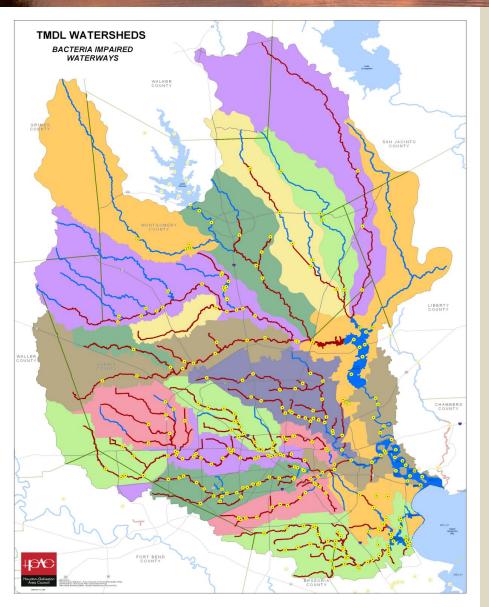
BIG ANNUAL MEETING



Steven Johnston, Houston-Galveston Area Council 6/22/15





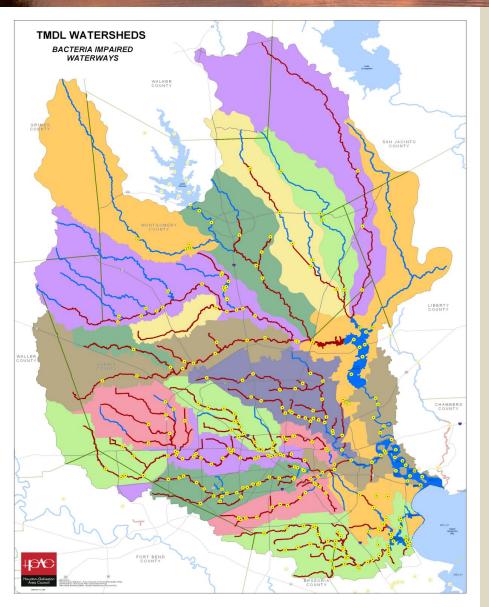
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ROSTER DISCUSSION

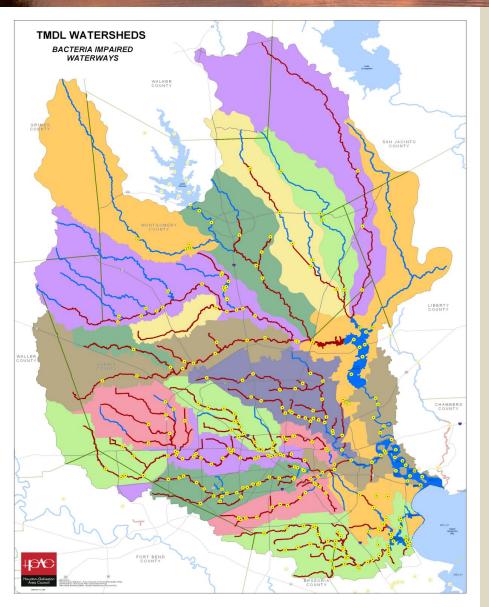
BIG Members

- David Parkhill SJRA
- Greg Hall City of Conroe
- Phyllis Frank GCWA
- **BIG Alternates**
 - Jody Hooks
- Consideration of Agriculture / Business Representative Category

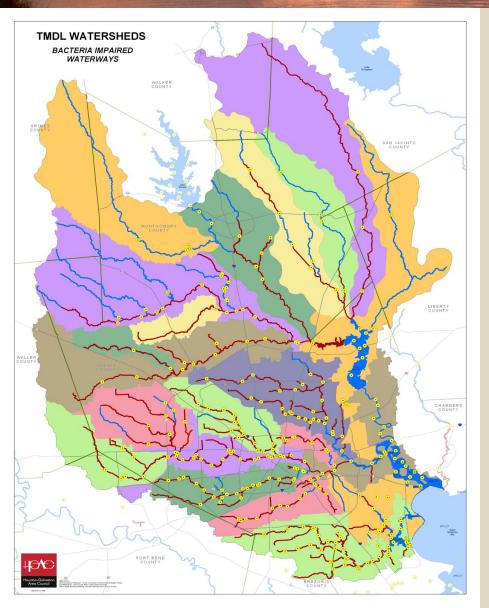




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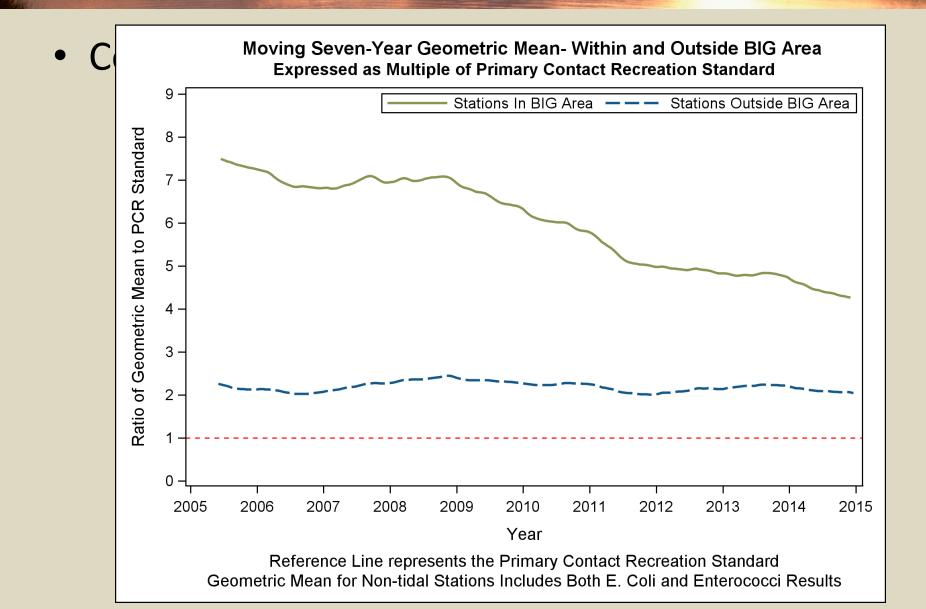
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2015 Draft Annual Report

- What is Left To Do:
 - Challenge with WWTF
 DRM data
 - Suggestions for Success
 Stories
 - Photos?
 - BIG and stakeholder review
 - Finalizing the Document



ANNUAL REPORT HIGHLIGHTS



ANNUAL REPORT SPOTLIGHT ON

SUCCESS

- Walker County OSSF
- Low Impact
 Development
 Website
- White Oak Bayou in Focus
- TCEQ WWTF Study
- Others?



ANNUAL REPORT HIGHLIGHTS

1.0 Waste Water Treatment Facilities:

- 1. DMR Data (See Tables and Figures Handout)
- 2. Harris County provided compliance data
- 3. New TCEQ Enforcement Data
- 4. New Plant Upgrade Data

2.0 Sanitary Sewer Systems:

- 1. New SSO Data
- 2. Stakeholder are tracking TCEQ 217 Permit/Design Processes
- Ongoing Education Asset management, FOG





ENFORCEMENT, VIOLATIONS AND WWTF PLANS APPLICATIONS

Enforcement Cases for the BIG Project Area 2009-2014						
Year	Number of Enforcement Cases		Final Payable Fine			
2009	9	\$81,770	\$64,219	\$10,000		
2010	32	\$267,177	\$218,789	\$20,282		
2011	30	\$491,027	\$357,561	\$80,821		
2012	24	\$238,672	\$211,074	\$0		
2013	24	\$385,413	\$315,678	\$31,389		
2014	5	\$50,155	\$29,299	\$10,000		

Table 3. TCEQ enforceable cases, including original assessed fine, final payable fine and any SEP offset for in the BIG Project Area from 2009-2014. Data provided by TCEQ. There can be multiple violations per case.

	Track Approval of Wastewater System Plans and Specifications Applications											
	Jan 1, 2013 to Jan 1, 2015											
	Application Type	Harı	ris	Galve	eston	Braz	oria	Fort	Bend	Montg	omery	Total
4		2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	
	Improvements	12	14	0	1	1	0	1	0	1	3	33
	Rehabilitation	13	13	1	0	0	0	0	0	0	5	32
,	Reuse/Reclaim	2	1	0	0	0	0	0	1	2	1	7
	Expansions	6	6	0	0	0	0	C	1	0	1	14
	Modifications	2	4	0	0	0	0	C	1	0	C	7
	Upgrade	1	2	0	0	0	0	2	0	0	1	6
	Generator	1	2	0	0	0	0	0	0	0	1	4
	Total	37	42	1	1	1	0	3	3	3	12	103

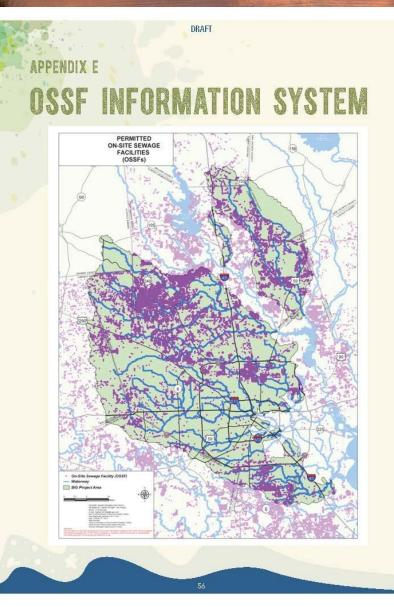
Table 6. Wastewater system plans and specification applications submitted to the TCEQ per year by county. Application approvals can be reviewed at: http://www4.tceg.state.tx.us/wwdp/.

Violations in the BIG Project Area					
Violation Type	2013	2014			
Exceeded Effluent Limits	19	4			
No Permit or Permit Expired	4	1			
Other	1				
Unauthorized Discharge	3				
Table X. Violation type and number from TCEQ enforceable cases from 2009-2014. Enforcement cases can be made up of multiple violations. Data provided by the TCEQ.					

SSOs in BIG Area, Events and Estimated Volume - 2014

Cause	Number of Events	Estimated Overflow Gallons	v, 1000	
Blockage Due To Roots/Rags/Debris	13	7.063		
Blockage in Collection System Due To Fats/Grease	310	329.539		
Blockage in Collection System-Other Cause	215	214.118		
Collection System Structural Failure	16	104.251		
Human Error	2	1.05		SSO Events and Estimated Volume - Percent of Total by Cause
Lift Station Failure	50	253.653	50 - 47.5	Events and Estimated Volume - Percent of Total by Cause
Power Failure	7	210.85	40 -	Volume 37.5
Rain / Inflow / Infiltration	24	104.695	-	31.6
Unknown Cause	14	6.506	- 30 -	
WWTP Operation or Equipment Malfunction	29	400.68	20 -	13.1
Total	680	1632.405		
Table 8. The number and volume of SSOs reported to the TCEQ in 2014			0	x \$ Co, 14, 1/3 \$, 1/4
				Cockede

ANNUAL REPORT HIGHLIGHTS



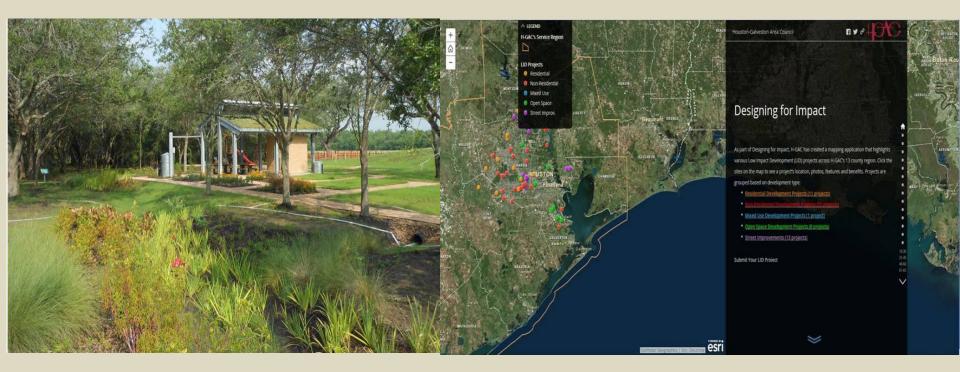
<u>3.0 OSSF</u>:

- 1. Updated OSSF Locations
- 2. Establishing Target Areas
- 3. Approved SEP for OSSF Repair or Replacement No Funding!
- 4. Education and Training Homeowners, Real Estate Agents, Waste Professionals

4.0 Stormwater Systems:

- MS4 Operator Questionnaire 121 small MS4 Operators – 17 responses (so far!)
- 2. LID Project Gulf of Mexico Program
- 3. Education and Training
- 4. Recognition Program Report Wall of Fame
- 5. Reimbursement for BMPs





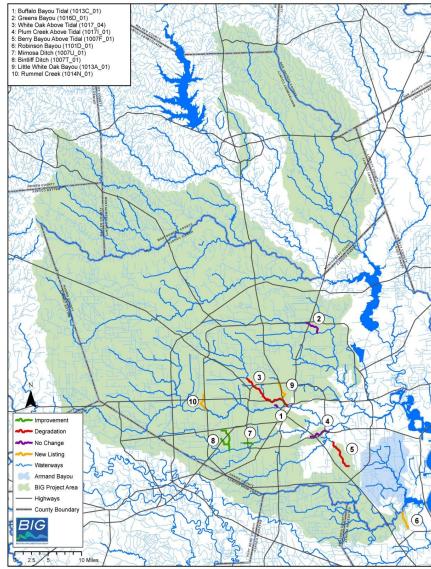
- LID Resource Website
 - <u>http://www.h-gac.com/community/low-impact-development/default.aspx</u>

ANNUAL REPORT HIGHLIGHTS

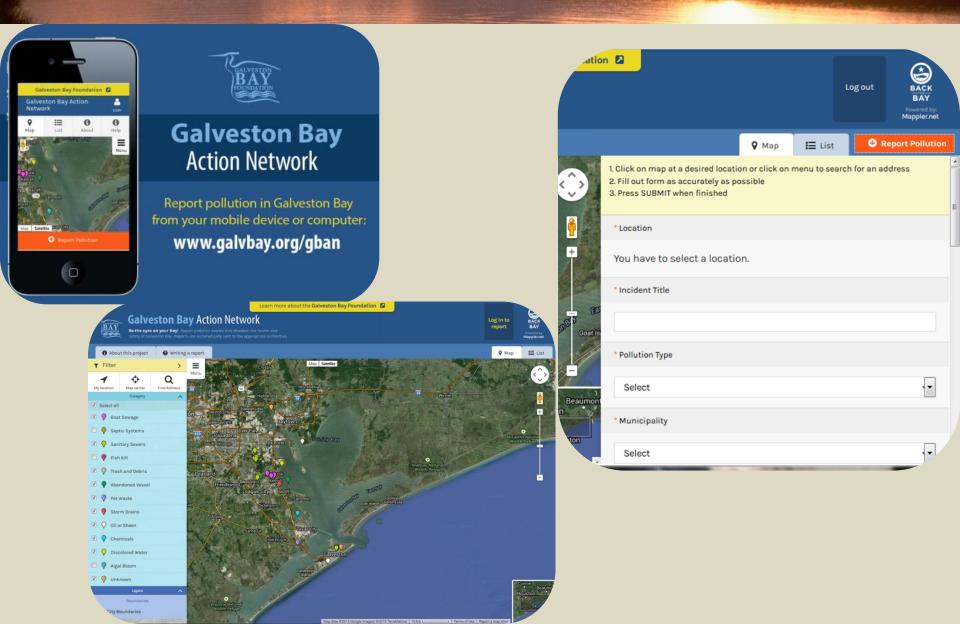
5.0 Construction:

- 1. MS4 report conducting inspections
- 2. Harris County and City of Houston Compliance Reporting
- 3. Improved Compliance through Training during Inspections
- 4. Education
- 6.0 Illicit Discharges and Dumping:
- Illicit Discharge Implementation BPA, City of Houston
- 2. Many MS4 have regulatory mechanisms and detection programs
- 3. Public Reporting <u>www.CleanBayous.org</u> and <u>www.galvbay.org/gban</u>
- 4. Education

TEN STREAMS "MOST WANTED"



ONLINE REPORTING



ANNUAL REPORT HIGHLIGHTS

7.0 Animals and Agriculture:

- 1. Outreach and Education
- 2. Feral Hog Removal Harris County
- 3. AgriLife Extension Online Hog Resource Website

8.0 Residential:

- 1. Pet Waste and FOG Education
- 2. Online Resources:

Cease the Grease - <u>http://galvbay.org/ceasethegrease/;</u>
Back the Bay - <u>http://www.backthebay.org/;</u>
Pet Waste - <u>http://www.h-gac.com/pet-waste/default.aspx</u>
Clean Water Clear Choice - <u>http://www.cleanwaterways.org/</u>

- 3. Training:
 - MS4s
 - OSSFs
 - EARs
 - Rain Barrel Workshops
 - Texas Stream Team

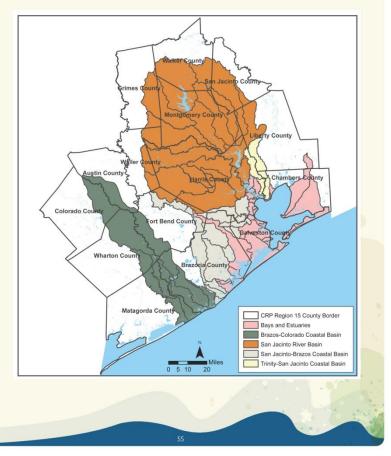




ANNUAL REPORT HIGHLIGHTS

APPENDIX D H-GAC CRP REGION

DRAFT



9.0 Monitoring:

- 1. CRP Continues Basin Highlights Report
- 2. Regional BMP Database
- 3. BIG Demonstration Database
- 4. BMP Effectiveness Monitoring
- 5. Annual Report and Assessment

10.0 Research:

- 1. BMP Effectiveness Monitoring
- 2. City of Houston Special Studies

CRP Monitoring

CRP Monitoring in the BIG Project Area

Organizations	Number of Stations in Initial BIG Project Area	Number of Stations in Armand Watershed		
TCEQ	10			
Environmental Institute of Houston	10	4		
Harris County Pollution Control	1	1		
Houston Health and Human Services	111	6		
Houston Water Quality Control	7			
San Jacinto River Authority	9			
Houston - Galveston Area Council	14			
Total	162	11		

CRP Stations Where Contact Recreation was Observed or Inferred 2012-2014					
Year	CRP Sites Recording Observed or Inferred Contact Recreation	Observed Recreators			
2012	16	17			
2013	25	87			
2014	17	24			

Table X. For the years 2012-2014, CRP partners have recorded evidence of contact recreation, either directly observed or inferred from the evidence. If observed, CRP monitors document the number of individuals recreating at the time.

ANNUAL REPORT HIGHLIGHTS

11.0 Geographic Focus:

- Support Geographic Implementation Focus – BPA and City of Houston
- Updated "Most Wanted" and "Most Likely to Succeed"
- H-GAC sought funding to implement illicit bacteria sources using "Most Wanted" and "Most Likely to Succeed" lists.

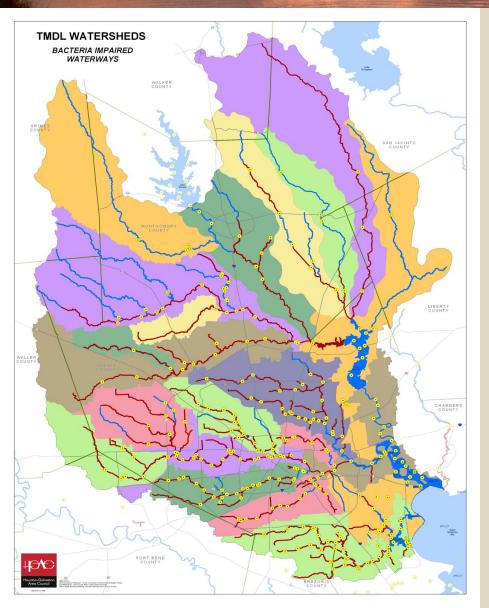
: Buffalo Bayou Tidal (1013C_01) : Greens Bayou (1016D_01) 3: White Oak Above Tidal (1017_04) 4: Plum Creek Above Tidal (10171 01) 5: Berry Bayou Above Tidal (1007F 01) 6: Robinson Bayou (1101D 01) Mimosa Ditch (1007U 01) 8: Bintliff Ditch (1007T 01) 9: Little White Oak Bayou (1013A_01) 10: Rummel Creek (1014N 01) 3 Degradation No Change 5 Armand Bayou **BIG Project Are** Highways County Bounda BIG

TEN STREAMS "MOST WANTED"

COMMENTS AND QUESTIONS

- Next Steps:
 - BIG Review
 - Comments in by July 15, 2015.
 - Coordination and Policy Meeting:
 - Set Date
 - Review Final Report
 - Formats Alternatives
 - Funding Alternatives
 - Review H-GAC TMDL Budget



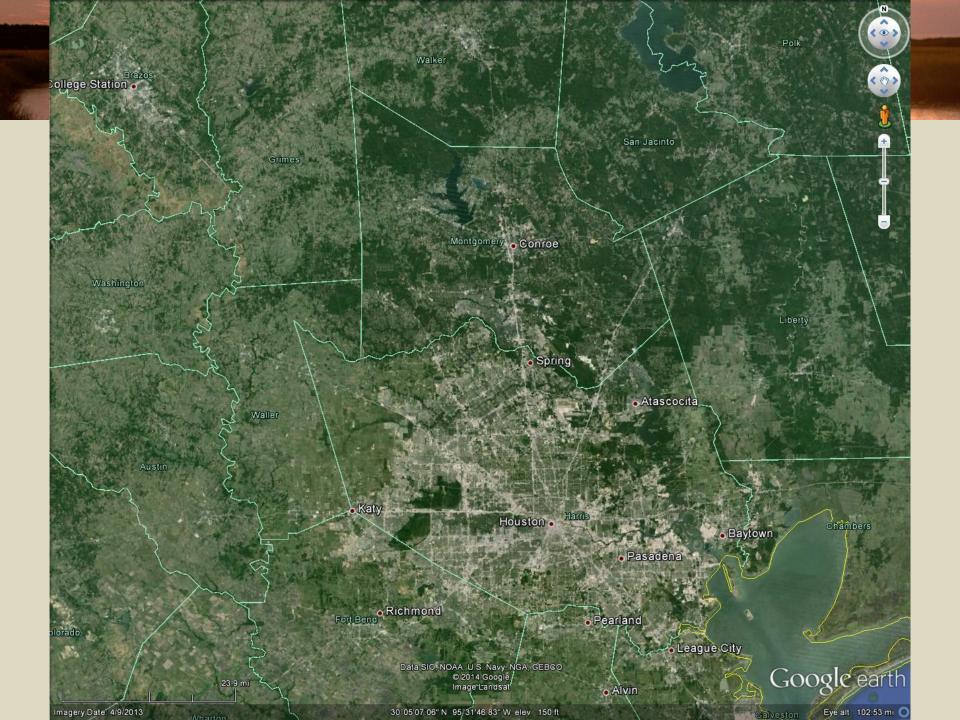


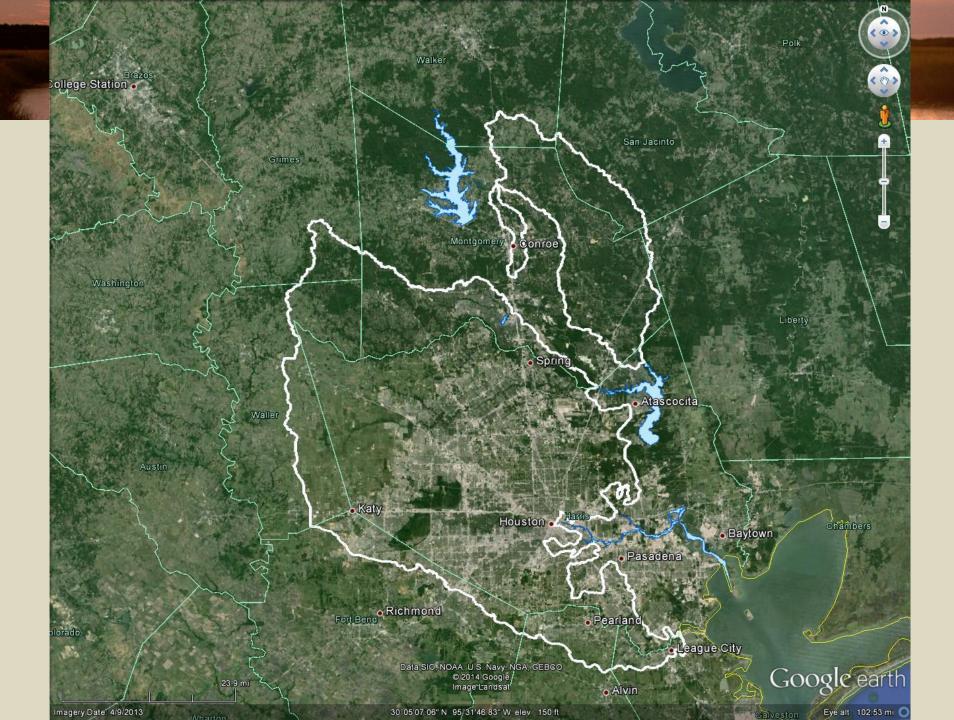
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TMDL Updates

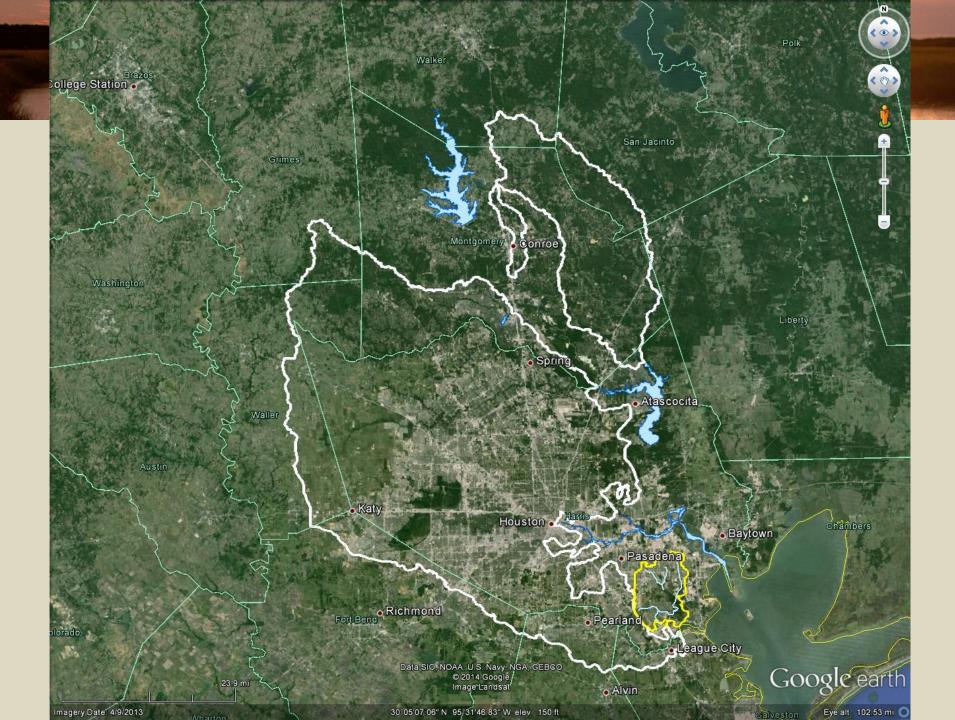
Ron Stein TCEQ TMDL Program June 22, 2015

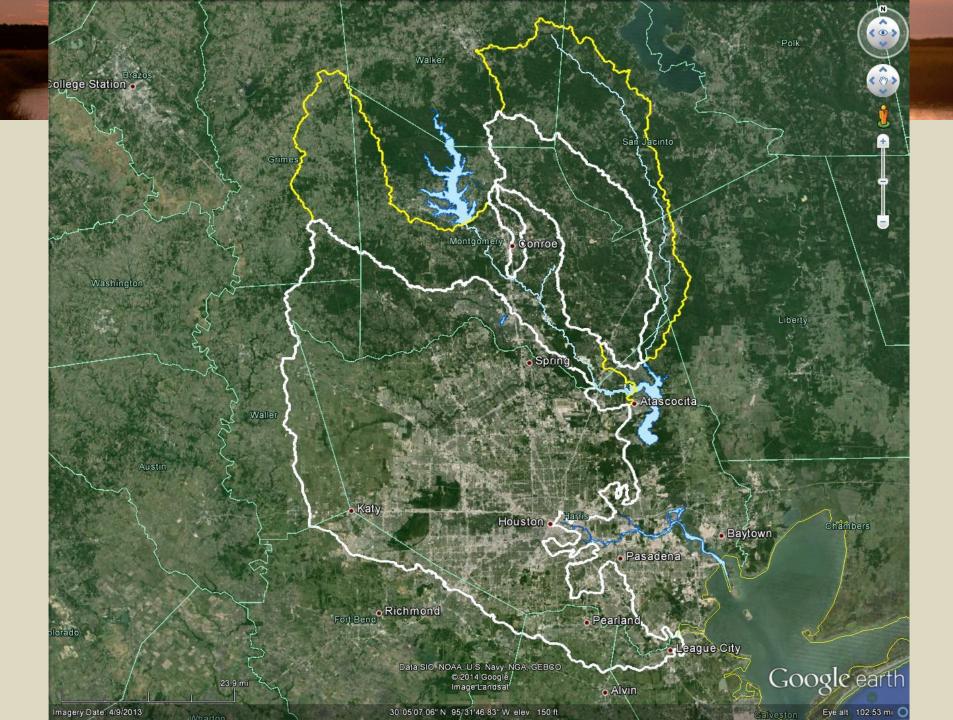


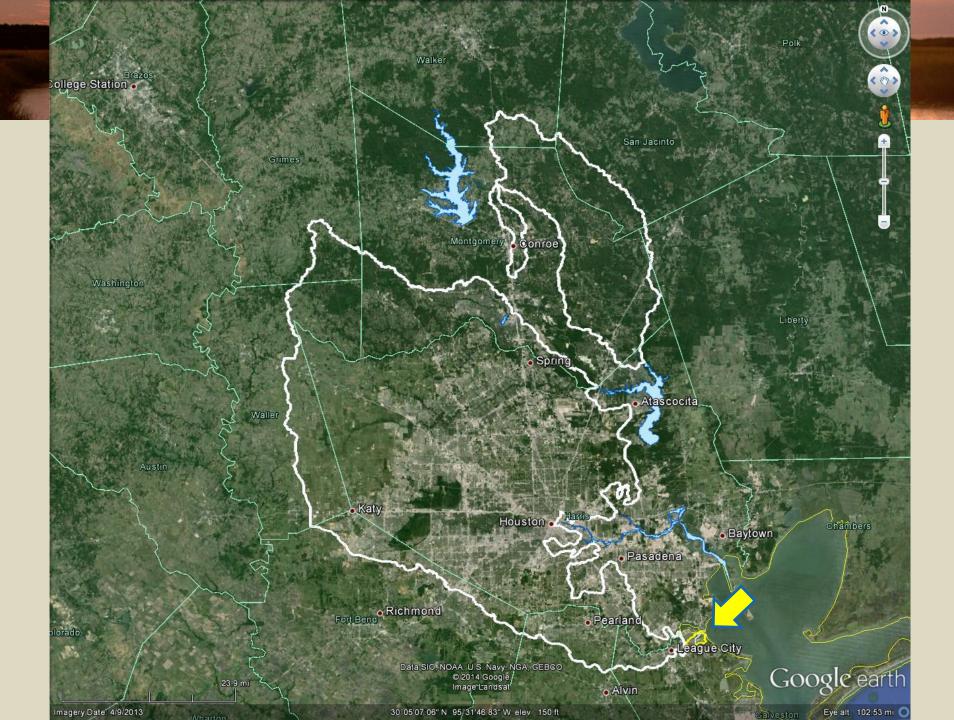












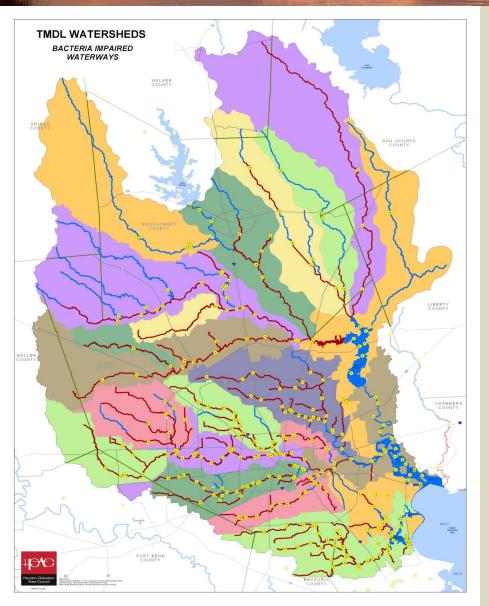
Thank you and Good Bye



Questions?

ron.stein@tceq.texas.gov





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I-Plan Updates – 1st Addendum

Addition of Watershed within BIG Project Area and outside BIG Project Area I-Pan: 9.4.5, pg. 98

• Draft Addendum # 2 changes since May 27, 2014:

Add 1 Segment within the BIG project area –
Rolling Fork Creek (1017F_01) Buffalo and White Oak Bayous.

> www.tceq.texas.gov/assets/public/permitti ng/assess/WQMP/april_15_draft.pdf

•Add 6 Segments Armand Bayou TMDL

•1113 - Armand Bayou Tidal, AU 1113_02
•1113A - Armand Bayou Above Tidal, AU

1113A_01

•1113B - Horsepen Bayou Tidal, AU

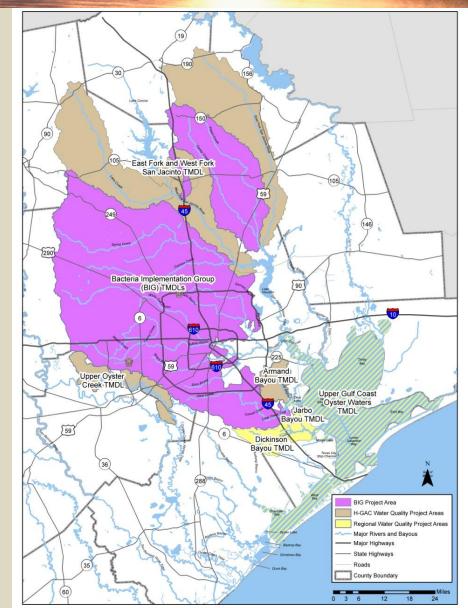
1113B_01

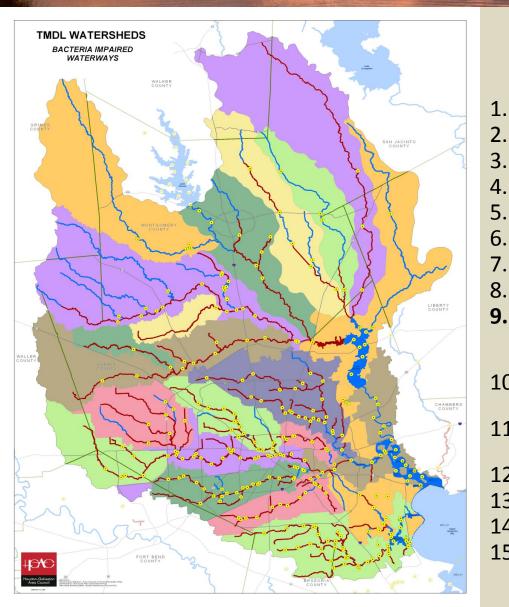
•1113C - Unnamed Tributary to Horsepen Bayou, AU 1113C_01

•1113D -Willow Springs Bayou, AU

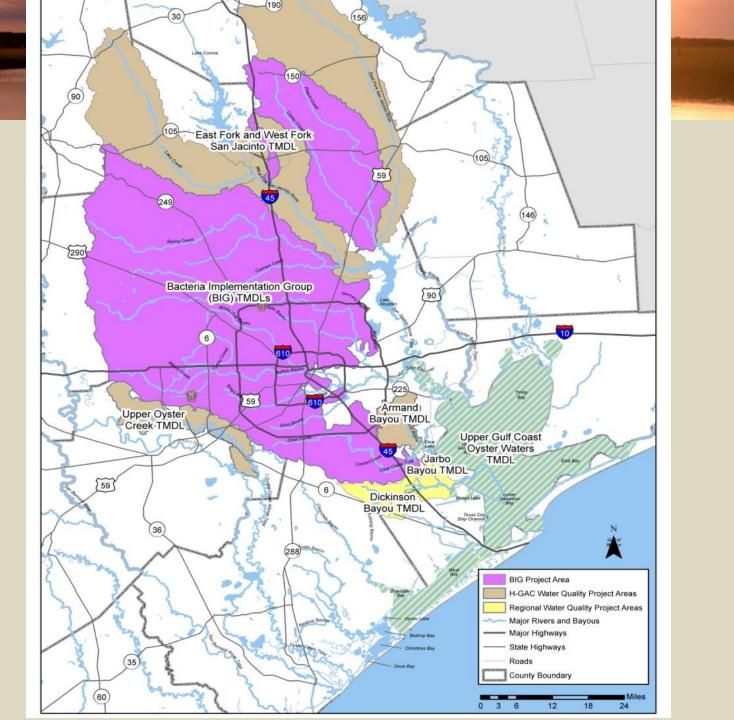
1113D_01

•1113E - Big Island Slough, AU 1113E_01





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Roster Discussion - BIG Seats: (3 Vacancies)

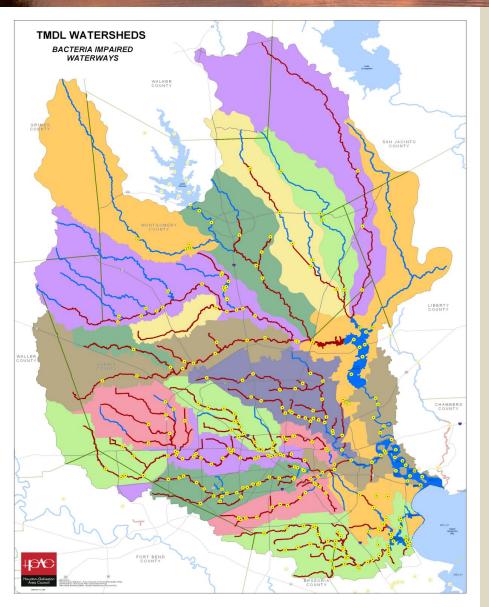
- E&W (4)
 - Counties (1)
 - Ag/Silviculture (2)
 - Small-Med. Rural Cities (1)
 - Conservation/Recreation
 (1) Not necessarily from E&W.
- Jarbo (1)
 - Boaters and Marinas
 - Coastal Watershed Rep.

Other Recommendations:

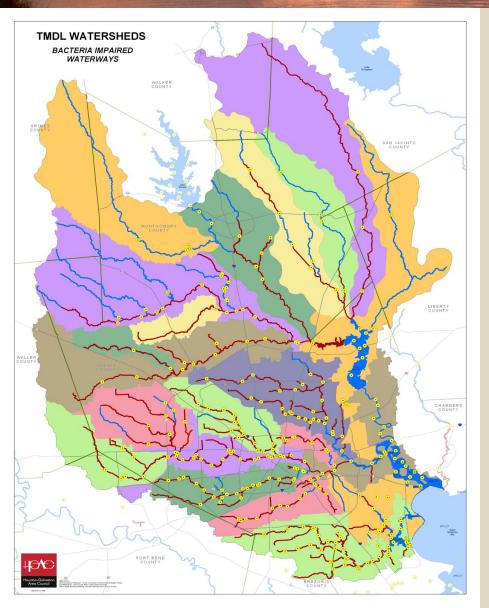
- E&W:
 - Encourage the collection of monitoring data from large undeveloped regions
 - Encourage a broad regional education campaign concerning bacteria sources and BIG
 - Encourage implementation practices that consider current impairment and prevents future impairments
 - Encourage increased enforcement of local environmental laws
 - Maintain Coordination Committee
- Jarbo:
 - Address geographic differences Urban Core, Suburban, and Coastal Workgroups
 - Address Boaters and Marinas in Plan
 - Encourage Broad Regional Education Campaign
 - Maintain Coordination Committee







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2016 Annual Reporting Process

- Create Subject Questionnaires (Summer 2015)
- Workgroup Meetings
 Oct.-Dec. 2015
- BIG Fall Meeting Oct. 2015
- Draft 2015 Annual Report – Jan. – March 2016.



2016 Annual Reporting Process

2016 Focus

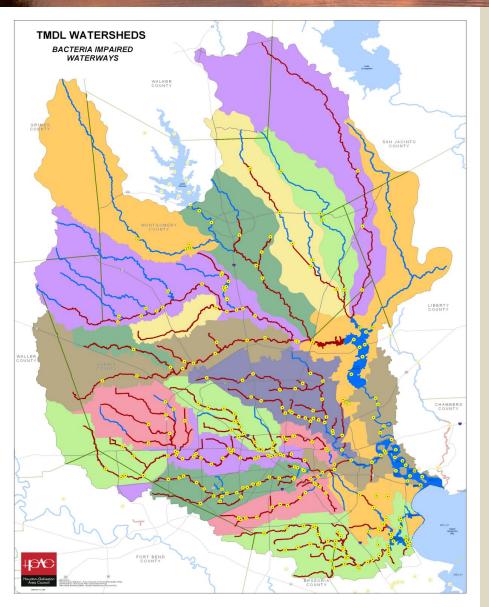
- TCEQ Implementation Letter
- Working Implementation Database
- WWTF Operator Questionnaire
- Follow-up MS4 Questionnaire
- CWI Workshops on I-Plan Subjects
- Others?



2016 Annual Reporting Process

- Implementation Database
 - Track Plan Implementation
 - Based on I-Plan
 - Geographic Data
 - Location of Implementation Activities
 - Reporting via Website
 - I-Plan Reporting of Activities
 - Summary Information and Analysis
 - Generate Reports Watershed-Based
- Database Example





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Other Business/Announcements

- Opportunity for discussion on other items related to the BIG, BIG implementation and announcements:
 - 6/24/2015 Clean Waters
 Initiative Workshop –
 Agriculture Programs and
 Invasive Species: <u>http://www.h-gac.com/community/water/cwi/</u>
 - Trust For Public Lands West
 Fork San Jacinto River
 Greenprint.



NEXT STEPS

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- Comments in by July 15, 2015
- Coordination and Policy Meeting:
 - Set Date
 - Review Final Report
 - Formats Alternatives
 - Funding Alternatives
 - Review H-GAC TMDL Budget
- Next BIG Meeting Oct. 20, 2015



ADJOURN!



Houston-Galveston

Area Council

Steven Johnston

Steven.johnston@h-gac.cor 281-681-2579

