

**Final Report to the Texas Commission on Environmental
Quality for Galveston Bay Estuary Program (GBEP)
Comprehensive Conservation and Management Plan
Revision**

TCEQ Contract no.: 582-17-70188

Submitted on December 20, 2018

Questions about this report should be directed to:

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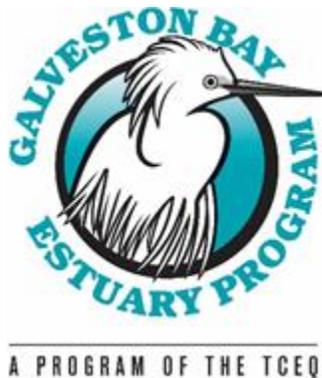


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Workshop #1 Full Execution Planⁱⁱⁱ

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The Galveston Bay Plan, 2nd Edition – Draft for Public Comment (March 2018)^{xiii}

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The Galveston Bay Plan, 2nd Edition – Executive Summary (anticipated December 2018)

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APPENDICES

Appendix A: Contract Communication Log

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Appendix C: Presentations to the Galveston Bay Council

I. Executive Summary

The Galveston Bay Estuary Program's (GBEP) Comprehensive Conservation and Management Plan (CCMP), *The Galveston Bay Plan (GBP'95)*, was completed in 1995. An update to *GBP'95, Charting the Course to 2015: Strategic Action Plan (SAP)* was completed in 2005. The Environmental Protection Agency's (EPA) Fiscal Year 2015–2016 funding guidance to National Estuary Programs (NEP) requires that each NEP complete a full revision of their CCMP prior to September 30, 2018.

The Houston–Galveston Area Council (H–GAC) worked with the GBEP and its partner organizations to revise *GBP'95*, thus fulfilling the EPA requirements for NEP's to revise their management plans to better reflect current challenges and priorities.

That revision, *The Galveston Bay Plan, 2nd Edition (GBP'18)*, builds upon 30 years of factual and scientific information. It identifies specific Actions, Goals, and Objectives to address Priority Issues identified by stakeholders. The strategies and tools identified in *GBP'18*, in concert with the collaboration, coordination and monitoring that occur through the Galveston Bay Council and its subcommittees, will ensure that generations to come continue to Back the Bay.

II. Introduction

Galveston Bay is the largest of 12 estuaries in Texas and is the seventh largest in the nation. The watershed that flows into Galveston Bay covers approximately 24,000 square miles, accounting for nine percent of the State of Texas' total square mileage. The lower watershed downstream of Lake Livingston and Lake Houston is the focus of *GBP'18*. It covers approximately 4,000 square miles and influences the estuary through 1,295 miles of rivers, streams, and bayous.

GBP'18 is a long-term plan that contains 38 Actions to address water quality and living resource challenges and priorities, as well as identifies ways to support robust engagement and monitoring activities.

III. Project Significance & Background

GBP'18 is a blueprint to guide future decisions in Galveston Bay to address a wide range of environmental protection issues, including:

- water quality;
- habitat;
- fish and wildlife;
- pathogens;
- land use; and
- introduced species.

The Actions identified within *GBP'18* are used to develop the GBEP's annual work plan and priority projects for funding recommendations.

More than 150 members of the Galveston Bay community, representing local governments, industry, academia, nonprofit organizations, resource agencies and the public, donated their time and talents to develop *GBP'18*.

IV. Methods

Task 1. Project Management

The H-GAC acted as Project Manager for *GBP'18*, providing general project oversight, maintaining and frequently updating the project schedule and associated deliverables timeline, and leading internal / external communication efforts.

H-GAC also supported the Technical Advisory Committee for *GBP'18*, comprised of the GBEP Project Manager, Galveston Bay Council chair, a TCEQ representative, an EPA representative, and other key stakeholders.

Frequent communication between the H-GAC Project Manager and GBEP Project Manager occurred (see **Appendix A: Project Communications Log**). In addition, H-GAC provided a Project Article, a one-page briefing paper to the GBEP Project Manager upon her request (see **Appendix B: Project Article**).

Task 2. Public Engagement

GBP'18 is the result of strong and sustained involvement by the Galveston Bay Council and its subcommittees. It serves as a guidance document for improved coordination among stakeholders across the Galveston Bay watershed to optimize the efficiency and efficacy of regional efforts and to avoid duplication.

H-GAC developed a Public Engagement Plan, outlining the process used to inform and engage stakeholders about *GBP'18*. In addition to the Public Engagement Plan, H-GAC developed a Full Execution Plan (FEP) for each of the three workshops held in the development of *GBP'18*. Each FEP included goals for each workshop, a detailed agenda, promotional information, and data needs. Links to these material outcomes can be found on page 7.

Between October 2016 and March 2018, H-GAC facilitated three workshops and one open house. These meetings provided stakeholders and the public with an opportunity to participate in pre-planning, prioritization, and review of *GBP'18* content. Links to associated meeting reports and outcomes can be found on page 7. H-GAC also facilitated discussion with the Galveston Bay Council subcommittees through six meetings and presented project updates to the Galveston Bay Council on three separate occasions.

To support public engagement activities, H-GAC developed a project website. The website - hosted on H-GAC's main website - publicized opportunities to participate in the creation of *GBP'18*, background and resource information, provided a location for downloading *GBP'18*, and all other required materials. A link to the project website can be found on page 7.

H-GAC solicited comments on the DRAFT *GBP'18* during a 30-day public comment period. Commenters were invited to provide feedback in-person during Workshop #3 on March 6, 2018 as well as online. During this time, 427 comments were received. All comments were documented, and H-GAC provided draft responses to public comments to the GBEP for review and approval.

Task 3. DRAFT Plan Revision Framework and Prioritization

To ensure *GBP'18* built on the successes and sound scientific basis provided by *GBP'95* and the *SAP*, H-GAC reviewed and incorporated those documents into a summary chart of existing work efforts, called the Plan Revision Frameworks.

The Frameworks were used as a starting point for discussion during Workshop #1 and six Galveston Bay Council subcommittee meetings. Final versions of the Frameworks, based on stakeholder priorities, were presented during Workshop #2. Links to the Frameworks can be found on page 7.

Task 4. DRAFT Plan Revision

Based on feedback on the Frameworks received during Workshop #2, H-GAC developed draft *GBP'18* content for the GBEP's review and guidance.

Content development was iterative, with more than six versions of the document developed and reviewed by the GBEP and / or Galveston Bay Council, its subcommittees, and the Technical Advisory Council prior to the release of the DRAFT *GBP'18* in March 2018 for public comment.

The DRAFT *GBP'18* included:

- Summary table listing the prior CCMP's actions completed, revised, ongoing, and obsolete,
- Description of how the NEP has contributed to or supported activities that helped develop new information,
- A map of the study area,
- Description of the NEP's program structure and membership,
- Discussion of proposed changes in Actions,
- Monitoring approach,
- Finance strategy,
- Habitat/restoration strategy,
- Public review process and summary of public comments,
- Crosswalk table comparing *GBP'95* and *GBP'18*.

During the 30-day public comment period, 427 comments were received.

Task 5. Final Plan

Based on stakeholder feedback and public comments, the DRAFT *GBP'18* was revised where deemed appropriate by the GBEP and the TCEQ. Responses to all 427 comments received during the public comment period were included in the final version of *GBP'18*.

H-GAC presented *GBP'18* to the Galveston Bay Council. On October 17, 2018 it was unanimously approved for adoption. As of November 16, 2018, *GBP'18* is awaiting approval and adoption by the TCEQ Commissioners. After that, it will move forward to the EPA for final approval. A link to *GBP'18* can be found on page 7.

In addition, an accessibility-compliant version of *GBP'18* was developed in compliance with TCEQ requirements. A link to the accessibility-compliant version of *GBP'18* can be found on page 7.

Task 6. Final Report

This document fulfills Subtasks 6.1 and 6.2, as outlined by the contract.

Task 7. Additional Review, Edits & Revisions

No additional review, edits or revisions were required.

Task 8. Executive Summary

Completion of Task 8 is currently underway and will be completed prior to the project end date. Once completed, the Executive Summary will be made available on the project website. In addition, an accessibility-compliant version of the Executive Summary will be developed with TCEQ requirements. A link to the accessibility-compliant version of the Executive Summary can be found on page 7.

V. Results & Observations

The final version of *GBP'18*, pending TCEQ and EPA review and approval, builds on the original document and identifies new and emerging issues that must be addressed in a simpler, easier to read format. *GBP'18* is 312 pages, including covers and appendices.

A total of ten facilitated stakeholder meetings were held over the course of the project, with three additional meetings with the Technical Advisory Committee, three presentations to the Galveston Bay Council, and two workshop training sessions also conducted.

More than 150 stakeholders provided content, comment, and feedback for *GBP'18*. The following individuals provided formal comment between March 5, 2018 - April 4, 2018.

COMMENTER	NUMBER OF COMMENTS PROVIDED
Brandt Mannchen, Sierra Club - Houston (LETTER)	171
Doug Jacobson, EPA (VERBAL / E-MAIL)	25
Jan Culbertson, TPWD (ONLINE FORM)	3
Jeff Taebel, H-GAC (E-MAIL)	3

John Wuttke, Building Everyone a Cleaner Houston (ONLINE FORM)	1
Jorge Brenner, The Nature Conservancy (ONLINE FORM)	1
Kenneth Teague (LETTER)	183
Paula Paciorek, Galveston Bay Foundation (ONLINE FORM)	2
Sarah Gossett, Galveston Bay Foundation (ONLINE FORM)	5
Scott Jones, Galveston Bay Foundation (ONLINE FORM)	27
Stennie Meadours, 3P Project (ONLINE FORM)	1
T'Noya Thompson, Galveston Bay Foundation (ONLINE FORM)	4
Anonymous Commenter (E-MAIL)	1

VI. Discussion

Successes

H-GAC staff has identified the following activities as successes for the creation of *GBP'18*:

- Engagement with Subcommittees
Through facilitated workshops and individual meetings, the subcommittees to the Galveston Bay Council provided consistent, quality technical information and non-technical guidance in the development of *GBP'18*.

Opportunities for Growth

H-GAC staff identified the following areas for potential growth and improvement for future CCMP updates / revisions:

- Review Requirements & Processes
For the next CCMP update and / or revision, H-GAC will seek to more clearly understand the GBEP and the TCEQ review requirements and associated timelines, as well as accessibility compliance requirements.

REFERENCES (DOCUMENT LINKS)

ⁱ www.GalvestonBayPlan.org

ⁱⁱ <http://www.h-gac.com/community/galveston-bay-plan/documents/GBP%20Public%20Engagement%20Plan%20FINAL.pdf>

ⁱⁱⁱ <http://www.h-gac.com/community/galveston-bay-plan/documents/GBP%20Workshop%201.pdf>

^{iv} https://www.h-gac.com/community/galveston-bay-plan/documents/The%20Galveston%20Bay%20Plan%20Revision_Workshop%201%20Finding%20Report.pdf

^v <http://www.h-gac.com/community/galveston-bay-plan/documents/GBP%20Workshop%202.pdf>

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- ^{vi} https://www.h-gac.com/community/galveston-bay-plan/documents/The%20Galveston%20Bay%20Plan%20Revision_Workshop%202%20Finding%20Report_FINAL.pdf
- ^{vii} https://www.h-gac.com/community/galveston-bay-plan/documents/WSQ%20Framework_Wksp2.pdf
- ^{viii} https://www.h-gac.com/community/galveston-bay-plan/documents/PPE%20Framework_Wksp2.pdf
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- ^x https://www.h-gac.com/community/galveston-bay-plan/documents/NRU%20Framework_Wkshp2.pdf
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- ^{xii} https://www.h-gac.com/community/galveston-bay-plan/documents/The%20Galveston%20Bay%20Plan%20Revision_Workshop%203%20Finding%20Report_FINAL.pdf
- ^{xiii} <https://www.h-gac.com/community/galveston-bay-plan/documents/the-galveston-bay-plan-2nd-Edition-draft-for-public-comment.pdf>
- ^{xiv} http://www.h-gac.com/community/galveston-bay-plan/documents/181127_GBP18_FINAL%20DRAFT%20GBC.pdf
- ^{xv} http://www.h-gac.com/community/galveston-bay-plan/documents/181127_GBP18_FINAL%20DRAFT%20GBC_ACCESSIBLE%20VERSION.docx
- ^{xvi} http://www.h-gac.com/community/galveston-bay-plan/documents/Appendix%20D_Public%20Comment%20Log_FINAL_Accessibility.xlsx
- ^{xvii} http://www.h-gac.com/community/galveston-bay-plan/documents/Appendix%20E_Technical%20Crosswalk_FINAL_Accessibility.xlsx
- ^{xviii} http://www.h-gac.com/community/galveston-bay-plan/documents/Appendix%20F_Performance%20Measures_FINAL_Accessibility.xlsx

APPENDIX A
CONTRACT COMMUNICATION LOG

DATE	TYPE	DISCUSSION ITEMS?
7/28/2016	Meeting with Sarah	Workshop #1 Brainstorming
8/24/2016	Meeting with Sarah	Kick-Off Meeting (Contract, TAC Composition, NEP Questionnaire & Draft PEP)
9/7/2016	Call with Advisory Committee	Notes not available.
9/20/2016	Meeting with Sarah	Notes not available.
10/14/2016	Meeting with Sarah	Notes not available.
10/22/2016	Workshop #1 / Open House	See workshop meeting report online.
11/22/2016	Meeting with Sarah	Notes not available.
12/1/2016	WSQ Subcommittee Meeting	WSQ Framework for The Plan
12/8/2016	Call with Sarah	Conference Call
12/12/2016	M&R Subcommittee Meeting	M&R Framework for The Plan
1/12/2017	NRU Subcommittee Meeting	NRU Framework for The Plan
1/12/2017	Meeting with Sarah, Nancy, GBEP Staff	Workshop #2 Discussion (FEP Submitted & Discussed)
1/17/2017	PPE Subcommittee Meeting	PPE Framework for The Plan
1/24/2017	Call with Sarah	Workshop #2 Discussion
2/2/2017	Lunch Meeting w/Sarah	The Galveston Bay Plan Revision Outline
2/8/2017	Meeting with Sarah	Workshop #2 Walk-Thru & Discussion
2/21/2017	Workshop #2 Training w/GBEP Staff	Materials & Activities Dry Run and Discussion
3/1/2017	Workshop #2	See workshop meeting report online.
3/23/2017	Meeting with Sarah	Notes not available.
4/26/2017	Meeting with Sarah	Timeline / Schedule, Revised Review Process, Revised Outline, To Do List Updates
4/28/2017	Call with Sarah	Review of Workshop #2 Findings report, Batch 1 and 2 Text Edits, H-GAC Style Guide Questions
5/12/2017	Meeting with Sarah	Schedule Changes & To Do Lists
5/19/2017	Call with Sarah	Style Guide, Accessibility Requirements, GBEP Review, Introduction Re-vamp, Name Alternative for Global Plan Elements
5/31/2017	Meeting with Sarah	Workshop #2 Findings report, Public Comment Log, Revised Text Timelines, Comprehensive Edits, Monitoring Partners List
6/13/2017	Call with Sarah	Comprehensive Draft 1 Discussion - Prior to Send Out
6/23/2017	Meeting with Sarah	GBEP Edits / Changes to Nomenclature, TAC Review, EPA Review

7/12/2017	Meeting with Sarah	Project Status Update, July 19 GBC Meeting Preparation, MR and PPE Priority Plan Language Options
7/17/2017	Call with Sarah	Syntax, Nomenclature of Hierarchy, Technical Section Introductions, Potential Facilitated Meeting w/GBEP Staff, Language Preferences
7/20/2017	Call with Sarah	GBC Presentation & Discussions with EPA Contact
7/27/2017	Meeting with Sarah	All-Day Facilitated Discussion RE: Outline, Hierarchal Language, Action Plans, Outstanding TAC Issues, Next Steps & Milestones
8/24/2017	Call with Sarah	Content Discussion, Eblast Status, Technical Templates Status, Letters of Support, Contract Extension
8/30/2017	Call with Sarah	Content-Specific Discussions
9/6/2017	Call with Sarah	Content Discussion, Eblast Status, Technical Templates Status, Letters of Support, Contract Extension
9/20/2017	Call with Sarah	Content Discussion, Outstanding Text from GBEP, Crosswalk / Actions, Timing for Sharing DRAFT Plan
9/29/2017	Call with Sarah	Amendment Discussion
10/25/2017	Call with Sarah	Status of Letters of Support, Comprehensive Draft 3 Status, Public Comment Log, Amendment 1, Revised Timeline
11/17/2017	Call with Sarah	Comprehensive Draft 3, Amendment 1, Revised Timeline
11/29/2017	Meeting with Sarah	Revised Amendment 1 / Budget Discussion
12/1/2017	Call with Sarah	Amendment 1 Follow Discussion (Contract Budget / Tasks Remaining)
12/8/2017	Call with Sarah	Check In: Amendment 1 Follow Discussion (Contract Budget / Tasks Remaining)
1/8/2018	Call with Sarah	Check In: Amendment 1, draft document taskers, planning for release to GBC / subcommittees
1/31/2018	Presentation of draft to GBC	H-GAC Presented The Galveston Bay Plan, 2nd Edition draft to GBC / Subcommittees
2/13/2018	Meeting w/GBEP Staff	Group review / discussion of outstanding GBC / subcommittee edits and comments for incorporation prior to release for Public Comment.
2/20/2018	Call with Sarah	Discussed outstanding updates to draft document, as well as training timeline and day-of details.
2/26/2018	Workshop #3 Training w/GBEP Staff	Training call for Workshop #3 / Open House Facilitators
2/27/2018	Call with Sarah and Cynthia	Open House Talking Points Discussion / Media Inquiries
3/5/2018	Workshop #3	See draft workshop meeting report, submitted on 5/7/18.
4/9/18	Call with Sarah & Team	Discussion of draft public comment responses.
5/3/18	Executive Summary Kickoff Meeting w/GBEP Team	Proposed content of Executive Summary, timeline, and expectations.
5/11/18	Call with Sarah	Check-in on public comment responses, pending GBEP and TCEQ feedback.
7/19/18	Call with Sarah, Cynthia, and Cassidy	Project management transition plan and updates to the timeline / milestones.
7/24/18	Call with Kerry & GBEP Team	Discussed public comment responses, revised timeline / milestones, GBC approach.
8/30/18	Call with Kerry	Discussed Budget Revision and content of foreword, following Sarah's departure from GBEP.
9/4/18	Call with Cynthia	Discussed performance measures appendix.

10/4/18	Call with Cynthia, Lisa and Cassidy	Discussed Executive Summary content, layout and timeline.
10/15/18	Call with Cynthia, Lisa and Cassidy	Discussed accessibility requirements / path forward and revised timeline.
10/17/18	Presentation of final draft to GBC	H-GAC Presented The Galveston Bay Plan, 2nd Edition final draft to GBC / Subcommittees for adoption
11/27/18	Call with Cynthia, Lisa and Cassidy	Discussed edits to Executive Summary, revised delivery timeline, additional edits to GBP'18 and accessibility documents.

APPENDIX B
PROJECT ARTICLE

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BAY BRIEFINGS



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Galveston Bay Comprehensive Conservation and Management Plan Revision

Waterbody: Galveston Bay and connecting waters
Location: Galveston Bay Watershed
Contractor: Houston-Galveston Area Council

Project Period: September 26, 2016—May 31, 2018
GBEP Contribution: \$75,000

Project Description:

The Galveston Bay Estuary Program (GBEP) is one of 28 National Estuary Programs (NEPs), is one of 28 National Estuary Programs (NEPs), each charged with developing a collaborative Comprehensive Conservation and Management Plan (CCMP). For GBEP, the CCMP is titled, *The Galveston Bay Plan*, also known as, *The Plan*.

The Galveston Bay Plan

This document guides conservation and restoration of the estuary and surrounding natural resources. It is based on scientific research aimed at protecting and restoring Galveston Bay through the identification of problems, solutions, and actions to meet the bay's growing needs. The most recent version, approved in 1995, established 82 management initiatives to address 17 specific priority problems.

[Click here to view The Galveston Bay Plan \(1995\).](#)

Strategic Action Plan

In 2005, the GBEP created the Strategic Action Plan (SAP) to focus on three sections to highlight priority areas of *The Plan*. This document characterized goals and objectives of each priority areas that would guide planning and implementation through 2015.

Priority areas included:

1. Protecting existing coastal habitats in the Lower Galveston Bay Watershed.
2. Creating a sense of personal ownership and shared responsibility for all cultural components of the community including the public, industry, and government.
3. Restoring and enhancing coastal habitats in the Lower Galveston Bay Watershed.
4. Ensuring freshwater inflows necessary to maintain the balance of salinity, nutrients, and sediments required to support a productive estuary.
5. Reducing non-point source pollutant loads.

6. Obtaining information to develop and evaluate Estuary Program communication efforts.
7. Maintaining the capacity and integrity of municipal sanitary sewer collection systems to eliminate sewage bypasses and authorized overflows.
8. Minimizing the risk of waterborne illness resulting from contact recreation.
9. Supplying Galveston Bay Council members with the information and assessments they need to protect and manage the resources of the Galveston Bay ecosystem.

[Click here to view the Strategic Action Plan \(2009\)](#)

The Galveston Bay Plan, 2nd Edition

The Plan has provided successful stewardship of the Galveston Bay Estuary for more than 20 years, with progress made across all 82 management initiatives. Still, changes in funding, population, and regulatory processes have created new issues and challenges for Galveston Bay.

The goal of this project is to revise *The Plan* to a more current version while maintaining the strengths of the original. The revised document, known as *The Galveston Bay Plan, 2nd Edition*, will identify new issues impacting the estuary and watershed that were not addressed by *The Plan* or SAP, and present them in an easily accessible format.

Once a draft of *The Galveston Bay Plan, 2nd Edition* is complete, it will be made available for public comment. To learn more about the revision, visit www.GalvestonBayPlan.org.

For More Information:

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Partners:



APPENDIX C
PRESENTATIONS TO THE GALVESTON BAY COUNCIL

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**PLAN
REVISION**



GALVESTON BAY COUNCIL

January 12, 2016

Plan Revision Tasks

Facilitate Stakeholder Involvement

Encourage Public Engagement

Seek Public and Agency Comments

Secure Council and Agency Approval

Plan Revision Document

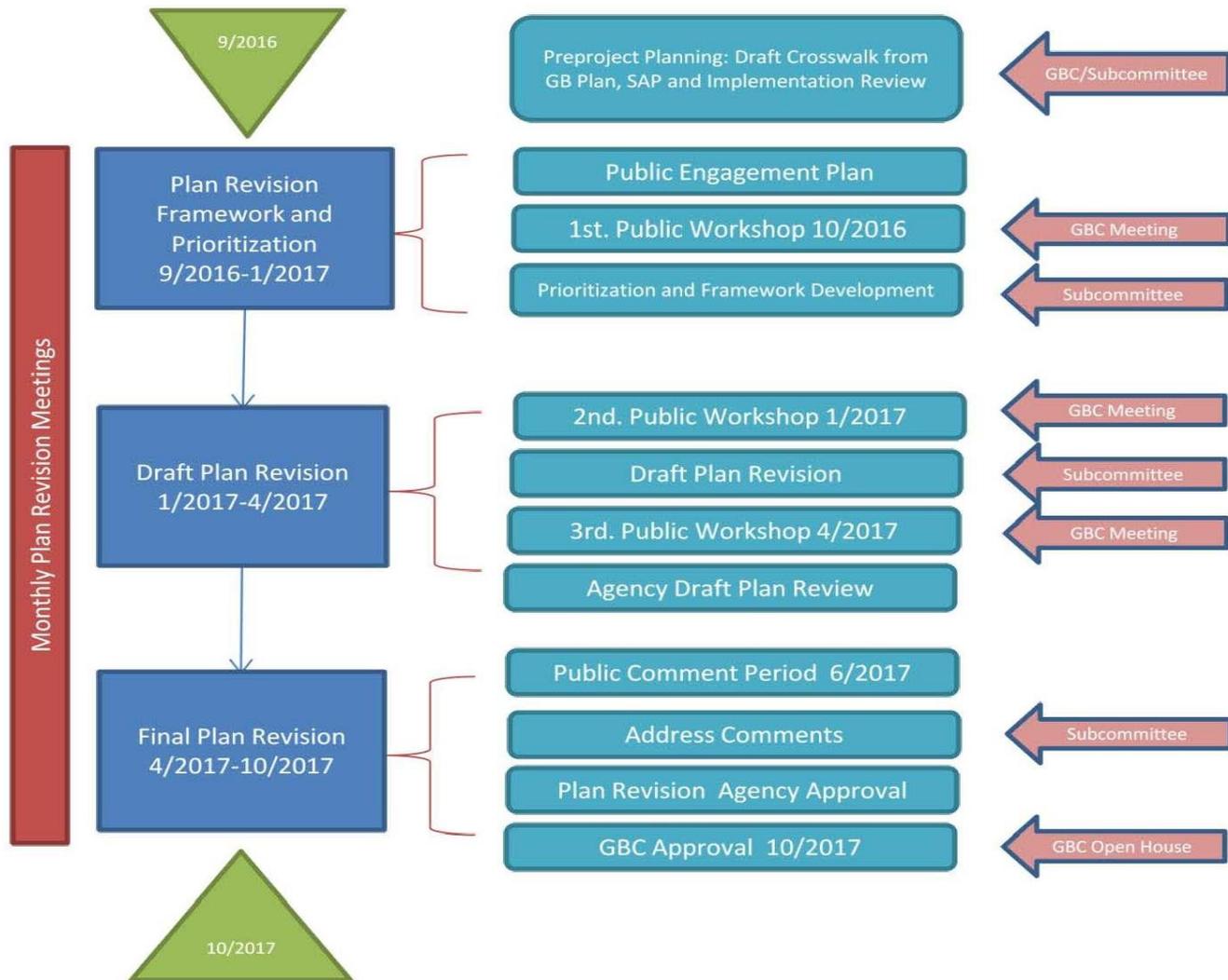
Utilize Existing Documents

Identify New and Emerging Issues

Prioritize and Track Progress

Facilitate, Coordinate and Collaborate

Project Time Line



Website Component

Our Great Region 2040 People. Places. Prosperity.

Our Great Region 2040 is a high-level plan whose aim is for Our Region to be one of the world's greatest places to live, work, and succeed. It is based on research, analysis, and extensive public input, along with the knowledge and expertise of local leaders from the public, private, and non-profit sectors, spanning Our Region's urban, suburban, rural and coastal areas. Our Great Region 2040 is based around the foundation of People, Places, and Prosperity and organized around the framework of the following **Six Big Ideas**:

- Resiliency**
 Increasing our resiliency to disaster and a changing environment
- Housing**
 Providing balanced housing choices near jobs, services and transportation options.
- Environment**
 Securing a clean and ample water supply
- Healthy Communities**
 Cultivating places where people can lead active, healthy lives
- Economic Development**
 Strengthening our economic competitiveness through an educated and skilled workforce
- Transportation**
 Achieving a world-class transportation network

Additional Resources
 Several supporting reports, described below, were created to lay a foundation for Our Great Region 2040. For more information, please check www.ourregion.org.

The Fair Housing Equity Assessment identifies baseline conditions for fair housing, equity and opportunity across our region.

The Equity Profile evaluates existing conditions and makes recommendations to improve equity in our region.

Six case studies that highlight ways the plan's strategies can be implemented in Our Region's communities.

The Existing Conditions Report provides a snapshot of what Our Region looks like today.

The Community Resource Guide provides information for the public on available government resources.

The Strategy Playbook includes funding sources, tools, and successful examples of implementation from Our Region and elsewhere.

www.ourregion.org

Thank You!



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The Galveston Bay Plan, 2nd Edition **DRAFT**

The Comprehensive Conservation and Management Plan for the Galveston Bay Ecosystem

██████████
Galveston Bay Council Presentation

January 31, 2018



APPROACH PHILOSOPHY

**RECOGNIZE THE
SUCCESSSES**

FILL IN THE GAPS

**UNDERSTAND ITS
ITERATIVE
NATURE**

APPROACH PHILOSOPHY

**RECOGNIZE THE
SUCSESSES**

FILL IN THE GAPS

**UNDERSTAND ITS
ITERATIVE
NATURE**

APPROACH PHILOSOPHY

**RECOGNIZE THE
SUCCESSSES**

FILL IN THE GAPS

**UNDERSTAND ITS
ITERATIVE
NATURE**

APPROACH PHILOSOPHY

**RECOGNIZE THE
SUCCESSSES**

FILL IN THE GAPS

**UNDERSTAND
ITS ITERATIVE
NATURE**

REVISION PROCESS



COMPARING THE TWO PLANS

	The Galveston Bay Plan (1995)	The Galveston Bay Plan, 2nd Edition (2018)
Priority Issues	17	13
Action Plans	10	10
Actions	82	38

THE GALVESTON BAY PLAN, 2ND EDITION



PLAN PRIORITY 1: ENSURE SAFE HUMAN AND AQUATIC LIFE USE

ACTION PLANS

IMPROVE WATER QUALITY THROUGH
NONPOINT SOURCE POLLUTION ABATEMENT (NPS)

IMPROVE WATER QUALITY THROUGH
POINT SOURCE POLLUTION ABATEMENT (PS)

PROMOTE PUBLIC HEALTH AND AWARENESS (PHA)



PLAN PRIORITY 2: PROTECT AND SUSTAIN LIVING RESOURCES

ACTION PLANS

SUPPORT HABITAT CONSERVATION (HC)

SUPPORT SPECIES CONSERVATION (SC)

SUSTAIN FRESHWATER INFLOWS (FWI)

THE GALVESTON BAY PLAN, 2ND EDITION

(continued)



PLAN PRIORITY 3: ENGAGE COMMUNITIES IN CONSERVATION

ACTION PLANS

STAKEHOLDER & PARTNER OUTREACH (SPO)

PUBLIC EDUCATION AND AWARENESS (PEA)



PLAN PRIORITY 4: INFORM SCIENCE-BASED DECISION MAKING

ACTION PLANS

APPLIED RESEARCH AND MONITORING (RES)

INCREASE ACCESS TO GALVESTON BAY
ECOSYSTEM INFORMATION (ACS)

STRUCTURE OF THE 2ND EDITION

PLAN PRIORITIES
(4)

ACTION PLAN
(10)

PRIORITY ISSUES
(13)

GOALS
(15)

OBJECTIVES
(38)

ACTIONS
(38)

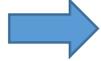
SAMPLE ACTION PLAN

PLAN
PRIORITY



ENSURE SAFE HUMAN AND AQUATIC LIFE USE

ACTION
PLAN



**IMPROVE WATER QUALITY THROUGH
NONPOINT SOURCE POLLUTION ABATEMENT (NPS)**

PRIORITY
ISSUE

NPS pollution causes impairments in the region's waters.

GOAL

Reduce NPS source pollution.

OBJECTIVES

Develop and implement local WBPs with partners and stakeholders.

Develop and support a Back the Bay NPS education campaign.

Implement NPS BMP projects.

Host NPS workshops to enhance technical understanding and expand the use of BMPs.

ACTIONS

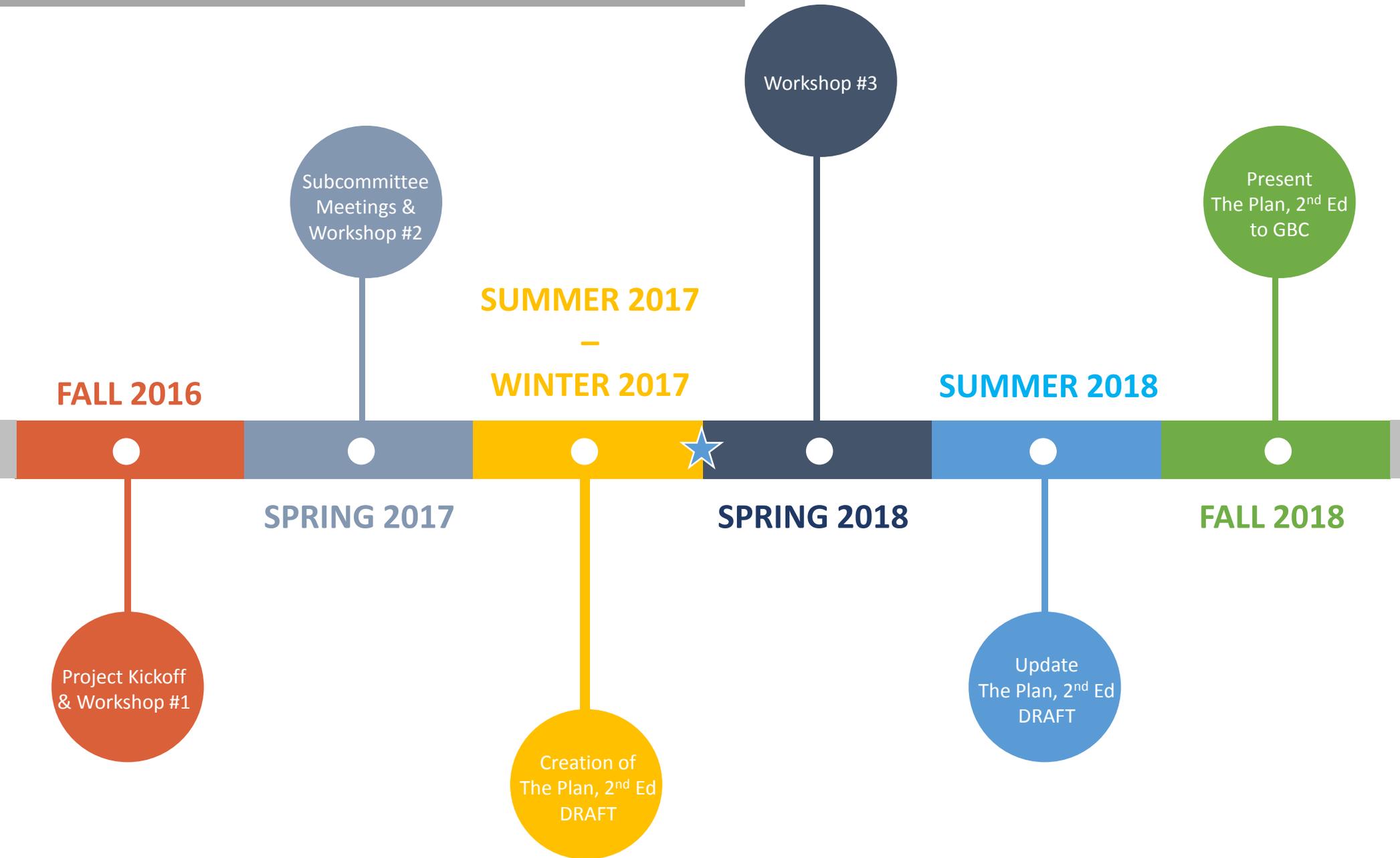
NPS-1

NPS-2

NPS-3

NPS-4

PROJECT TIMELINE



PUBLIC COMMENT PERIOD

OPEN HOUSE FOR PUBLIC COMMENT

March 5, 2018

4 – 7 p.m.

Texas A&M AgriLife Extension - Galveston

4102-B Main St

La Marque, TX 77568

ONLINE FORUM FOR PUBLIC COMMENT

Opens March 5, 2018 at 4 p.m.

Closes April 4, 2018 at 4 p.m.

www.GalvestonBayPlan.org/Comments



www.GalvestonBayPlan.org

E-mail Kathy.Janhsen@h-gac.com with questions.



The Galveston Bay Plan, 2nd Edition

The Comprehensive Conservation and Management Plan for the Galveston Bay Ecosystem



Galveston Bay Council Presentation

October 17, 2018

THE GALVESTON BAY PLAN, 2ND EDITION



PLAN PRIORITY 1: ENSURE SAFE HUMAN AND AQUATIC LIFE USE

ACTION PLANS

IMPROVE WATER QUALITY THROUGH
NONPOINT SOURCE POLLUTION ABATEMENT (NPS)

IMPROVE WATER QUALITY THROUGH
POINT SOURCE POLLUTION ABATEMENT (PS)

PROMOTE PUBLIC HEALTH AND AWARENESS (PHA)



PLAN PRIORITY 2: PROTECT AND SUSTAIN LIVING RESOURCES

ACTION PLANS

SUPPORT HABITAT CONSERVATION (HC)

SUPPORT SPECIES CONSERVATION (SC)

SUSTAIN FRESHWATER INFLOWS (FWI)

THE GALVESTON BAY PLAN, 2ND EDITION

(continued)



PLAN PRIORITY 3: ENGAGE COMMUNITIES IN CONSERVATION

ACTION PLANS

STAKEHOLDER & PARTNER OUTREACH (SPO)

PUBLIC EDUCATION AND AWARENESS (PEA)



PLAN PRIORITY 4: INFORM SCIENCE-BASED DECISION MAKING

ACTION PLANS

APPLIED RESEARCH AND MONITORING (RES)

INCREASE ACCESS TO GALVESTON BAY
ECOSYSTEM INFORMATION (ACS)

CHANGES TO *GBP'18*



Greater Tie-In Between Actions and Plan
Priorities

ACTION PLANS AND CORRESPONDING ACTIONS		PLAN PRIORITIES			
		Ensure Safe Human and Aquatic Life Use	Protect and Sustain Living Resources	Engage Communities	Inform Science-Based Decision Making
Action Plan: Improve Water Quality Through Nonpoint Source Pollution Abatement (NPS)					
NPS-1	Support Watershed-Based Plan Development and Implementation	X	X	X	X
NPS-2	Support Nonpoint Source Education and Outreach Campaigns	X	X	X	
NPS-3	Implement NPS Best Management Practices	X	X		X
NPS-4	Host Nonpoint Source Workshops	X		X	X
Action Plan: Improve Water Quality Through Point Source Pollution Abatement (PS)					
PS-1	Support Stormwater Education Programs	X		X	
PS-2	Achieve Sanitary Sewer System Capacity and Integrity	X		X	
PS-3	Increase Wastewater Treatment Facility Compliance	X		X	
Action Plan: Promote Public Health and Awareness (PHA)					
PHA-1	Improve Seafood Advisory Awareness	X		X	X
PHA-2	Improve Regional Contact Recreation Risk Awareness	X		X	
PHA-3	Improve Contact Recreation Safety Through Watershed-Based Plans (WBPs)	X			X
PHA-4	Improve Shellfish Consumption Safety Through WBPs	X		X	X
PHA-5	Improve Finfish Consumption Safety Through WBPs	X		X	X
Action Plan: Support Habitat Conservation (HC)					
HC-1	Land Acquisition	X	X		
HC-2	Habitat Restoration	X	X		
HC-3	Habitat Enhancement	X	X		
Action Plan: Support Species Conservation (SC)					
SC-1	Native Species Management		X	X	X
SC-2	Invasive Species Control		X	X	X
Action Plan: Sustain Freshwater Inflows (FWI)					
FWI-1	Regional Planning for Freshwater Inflows	X	X	X	
FWI-2	Freshwater Inflows Research and Management	X	X		X
FWI-3	Water Conservation and Education	X	X	X	

ACTION PLANS AND CORRESPONDING ACTIONS		PLAN PRIORITIES			
		Ensure Safe Human and Aquatic Life Use	Protect and Sustain Living Resources	Engage Communities	Inform Science-Based Decision Making
Action Plan: Preserve Galveston Bay Through Stakeholder and Partner Outreach (SPO)					
SPO-1	Stewardship Programs and Volunteer Opportunities	x	x	x	
SPO-2	Workshops and Events	x	x	x	
SPO-3	Support Regional Initiatives	x	x	x	x
SPO-4	Local Government Outreach	x	x	x	x
Action Plan: Support Public Education and Awareness Initiatives (PEA)					
PEA-1	Key Issue Engagement	x	x	x	x
PEA-2	Adult Education	x	x	x	
PEA-3	Kindergarten to 12th Grade (K-12) Education Efforts			x	
Action Plan: Collaborate with Research Institutions to Support Focus Area Applied Research and Monitoring (RES)					
RES-1	Conduct Biological Stressor Monitoring and Research	x	x	x	x
RES-2	Conduct Geochemical Stressor Monitoring and Research	x	x	x	x
RES-3	Conduct Physical Stressor Monitoring and Research	x	x	x	x
RES-4	Conduct Monitoring and Research to Address Limits to Contact Recreation	x		x	x
RES-5	Conduct Monitoring and Research to Address Limits to Seafood Consumption	x		x	x
RES-6	Evaluate Best Management Practice (BMP) Projects	x		x	x
RES-7	Conduct Research on Ecosystem Service and Economic Valuation of Bay Resources				x
RES-8	Complete Coastal Resiliency and Acclimation Studies				x
Action Plan: Increase Access to Galveston Bay Ecosystem Information (ACS)					
ACS-1	Tracking Ecosystem Health Indicators	x	x	x	x
ACS-2	Access to Monitoring and Research Data	x	x	x	x
ACS-3	Track Galveston Bay Plan Implementation	x	x	x	x

CHANGES TO *GBP'18*



Greater Tie-In Between Actions and Plan Priorities



Simplified, Consistent Plan Terminology

CCMP	Comprehensive Conservation and Management Plan
GBP'95	The Galveston Bay Plan
SAP	Strategic Action Plan
GBP'18	The Galveston Bay Plan, 2nd Edition

CHANGES TO *GBP'18*



Greater Tie-In Between Actions and Plan Priorities



Simplified, Consistent Plan Terminology



Inclusion of New, Quantitative Measures for Actions

ACTION NUMBER
Provides Action acronym and number to create a unique Action identifier. Color links to one of the four Plan Priorities.

ACTION NAME

OBJECTIVE
Desired outcome of the Action.

SPO-1 **Stewardship Programs and Volunteer Opportunities**
Objective: Develop new and support existing stewardship programs and volunteer opportunities for stakeholders.

ADDITIONAL PLAN PRIORITY REFERENCES
Actions relevant to multiple Plan Priorities are indicated here by icon.

PRIORITY ISSUE
Stakeholder-identified issues of importance that will be addressed.

Priority Issue: Individuals lack a sense of ownership and / or responsibility for the health of Galveston Bay.
Description: The GBEP and its partners are continuing to develop, support, and promote stewardship programs and volunteer opportunities for stakeholders, industry, and government. Opportunities include the GBEP subcommittee participation, project stakeholder meetings, events, and volunteer programs that allow participants to become ambassadors of Galveston Bay. Program types include, but are not limited to, conservation work, water quality management, invasive species management, and trash clean up events.

ACTION LOCATION

Implementation location: Lower Galveston Bay watershed.

ACTIVITIES	TIMEFRAME AND OUTPUT(S)	IMPLEMENTATION COST
Develop list of existing stewardship and volunteer programs.	Within 2-5 years	\$0 - \$200,000
	Within 2-5 years	\$0 - \$200,000
	Within 2-5 years	\$0 - \$200,000
	Within 5-10 years, see a measurable increase in existing program participation (specific to programs already supported, such as Texas Stream Team and Trash Bash).	\$0 - \$200,000
Support and fund existing and new stewardship and volunteer programs.	Within 5-10 years, support five additional programs (or 50% goal met), per the stewardship plan.	\$200,000 - \$1 Million
	Within 10-plus years, support five additional programs (or 100% goal met), per the stewardship plan.	\$200,000 - \$1 Million

ACTIVITIES
Measurable outcome(s) used to gauge whether the Action has been achieved.

TIMEFRAME AND OUTPUT(S)*
Identifies activities and timeframes when important milestones will be accomplished.

IMPLEMENTATION COST*
Refers to the estimated funding range needed to implement the measure in the identified timeframe and output.

POTENTIAL IMPLEMENTERS

- Bay Foundation
- Galveston Area Council
- Student Conservation Association
- Texans for Clean Water
- Texas Audubon
- Texas Conservation Fund
- Texas City - La Marque Community Advisory Council
- Various Partners (Including Industry)

PERFORMANCE MEASURES
Quantitative measure(s) used to evaluate successful implementation of the Action.

POTENTIAL IMPLEMENTERS
Refers to those entities and organizations that will likely be involved in the implementation of the Action.
Implementation is not limited to these partners, entities, or organizations and will be conducted in coordination with the GBEP staff and GBC and its subcommittees.

PERFORMANCE MEASURES

1. Evaluation and plan to support stewardship and volunteer programs completed.
2. Evaluation and plan to reach underserved geographies and communities completed.
3. Number of existing programs supported by the stewardship plan.
4. Number of new programs created in underserved communities.
5. Evaluation of program success and number of people reached completed.

REFERENCES

GBP'95: PPE-1, PPE-5 PPE-6
SAP Reference: Public Awareness: Goal 2 / Objective B

REFERENCES
Indicates related sections from GBP'95 and SAP.

CHANGES TO *GBP'18*



Greater Tie-In Between Actions and Plan Priorities



Simplified, Consistent Plan Terminology

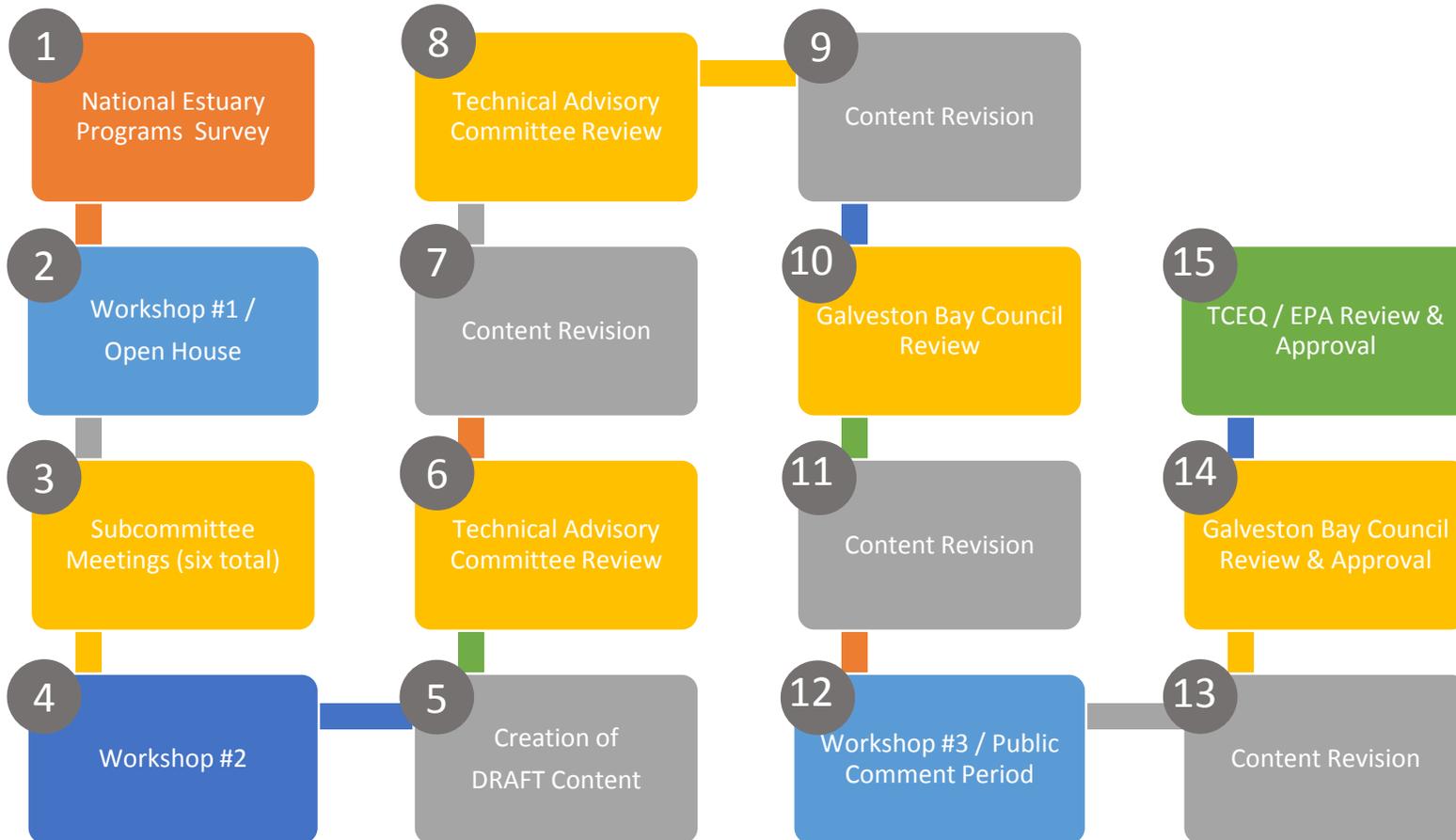


Inclusion of New, Quantitative Measures for Actions

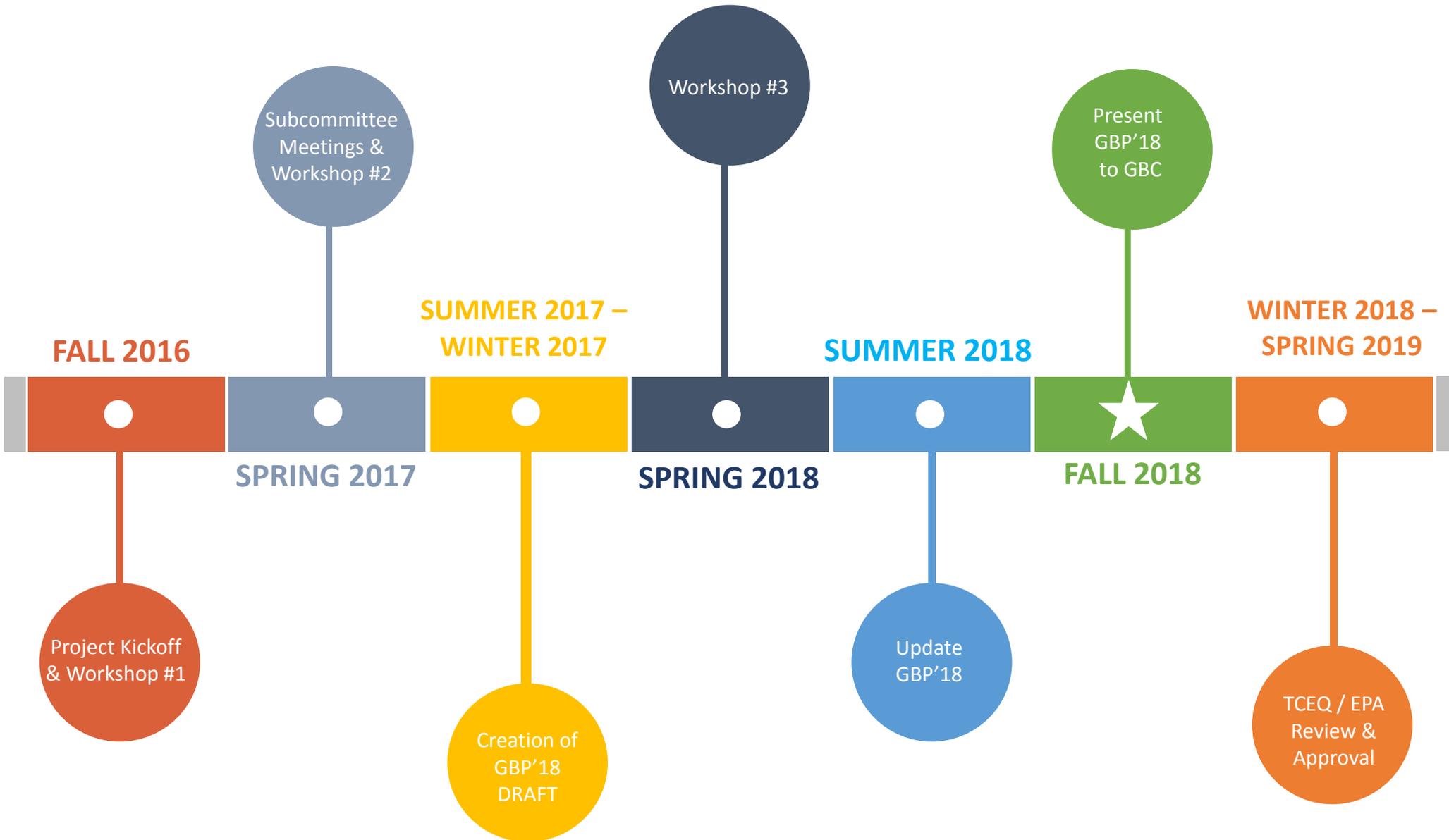


Comprehensive Review for Readability and Grammar

REVISION PROCESS



PROJECT TIMELINE



GBP'18 Executive Summary

GOAL

The goal of this Executive Summary is to summarize the broad strokes of GBP'18 to ensure readers can rapidly become acquainted with the material without having to read all 312 pages.

AUDIENCE(S)

The primary audience for this Executive Summary is assumed to be the TCEQ Commissioners, elected officials, and potential partners to the GBEP.

TIMELINE

Completion anticipated by or before December 19, 2018.



www.GalvestonBayPlan.org

E-mail Kathy.Janhsen@h-gac.com with questions.