



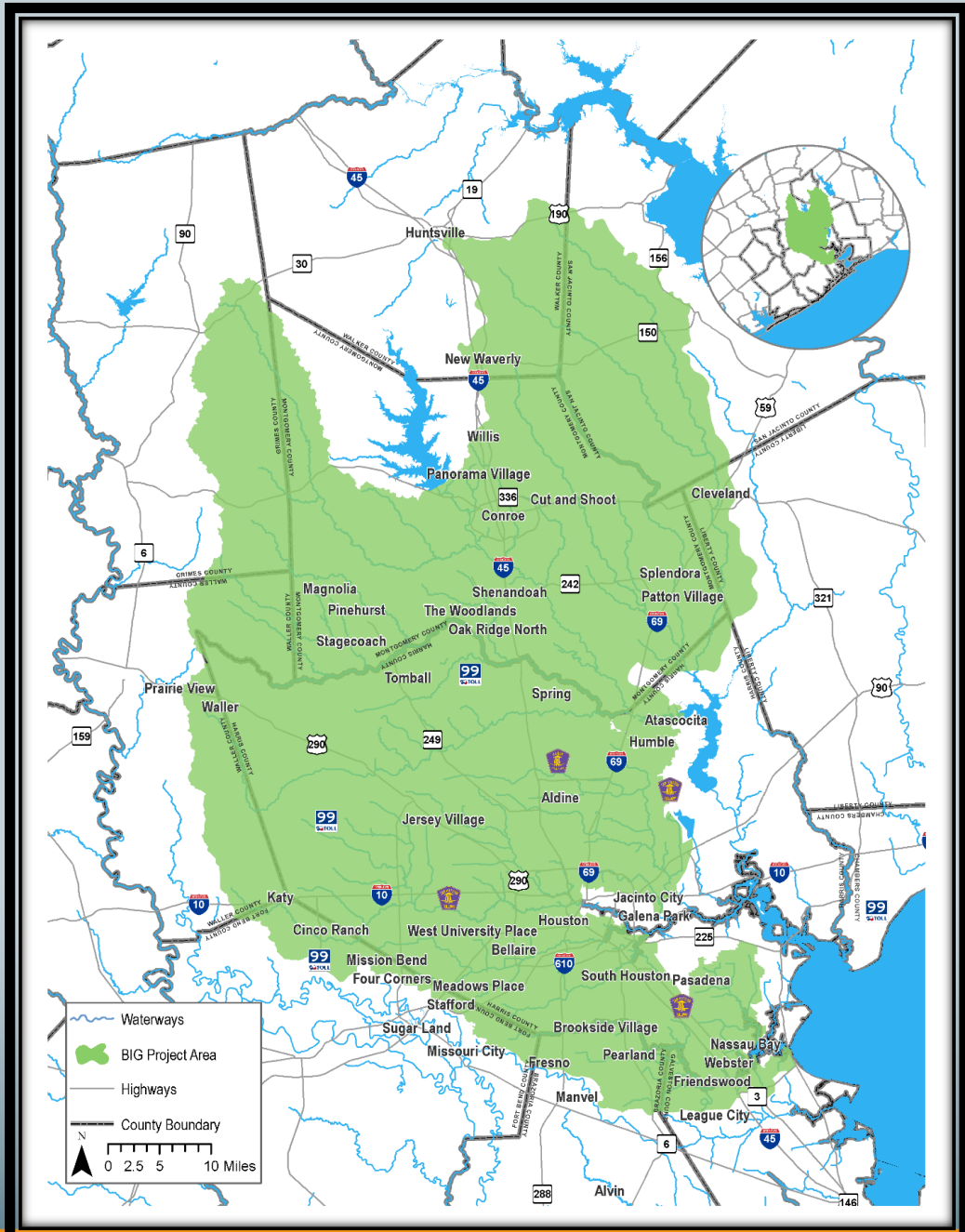
BACTERIA IMPLEMENTATION GROUP (BIG)

**Fall Meeting
December 5, 2023**



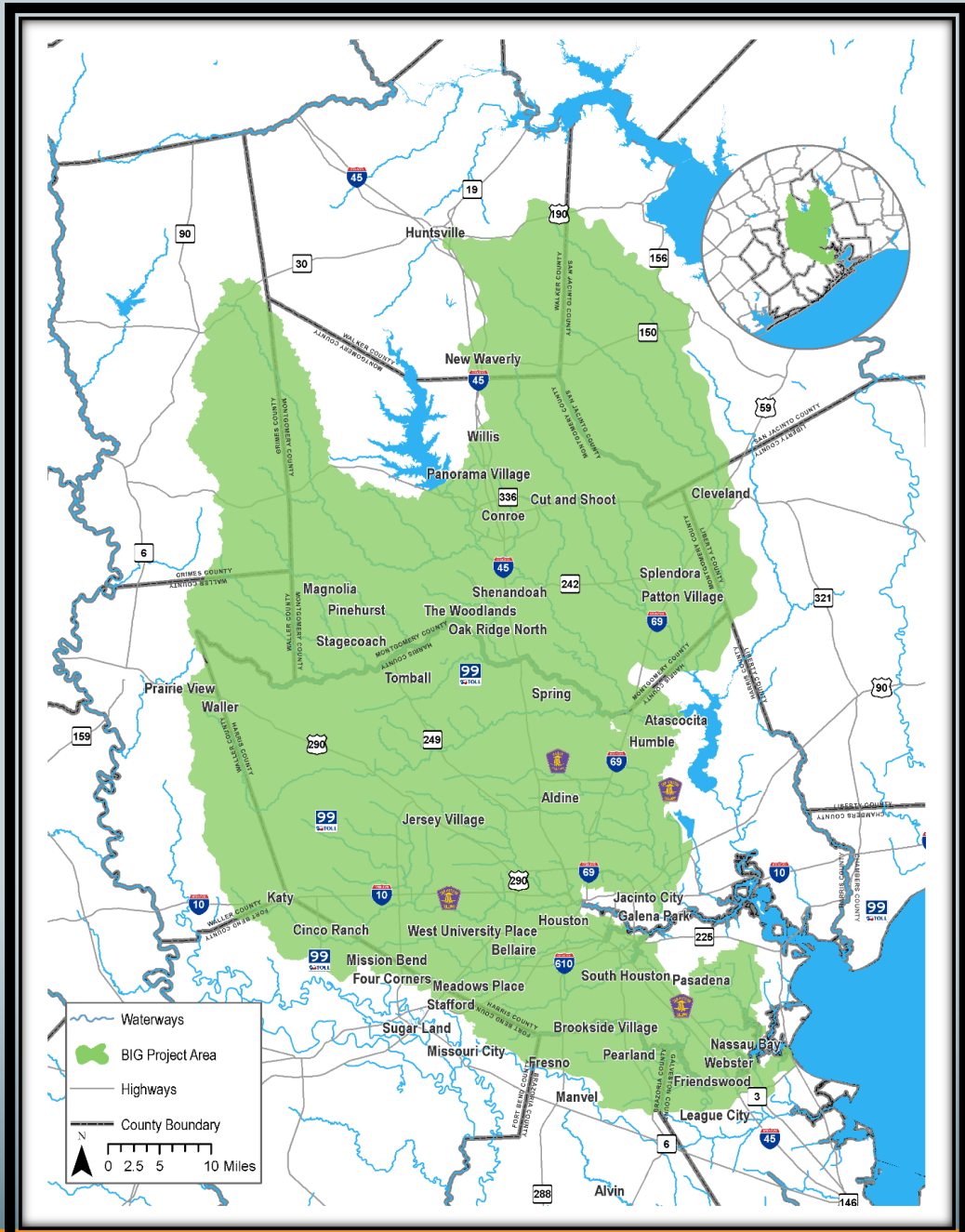
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- Quorum Certification
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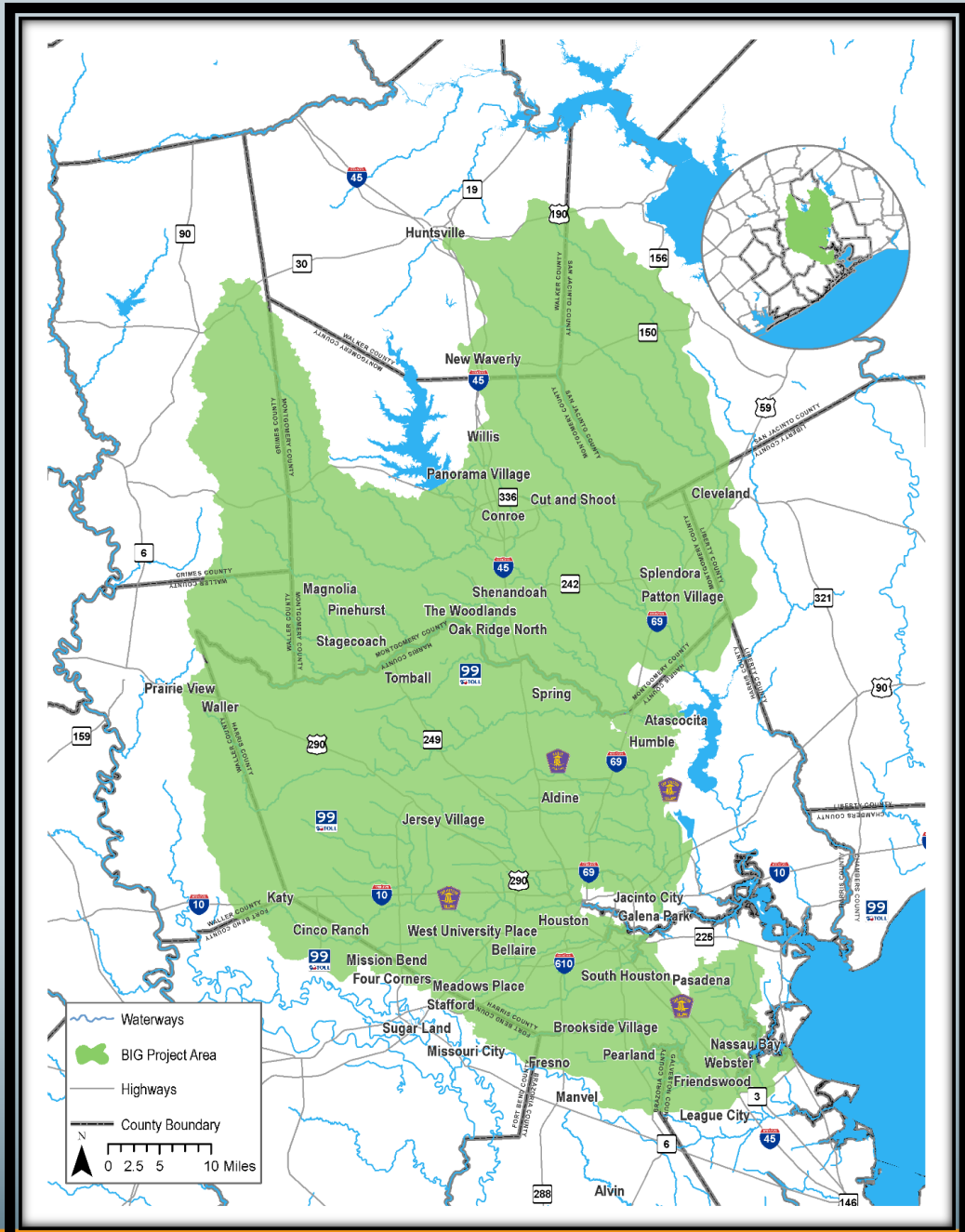
ROSTER UPDATES

- **BIG Membership**
 - None
- **Alternates**
 - **Libby Decker (Business/Industry)**
Terracon
 - **Paola Belloni (Business/Industry)**
Terracon
 - **Tom Douglas (Public) Houston**
Canoe Club



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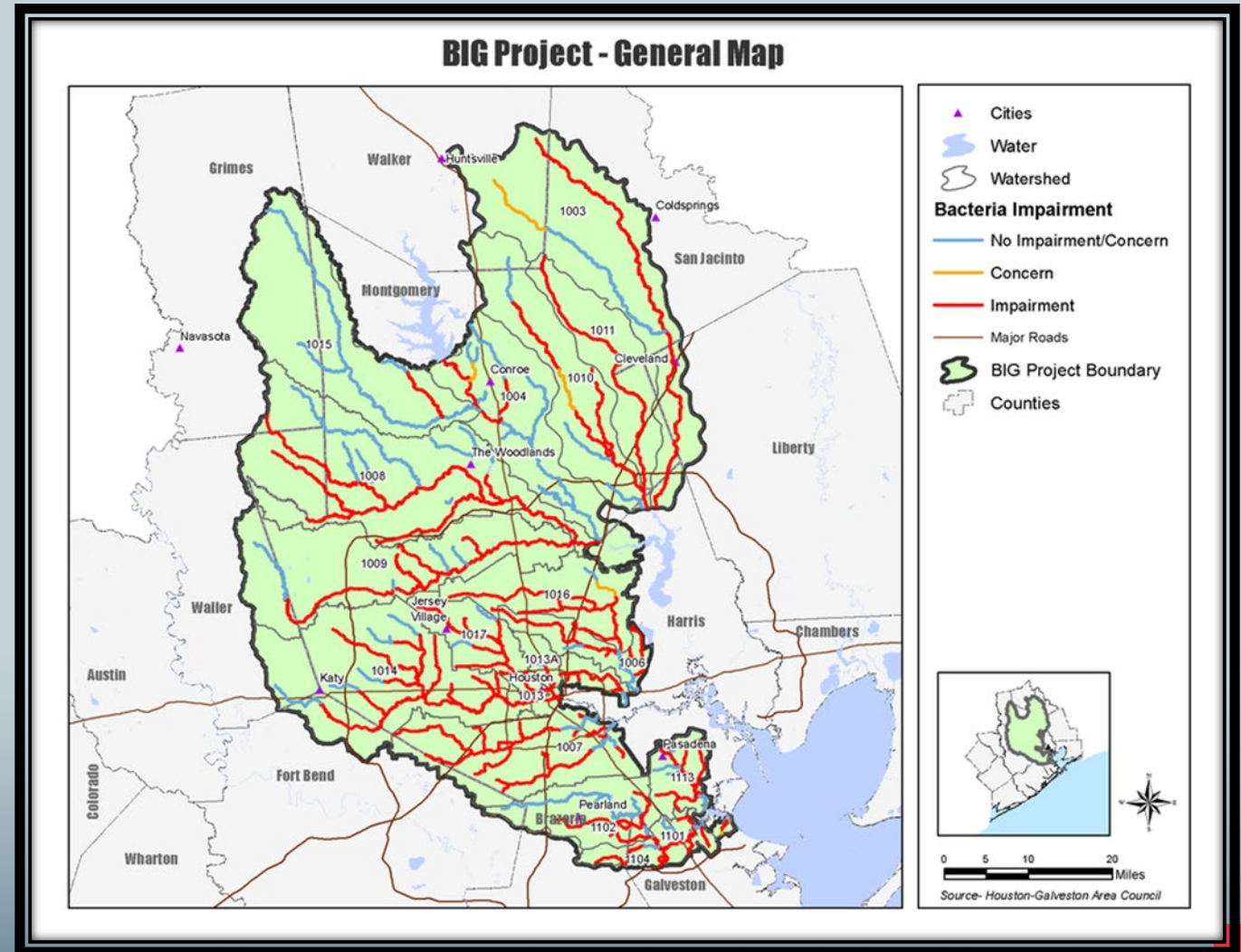
For Total Maximum Daily Loads for Bacteria
in the Houston-Galveston Region

I-Plan Update



I-Plan Format

- Essentially the same
- Strategy Summary
- Activity
 - Action
 - Background
 - Metric
 - Milestone
 - Monitoring



Document Editing

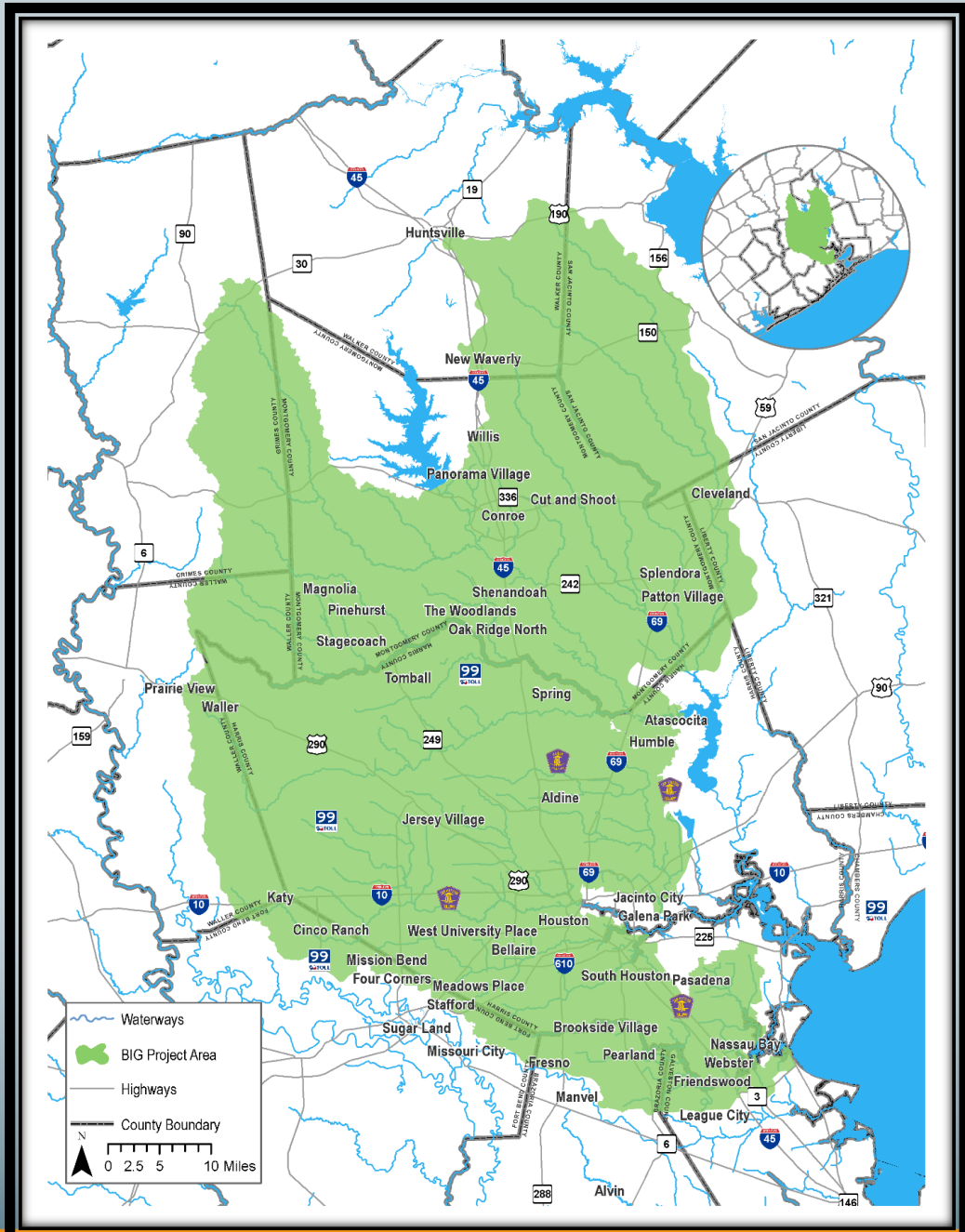


Form an editing and content team:

- 5-10 volunteers
- Review sections of the document
- Revise content as needed
- Revise format as needed
- Report work to Coordination and Policy

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2023 Annual Report – Where we Stand

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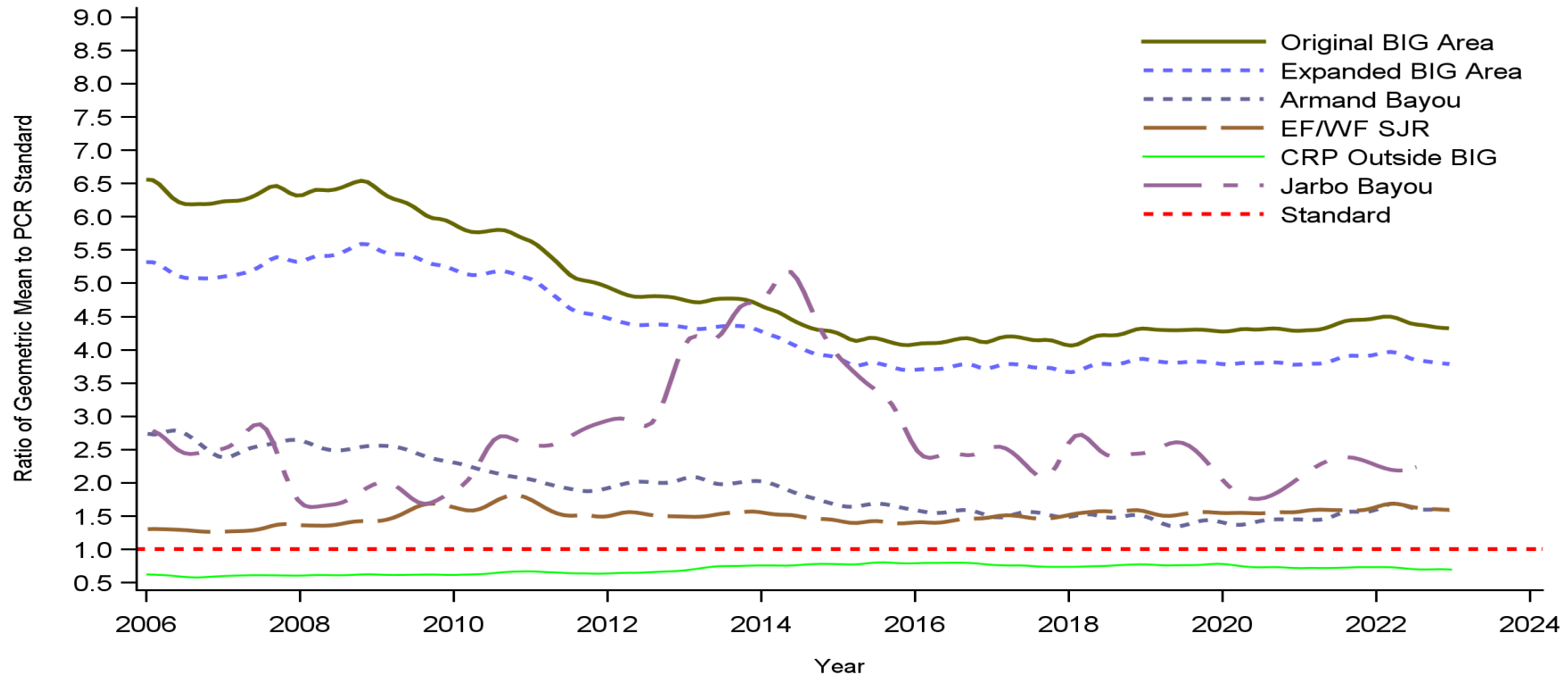
2022 ANNUAL REPORT

JANUARY 1, 2021–DECEMBER 31, 2021



Bacteria Reduction Trend

Moving Seven-Year Geometric Mean- BIG Project Area
All Areas, Original BIG Area, Armand Bayou, Jarbo Bayou, and East Fork / West Fork SJR
Additions
Expressed as Multiple of Primary Contact Recreation Standard



Reference Line represents the Primary Contact Recreation Standard
Stations outside BIG area include basins 9,10,11,24 Only

WWTF Discharge Monitoring Report Compliance 2022

Type	Number
Permittees in TCEQ Outfall Layer	690
Permittees in EPA Registry	688
Permittees Submitting DMR Data (any type)	552
Permittees Submitting DMR Bacteria Data	537



Variable	Geometric Mean	Daily Maximum or Grab Sample
Total Results Reported	5301	5421
Total Exceeding Limit	17	133
Percent Exceedance	0.320694	2.453422

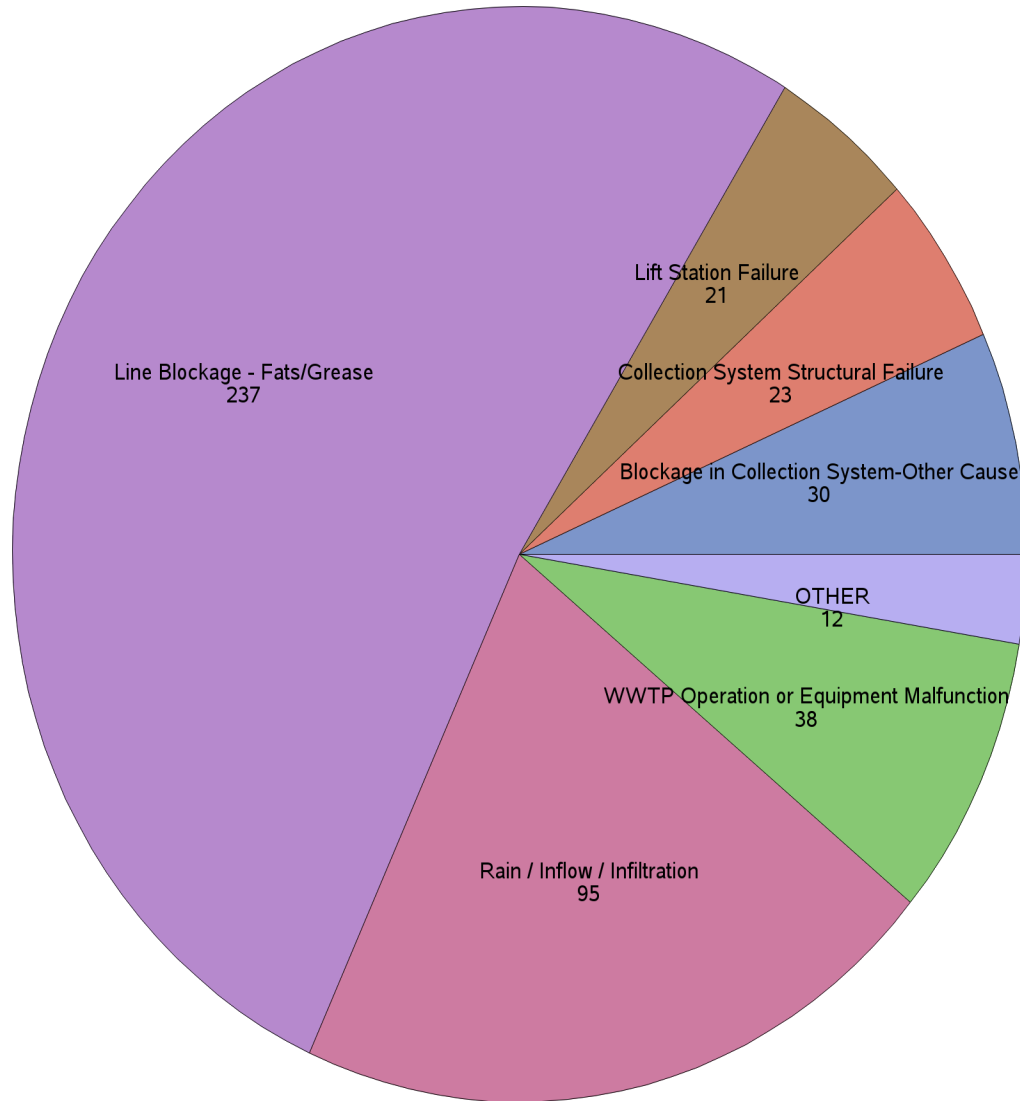


Relative Plant size	Number WWTFs	Geometric Mean	Daily Maximum or Grab Sample
0.1-0.5 MGD	136	0.5	1.4
0.5-1 MGD	107	0.2	2.6
1-5 MGD	93	0.1	3.5
5-10 MGD	16	.	2.6
< 0.1 MGD	155	0.6	1.4
> 10 MGD	11	.	11.5
Variable/Intermittent Discharge	35	0.3	1.8

H-GAC Service Area WWTF Discharge Monitoring Report vs. Harris County Pollution Control Inspection Data 2022

Relative Plant Size	DMR Grab/Max Sample Results	Percentage Exceeding Limit	Percent in Compliance	HCPC Inspection Samples	HCPC Inspection Daily Max PCT Exceedance	Percent Compliance, HCPC Samples
Variable/Intermittent Discharge	301	1.0	99.0	27	7.4	92.6
< 0.1 MGD	570	0.9	99.1	126	11.9	88.1
0.1-0.5 MGD	1,047	1.0	99.0	83	4.8	95.2
0.5-1 MGD	1,019	2.0	98.0	73	4.1	95.9
1-5 MGD	990	3.3	96.7	69	13.0	87.0
5-10 MGD	228	3.1	96.9	18	0.0	100
> 10 MGD	108	13.9	86.1	9	11.1	88.9

Cause of Reported SSOs by Year in Big Project Area, 2022
 Number of Events -Domestic WWTF Only



SSO Reported Cause	Number of Events	Estimated Volume (1000 Gallons)
Blockage in Collection System-Other Cause	30	40.3
Collection System Structural Failure	23	91.4
Equipment Failure	4	20.0
Lift Station Failure	21	81.3
Line Blockage - Fats/Grease	237	327.9
Line Blockage - Rags/Wipes	5	75000.3
Power Failure	1	2.4
Rain / Inflow / Infiltration	95	357.3
Unknown Cause	2	0.5
WWTP Operation or Equipment Malfunction	38	106.7

Additional Data Needs

- Identify Success Stories
- Programmatic Data to document progress

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BACTERIA IMPLEMENTATION GROUP

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JANUARY 1, 2021–DECEMBER 31, 2021



2023 Annual Report Timeline



- Work groups meet

- Draft document, solicit further data

- Coordination and Policy

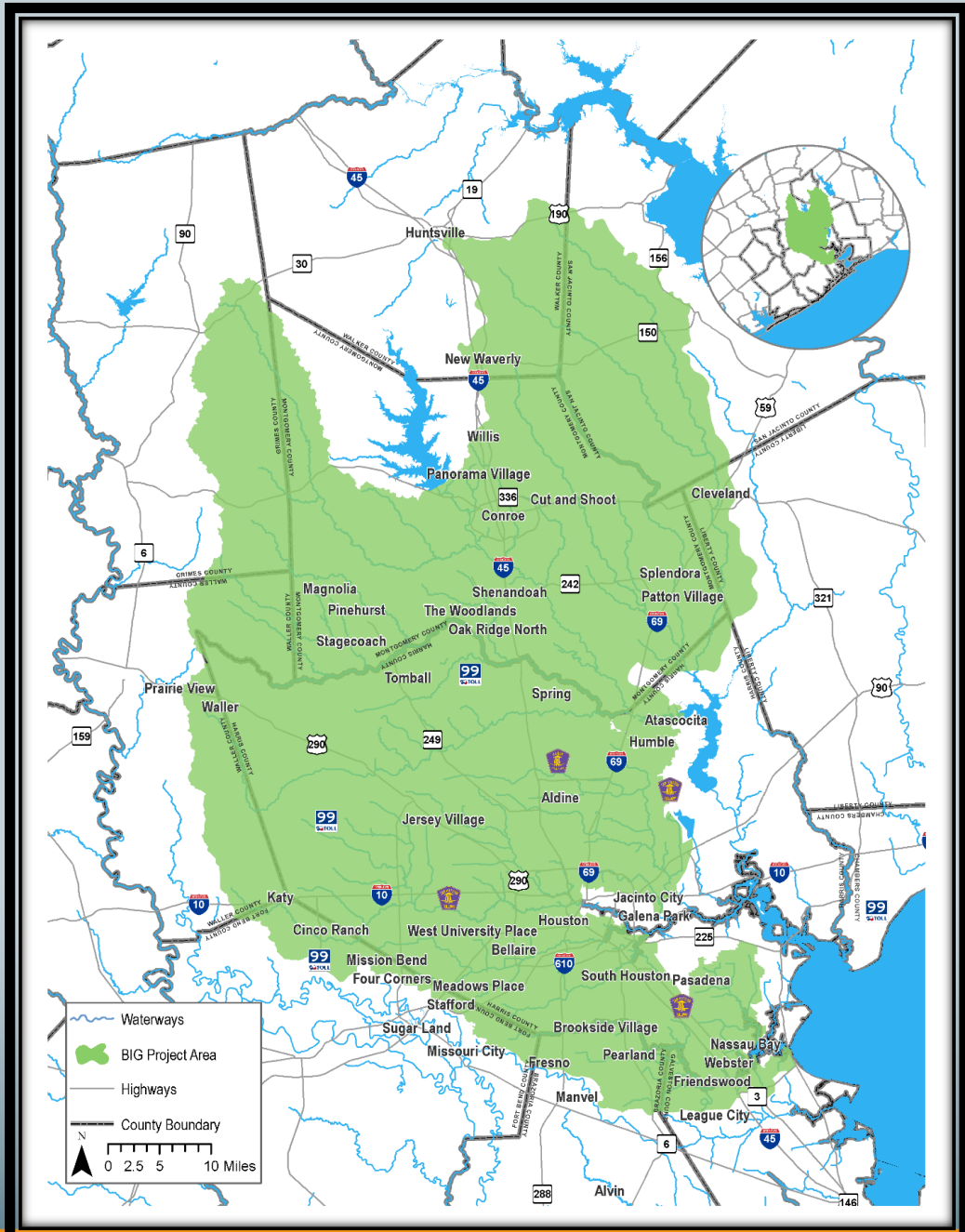
- Revise and edit

- Coordination and Policy

- BIG Spring Meeting

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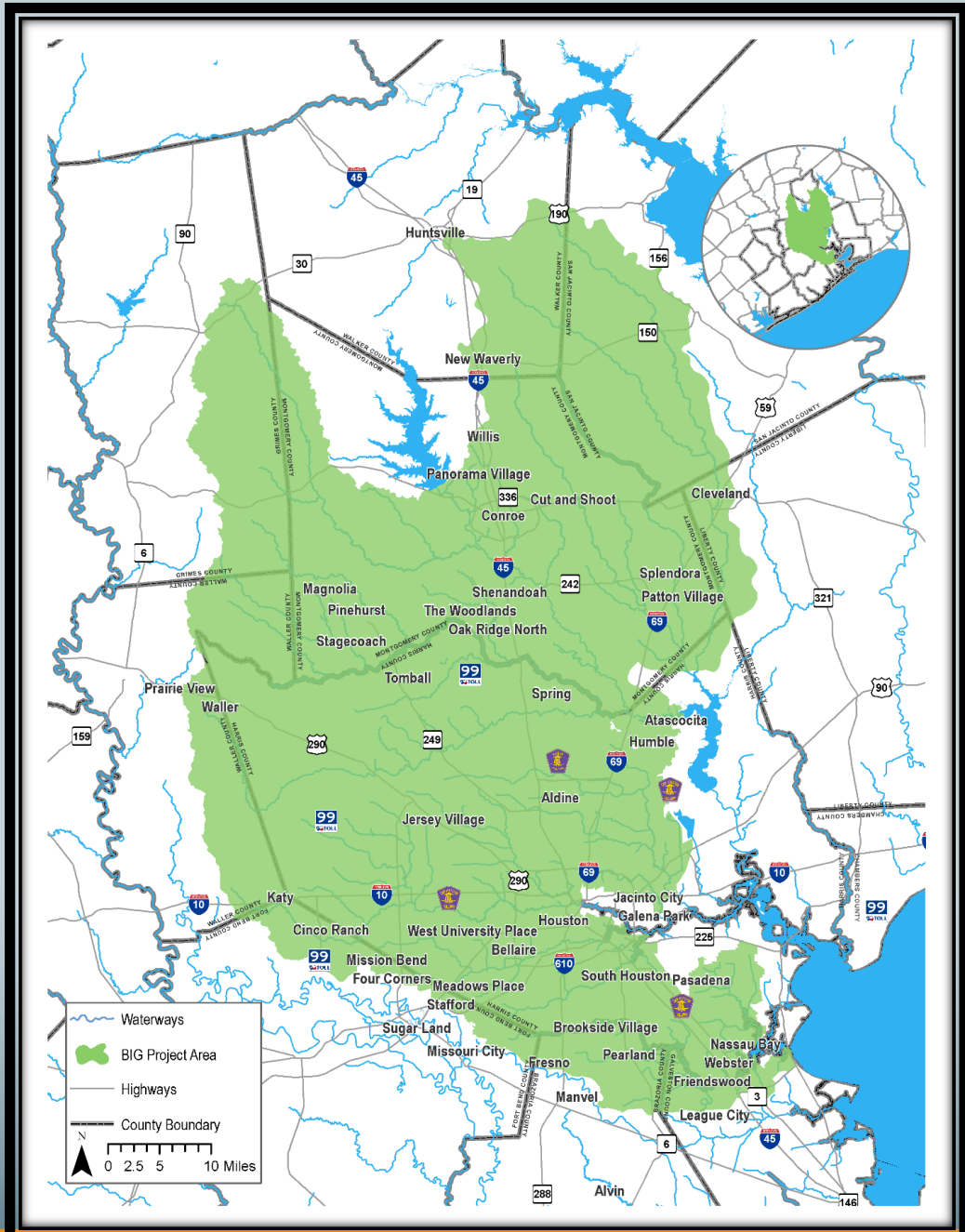
TMDL Updates

– Ms. Daniela Mejia, TCEQ
TMDL Program

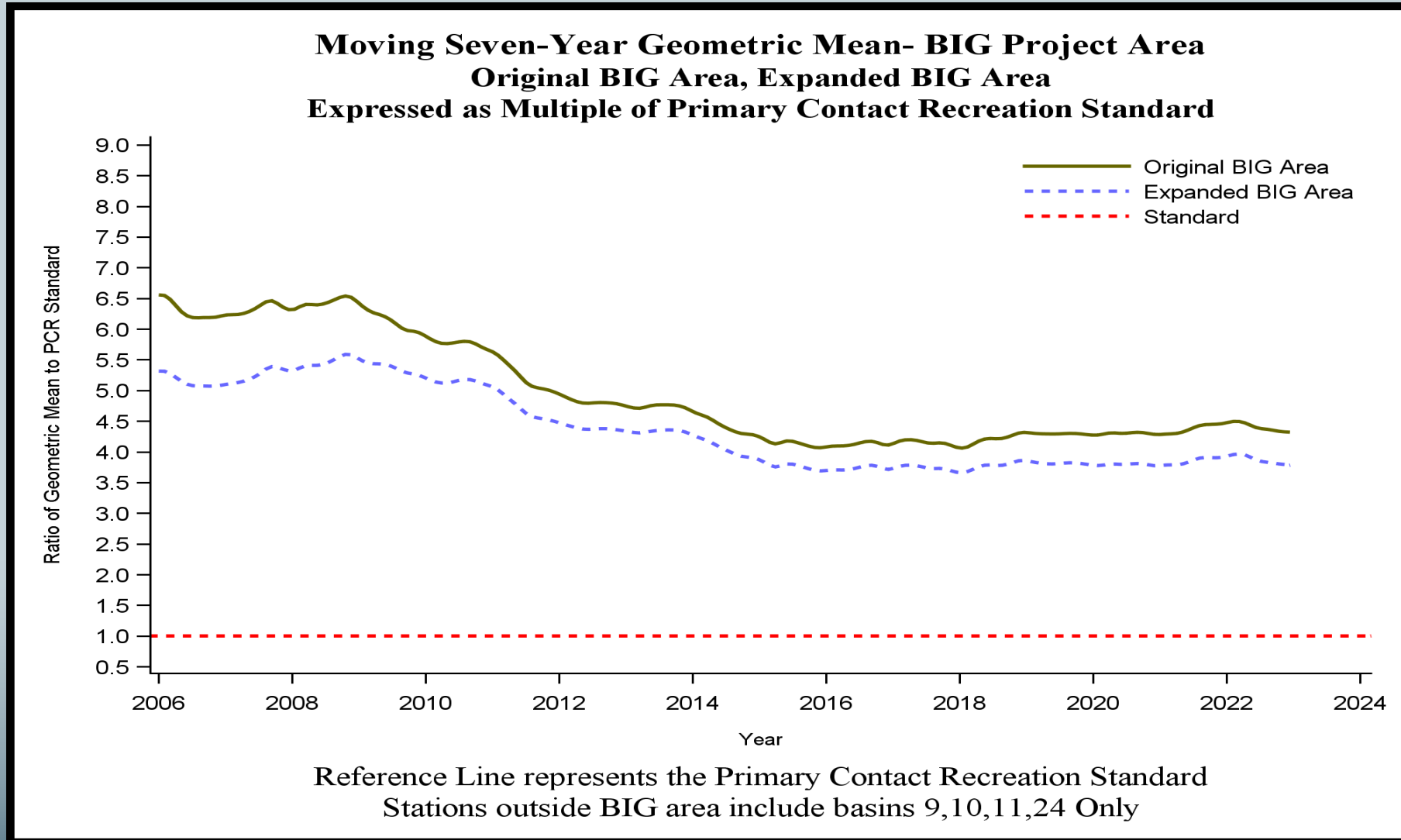


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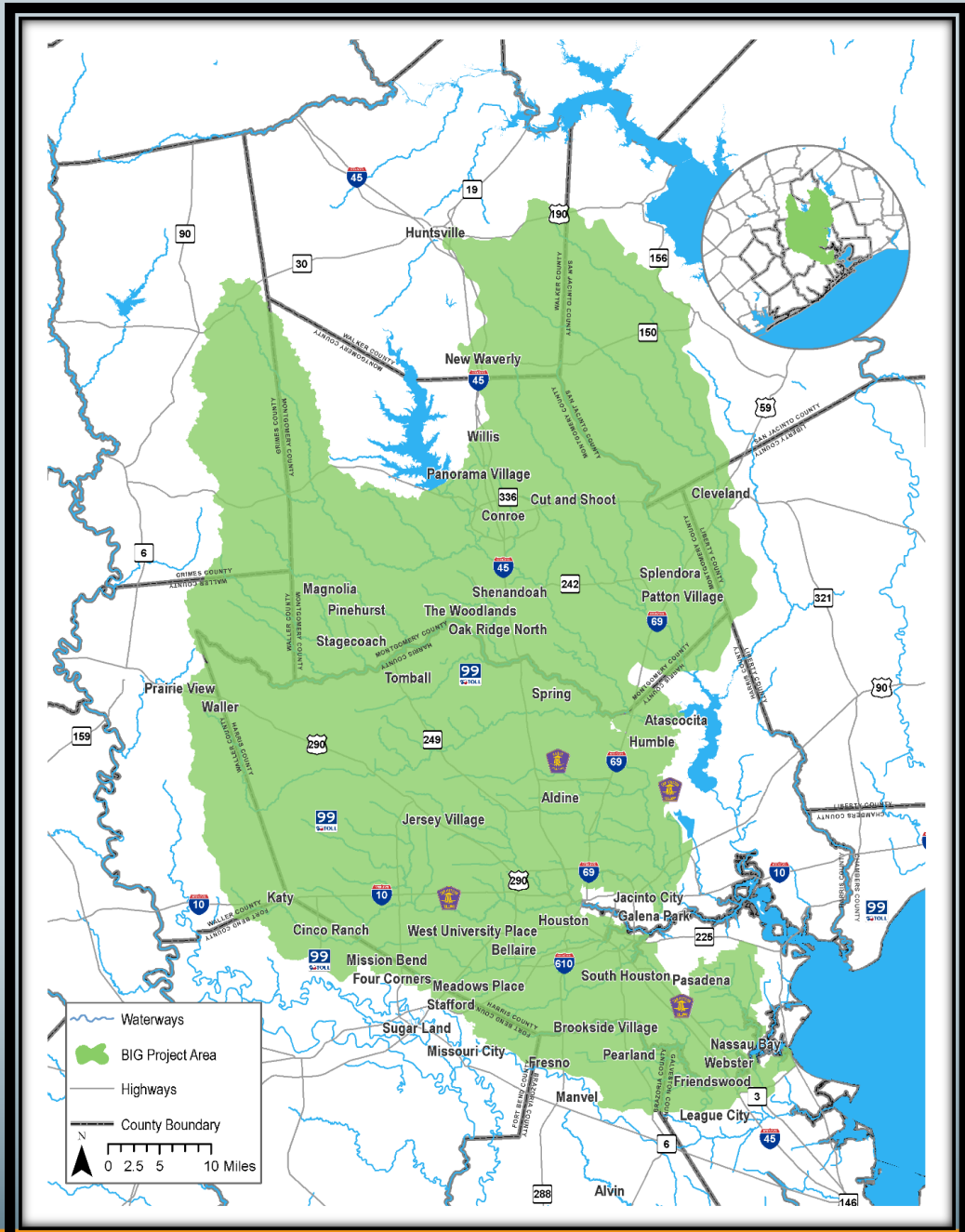


REFLECTONS ON FECAL INDICATORS



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Presentations – H-GAC

- FY 22-23 CRP/TMDL Targeted Monitoring – Mr. Elling Mann
- FY 22-23 GBEP Targeted Monitoring – Ms. Kendall Guidroz
- Watershed Protection Planning and Implementation – Ms. Rachel Windham



Upcoming Meetings and Events

- December 12th- CRP Regional Monitoring Workgroup Teams Meeting
- February 9th – Parks and Natural Areas Awards Ceremony
- February 26th– Big Creek TMDL Public Meeting, Richmond
- February 27th – Oyster Creek TMDL Public Meeting, Lake Jackson
- March 23rd – 30th Anniversary Rivers, Lakes, Bays TrashBash[®]
- May 21st - BIG Spring Meeting



ADJOURN

- **Steven Johnston**
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- 281-681-2579

