Galveston Bay: How's it doing and what can you do?

Sarah Gossett
Water Quality Manager



The Galveston Bay Report Card is a scientific analysis of the health of the bay engaging the community for a sustainable future. Presented by the Galveston Bay Foundation and Houston Advanced Research Center.







A PHILANTHROPY ENDOWED BY JESSE H. AND MARY GIBBS JONES



Photo by Niki Doyle

ABOUT THE REPORT CARD: www.GalvBayGrade.org



GALVESTON BAY REPORT CARD

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THE 2016 GALVESTON BAY REPORT CARD - WHAT'S NEW THIS YEAR?

M August 9, 2015 D Cover Story

well, in spite of significant challenges. What changed? Galveston Sey is thriving in many respects. The Water Quality alegory has improved from a B to an A this year, which is great [...]

WHAT'S THE DEAL WITH FLESH-EATING BACTERIA IN **GALVESTON BAY?**

WETLANDS AS A WATER STRATEGY

COVER STORIES

REPORT CARD TOOLS

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THE OPEN SEA - AND IT STARTS IN YOUR





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San Jacinto River

Armand-Taylor Bayou

Clear Creek

Houston Ship Channe

Dickinson Bayou

South Bay

Chocolate Bayou

West Bay

Cedar Bayou

Houston Ship Channel

What does our Bay do for us?



Economic Benefits

- Shipping
- Petro-chem
- Commercial & recreational fishing, tourism

Ecosystem Services

- Flood protection
- Water quality
- Habitat/wildlife

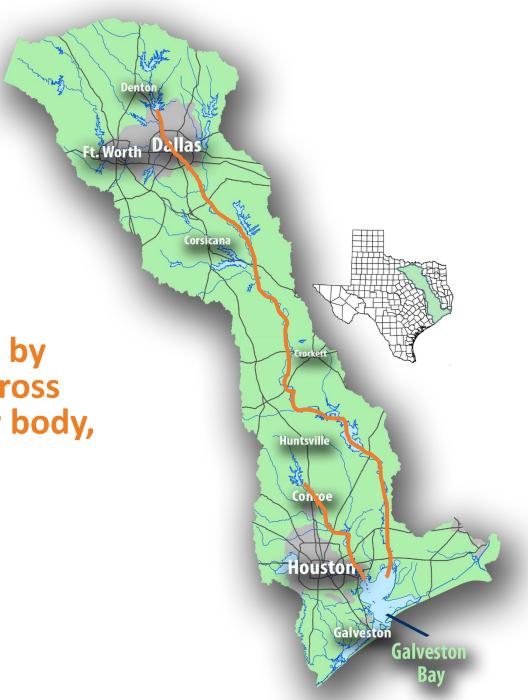


What is a watershed?

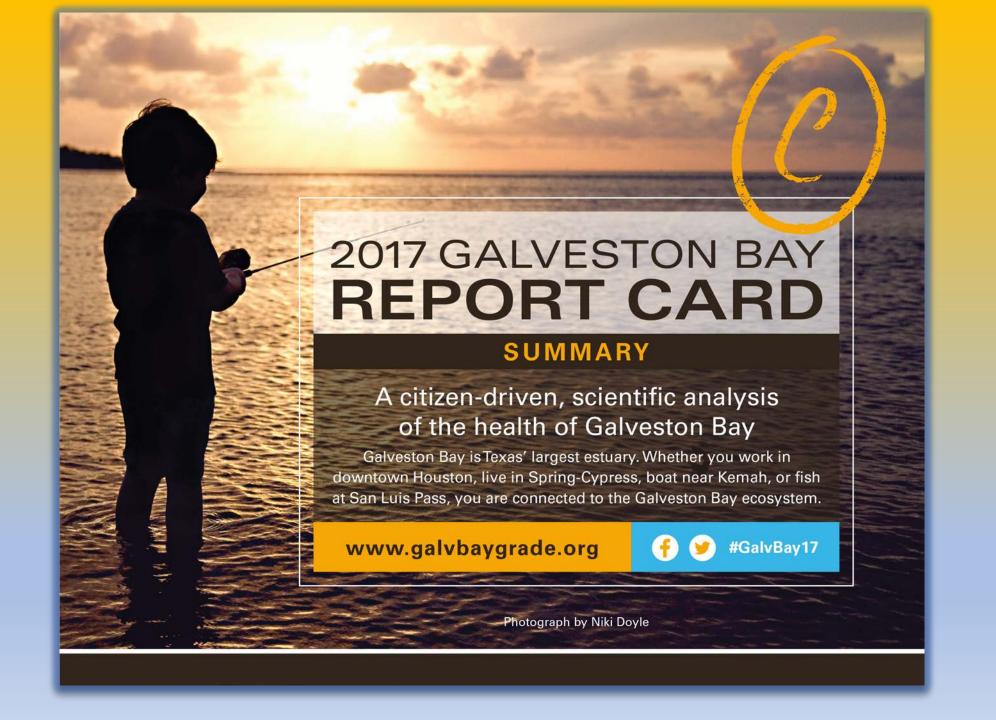
 Every square inch of land is part of a watershed.

 A watershed's borders are determined by how rivers, streams and rainfall run across the land and drain to a common water body, like Galveston Bay.

 Half of Texas' population lives in the Galveston Bay watershed.



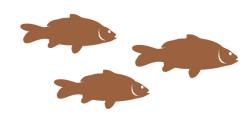








WILDLIFE C



INDICATORS	Galveston Bay	Rivers & Bayous
Shellfish	С	
Finfish	С	
Birds	С	
Invasive Species	В	D

What Can You Do?

Take Care of Animals, Land and Sea

- Keep your distance from bird nesting areas.
 Don't walk or allow pets near these sensitive habitats.
- If you fish, it's important to know the rules and regulations regarding fishing seasons, size and daily limits. Catch and release when possible.
- If you don't know it, don't grow it. Never release unwanted pets into local habitats and waterways.







What Can You Do? Save the Land We Love

INDICATORS Saltwater Wetlands Freshwater Wetlands Underwater Grasses C Oyster Reefs

- Volunteer to restore habitat around the Bay by participating in conservation projects.
- Conserve land by donating it to a land trust or by establishing a conservation easement.
- Use the Watershed Information Tool to learn about wetlands near your home, work and school. (harcresearch.org/wetlandplanningtool).



WATER QUALITY





INDICATORS	Galveston Bay	Rivers & Bayous
Nitrogen	A	A
Phosphorous	A	В
Dissolved Oxygen	A	A

What Can You Do?

A Little Goes a Long Way

- Slow runoff by maintaining natural habitat, reducing paved areas and installing rain barrels.
- Apply lawn fertilizers sparingly, if at all, and avoid overuse near bodies of water. Properly dispose of pet waste.
- Help preserve and restore habitats that promote high oxygen levels like wetlands and forests near streams and rivers.



HUMAN HEALTH RISKS





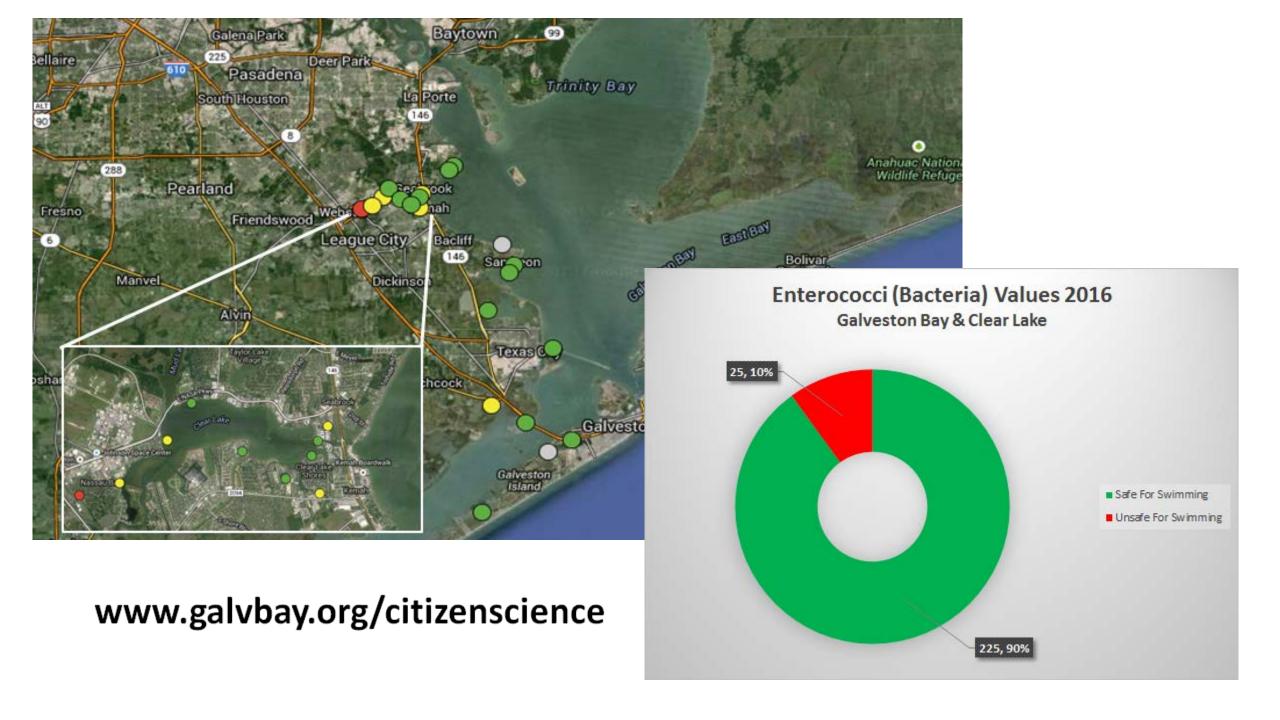
INDICATORS	Galveston Bay	Rivers & Bayous
Seafood Consumption Safety	С	D
Recreation Safety	A	В

What Can You Do?

Protect Family, Friends, and Yourself

- Check for seafood consumption advisories in effect for the areas where you fish or crab.
- Pump out boat sewage at designated facilities not in the Bay. Properly dispose of pet waste.
- Contact your local officials about improving sewage infrastructure. Regularly maintain onsite septic systems so that they do not pollute the environment or pose health hazards to people.





COASTAL CHANGE C



What Can You Do?

Our Actions Impact Coastal Resilience

- INDICATORS

 Freshwater Inflow C

 Sea Level Rise F

 Winter Water
 Temperature A

 Water PH A
- Learn about floodplains and determine the proximity of your home or business to 100-year and 500-year floodplains. (harcresearch.org/wetlandplanningtool).
- Reduce greenhouse gas emissions by conserving electricity, purchasing green power (solar or wind), driving less and considering fuel efficiency when purchasing a vehicle.
- Recycle and use less stuff by reusing, repurposing; this conserves energy and reduces pollution and greenhouse gas emissions.



POLLUTION EVENTS & SOURCES



INDICATORS	Galveston Bay	Houston Ship Channel	Total No. of Spills	Total Volume of Spills
Toxic Metals in Sediment	A	В		
Organic Toxins in Sediment	ı	В		
Dioxin in Sediment	I	D		
Oil Spills			C	F
Litter & Trash	ı			



What Can You Do?

Prevent Pollution in Your Area

- Urge local officials to prioritize Bay cleanup and preservation.
- Report environmental emergencies, discharges, spills, or air releases at www.galvbay.org/GBAN.
- Protect bay habitats, and keep trash and debris out of the water.

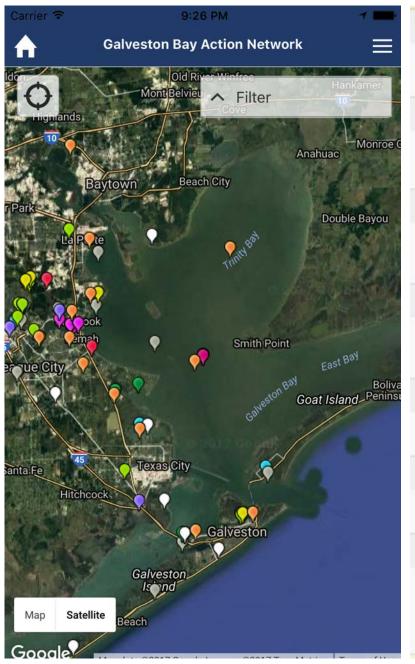




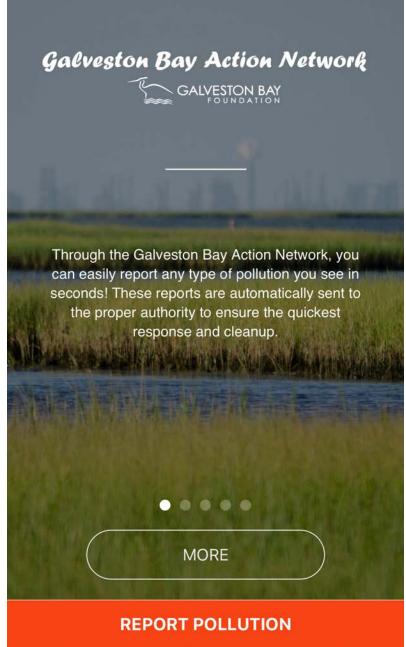
POLLUTION REPORTING MADE EASY.



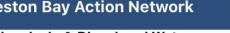




Location	
You have to select	t a location.
* Incident Title	
* Pollution Type	
Select	
Municipality	
Select	
Date of Incident	
01/08/2016	
*Time of Incident	
03:23 PM	
Description (details	of event, potential source, etc.)



Galveston Bay Action Network





Chemicals & Discolored Water

Water that is cloudy, has a strange or uncharacteristic color or a foul odor is usually polluted.



Fish Kills

Fish Kills are large schools of fish that die at the same time. The fish will be floating in the



Boat Sewage

Boat Sewage is a stringy film of particles and waste on the water surface that is generally gray in color and smells bad. When sewage is dumped, this waste is expelled from the boat hull.



Algal Bloom

Harmful algal blooms usually look like scum or paint covering the surface of the water and can be green, blue, red or brown.



Storm Drain Pollution

Storm drain pollution often appears as litter, debris, fertilizers, paints, soaps and household chemicals, oil and grease, lawn clippings etc. that ends up in the storm drain.



Sanitary Sewers

Sanitary sewer overflows look like they sound: sewage water spilling out of a sewer line or manhole.



Septic Systems



Storm Drain Pollution

Storm drain pollution often appears as litter, debris, fertilizers, paints, soaps and household chemicals, oil and grease, lawn clippings etc. that ends up in the storm drain.



Sanitary Sewers







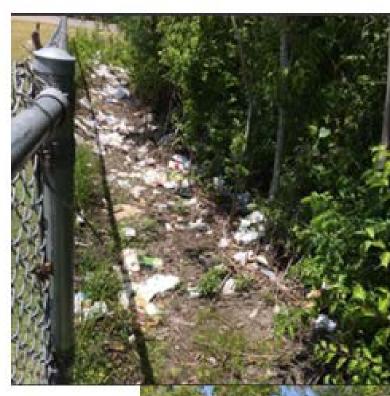


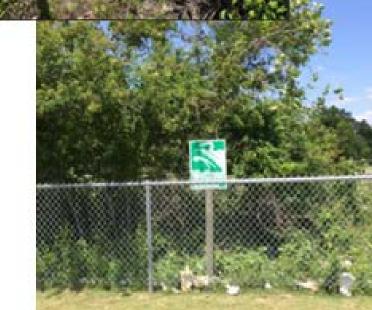


































You can start right now!

- 1. Report Pollution: Download the GBAN app
- 2. Subscribe to Galveston Bay Report Card website
- 3. Follow GBF on Facebook for updates

Help us spread the word!

Take Action



You can help save animals here in Texas and all over the world! Here are just a few ways to take action and protect wildlife. And remember, every time you visit the Houston Zoo a portion of your ticket proceeds go towards saving animals in the wild! So, a simple zoo visit is a great action to take to protect wildlife!



Plastic Pollution



Ocean-Friendly Seafood



Paper Recycling



Recycle Cell Phones



Pollinators



Like 304

Palm Oil



The Houston Zoo Blog

Be the Eyes on Your Bay!

by Ryan Draper

Written by Kim Sharkey

1. Be the Eyes on your Bay!

Report pollution and trash to The Galveston Bay Foundation's Action Network (GBAN) which allows you to make reports through their website or on your mobile device. The website contains an interactive GPS enabled map that pinpoint's your exact location. The report is then sent on to the appropriate authorities in order for the situation to be resolved. It has never been easier to directly affect the health of your local beaches.



Use this handy tool created by @GBayFoundation to report #polluters for a clean & healthy #GalvestonBay! www.galvbay.org/GBAN

