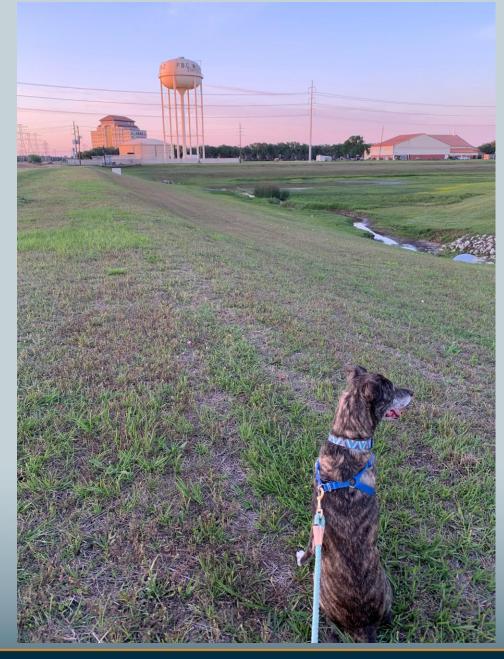


BACTERIA IMPLEMENTATION GROUP

Fall Meeting
December 1, 2020





Online Meeting Tips & Etiquette

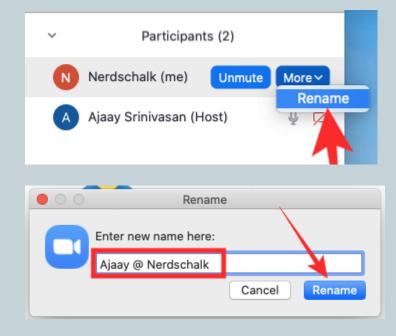
- Mute yourself when not speaking
- Turn off your camera when not presenting
- Mute/unmute and video on/off in lower left corner of the screen
- Chat is on the bottom tool bar





Online Meeting Tips & Etiquette

- To change your name
 - Click on the Participants button
 - Hover over your name on the right side and click "More" the "Rename"
 - Enter the name you'd like to appear in the meeting and click "Ok"

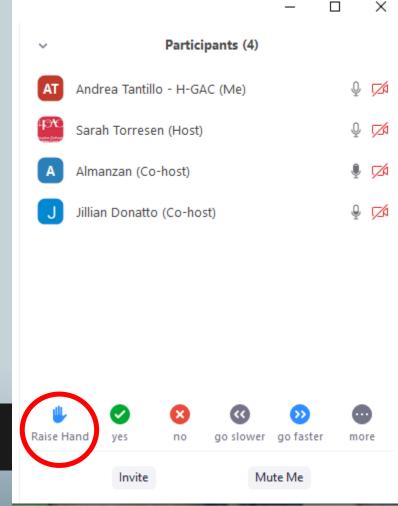






Online Meeting Tips & Etiquette

- To raise your hand or answer questions
 - Click on the Participants button
 - Access those controls below the participants list

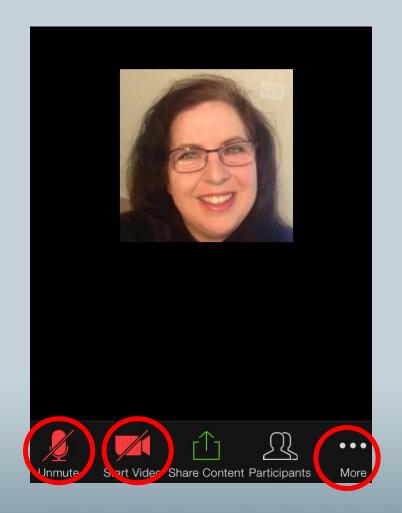


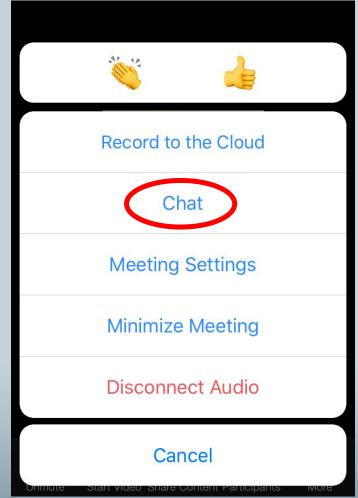




I-Phone Tools

- Mute yourself when not speaking
- Mute/unmute and video on/off in lower left corner of the screen
- Access chat using the 3 dots at the bottom of the screen



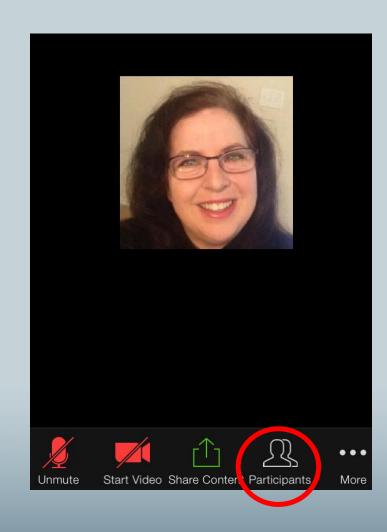


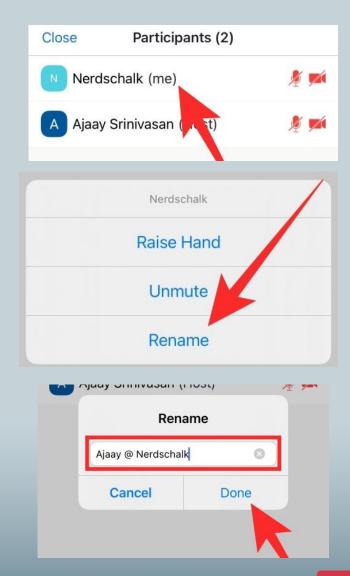


I-Phone Tools

Change Your Name

- Participants Button
- Click on your name
- Click on "Rename"
- Change to the name you want to appear on Zoom
- Click "Done"

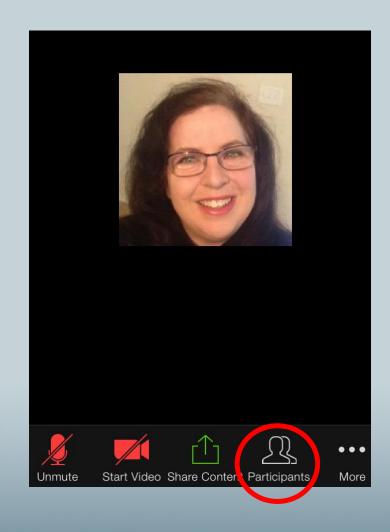


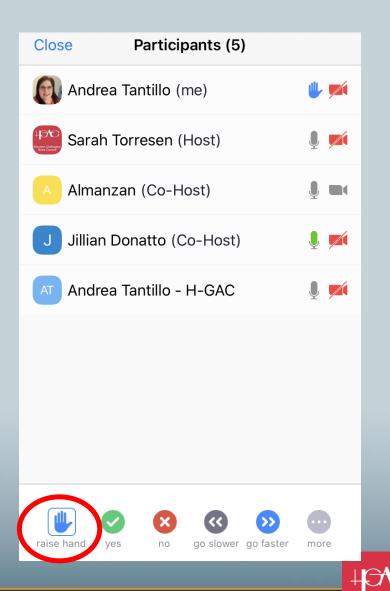




I-Phone Tools

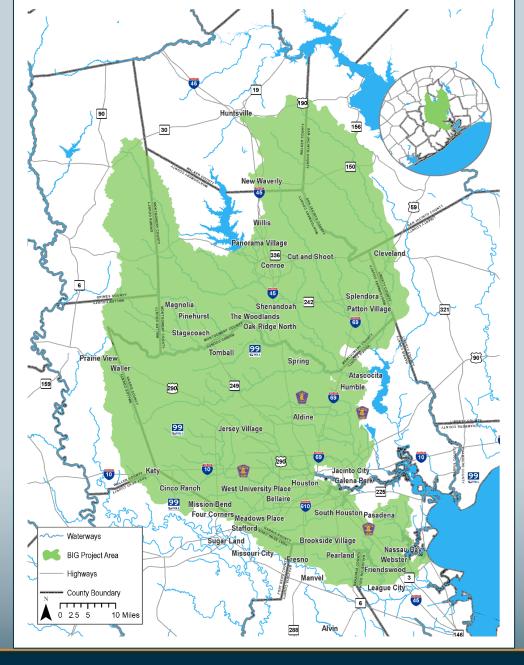
- Raise Your Hand
 - Participants Button
 - Controls Below List





AGENDA

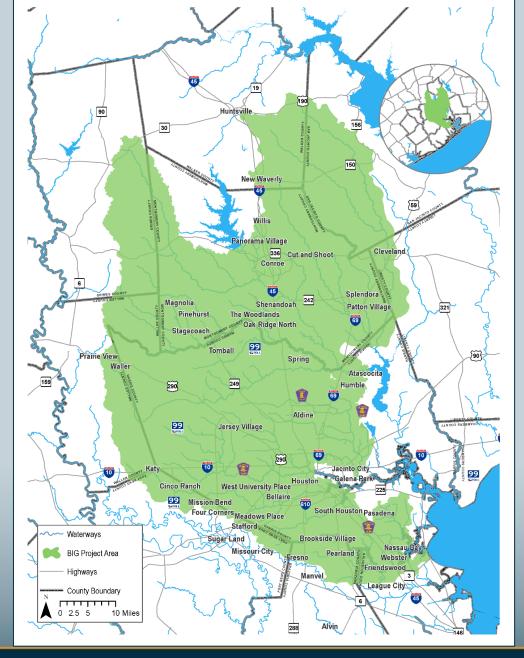
- Call to Order/Introductions
- Quorum Certification
- Review and Approve Changes to the BIG Roster
- Review and Approve Minutes
- Public Comment
- Item One: I-Plan Revision Update
- Item Two: 2020 Annual Report
- Item Three: TMDL Program Update
- Item Four: Implementation Project
 - **Presentations**
- Item Five: Other Business
- Adjourn





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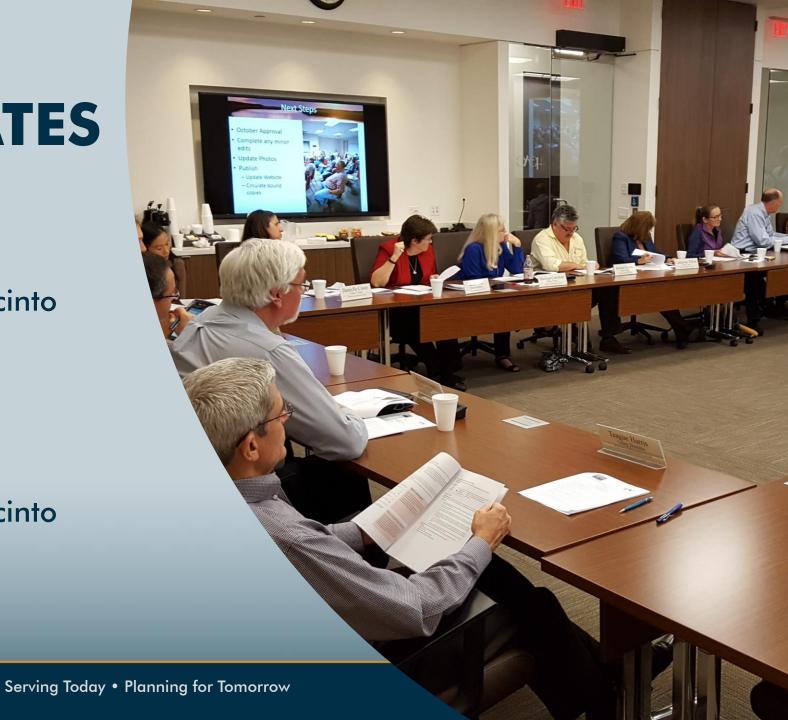




ROSTER UPDATES

- BIG Membership
 - Shane Simpson
 (Business/Industry) San Jacinto
 River Authority

- Alternates
 - Aaron Schindewolf
 (Business/Industry) San Jacinto
 River Authority



AGENDA

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Item One: I-Plan Revision Update

Item Two: 2020 Annual Report

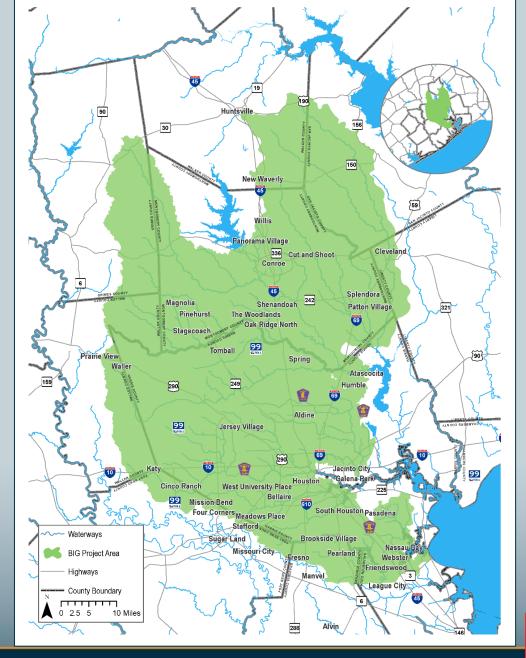
Item Three: TMDL Program Update

Item Four: Implementation Project

Presentations

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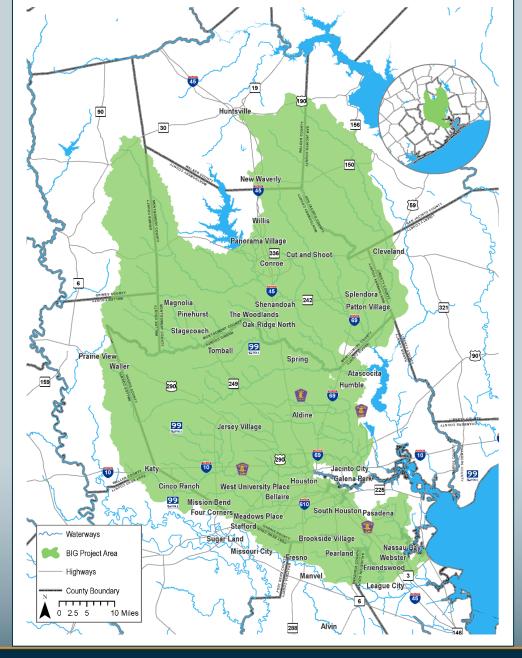
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I-Plan Revision Update

- Work Group Review
- Update to Map/Data Revisions
- Timeline



Work Group Review

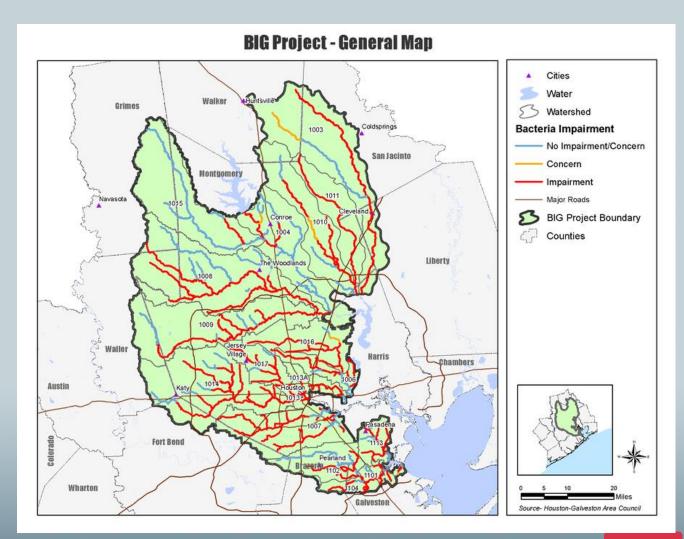
- WWTF/SSS Work Group
- Stormwater Work Group
- OSSF/Illicit Discharge Work Group
- Animals and Agriculture Work Group





I-Plan Map/Data Revisions

- Revising All Maps
- Revising All Data Tables
- Focus 2019 endpoint
- Comparisons 2013 to 2019
- AU and Segment Level –
 Geographic Focus
- Include Socio/Economic Data where appropriate



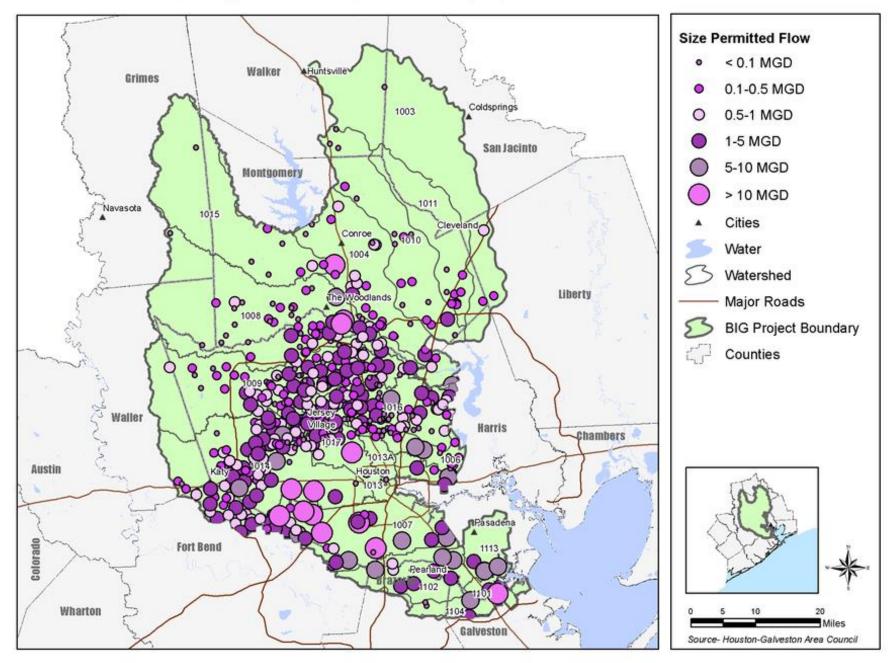


WWTF Data

type	Number
Permittees in TCEQ Outfall Layer	636
Permittees in EPA Registry	630
Permittees Submitting DMR Data (any type)	540
Permittees Submitting DMR Bacteria Data	523



BIG Project-WWTF Outfalls Map - Size Permitted Flow





WWTF Data

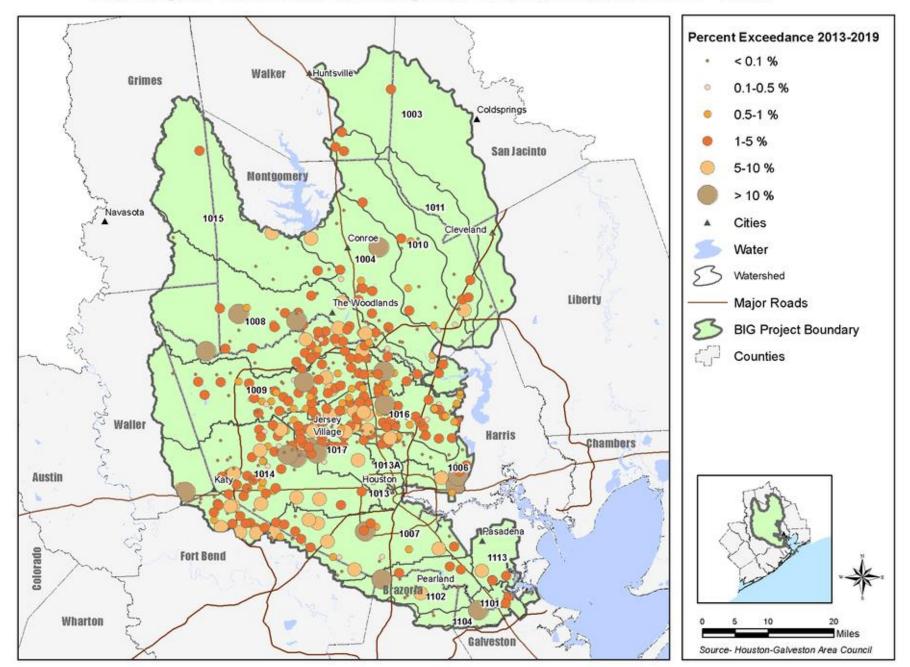
		Daily Maximum
	Geometric	or Grab
Variable	Mean	Sample
Total Results Reported	5060	5160
Total Exceeding Limit	33	164
Percent Exceedance	0.652174	3.178295



WWTF Data

		Geometric	Daily Maximum or Grab
Relative Plant size	number_plants	Mean	Sample
0.1-0.5 MGD	148	0.7	1.8
0.5-1 MGD	81	0.3	2.1
1-5 MGD	8		4.2
5-10 MGD	1		6.3
< 0.1 MGD	157	1.6	2.6
Variable/Intermittent Discharge	133	0.3	5.6

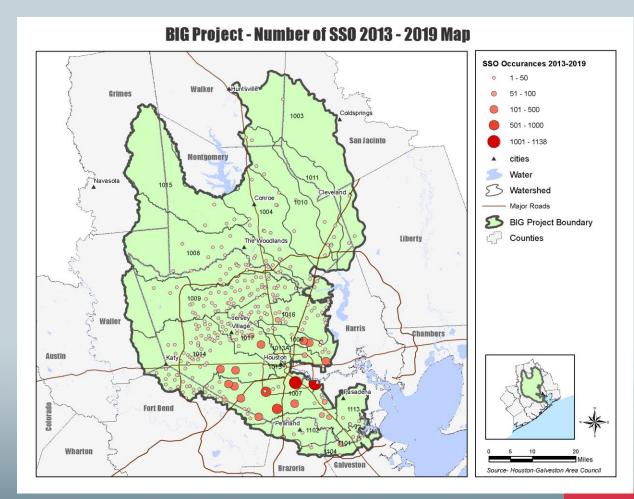
BIG Project- WWTF Outfalls Map Percent Exceedance 2013 - 2019





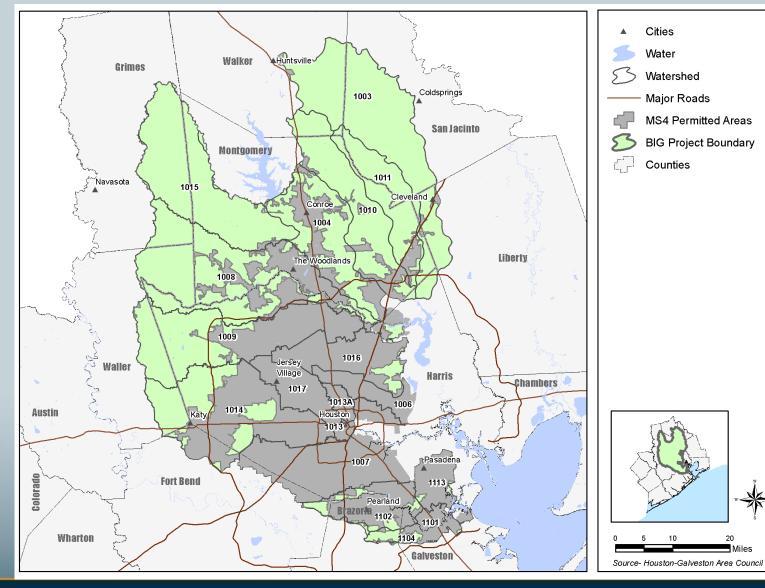
Sanitary Sewer Overflow Data

		Estimated Volume
	Number of	(Thousand
Year	SSOs Reported	Gallons)
2011	1338	821
2012	716	1,179
2013	782	1,637
2014	923	2,264
2015	1070	4,176
2016	1148	2,308
2017	1792	13,819
2018	1053	1,561
2019	767	14,439



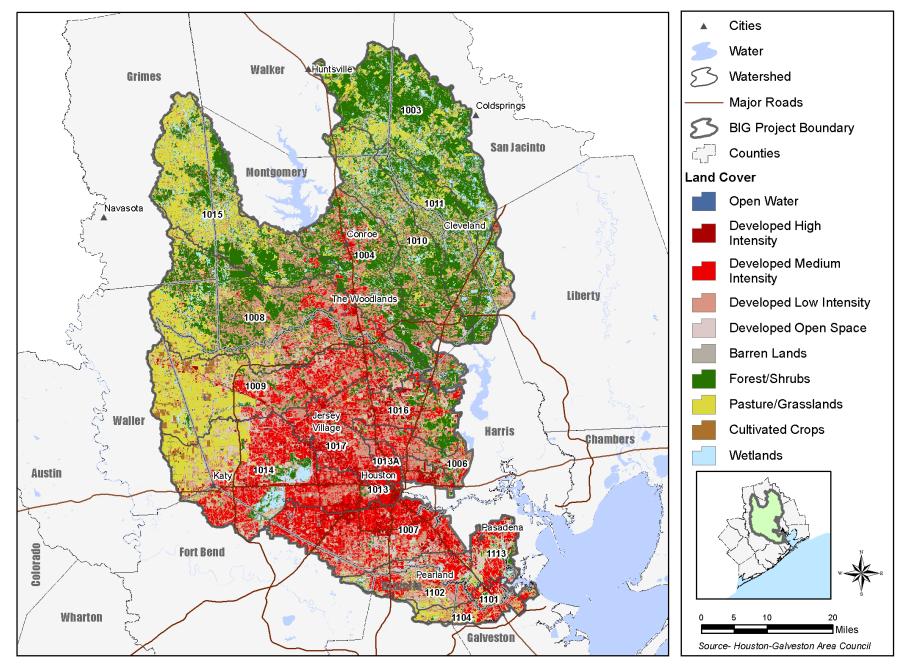


Urbanized Area Under Stormwater Permit





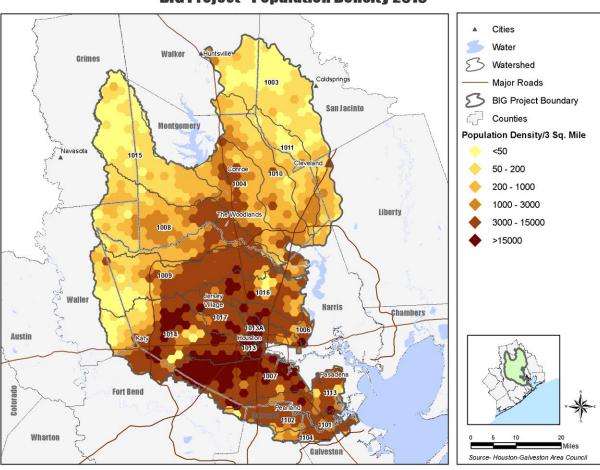
BIG Project - Land Cover



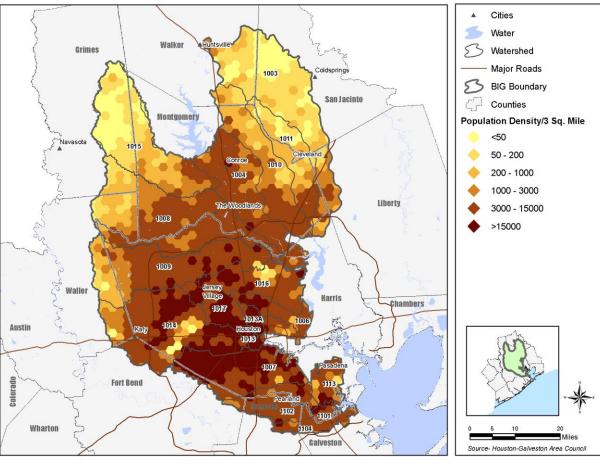


Population 2019 - 2050

BIG Project - Population Density 2019

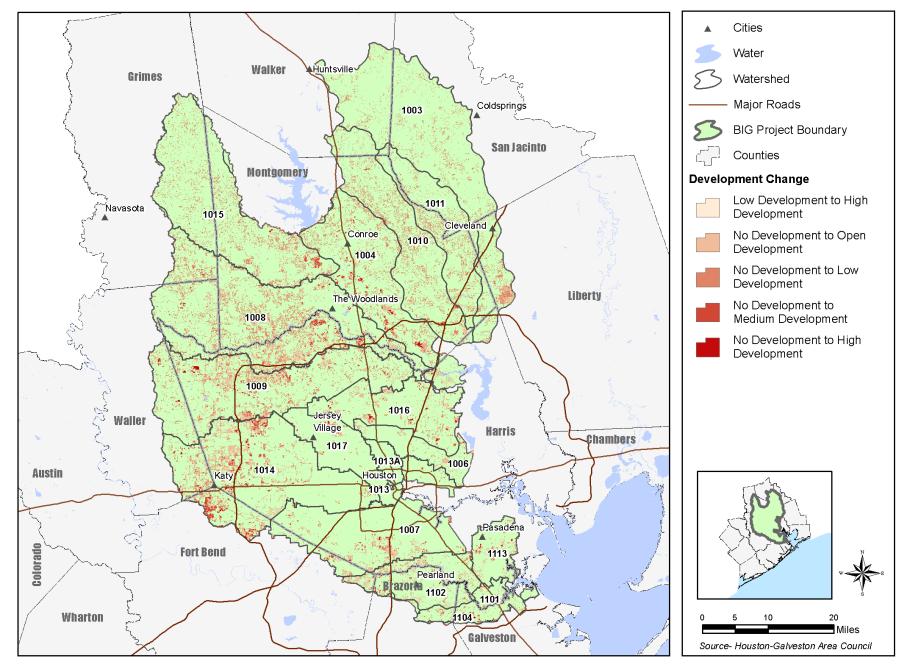


BIG Project - Population Density 2050



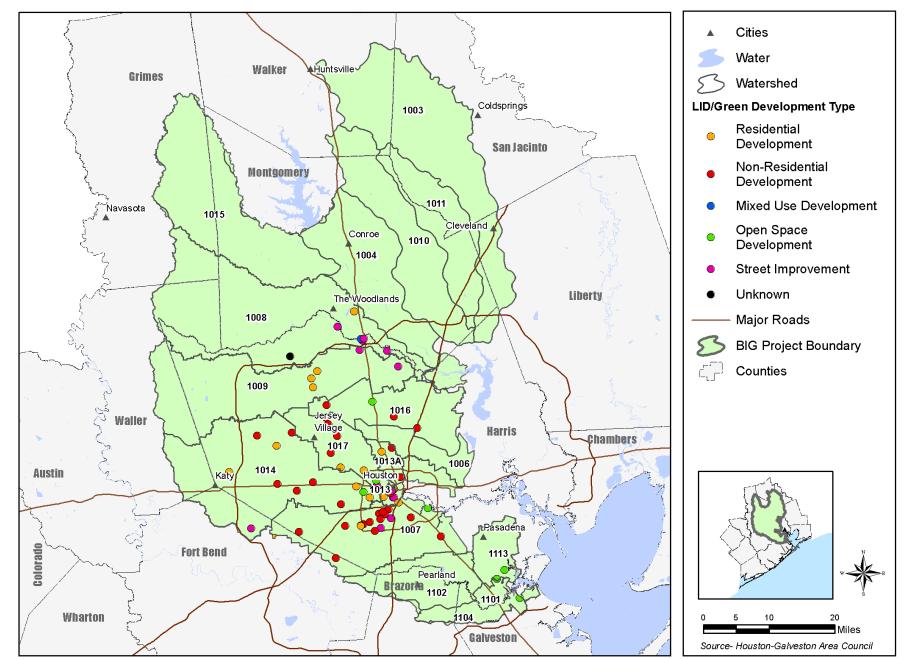


BIG Project - Development Pressure



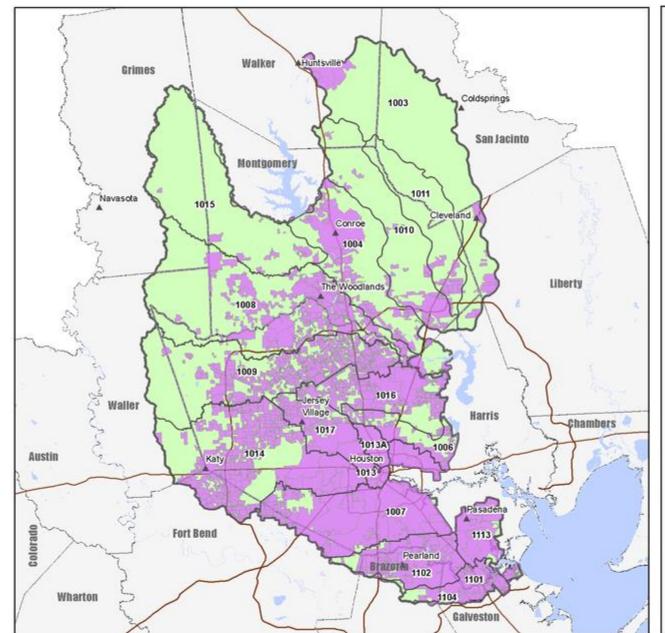


BIG Project - LID/ Green Infrastructure Projects





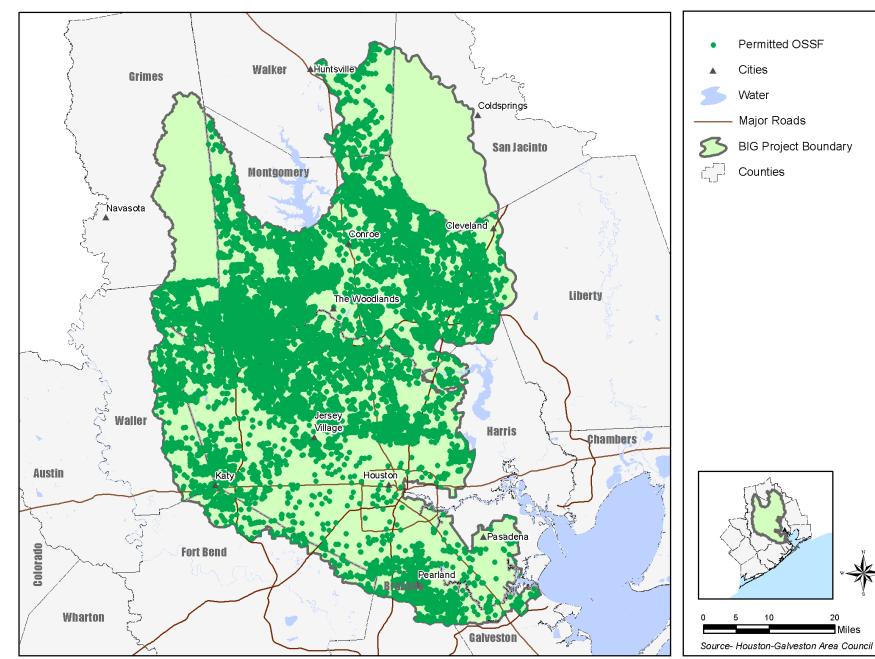
BIG Project - Wastewater Service Area Boundaries





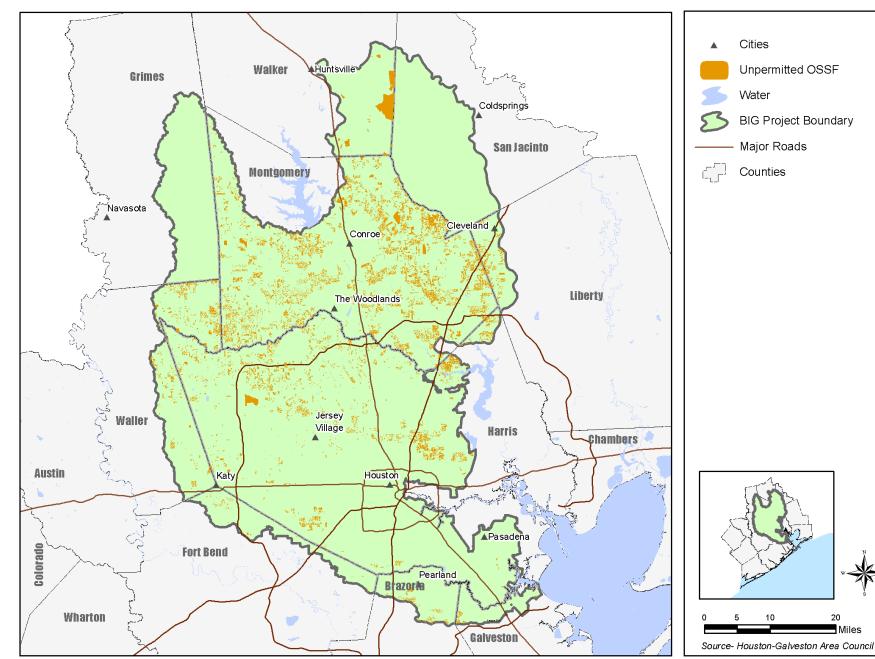


BIG Project - Permitted OSSFs Map



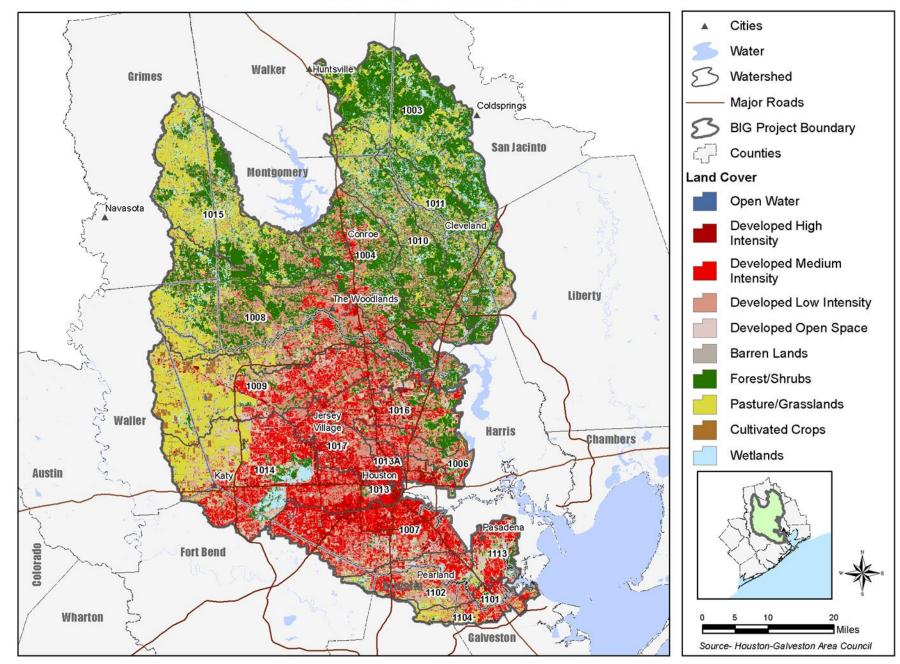


BIG Project - Unpermitted OSSFs Map





BIG Project - Land Cover





I-Plan Revision Timeline



December

Coordination and Policy

January

• BIG Meeting First Reading

February

Coordination and Policy

March

BIG Meeting Final Reading

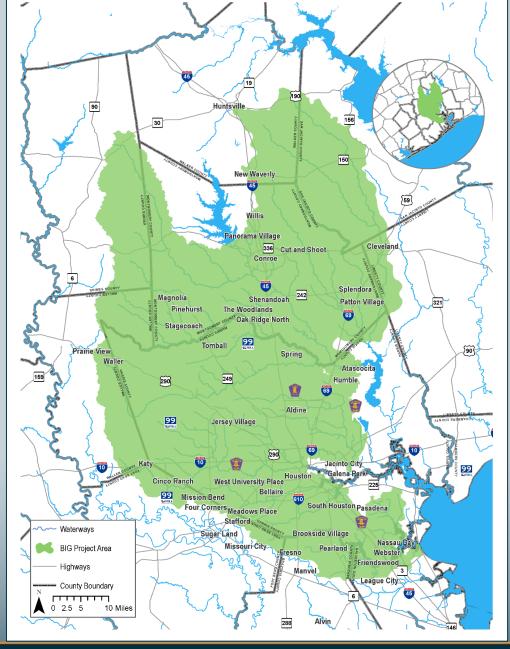


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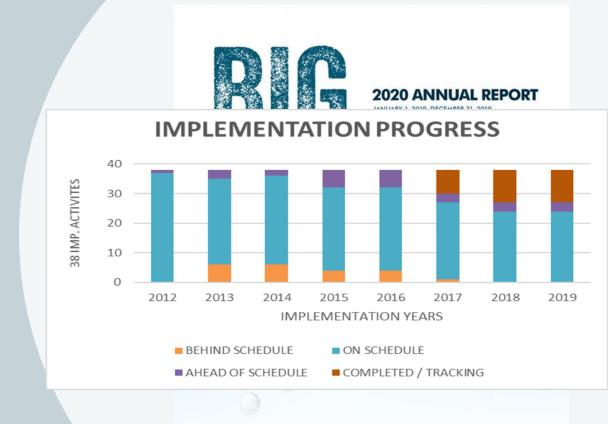
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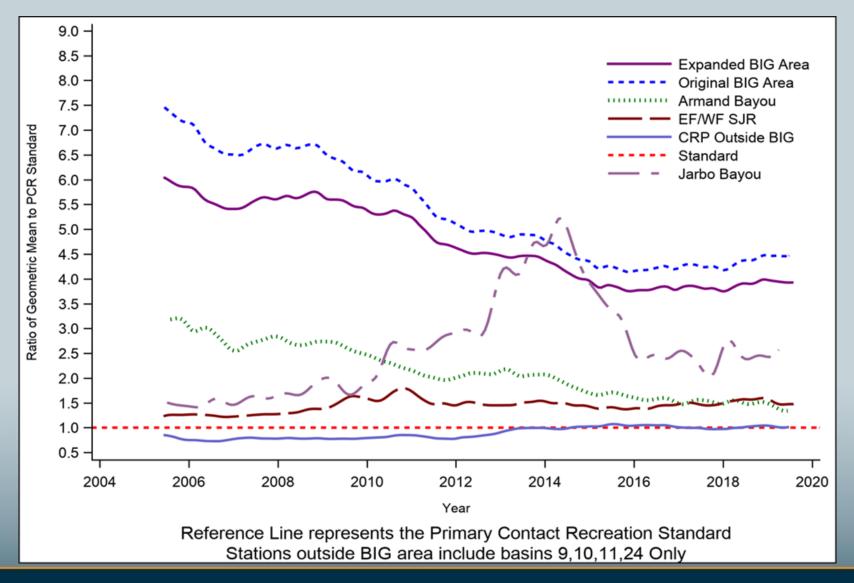
2020 Annual Report

- Calendar Year 2019
- Three Success Stories
- Three BIG Ideas
- Implementation Progress





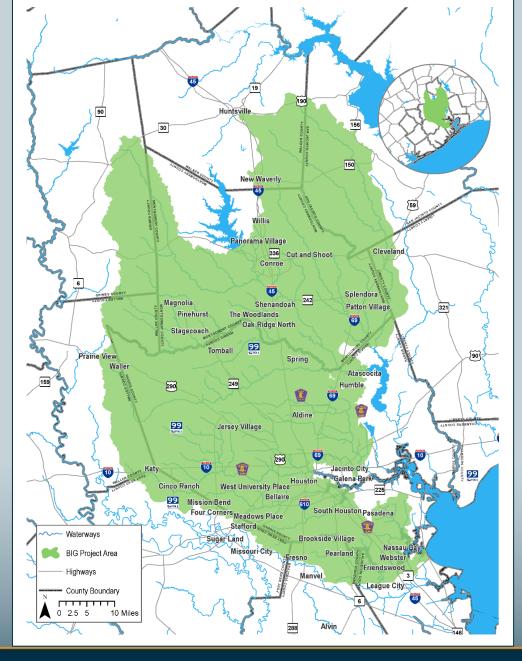
Bacteria Trends





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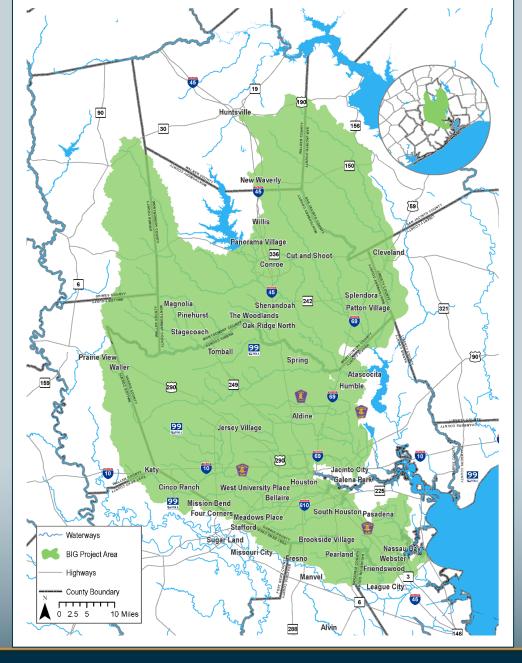
Regional TMDL Updates

- The Walnut Creek TMDL addendum is included in the October Water Quality Management Plan update at (https://www.tceq.texas.gov/permitting/wqmp/WQmanagement_updates.html) and the public comment period will be November 6 through December 9, 2020.
- Three technical support documents are posted on the TMDL website:
 - Walnut Creek (1008I_01): https://www.tceq.texas.gov/assets/public/waterquality/tmdl/82lakehouston/82-walnutcreek-bacteria-tsd-2020august.pdf
 - Harris County Flood Control Ditch D 138 (1007W_01): https://www.tceq.texas.gov/assets/public/waterquality/tm dl/72houmetbact/72-tsd-hcfd-d138-2020august.pdf
 - Horsepen Creek (1014C_01): https://www.tceq.texas.gov/assets/public/waterquality/tmd
 1/22buffalobayou/22-horsepencreek-tsd-bacteria-2020october.pdf



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WHAT IS A SEWER **OVERFLOW?** 365 GREASE CLOGS **WIPES CLOG**

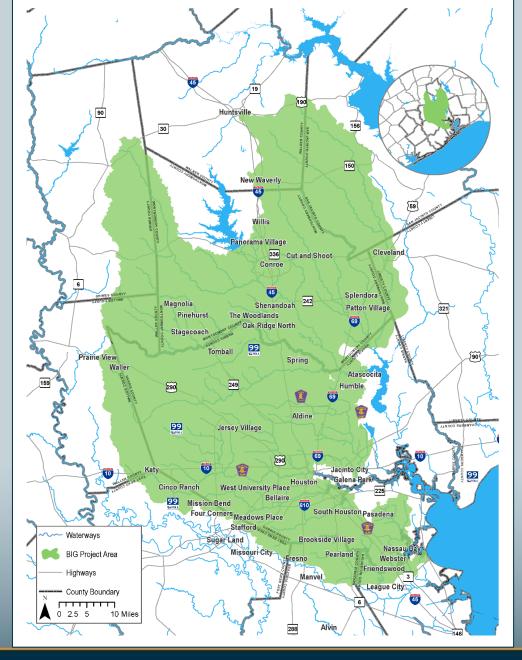
Implementation Project Presentations

- 1. Ms. Sarah Robinson City of Houston. Protect our Pipes.
- 2. Ms. Kendal Guidroz H-GAC. BPA/H-GAC bayou survey project to identify potential bacteria sources.
- 3. Ms. Jessie Casillas H-GAC. H-GAC CRP project to survey urban, suburban and rural waterways to identify potential bacteria sources.



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Upcoming Events

 BIG Spring Meeting - May 25, 2021



ADJOURN

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









