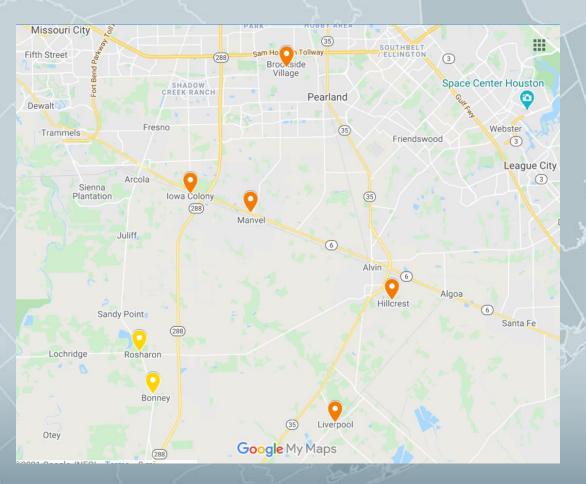
24 non-MS4 communities in Brazoria, Galveston, Chambers, & Matagorda Counties Resources available for all interested communities





Project Communities

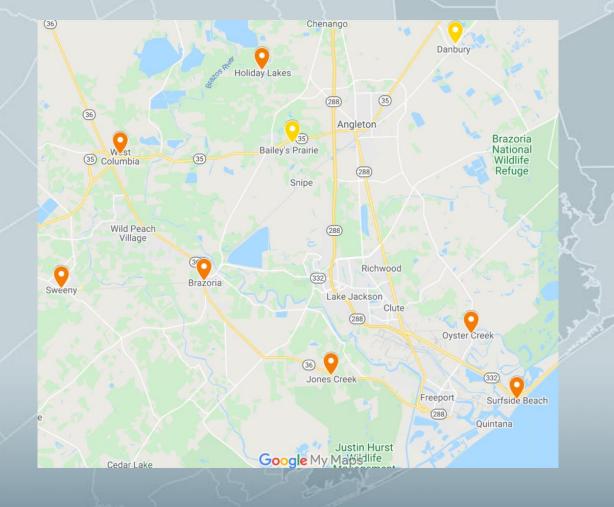
 Several project communities are in the Chocolate Bay watershed





Project Communities

 Several project communities are in the Oyster Creek watershed





Outreach Toolbox & Roadmap

Project website Roadmap messaging H-GAC & partner resources Model ordinances Links to funding, training, and meeting opportunities





ELECAL DUMPING IS A CRIME Canup, enforcement, and prevention are expensive. Under the sounds is litering, fines up to \$500. 5 to 500 pounds is litegal dumping, with tines up to \$2,000 and 180 days in jail. 500 to 1,000 pounds, fines up to \$4,000 and a year in jail. Repeat offenses result in stricter penalties.



www.coastalcommunitiestx.com



FOG in Rental Properties

- Community-Based
 Social Marketing Pilot
 Project
- Workgroup developing Outreach Plan and Resources
- Piloting Resources over the summer

NEVER put Fats, Oils, & Grease down the drain! ONLY WATER goes down the drain

Dear Residents,

Fats, Oils, and Grease (FOG) damages and clogs pipes, which can cause sewer backups in your apartment - or your neighbor's. It can also cause overflows in our community that brings harmful bacteria into contact with people and waterways.

What can go down the drain?

- Grease or fat from meat
- X Butter & margarine
- X Dairy products
- X Mayo, salad dressings, sour cream

✓ Water

What can YOU do?

- · Dispose of Fats, Oil & Grease in the trash not down the drain.
- Scrape food scraps into the trash not down the drain or garbage disposal.
- Wipe grease and oil off dishes before rinsing or placing in the dishwasher.

Thank you for helping keep our community clean! Apr



Learn more about Fats, Oils, and Grease (FOG) and proper disposal methods at *ceasethegrease.net* This project is funded in part by the TCEQ through a grant from the United States Environmential Protection Agency

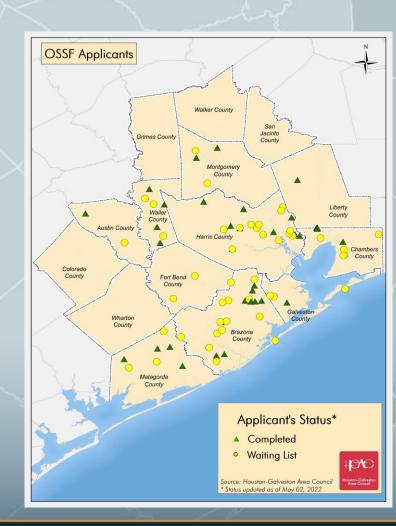




On-Site Sewage Facility (OSSF) Resources

Homeowner Education **Workshops** Homeowner Wastewater **Assistance Program** More information: ossf@h-gac.com • H-gac.com/on-site-

sewage-facilities





Trash Free Texas

- A Trash Free Waters project
- Key Resources:
 - Adopt-A-Spot Map
 - Community Cleanup Challenge Toolkit
 - Local Government Outreach and Education Toolkit
 - Recreational Cleanup
 Toolkit

www.trashfreetexas.org www.h-gac.com/trash-free-texas

TRASH



Texas Stream Team

- Citizen Science volunteer water quality monitoring
- 3 Phases of Training
- Part of a state-wide program
- Trainings resume this summer
 - Contact: stream.team@h-gac.com

THE MEADOWS CENTER FOR WATER AND THE ENVIRONMENT

TEXAS STATE UNIVERSITY TEXAS STREAM TEAM

h-gac.com/Texas-stream-team



Next Steps

Committee comments to Draft Implementation Plan – September 2022

Committee to meet again in January 2023 to review any significant changes

Public Meeting in February 2023 to present Implementation Plan, seeking additional input.



THANK YOU!

Steven Johnston

- Steven.johnston@h-gac.com
- **281-681-2579**





