

Artist Boat's

Exploring Environmental Health Hazards with STYLE (Sustained Training for Youth Leadership)



Addressing Priorities:
NPS 2, HC 2 & 3, SPO 1 & 2, PEA 3

Karla Klay, Executive Director
Amy Neblett, Operations Director

Request

PROJECT TITLE: Exploring Environmental Health Hazards with STYLE

LOCATIONS: **Public, Private and Charter High Schools within Galveston County**

GRANT request: **\$150,000**

CLASSROOM PORTION INCLUDES: Climate Resiliency Workshop, Eco-Art Kayak Adventure, Habitat Restoration Workshop, Habitat Restoration Adventure. **600 students (24 classes)**

MENTORSHIP PORTION INCLUDES: **Paid five-day mentorship for 60 students** to explore environmental justice through the lens of air quality, water quality and sea level rise. Students will work with Artist Boat Eco-Art Educators, UTMB researchers, and Community Experts to collect and present data.



Inspiration and education through unique coastal experiences



Exploring Environmental Health Hazards with STYLE Workshops

Climate Resiliency Workshop

- Learn about global warming, air quality, sea level rise, ocean acidification and extreme weather through graph discussions, map projections and hands on demonstrations and experiments
- Translate their knowledge visually using oil pastels

Habitat Restoration Workshop

- Learn about coastal prairies, why they are important and the threats to them
- Translate their knowledge visually using watercolor pencils



Inspiration and education through unique coastal experiences

Exploring Environmental Health Hazards with STYLE Adventures



Eco-Art Kayak Adventure

- 24 kayak trips of 25 students each
- Learn safety and paddling techniques for powering a tandem kayak
- Learn about the functions of the wetlands
- Create plein air watercolor paintings while in the wetlands

Habitat Restoration Adventure

- 12 trips of 50 students each
- Students become stewards of the land by planting native plants
- Learn about careers and skills needed for land management
- Create plein air oil pastel drawings while sitting on the coastal prairie

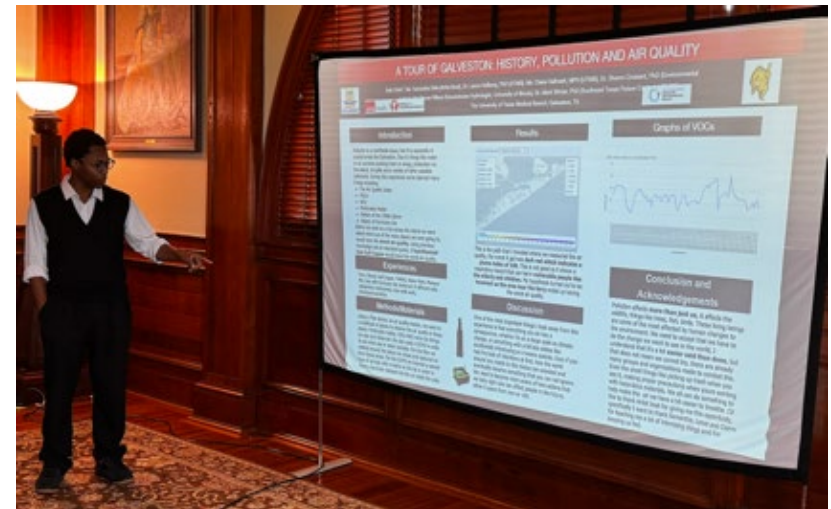
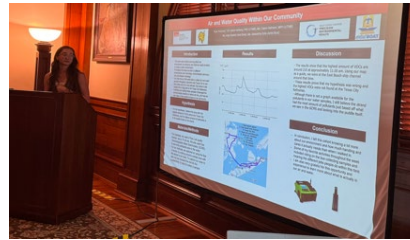


Inspiration and education through unique coastal experiences

Exploring Environmental Health Hazards with STYLE

Paid Mentorship for 60 Students

- Learn about storm surge and coastal residents resilience by creating “Underwater HOA” signs showing elevation above sea level and projected timelines for flooding
- Students work with UTMB researchers to map local air quality, test water samples from home, schools, and businesses using a mass spectrometer, and build two prototype water purification systems
- Thesis Day gives students the opportunity to showcase their research, share their ideas, and feel empowered to speak in front of a group to share their ideas



Inspiration and education through unique coastal experiences

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Exploring Environmental Health Hazards with STYLE (Sustained Training for Youth Leadership)



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Roadside Swale Capacity Building Initiative

A field-based response to FY 2028 PPE priorities



CONNECT NEW AUDIENCES

Connecting new audiences to existing/completed on-the-ground projects in the watershed.

EDUCATE & EMPOWER ADULTS

Empowering adults to positively impact their local environment through increased scientific literacy and community projects.

TECHNICAL ASSISTANCE FOR LOCAL LEADERSHIP

Workshops and networking that provide technical assistance for local leadership on key topics.

BPA'S ROLE

For more than 20 years, BPA has convened local governments, practitioners, and community partners around Houston-area waterways.

SEE IT IN PRACTICE

Participants learn from real projects, the people who built them, and the people responsible for maintaining them.



Houston Botanic Garden

Stormwater wetland treating runoff from parking and other impervious areas before it reaches Sims Bayou.



MD Anderson

Stormwater basins retrofitted with wetland and native prairie vegetation in a highly developed campus setting.

Site Visit → Ask questions → Understand design and maintenance → Build a visual database to recognize opportunities locally

From Regional Examples to Infrastructure Communities Already Manage

Sample existing public drainage infrastructure in Friendswood — not predetermined project sites.



Friendswood City Hall



Friendswood Fire Station 2

With 2–3 participating communities:

Examine existing roadside swales → Identify potential locations → Review opportunities with the partner
→ Develop an implementation roadmap

Three Years of Field-Based Capacity Building

A defined scope, measurable reach, and practical products communities can use after the grant.



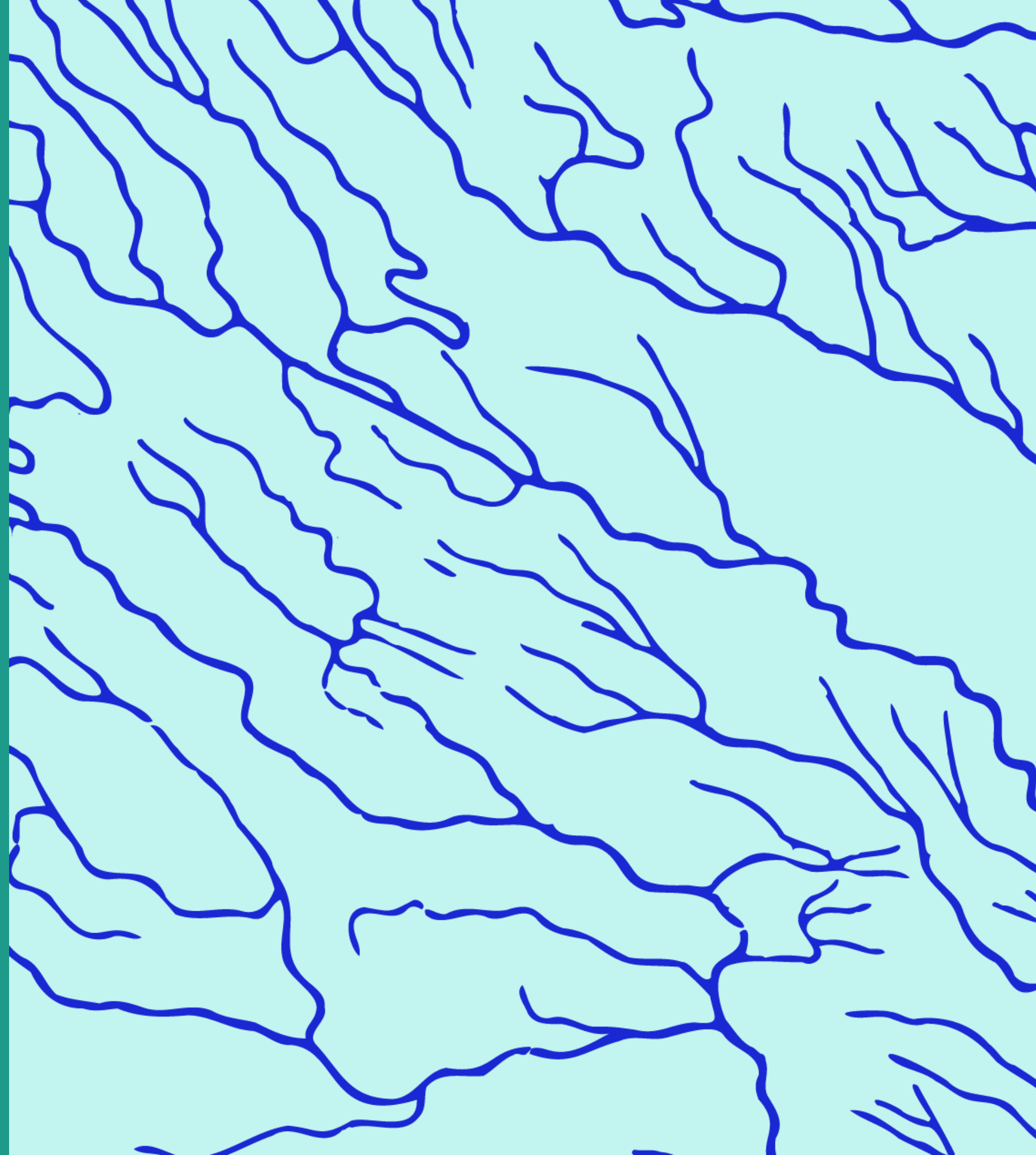
Incorporating nature-based stormwater practices into existing infrastructure is the focus. The lasting product is local capacity: people who can recognize opportunities, use available resources, and take the next step.

\$141,220 requested | September 2027–May 2030

Ingraham Gully: From Community Knowledge to Action

Kristen Schlemmer
Co-Executive Director

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A neglected gully is essential neighborhood infrastructure

Ingraham Gully conveys stormwater from Houston's Fifth Ward toward Buffalo Bayou - and ultimately Galveston Bay.

Fifth Ward

Residents
experience
flooding and
dumping

Ingraham Gully

Stormwater,
habitat
and water
quality

Buffalo Bayou

Pollution
moves
downstream

Galveston Bay

A connected
watershed

BCWK combines community science, environmental education and policy expertise so improvements are shaped with residents.

Community knowledge + Technical analysis + Direct action = Durable stewardship

Education becomes a pathway to action

A two-year, \$150,000 investment will move the work from community concern to coordinated stewardship.

1. **Understand:** Hydrology and site assessment clarify how the gully functions – and where action can help.
2. **Learn:** Bilingual workshops and two Watershed Walks make watershed science practical and local.
3. **Act:** Residents document conditions, reduce trash and participate in hands-on stewardship.
4. **Shape:** Community priorities become recommendations for protection, restoration and public investment.

GBE Priorities Advanced:
New audiences | Adult scientific literacy
Community projects | Technical assistance |
Coastal resilience | Trash reduction



Two years build from trust to a durable stewardship plan

September 2027 – August 2029

Listen + assess Fall 2027

Partner coordination
Resident outreach
Technical consultation
flooding and dumping

Learn together Spring 2028

Community meetings
Watershed Walk #1
Site documentation

Steward + test Fall 2028

Cleanup and
stewardship
Accessible education
Priority setting

Share + sustain Spring 2029

Watershed Walk #2
Culminating event
Recommendations + next
steps

Continuous throughout: bilingual engagement • community input • evaluation • agency and decision-maker dialogue

The partnership keeps residents at the center

BCWK

Lead Implementer

- Project management
- education
- legal and policy expertise
- stewardship
- evaluation

Friends of IG

Progressive Fifth Ward Association Community leadership

- Resident outreach
- lived knowledge
- event design
- long-term participation

Dr. Matthew Berg

Technical Guidance

- Hydrology
- stormwater and wetland functions
- restoration potential
- practical recommendations

The Result

Residents see Ingraham Gully as a shared environmental asset and have the knowledge, relationships and tools to protect it.



Back the Bay Ambassador Toolkit

Fiscal 2028 Project Proposal

Contacts:

Friends of Flower Garden Banks - metoyer.friendsoffgb@gmail.com

Calibrated Creative - Sydney@calibratedcreative.com



Bay Ambassadors Toolkit

Project: The project will identify what Ambassadors need to effectively communicate GBEP-supported conservation work, then provide them with ready -to-use stories, visuals, messaging, and campaign resources they can share through their existing channels.



Stage One NEEDS ASSESSMENT

- ➔ Review existing GBEP resources
- ➔ Conduct a focus group
- ➔ Develop recommendations to guide the toolkit development

Stage Two TOOLKIT DEVELOPMENT



Project Timeline

September - October: Processing

November

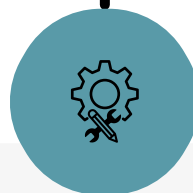
December

January

February

March

April



Research

Focus Group

Production

Launch Pilot

Partner Testing

May

June

July

August



Partner Testing

Launch Toolkit

Review
Implementation

Measure
Impact

Toolkit Budget

Category	Budget
Grant Administration	\$2,000
Project Strategy + Communications Needs Assessment	\$3,000
Professional Photography / Videography / Editing	\$10,000
Toolkit Development + Content Production	\$18,000
Ambassador Coordination + Facilitation	\$3,000
Analytics + Participation Report	\$1,000
IDC (10%)	\$3,700

TOTAL : \$40,700



HARC

HOUSTON
Methodist
LEADING MEDICINE

Connecting Watersheds to Well-Being:

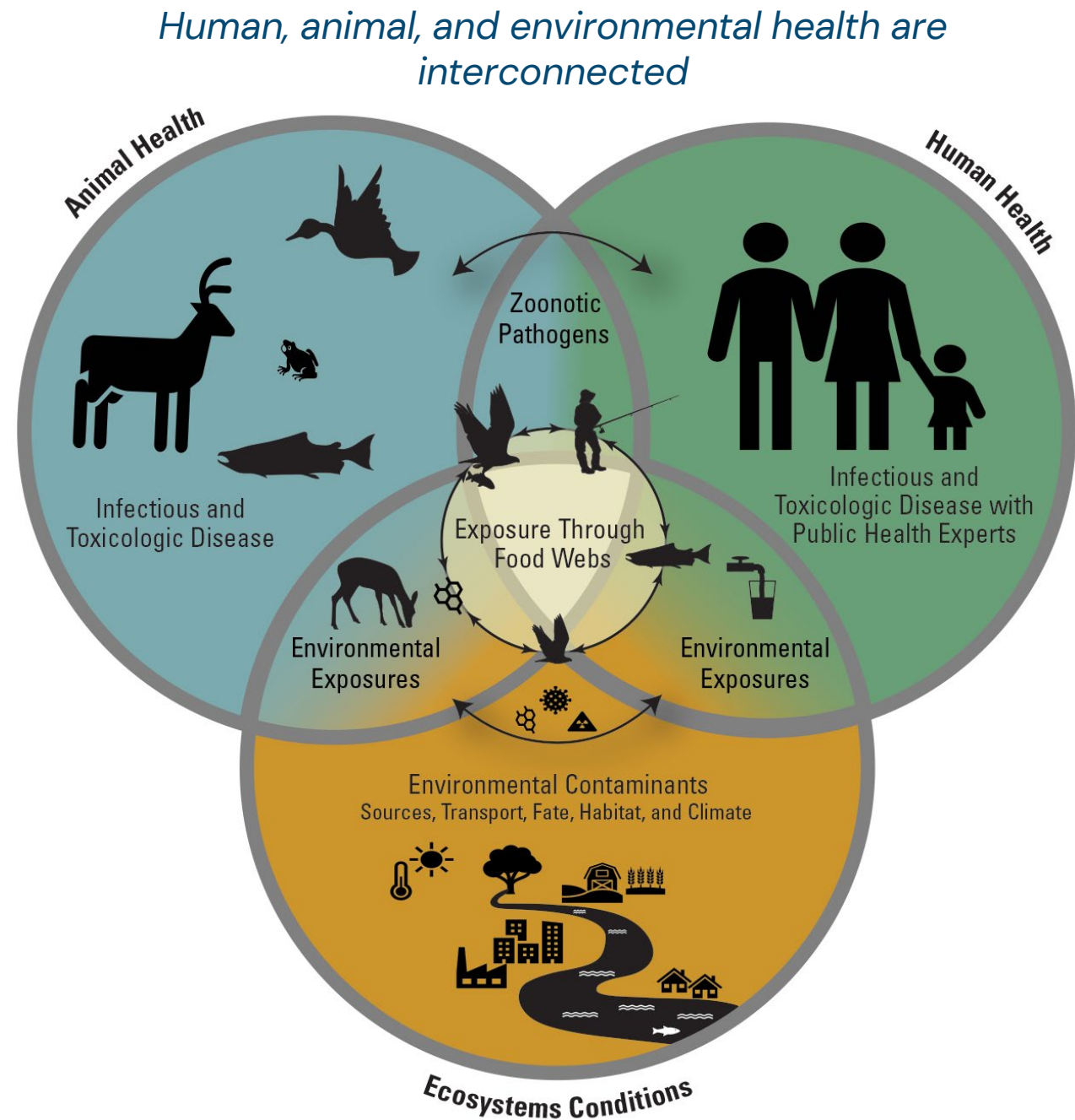
A One Health Education Initiative for Galveston Bay

Houston Advanced Research Center

Houston Methodist Research Institute,
Office of Sustainability

Why One Health?

Healthcare professionals increasingly encounter the health impacts of environmental conditions—but watershed science and estuarine management are rarely part of their professional training.



Source: U.S. Geological Survey (2023), One Health Conceptual Diagram.

Program Components

Budget: \$161,003.00 over 2 years

Grand Rounds

- Broad healthcare audience
- Watershed + health topics
- Extends program reach beyond student cohort

Watershed Partners

- Partner-lead seminars and field experience
- Connect participants with watershed expertise, projects, and resources
- Inform student projects

Student Cohort

- 15–20 participants
- Medicine, nursing, public health, and related fields
- Cohort learning and mentored exploration
- Flexible participation pathways

Projects

- 3–5 student projects
- Shaped by partner needs and participant interests
- Data analysis, qualitative research, science communication, and community engaged approaches

Project Alignment

FY 2028 PPE Priorities

- Connecting new audiences to on-the-ground projects in the watershed
- Empowering adults to positively impact their local environment through increased scientific literacy and community projects
- Opportunities to host workshops/ events on key topics

Galveston Bay Plan Actions

- SPO-1 Stewardship & Volunteer Opportunities
- SPO-2 Workshops and Events
- SPO-3 Support Regional Initiatives
- PEA-1 Key Issue Engagement
- PEA-2 Adult Education

Project Goal

To prepare healthcare professionals to understand and address connections between watershed and community health through One Health education, cross-sector engagement, and partner-informed projects.

Project Timeline

Fall 2027



Foundational Knowledge + Cohort Formation



- Grand Rounds presentation
- Watershed Partner Seminar Series
- Field experience/ In-person workshop
- Mentored student sessions to explore watershed data and resources

Spring 2029



Dissemination Phase



- Conference presentations
- Program evaluation
- Educational resources archived
- Final report

Planning Phase

- Curriculum development
- Partner recruitment
- Student recruitment

Research Methods + Projects

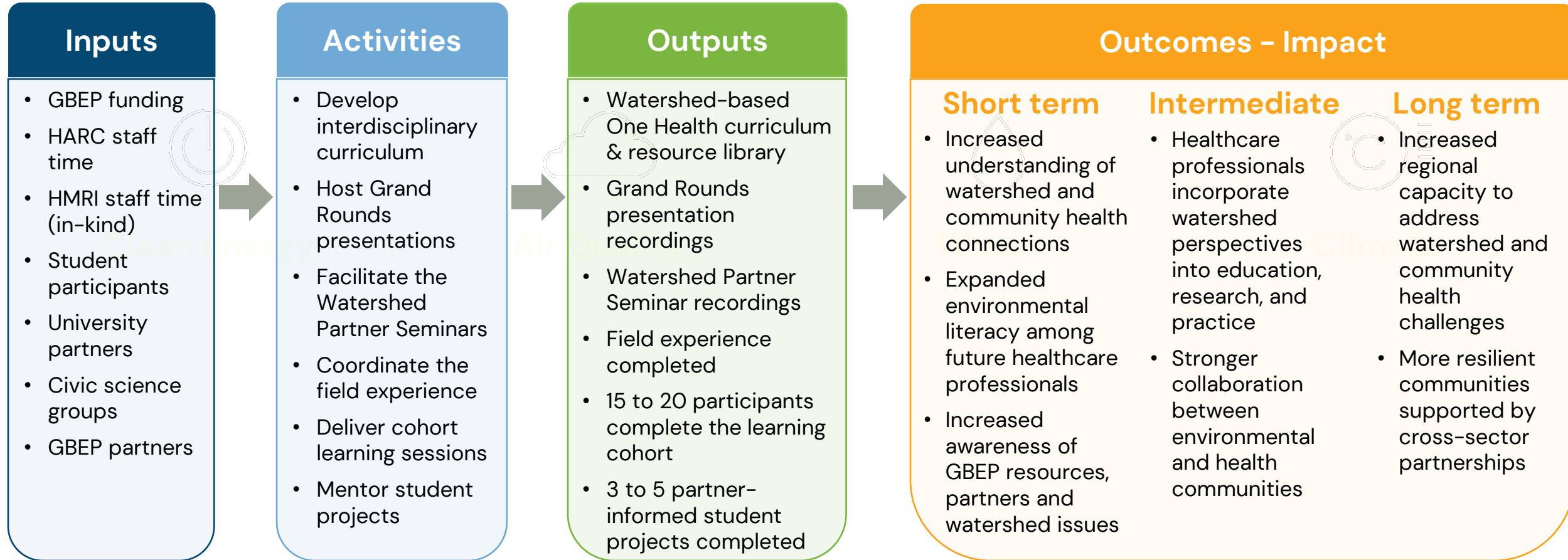
- Ground Rounds presentation
- Community-engaged research best practice and methods seminars
- Mentored student project development
- Final project presentations

Fall 2028

Summer 2029

Project Logic Model

This project engages a new professional audience in watershed stewardship, creating cross-sector connections that can build regional capacity to address watershed and community health challenges.



Questions?

HOUSTON PARKS BOARD

Bayou Greenways Conservation Academy

September 2026





MISSION

To expand, improve,
and protect parks and greenspace in the
Houston region



VISION

An interconnected network
of parks, trails, and greenspace
for a more resilient and equitable
Houston region

HPB Conservation Goals | Bayou Greenway Conservation Academy

Conservation Mission: *To preserve, create and enhance the region's habitats by incorporating conservation best practices and stewardship*

- Relevant Habitat Conservation
- Engaging Stewardship
- Dynamic Partnerships
- Effective Communication

Bayou Greenway Conservation Academy Goal

Educate and integration volunteers via hands-on experiences to create a robust volunteer community for conservation efforts.

- Pilot Program – Fall 2026
 - 40+ on early notification
 - 25 attendees | 15 on waitlist

*Clear *want* for this type of programing





Bayou Greenways Conservation Academy



BAYOU GREENWAYS CONSERVATION ACADEMY UPDATED SCHEDULE

SEPT 26 **ORIENTATION & HABITATS**
9:00 AM - 3:00 PM
HPB MAIN OFFICE/THOMAS BELL FOSTER
*Orientation attendance is required
participate in the rest of the program*

OCT 3 **PLANT PROPAGATION**
9:00 AM - NOON | COOLGREEN NURSERY

OCT 17 **WILDLIFE & INAT**
9:00 AM - NOON | HILL AT SIMS

OCT 24 **BAT EMERGENCE**
7:00 PM - 9:00 PM | WHITE OAK BAYOU
Optional evening program

NOV 7 **PARKS BY YOU**
9:00 AM - NOON | COOLGREEN

DEC 6 **GRADUATION**
11:00 AM | TBD

Scan or click the QR code to join the early notification list.



Classes along different bayous, therefore increasing exposure to Bayou Greenways

Intentionally cultivate a sense of community and safety outdoors

Provide personal hands-on learning and skill development for attendees

Highlight importance of networking and partnerships by inviting partners and guest speakers to programs

Graduation & celebration at end of program to integrate volunteers into HPB culture and provide “credit” of completion to add to resumes

